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Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award
of Bachelor of Technology Degree in Information Technology

By
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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the Bonafide work of who carried out the project entitled " E-BIKE RENTAL SYSTEM" under our supervision from June 2021 to November 2021.

Internal Guide

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Submitted for Viva voce Examination held on _____

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DECLARATION

I SANDHIYA V hereby declare that the Project Report entitled “**E-BIKE RENTAL SYSTEM** “ done by me under the guidance of **Dr. R. SUBHASHINI M.E., Ph.D.**, at Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600119 is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information Technology.

Place: Chennai

SIGNATURE OF THE CANDIDATE

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ABSTRACT:

This system is named as Bike on Rent Management System. This system is designed to help the customers to take bikes or two-wheelers for rent. When we go on any trip outside the town or country, we want to be free of time so instead of going through metros and taxis, we prefer to have our own vehicle for rent.

Using this system vehicle owners can register as sellers and customers who want to take bikes on rent can register themselves as renters and can take any bike on rent. Address of the both are required as the customer can only take bike by going to the address provided and the vehicle owners can know the address that a customer is verified or not. The customer also has to upload some proofs to take the bike on rent.

Proofs like license, pan card, and identity card are compulsory so that no one could run taking the bike. Any customer whose proofs are not uploaded and are not valid will not be allowed to take any bike on rent. This has one admin account that verifies the registering user and two types of user account. One for bike sellers and one for customers who take the bike on rent.

This system has only one admin account and cannot have more than one admin account. Admin can verify and register the user who is registering. If the admin does not verify, the user cannot register. All other features are explained further in detail.

The Mechanical, Electrical, and Computer Engineering Programs at York College of Pennsylvania have mandatory co-op programs in which each student receives three semesters of engineering work experience. Our senior design courses further develop our students' design and project development skills by intentionally targeting projects that emphasize working within a larger team. For example, we have built autonomous robots for the International Ground Vehicle Competition (IGVC) and formula style race cars for the Society of Automotive Engineering Formula Student Design Competition (FSAE). While successfully developing our students' project development and group communication skills, these projects lacked the personal interaction with a customer with well (or sometimes poorly) defined specifications and constraints. To fill this need, and to help build community relationships, one of this past year's senior design projects sought to design and build a bike rental system. The product will connect the college campus to the downtown York business district. Two representatives from companies in the business district were the customers who helped the students develop specifications, participated in planning meetings, and attended design reviews of the bike rental system. We and our business partners hope that the bike rental system will increase the number of students frequenting downtown York and its businesses.

In the first stage of this project, in the 2014-15 academic year, two teams of engineering students developed their own independent designs. Each team had about eight mechanical, electrical, and computer engineering students. Faculty advisors from all three disciplines advised on the projects. The initial phase of the project was conducted over two semesters. The design work was completed in the first semester (summer 2014), and the construction and testing of two prototypes was completed in the second semester (spring 2015). After prototype completion, both designs were presented to the company representatives to solicit their feedback. This concluded the first phase of the project.

After receiving feedback from the customers, the second phase of the project, spanning the 2015- 16 academic year, began with a new group of students. These students further developed the mechanical, electrical, and computer designs this past summer (2015), combining the best aspects of the two prototype designs. These students will construct two bike racks (spring 2016) for implementation. We intend to place one bike rack on campus and the other in downtown York when they are complete.

1.INTRODUCTION

1.1 What Is An Electric Bikes?

An electric bike uses an electric motor for the purpose of moving. On this bicycle, people do not have to use their muscular force to move. It uses electrical energy for motion. They are also known as e-bikes. There are many varieties of electric bicycles. Some of these bikes have a rechargeable battery. This makes it easy to power the bike whenever you want. They make use of stored electrical energy in some or the other form. Due to this form of energy, the bikes have more power and speed. These bikes are more convenient than regular ones.

Technology Behind Electrical Bikes

Brushed and brushless are the two important types of motors used in these bikes. An electric power assist system is also added to these bikes to make them more functional. E-bikes use rechargeable batteries and the lighter varieties can travel up to 25 to 32 km/h (16 to 20 mph), depending on the laws of the country in which they are sold, while the more high-powered varieties can often do in excess of 45 km/h (28 mph).

Batteries used in this vehicle are lithium-ion batteries, nickel-cadmium batteries or any other. The parameters of the battery vary according to the voltage and capacity required for the vehicle. There are two types of controllers used in this vehicle. The type of controllers depends upon the motors used in the vehicle. The design of the bike is also very important. One of the most interesting designs is the folding bike.

Electric bike (e-bike) use has rapidly expanded in the People's Republic of China (PRC), in the process changing the mode split of many cities. Currently, the PRC produces over 20 million e-bikes yearly, up from a few thousand a decade ago.¹ E-bikes in the PRC are defined as electric two-wheelers with relatively low speeds and weights compared to a motorcycle. Both bicycle-style e-bikes (with functioning pedals) and bike-style e-bikes (with many of the features of gasoline bikes) are classified as bicycles and are given access to bicycle infrastructure.

E-bikes have risen in popularity in the PRC due to restriction of gasoline motorcycles, extensive bicycle infrastructure, and increased car and public transit congestion. However, the rise in e-bikes in the PRC has not spread to the rest of Asia. In fact, few cities in other Asian countries have any presence of e-bikes. In countries with dominant gasoline two-wheeler mode split, replacing those vehicles with electric two wheelers could improve air quality and reduce greenhouse gases. This study focuses on market potential in Ahmedabad, India, and Ha Noi, Viet Nam. From these cities, the study estimates price, performance, and regulatory factors that can influence the adoption of electric bikes (e-bikes) in these countries. It also focuses on the tailpipe emission reductions that could occur if e-bikes were adopted. It is important to note that the study investigates the potential and relative benefits of substituting electric two wheelers (e-bikes) for gasoline two-wheelers. This report does not investigate the potential shift to other modes, such as cars, mass transit, or nonmotorized transport, nor their impacts. It is expected that a shift from gasoline two-wheeler to e-bike

would result in environmental shifts, but that safety and mobility costs and benefits would not change much.

Figure 1: Typical Electric Bike



1.2 Background

E-bikes are two-wheeled motorized vehicles that are similar to gasoline-powered bikes and motorcycles, except that they operate solely on battery power (Figure 1). As an alternative to the gasoline-powered bike and motorcycle, the e-bike offers efficiency gains and, as they have zero local tailpipe emissions and are virtually silent, air and noise pollution reductions. E-bikes have become popular in the PRC, but because of regulations, their design has been limited to low-power (less than 500 watts [W]), light-weight (less than 60 kilograms [kg]), and low speed models (less than 40 kilometers per hour [km/h]). These bikes do not provide the necessary performance to compete against gasoline bikes and motorcycles in other countries. Most Chinese e-bike producers do not have an incentive to develop larger models solely for the export market, given the strong domestic market for smaller models. Given this, existing e-bikes are generally unsuitable for the markets outside of the PRC. Some companies outside of the PRC are developing larger scale e-bikes that

can compete against small displacement(<125cc²)gasoline two-wheelers, but it is uncertain what factors consumers value or the real environmental impact of such a shift.

Ahmedabad, India

In most Indian cities, gasoline-powered two wheelers (bikes and motorcycles) provide high mobility to households. While mode split varies by city, two-wheelers are a vital component of the transport system. Ahmedabad is the capital of Gujarat state in west India. Ahmedabad has a population of about 5 million. In 2007, 30% of all trips were made by a motorized two- or three-wheeler, 14% by bicycle, 22% by foot, 16% by public transport, and 17% by car. The average trip length of all modes was 6.2 km.³ In 2000, motorized two-wheelers constitute 38% of vehicle kilometers traveled with an average trip length of 6.8 km.⁴ Moreover, the average growth rate of the two-wheeler population in India is 10%.⁵ Interviews with a major e-bike manufacturer indicate a generally negative public perception of e-bikes. This is based on early models that performed poorly, along with companies importing low-quality bikes from the PRC that cannot operate well in the Indian context and do not have strong after-sales support. Companies based in India are focusing on developing more powerful e-bikes to provide higher speeds and more load-carrying capacity.

2. MODULES OF BIKE RENTAL SYSTEM

Our system has two main modules. One is the admin and the other is the user. The user module is again divided into two parts, either the user can be an event or function arranger or customer.

2.1 Along with these, we have other interfaces which can be discussed as below:

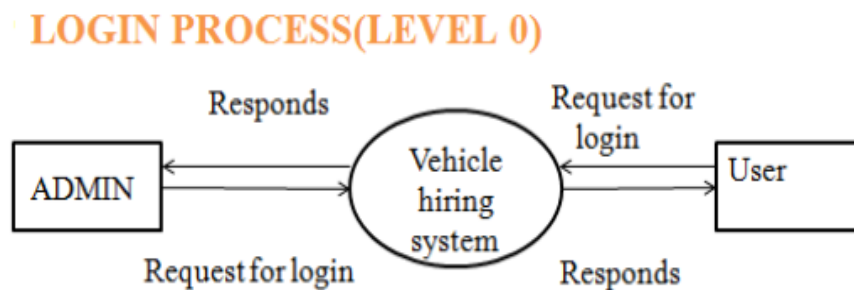
Bikes:

This is one of the most important modules. This module helps the customers to take any bike on rent from any bike seller. The status of bikes can be updated as soon as it gets free or it gets booked so that no other customer tries to book the same bike. The information that is added to a bike is its model no, vehicle no, and owner name.

Login:

After registration, one can log in to the system either as the event manager or the customer. The option to register either an employee or customer is given when the user is registering. The interface of this system depends upon the registration. If the user has registered as an employee, then it will have options like arranging all the things as asked by a customer for an event.

For the customer, the interface includes the option to check all the available event managers and can select anyone for this event.



Admin:

This module is present only for one account. That is, no one can register as an admin after one account is created. The admin account has all the privileges, to check about any particular bike seller or customer. To block any account, to calculate the salary of the

employees after deducting their leaves, to update the status about any event, to calculate the payment, to make changes into accounts of users, etc.

User:

As explained in the login section, the user can be of two types and both the users will have different interfaces and after the user has registered and login then the features provided can be used by the user. A user who has registered as the seller can update about the bikes that are free card can be given on rent.

If the user is a customer, then he can see all the available bikes that he can take on rent.

Adding cart:

This module is present so that customers can easily add the things to cart . It reduces the customer's headache. The customer can easily see what they add in the cart.

Adding and Deleting Other Staff Members:

The other module that is provided in this system is that the data of all the staff members working in any workshop can be saved on it. The benefit of storing their information is that when any person is on leave and when the salary is calculated then this system can automatically calculate the salary by deducting the amount according to the leaves taken.

The information that is added to the staff is a name, address, phone number, employee id, the job of the employee, and the salary of the employee.

2.2 System Design of Bike Rental System:

Now this prison management system is designed in such a way that it takes fewer resources to work properly.

It has its own sort of minimum requirements that we need to take care of:

- The system needs a minimum of 4 GB of ram to run all the features smoothly and suddenly.
- It needs a minimum of 1.3 GHz processor to run smoothly as less than that may create problems.

2.3 SOFTWARE REQUIREMENTS:

WEB DESIGN : **HTML , CSS**

FRAME WORK : **ANGULAR JS, BOOTSTRAP, FONTAWESOME**

DATABASE SERVER : **MONGO DB**

TOOL : **VS CODE IDE**

3. ENVIRONMENTAL IMPACTS OF ELECTRIC BIKE

Adoption While e-bikes have lower emission rates than gasoline bikes, their impact can only be realized with high adoption rates. Coupling e-bike scenarios developed in the market analysis section with environmental emission rates can show reductions in transportation related emissions, in terms of both local pollutants and greenhouse gases. The market scenarios developed in Tables 7 and 9 are extended below in Tables 13 and 14, coupled with the weighted emission rate of two-wheelers in the country by scenario. These tables present several scenarios of e-bike adoption, based on improved performance and economic incentive. Based on these scenarios, the impact of e-bikes can be estimated through an average two-wheeler emission rate that takes into account the proportions of the fleet comprising gasoline and electric two-wheelers. This weighted emission rate includes the appropriate e-bike class and weights the emissions by the proportion of the two-wheeler market that the e-bike captures. This assumes that as e-bikes replace gasoline two-wheelers, e-bike users use gasoline two-wheelers in the same way. For instance, a 33% shift toward e-bikes will result in a 33% replacement of vehicle kilo meters traveled.

There are two potentially counterbalancing forces that could produce biased results from this assumption:

- I. since the marginal cost of travel is lower, there could be more induced travel by e-bike owners; and
- II. e-bikes generally have a lower range than their gasoline counterparts, so e-bike owners might make shorter trips on average.

It should be noted that emission rate reductions are compared to the average emission rate of the gasoline two-wheeler, and do not suggest that ambient air quality will improve by this percentage in urban areas. It is uncertain what effect e-bikes will have on ambient air quality in populated areas for two reasons. Gasoline two-wheelers are responsible for much, but not all air pollution in urban areas. For instance, gasoline two-wheelers are responsible for about 80% of transport-related CO pollution in Ha Noi. By displacing 33% of gasoline two wheelers with e-bikes, total transport-related CO emissions could be reduced by 26%. On the other hand, gasoline two-wheelers are only responsible for 20% of transport-related PM emissions (dominated by heavy-duty diesel vehicles), so by displacing 33% of gasoline two-wheelers with e-bikes, transport-related PM emissions will be reduced by 6% (20% times 31%).²⁷ Gasoline two-wheelers emit pollution directly into the urban environment, impacting local ambient air quality directly. E-bikes emit pollution from sometimes remote power plants, impacting ambient air quality in different regions. This could result in significantly improved public health through reduced exposure efficiency of air pollution.²⁸ Although e-bikes do emit slightly more SO₂, there are very clear advantages of promoting e-bikes in Viet Nam and India. In fact, subsidizing e-bike adoption could be a more cost-effective method of reducing CO₂ emissions than many competing alternatives. Moreover, e-bike adoption will likely result in much greater local air pollution improvement. E-bikes have the potential both to improve local air quality and reduce greenhouse gas

emissions derived from the transport sector. In fact, they can be very cost effective at both. For instance, in Ha Noi, 12 billion passengerkilometers were traveled by motorbike in 2005, or about 8,000 km per year per motorbike.²⁹ This analysis shows that 33% of the future market could choose e-bikes with little government intervention, assuming that the best technology is developed and marketed by industry. Assuming that 33% of the 12 billion passenger-kilometers are taken by e-bikes in the future, the total emissions would be 552,000 metric tons of CO₂ yearly. E-bike market adoption could increase to 38% if e-bikes were exempt from registration tax (10%) and gasoline twowheelers were still subject to that tax, resulting in a 5-percentage-point increase in adoption. This market penetration would result in total two-wheeler CO₂ emissions of 535,200 tons, or a 16,800 ton reduction per year. If an ebike's lifespan is 6 years, on average, each ebike that replaces a gasoline bike would reduce CO₂ emissions by 1.3 tons.³⁰ This would cost about D1 million per e-bike, or about \$48/ ton. While this is more expensive than some alternatives, the co-benefits of improved air quality could justify public subsidy of this mode. The potential improvements are more modest in Ahmedabad for two reasons. The first is that e-bikes have a negative perception, even with price and performance advantages. This results in a low market adoption, impeding policy attempts to influence market demand. The second reason is that India's electricity generation emission rates are relatively high, reducing the net benefit of a shift from gasoline two-wheelers to e-bikes. With effective marketing campaigns, public perception could shift toward e-bikes; however, current consumers seem unresponsive to direct price incentives, like VAT reduction.

3. 1 Lead Pollution

Lead pollution is a significant concern when considering e-bike adoption. Lead acid batteries are still the dominant battery technology adopted by e-bike manufacturers in Asia, with over 95% of electric two-wheelers using them.³¹In addition, Asia has a relatively poor

record for battery production and recycling efficiency. In the PRC, lead pollution rates from e-bikes are about 420 milligrams per kilo meter (mg/km), compared to about 32 mg/km for a gasoline two-wheeler.³² All of these emissions occur during the mining and smelting, battery manufacture, and recycling phases.

Estimating lead pollution of e-bikes in India and Viet Nam is complicated since a large portion of lead batteries are imported from the PRC. Mao and Dong et al. estimate regional emission rates of lead from battery production and recycling.³³ For the most part, regional rates are discussed, but given India's size, the authors calculate India specific loss rates. India has one of the lowest lead-loss rates in Asia, 10.9% of lead output, while Asia's average is 19.6% of lead output. Battery life is related to both recharge cycles and weather. Battery life can deteriorate significantly in hot or cold temperatures.³⁴ Since e-bikes are new vehicles, it is difficult to estimate how many kilo meters one might travel before replacing a battery. Additionally, batteries for larger, faster e-bikes are significantly larger than batteries in most Chinese e-bikes. Table 15 shows battery size, weight, and lead emissions for different e-bike classes and mileage assumptions.

4. LAUNCH AN E-BIKE RENTAL BUSINESS

Recently, the global demand for e-bikes has accelerated thanks to a widespread push for healthier lifestyles, greener transit options, safer alternatives to public transportation and increased government financial incentives.

E-bike sales are soaring and so is interest in launching shared mobility systems featuring the two-wheelers. Therefore, we've made it easier than ever for entrepreneurs to launch systems that rent out e-bikes for days, weeks or months at a time through [Joyride](#) [Keep](#), our newest solution for long-term micro mobility rentals.

What you need to know about launching an e-bike rental business

The e-bike market in 2020 and beyond

Built to last: [Bike-sharing statistics](#) show that e-bike rental services and logistics software will help drive a 6.39% rise in the global e-bike market by 2024. The global e-bike market is expected to reach US\$38.6 billion by 2025.

According to UC Davis research, U.S. e-bike sales have experienced tremendous growth, both at the onset and since the pandemic began, with June 2020 reporting a [190% year-over-year sales increase](#). Plus, [ongoing research](#) suggests that people who ride an e-bike are more likely to consider using one as a primary commuting vehicle—and one way to expose more people to e-bikes is through sharing programs. Many city-owned docked bike shares in places like Portland, Toronto and Chattanooga are already transitioning to e-bikes with this mentality in mind.

Battery and motor manufacturer Bosch, which makes products for 70 e-bike brands, reported an [85% rise](#) in demand for e-bikes this past March.

In the UK, the region's [Bicycle Association's numbers](#) reveal that bike sales rose by 63% between April and June 2020, and sales increased by 150% among £1,000+ e-bikes.

Prior to the global pandemic, an e-bike boom was [already brewing in Germany](#). From 2017 to 2019, e-bike sales grew from 720,000 per year to 1.36 million. In the first few months of 2020, sales were already trending 30% higher.

According to an [industry report](#) by e-bike manufacturer Shimano Steps, 25% of Europeans now either own an e-bike or plan to buy one this year. New users reportedly ride longer distances in their everyday lives, many of them commuting to work. Corporate bike leasing company Deutsche Dienststrad says there are 1.6 million employees in Germany riding employer-provided e-bikes.

European governments are heavily subsidizing the costs of e-bike expenditures. For example, the governments of Austria and Luxembourg will provide €350, while France offers €200. In Norway and Sweden, subsidies of around €1,000 have led to a considerable e-bike boom in those regions.

Dutch e-bike maker VanMoof says the onset of the pandemic caused sales to see a [600% increase](#) in April 2020 compared to the prior year.

4. 1 Indian E-Bike Rental Market Growth,Trends, Covid-19 Impact, And Forecasts (2021 - 2026)

The Indian E-bike rental market covers the latest trends and technological development and provides analysis on various areas of the market demand based on Vehicle Type, (E-Bike and E-Bike), on the Application Type (City/Urban and Cargo), and Market share of major Indian E-bikes rental companies will be provided in the scope of the report. The report offers the market size for the India E-Bike market in value (in USD million) for all the above-mentioned segments.

Market Analysis

Choice Experiment Survey Design

The choice experiment was designed to measure the effects of performance, cost, and policy variable attributes on the Vietnamese and Indian rider's decision to purchase an e-bike over a

gasoline motorcycle or bike. In each decision question, buyers of two-wheeled motorized vehicles in Ha Noi and Ahmedabad were presented with three hypothetical vehicles. In Ha Noi, the choice set included a standard gasoline motorcycle, a large gasoline motorcycle, and an e-bike. In Ahmedabad, the choice set included a standard gasoline motorcycle, a standard gasoline bike, and an e-bike. A standard gasoline bike was included in Ahmedabad because of their relative popularity in India, whereas Ha Noi had very few bikes in the two-wheeler market. The three hypothetical vehicles varied in terms their attributes, and respondents were instructed to indicate the vehicle they would most prefer to purchase, based solely on the attributes provided for each alternative.

Attributes and Levels

The number of attributes that can be tested in a choice experiment is limited by the ability of respondents to choose between complex alternatives. To minimize the cognitive burden on subjects in Ha Noi, alternatives varied along a limit of nine attributes. This meant that not all important choice attributes could be included in the experiment. In an attempt to control for the omission of relevant variables, subjects were instructed to assume that all unlisted attributes were the same for all of the hypothetical vehicles. In Ahmedabad, alternatives varied among 11 attributes, adding two attributes deemed important to India's population, but perhaps less important in Viet Nam's case. The attributes included in the choice experiment were those deemed most critical based on the results of previous stated-preference studies for alternative vehicles and based on interviews with Vietnamese and Indian riders.¹⁰ The entire set of experimental attributes includes the following points:

- (i) Purchase price: price of vehicle not including registration tax, sales tax, or value added tax (VAT);
- (ii) Refuel or recharge range: the number of kilometers that can be traveled on a full tank of gas or a full charge before needing to refuel or recharge;

- (iii) Refuel or recharge time: the amount of time in minutes required to fill an empty gas tank or to recharge a battery from zero charge to full charge;
- (iv) Fuel or electricity cost: operating cost stated in terms of Vietnamese dong per 100 kilometers (D/100 km) in Ha Noi and rupees per kilometer (Rs/km) in Ahmedabad;
- (v) Maintenance cost: routine costs of maintenance such as battery replacement, measured as dong per month (D/month) in Ha Noi and Rs per 15,000 km in Ahmedabad;
- (vi) Acceleration: measured relative to the standard motorcycle as a percentage, where the acceleration of the standard motorcycle is 0–40 km in 10 seconds in Ha Noi (In Ahmedabad, it is expressed as time to reach 30 km/h);
- (vii) Top speed: fastest achievable speed in kilometers per hour;
- (viii) License requirement: whether a license is required to operate the vehicle;
- (ix) Sales and registration tax: combined sales and registration tax (independent of purchase price) expressed in millions of dong and owed upon purchase (In Ahmedabad, it is the VAT, expressed in Rs.);
- (x) Transmission: manual or automatic transmission (not included in Ha Noi because most motorcycles have manual transmissions);
- (xi) Carrying capacity, expressed in number of adults, which was explicitly included in the choice experiment in Ahmedabad since two-wheelers were considered important based on conversations with local experts.

Accurate values for the vehicle attribute levels were determined with the aid of transport engineers specializing in the study of motorcycles and e-bikes. The vehicle attribute levels were selected to reflect technology both current and in the foreseeable future. In particular, the ranges for the e-bike attributes were constructed to contain values for the “average” e-bike today, but also to contain plausible values for cutting-edge e-bikes that may emerge in

the next few years; this allows for a better analysis of how technological developments may influence e-bike demand

Market Overview

The India E-Bike Rental market is valued at USD 5 million in 2020 and is expected to hit USD 10 million by 2026 and is anticipated to register a CAGR of over 10% during the forecast period (2021 - 2026).

The outbreak of COVID-19 and the subsequent lockdowns have affected bike rentals in several countries. The impacts of the pandemic are visible in the decline in fewer bike rentals. Hence, the reduction in revenue due to the pandemic-induced disruptions hindered the growth of the market in 2020. However, it is expected to improve the market post-pandemic as most people are focussing to avoid public transportation and maintain social distance from others.

Due to the growing need to reduce emissions across the world, most countries are replacing existing fuel-based transportation with electric mobility. India, still in the very early stages of adopting EV's can be a huge market for E-bike rental companies. As most people are now aware of traffic congestion and pollution, India is looking towards a cleaner mode of transportation to tackle the situation.

The government initiatives like reduction of taxes on EV's and establishment of charging infrastructure attracting the investments in electric mobility and services based on it.

India's emerging E-Bikes rental startups like VOGO and Yulu are now heavily investing in R&D and charging infrastructure in order to cater bike rental services to more number of Indian Cities. They provide services estimated to be in over 150 Indian cities and towns and projected to reach 450 cities and towns by the end of 2020..

4.2 Scope of the Report

The Indian E-bike rental market covers the latest trends and technological development and provides analysis on various areas of the market demand by Vehicle Type, Application Type and Market share of major Indian E-bikes rental companies will be provided in the scope of the report. The report offers the market size for the India E-Bike market in value (in USD million) for all the above-mentioned segments.

Key Market Trends

Technological Advancements Driving Growth for E-Bikes

E-Bikes are environmentally friendly, running majorly on Li-ion chargeable battery. It can offer a maximum range of 99.4 miles (160 km) in one single charge. With options of battery typing 8, 12, or 18-amp hour batteries, it also provides a choice for the customer as per their utility.

The COVID-19 pandemic forced the people to have their own e-bikes for commuting instead of using crowded public transport. The sales of e-bikes boomed in 2020, with manufacturers struggling to keep up with the demand. Bike rental company **Bounce added about 4,000 more electric two-wheelers in 2021 as it looks to transition to a 100% electric vehicle (EV) fleet by the third quarter of next year.**

Traffic congestion in Indian cities is increasing day by day. With the increasing number of vehicles, the existing infrastructure is unable to meet needs in every town and lanes. Traffic congestion inhibits the productivity of people with a lot of time lost waiting. As a result government, today is promoting the sales for E-Bikes as they occupy lesser space resulting in more minor traffic jams and also reduced carbon footprint on the environment.

Indian E-Bike Rental Market: Revenue Share (%) by Vehicle Type, 2020



Source: Mordor Intelligence



India will become the top market for E-bike rental businesses

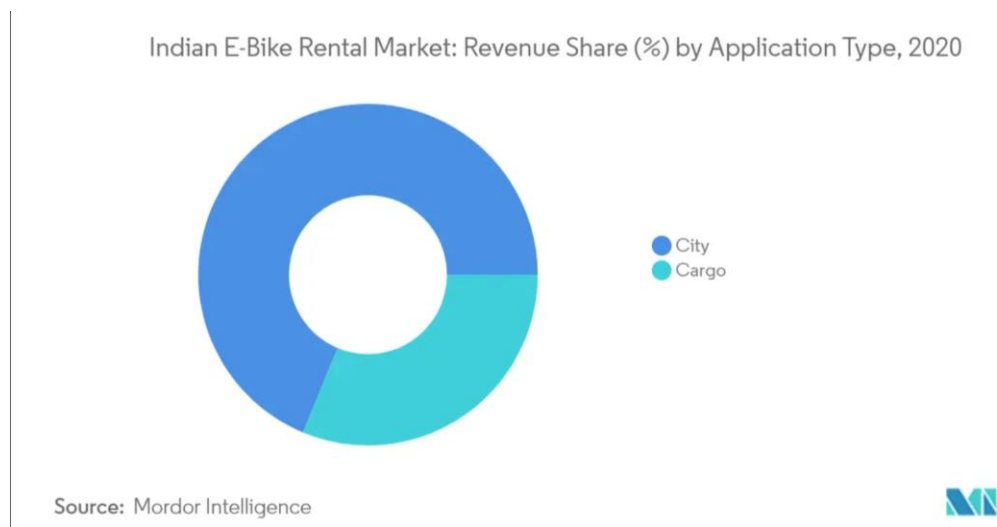
Companies like Bajaj Auto, known for bringing successful bike models like Chetak, are partnering with E-bike startups. With a growing demand for micro-mobility and share-mobility spaces, many of the established 2-wheeler automakers such as Bajaj are working along with fresh start up's such as 'Yulu,' offering its operational learning with decades-long of experience in the Indian 2-wheelers market.

The Government of India is also encouraging to use E-Bikes. By the end of 2035, the government wants to convert all fuel-run vehicles into electric vehicles. E-Bikes can ride as fast as 25 kmph (15.5 mph), and cover 60 km (37.2 miles) in one charging cycle. Many startups are working on battery manufacturing and also expanding spaces for parking and charging stations.

Although in India, setting up parking stations and charging stations for rental purposes remains a challenge given the densely populated cities and town. However, adequate freshly charged batteries can be swapped relatively quickly with minimal money invested into other

barriers such as transportation and extraction costs, which remain fluctuating and are no longer economical for a country like India.

The Indian government has also granted an exemption of registration fees for battery-operated/electric vehicles and even an exemption to permits to E-Vehicles running on ethanol and methanol fuels. It has also allowed obtaining driving licenses to drive e-bikes for the age group of 16-18 years. All these indicate a bright future of the E-Bikes vehicles in the country.



Competitive Landscape

The Indian E-Bike Rental Market is hugely fragmented with various startups and regional players such as Vogo, Hulu, Bounce, Ather Energy, Giant Bicycles. Although to have the edge over its competitors, the major car manufacturers are making joint ventures, partnerships to launch newer products. For instance,

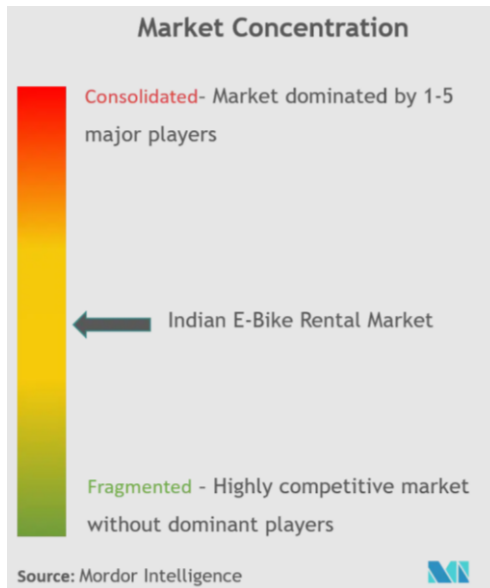
Bangalore-based electric bike-sharing platform 'Yulu' has partnered with Uber and Bajaj Auto. Since its launch, it has raised about USD 16.5 million and operates across Bangalore, New Delhi, and Mumbai. Currently, with over 3,000 electric bikes on its platform, the company plans to bring 100,000 electric two-wheelers to its fleet by the end of 2020.

Bike taxi platform Rapido has joined hands with Zypp Electric to provide EV bike taxi ride service -Rapido EV- to its customers.

Bike rental startup VOGO plans to introduce an electric vehicle (EV) fleet to provide sustainable mobility solutions to commuters.

Major Players

1. Vogo
2. Yulu
3. Bounce
4. Giant bikes
5. Zypp



4. 3 Recent Developments

- On January 31, 2020, Mumbai Metropolitan Region Development Authority signed an (MoU) Memorandum of Understanding with Yulu Bikes Pvt. Ltd. to provide e-bike services to the commuters/visitors to BKC.

- Pune Becomes India's First City To Provide Electric Bikes On Rentals. The Pune Municipal Corporation has cleared the execution of an electric-vehicles-for-rent project. The board has also sanctioned the availability of electric charging stations across the city.
- Yulu partners with Bajaj to source electric two-wheelers which have been co-designed and manufactured exclusively for shared micro-mobility with an investment of USD 8 million.
- The bike rental start-up Bounce raised USD 105 million in the new funding round as it explores sustainable ways to expand within the nation and build its own electric vehicles.

5.CONCLUSIONS

E -bike adoption is dependent on a number of variables, including purchase price, operating costs, maintenance cost (battery purchase), performance, and regulation. In both Ahmedabad, India, and Ha Noi, Viet Nam, individuals valued various attributes differently, illustrating the need for location specific policies. For instance, removing license requirements is “worth” about D1 million on average in Ha Noi, whereas they are not important in Ahmedabad. One of the common themes among survey respondents and other transport experts in both cities is that e-bikes suffer a perception problem. Individuals seem skeptical of their reliability or perceive them to be low-power, low-performance vehicles whose quality is not proven. In fact, a poor reputation for quality is likely a significant factor. If given accurate information related to e-bike performance and price, individuals have some likelihood of choosing them over gasoline two wheelers. However, many individuals do not have adequate knowledge to make this decision in the marketplace. It is incumbent upon industry and the government to increase public awareness to adequately market the performance and price

characteristics of e-bikes, in an environment where gasoline two-wheelers are ubiquitous and their performance well known. The air quality improvement and CO₂ reductions will be significant if e-bikes can replace gasoline two-wheelers. Each e-bike that replaces a gasoline two-wheeler reduces CO₂ emissions by 1.3 tons per vehicle over its lifespan in Ha Noi. Moreover, almost all local air pollutants are reduced, with the likely exception of SO₂. In Ahmedabad, the direction of the impact is the same on all pollutants, but more modest since the power generation sector is more emission intensive and the likelihood of wide-scale adoption seems lower, based on the surveys. Lead pollution is a serious concern that needs to be avoided through adoption of cleaner lithium-ion and/or nickel-metal hydride battery technologies or vastly improved recovery and recycling processes. Some of the more advanced lead production, battery manufacture, and recycling processes have quite low loss rates, in the order of 5% of the final lead mass of the battery. Moreover, steps can be taken to assure containment of emissions to improve environmental and occupational health. Both India and Viet Nam have begun adoption of an environmental certification program, Better Environmental Sustainability Targets, which focuses on reducing negative impacts associated with lead battery manufacture.

Instruments to Improve Electric Bike Adoption

There are many ways to support e-bike adoption, including removing fuel subsidies for gasoline two-wheelers and subsidizing clean battery technology, preferential taxation and registration fees. While operating costs (electricity) are very low, the up-front cost of batteries is prohibitive for many consumers, even though the average cost over time could be significantly lower than that of a gasoline two-wheeler. Alternative financing models could potentially overcome this problem, like leasing or financing batteries, but these models are unproven in this context. Without marketing to inform the public and address negative

perceptions of e-bikes, or shifts in the economics of vehicle choice (like major gasoline price shifts), e-bikes will only constitute a small portion of vehicles on the street. As technology advances and prices drop, coupled with improved performance, e-bikes can begin to become more widely used. Until then, government intervention to improve the economic advantage of e-bikes relative to gasoline two-wheelers could be a cost-effective pollution mitigation strategy.

- In the bike system, the outcome of all the hard work done for a bike on the rent management system is here. It is software which helps the user to sell bikes on rent etc.
- This software reduces the amount of manual data entry and gives greater efficiency. The User Interface of it is very friendly and can be easily used by anyone.
- It also decreases the amount of time taken to write details and other modules. In the end, we can say that this software is performing all the tasks accurately and is doing the work for which it is made.

A . SOURCE CODE

ADDTOCART

HTML

```
<app-navbar></app-navbar>
<div class="main">
<div class="container signin-container">
  <div class="row">
    <div class="col"></div>
    <div class="col-sm-12 col-md-8">
      <div class="card signin-card">
        <div class="card-body">
          <br>
          
          <hr>
          <form #ff="ngForm" (submit)="additem(ff);" id="signin-form"
*ngIf="userdata">
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="text" name="fname" ngModel #fn="ngModel"
class="form-control" [ngModel]="userdata.fname" id="fnameinput" placeholder="Enter
First Name" required>
            </div>
            <div class="form-group" >
              <label for="formGroupExampleInput"></label>
              <label for="cars">Choose the Bike Model You Need</label>
              <br>
              <select name="BikeModel" ngModel #bm="ngModel"
class="form-control" id="Bike" required>
                <option value="Ola S1">Ola S1</option>
                <option value="TVS iQube Electric">TVS iQube
Electric</option>
                <option value="Revole RV400">Revole RV400</option>
                <option value="Ather 450X">Ather 450X</option>
                <option value="Simple Energy One">Simple Energy
One</option>
                <option value="Bajaj Chetak">Bajaj Chetak</option>
                <option value="Hero Electric Optima">Hero Electric
Optima</option>
                <option value="Ampere Magnus">Ampere Magnus</option>
```

```

        <option value="Hero Electric Atria">Hero Electric
Atria</option>

        <option value="Hero Electric Photon">Hero Electric
Photon</option>

        <option value="Hero Electric Flash">Hero Electric
Flash</option>

        <option value="Pure EV Epluto">Pure EV Epluto</option>
        <option value="Komaki XGT KM">Komaki XGT KM</option>
        <option value="Hero Electric NYX">Hero Electric
NYX</option>

        <option value="Pure EV Epluto 7G">Pure EV Epluto
7G</option>

        <option value="Revolt RV300">Revolt RV300</option>
        <option value="Benling India Aura">Benling India
Aura</option>

        <option value="Odysse Electric Evoqis">Odysse Electric
Evoqis</option>

    </select>
</div>
<div class="form-group">
    <label for="formGroupExampleInput"></label>
    From

    <input type="datetime-local" name="sname" ngModel #sn="ngModel"
class="form-control" id="snameinput" placeholder="Enter from date" required>
    </div>
    <div class="form-group">
        <label for="formGroupExampleInput"></label>
        To

        <input type="datetime-local" name="ename" ngModel #en="ngModel"
class="form-control" id="emailinput" placeholder="enter to date" required>
        </div>
        <p class="alert alert-danger" *ngIf="en.errors?.email &&
en.touched">Complete the required field</p>
        <div class="form-group">
            <label for="formGroupExampleInput2"></label>

            <input type="number" name="epass" ngModel #ps="ngModel"
class="form-control" id="password" placeholder="Enter Phone Number" required>
            </div>
            <br>
            <p class="alert alert-danger" *ngIf="ps.errors?.required &&
ps.touched">Complete the required field</p>

```

```

                <button type="submit" class="btn signin-btn btn-dark"
[disabled]="ff.invalid ">Book My Ride</button>
            </form>
        </div>
    </div>
</div>
<div class="col"></div>
</div>
</div>
</div>
</div>

```

CSS

```

.main {
  display: flex;
}

.body {
  background-color: darkolivegreen;
  text-align: center;
}

.card-body {
  border: 20px double black;
  border-radius: 5px;
  background-color: bisque;
}

.container.signin-container {
  margin: auto;
  padding: 20px;
}

.card .signin-card {
  padding: 40px 0px 20px;
  box-shadow: 2px 2px 5px rgba(0, 0, 0, .5);
}

```

```
}

.loginletter {
  text-align: left;
  font-family: 'Times New Roman', Times, serif;
  width: 200px;
}

.login {
  font-family: 'Times New Roman', Times, serif;
  text-align: center;
  border: solid 5px;
}

.img-fluid.signin-image {
  padding: 0 2rem 2rem;
  margin: auto;
  display: block;
  width: 50%;
}

.signin-form {
  max-width: 350px;
  margin: auto;
}

button.signin-btn {
  color: #ffffff;
  background-color: green;
  width: 100%;
  margin-top: 10px;
  margin-bottom: 1.2rem;
}

label.form-check-label {
  float: left;
}

a {
  text-decoration: none;
}
```

```
a.acnt {
  font-size: 1.2rem;
  text-align: center;
  display: block;
  margin-top: 20px;
}
```

ADDUSER

HTML

```
<app-navbar></app-navbar>
<div class="container signin-container">
  <div class="row">
    <div class="col"></div>
    <div class="col-sm-12 col-md-8">
      <div class="card signin-card">
        <div class="card-body">
          {{msg}}
          
          <form #ff="ngForm" (submit)="adduser(ff);" id="signin-form">
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="text" name="fname" ngModel #fn="ngModel"
class="form-control" id="fnameinput" (blur)="usernamecheck(fn.value);"
placeholder="Enter First Name" required>
            </div>
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="text" name="sname" ngModel #sn="ngModel"
class="form-control" id="snameinput" placeholder="Enter Second Name" required>
            </div>
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="email" name="ename" ngModel #en="ngModel" class="form-control"
id="emailinput" (blur)="emailcheck(en.value);" placeholder="Enter Email" required
email>
            </div>
            <p class="alert alert-danger" *ngIf="en.errors?.email &&
en.touched">Complete the required field</p>
```

```

        <div class="form-group">
            <label for="formGroupExampleInput2"></label>
            <input type="password" name="epass" ngModel #ps="ngModel"
class="form-control" id="password" placeholder="Enter Password" required>
        </div>
        <p class="alert alert-danger" *ngIf="ps.errors?.required &&
ps.touched">Complete the required field</p>
        <button type="submit" class="btn signin-btn btn-lg"
[disabled]="ff.invalid || !una || !enc ">Add User</button>
    </form>
</div>
</div>
</div>
<div class="col"></div>
</div>
</div>

```

CSS

```

body.signin-body {
  background-color: #e6f2ff;
  text-align: center;
}

.container.signin-container {
  margin-top: 8%;
}

.card.signin-card {
  padding: 40px 0px 20px;
  background-color: darkgray;
  box-shadow: 2px 2px 5px rgba(0, 0, 0, .5);
  border: grey solid 20px
}

.img-fluid.signin-image {
  padding: 0 2rem 2rem;
  margin: auto;
  display: block;
  width: 50%;
}

```

```

.signin-form {
  max-width: 350px;
  margin: auto;
}

button.signin-btn {
  color: #ffffff;
  background-color: green;
  width: 100%;
  margin-top: 10px;
  margin-bottom: 1.2rem;
}

label.form-check-label {
  float: left;
}

a {
  text-decoration: none;
}

a.acnt {
  font-size: 1.2rem;
  text-align: center;
  display: block;
  margin-top: 20px;
}

```

CART

HTML

```

<app-navbar></app-navbar>
<div class="search">
  <!--Search : <input type="text" #search (keyup)="dosearch(search.value)">&nbsp;-->
</div>
<div class="adduser">
  <!--<button><a routerLink="/adduser">Add User</a></button>-->
</div>
<div class="table">

```

```

<table>
  <tr>
    <th>Serial No</th>
    <th>First Name</th>
    <th>Bike Model</th>
    <th>From</th>
    <th>To</th>
  </tr>
  <tr *ngFor = "let use of user;index as i;">
    <td>{{i+1}}</td>
    <td>{{use.fname}}</td>
    <td>{{use.BikeModel}}</td>
    <td>{{use.sname}}</td>
    <td>{{use.ename}}</td>
    <!--<td><button><a routerLink="/edituser/{{use._id}}">Edit</a></button></td>-->
    <!-- <td><button (click)="deleteuser(use._id)">Delete</button></td>-->
  </tr>
</table>
</div>
<p *ngIf="user.length == 0">No Records Found</p>
{{msg}}

```

CSS

```

table,
th,
td {
  border: 5px solid black;
  text-decoration: none;
  text-align: center;
  margin: auto;
  padding: 20px;
  margin-top: 20px;
}

.table {
  display: inline;
  padding: 20px;
}

```

```
.search {
  float: right;
  padding: 20px;
}

.adduser a {
  text-decoration: none;
  color: black;
}

.adduser {
  padding: 2px;
  margin: 5px;
}

button {
  background-color: #4CAF50;
  /* Green */
  border: none;
  color: white;
  padding: 15px 32px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  animation-name: example6;
  animation-duration: 2s;
}

button a {
  text-decoration: none;
  color: white;
}

@keyframes example6 {
  0% {
    left: 0px;
    bottom: 0px;
  }
}
```

```

25% {
  background-color: yellow;
  left: 200px;
  bottom: 200px;
  opacity: .5;
}

50% {
  background-color: blue;
  left: 0px;
  bottom: 0px;
}

75% {
  background-color: green;
  left: 0px;
  bottom: 0px;
}

100% {
  background-color: red;
  left: 0px;
  bottom: 0px;
}
}

```

CAROUSEL

HTML

```

<app-navbar></app-navbar>
<div id="carouselExampleCaptions" class="carousel slide" data-bs-ride="carousel">
  <div class="carousel-indicators">
    <button type="button" data-bs-target="#carouselExampleCaptions"
data-bs-slide-to="0" class="active" aria-current="true" aria-label="Slide 1"></button>
    <button type="button" data-bs-target="#carouselExampleCaptions"
data-bs-slide-to="1" aria-label="Slide 2"></button>
    <button type="button" data-bs-target="#carouselExampleCaptions"
data-bs-slide-to="2" aria-label="Slide 3"></button>
  </div>

```

```

<div class="carousel-inner">
  <div class="carousel-item active">
    
    <div class="carousel-caption d-none d-md-block">
      <h2 style="font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS',
sans-serif;font-size: x-large;">Eco Friendly</h2>
      <p>Lets you enjoy the peace within you</p>
    </div>
  </div>
  <div class="carousel-item">
    
    <div class="carousel-caption d-none d-md-block">
      <h2 style="font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS',
sans-serif;font-size: x-large;color: black;">The Newest in the market</h2>
      <p style="color: black;">Light weight and easy to handle</p>
    </div>
  </div>
  <div class="carousel-item">
    
    <div class="carousel-caption d-none d-md-block">
      <h2 style="font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS',
sans-serif;font-size: x-large;">LiveWire</h2>
      <p>Bike with a pulse</p>
    </div>
  </div>
</div>
<button class="carousel-control-prev" type="button"
data-bs-target="#carouselExampleCaptions" data-bs-slide="prev">
  <span class="carousel-control-prev-icon" aria-hidden="true"></span>
  <span class="visually-hidden">Previous</span>
</button>
<button class="carousel-control-next" type="button"
data-bs-target="#carouselExampleCaptions" data-bs-slide="next">
  <span class="carousel-control-next-icon" aria-hidden="true"></span>
  <span class="visually-hidden">Next</span>
</button>
</div>
<app-section></app-section>

```

EDITUSER

HTML

```
<app-navbar></app-navbar>
<div class="container signin-container">
  <div class="row">
    <div class="col"></div>
    <div class="col-sm-12 col-md-8">
      <div class="card signin-card">
        <div class="card-body">
          {{msg}}
          
          <form #ff="ngForm" (submit)="edituser(ff);" *ngIf="userdata"
id="signin-form">
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="text" name="fname" ngModel #fn="ngModel"
[ngModel]="userdata.fname" class="form-control" id="fnameinput" placeholder="Enter
First Name" required>
            </div>
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="text" name="sname" ngModel #sn="ngModel"
[ngModel]="userdata.sname" class="form-control" id="snameinput" placeholder="Enter
Second Name" required>
            </div>
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="email" name="ename" ngModel #en="ngModel"
[ngModel]="userdata.ename" class="form-control" id="emailinput" placeholder="Enter
Email" required email>
            </div>
            <p class="alert alert-danger" *ngIf="en.errors?.email &&
en.touched">Complete the required field</p>
            <div class="form-group">
              <label for="formGroupExampleInput2"></label>
              <input type="password" name="epass" ngModel #ps="ngModel"
[ngModel]="userdata.epass" class="form-control" id="password" placeholder="Enter
Password" required>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

```

        <p class="alert alert-danger" *ngIf="ps.errors?.required &&
ps.touched">Complete the required field</p>
        <button type="submit" class="btn signin-btn btn-lg"
[disabled]="ff.invalid">Update</button>
    </form>
</div>
</div>
</div>
<div class="col"></div>
</div>
</div>

```

CSS

```

body.signin-body {
  background-color: #e6f2ff;
  text-align: center;
}

.container.signin-container {
  margin-top: 8%;
}

.card.signin-card {
  padding: 40px 0px 20px;
  background-color: goldenrod;
  box-shadow: 2px 2px 5px rgba(0, 0, 0, .5);
}

.img-fluid.signin-image {
  padding: 0 2rem 2rem;
  margin: auto;
  display: block;
  width: 50%;
}

.signin-form {
  max-width: 350px;
  margin: auto;
}

```

```

button.signin-btn {
  color: #ffffff;
  background-color: green;
  width: 100%;
  margin-top: 10px;
  margin-bottom: 1.2rem;
}

label.form-check-label {
  float: left;
}

a {
  text-decoration: none;
}

a.acnt {
  font-size: 1.2rem;
  text-align: center;
  display: block;
  margin-top: 20px;
}

```

FEATURES

HTML

```

<app-navbar></app-navbar>
<div class="livv">
  <div class="l2">

</div>
<div class="l4">
  
  </div>
  <div class="l6">
    
    </div>
  <div class="l8">

```

```
        
      </div>
</div>
<div class="boxs"></div>
```

CSS

```
.live {
  width: 50%;
}

.livv {
  animation-name: example;
  animation-duration: 10s;
}

div {
  display: inline;
}

@keyframes example {
  0% {
    left: 0px;
    top: 0px;
  }

  25% {
    left: 200px;
    top: 200px;
    opacity: .5;
  }

  50% {
    left: 0px;
    top: 0px;
  }
}
```

```
75% {  
  
    left: 0px;  
    top: 0px;  
}  
  
100% {  
  
    left: 0px;  
    top: 0px;  
}  
}  
  
@keyframes example4 {  
    0% {  
        right: 0px;  
        top: 0px;  
    }  
  
    25% {  
  
        top: 200px;  
        right: 200px;  
        opacity: .5;  
  
    }  
  
    50% {  
  
        right: 0px;  
        top: 0px;  
    }  
  
    75% {  
  
        right: 0px;  
        top: 0px;  
    }  
  
    100% {  
  
        right: 0px;
```

```
    top: 0px;
  }
}

@keyframes example6 {
  0% {
    left: 0px;
    bottom: 0px;
  }

  25% {

    left: 200px;
    bottom: 200px;
    opacity: .5;
  }

  50% {

    left: 0px;
    bottom: 0px;
  }

  75% {

    left: 0px;
    bottom: 0px;
  }

  100% {

    left: 0px;
    bottom: 0px;
  }
}

@keyframes example8 {
  0% {
    right: 0px;
    bottom: 0px;
  }
}
```

```
25% {  
  
    right: 200px;  
    bottom: 200px;  
    opacity: .5;  
}  
  
50% {  
  
    right: 0px;  
    bottom: 0px;  
}  
  
75% {  
  
    right: 0px;  
    bottom: 0px;  
}  
  
100% {  
  
    right: 0px;  
    bottom: 0px;  
}  
}  
  
.livv,  
.12,  
.14,  
.16,  
.18 {  
    display: inline;  
}  
  
div .12 {  
    position: relative;  
    animation-name: example;  
    animation-duration: 4s;  
}  
  
div .12 img {}
```

```

div .l4 {
  position: relative;
  animation-name: example4;
  animation-duration: 3s;
}

div .l6 {
  position: relative;
  animation-name: example6;
  animation-duration: 2s;
}

div .l8 {
  position: relative;
  animation-name: example8;
  animation-duration: 7s;
}

img {
  border: white solid 5px;
}

```

FOOTER

HTML

```

<!-- Footer -->
<footer class="page-footer font-small cyan darken-3">

  <!-- Footer Elements -->
  <div class="container">
    <!-- Grid row-->
    <div class="row">
      <!-- Grid column -->
      <div class="col-md-12 py-5">
        <div class="mb-5 flex-center items">
          <!-- Facebook -->
          <a class="fb-ic">
            <i class="fab fa-facebook-f fa-lg white-text mr-md-5 mr-3 fa-2x"> </i>
          </a>
          <!-- Twitter -->

```

```

        <a class="tw-ic">
            <i class="fab fa-twitter fa-lg white-text mr-md-5 mr-3 fa-2x"> </i>
        </a>
        <!-- Google +-->
        <a class="gplus-ic">
            <i class="fab fa-google-plus-g fa-lg white-text mr-md-5 mr-3 fa-2x"> </i>
        </a>
        <!--Linkedin -->
        <a class="li-ic">
            <i class="fab fa-linkedin-in fa-lg white-text mr-md-5 mr-3 fa-2x"> </i>
        </a>
        <!--Instagram-->
        <a class="ins-ic">
            <i class="fab fa-instagram fa-lg white-text mr-md-5 mr-3 fa-2x"> </i>
        </a>
        <!--Pinterest-->
        <a class="pin-ic">
            <i class="fab fa-pinterest fa-lg white-text fa-2x"> </i>
        </a>
    </div>
</div>
<!-- Grid column -->
</div>
<!-- Grid row-->
</div>
<!-- Footer Elements -->
<!-- Copyright -->
<div class="footer-copyright text-center py-3">© 2020 Copyright:
    <a href="https://mdbootstrap.com/"> MDBootstrap.com</a>
</div>
<!-- Copyright -->
</footer>
<!-- Footer -->

```

CSS

```

a {
    padding: 20px;
    text-align: center;
}

```

```

}

.items {
  text-align: center;
}

.page-footer {
  border: darkcyan 20px solid;
}

```

LOGIN

HTML

```

<app-navbar></app-navbar>
<div class="body">
<div class="container signin-container">
  <div class="row">
    <div class="col"></div>
    <div class="col-sm-12 col-md-8">
      {{msg}}
      <div class="card signin-card">
        <div class="card-body">
          <img class="loginletter" src = "assets/loginletter.png"><h2
class="login">Login</h2>
          
          <form #f="ngForm" (submit)="login(f);" id="signin-form">
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="email" name="ename" ngModel #en="ngModel" class="form-control"
id="emailinput" placeholder="Enter Email" required email>
            </div>
            <p class="alert alert-danger" *ngIf="en.errors?.email &&
en.touched">Complete the required field</p>
            <div class="form-group">
              <label for="formGroupExampleInput2"></label>
              <input type="password" name="epass" ngModel #ps="ngModel"
class="form-control" id="password" placeholder="Enter Password" required>
            </div>
            <p class="alert alert-danger" *ngIf="ps.errors?.required &&
ps.touched">Complete the required field</p>

```

```

        <button type="submit" class="btn signin-btn btn-lg" >Sign
In</button>

        <div class="form-check">
            <input class="form-check-input" type="checkbox"
id="gridCheck1">
            <label class="form-check-label" for="gridCheck1">
                Remember Me <a href="">Need Help?</a>
            </label>
        </div>
    </form>
</div>

<div class="col"></div>
</div>
</div>

```

CSS

```

.body {
    background-color: darkolivegreen;
    text-align: center;
}

.card-body {
    border: 20px double black;
    border-radius: 5px;
    background-color: bisque;
}

.container.signin-container {
    margin: auto;
    padding: 20px;
}

.card .signin-card {
    padding: 40px 0px 20px;
}

```

```
    box-shadow: 2px 2px 5px rgba(0, 0, 0, .5);
}

.loginletter {
    text-align: left;
    font-family: 'Times New Roman', Times, serif;
    width: 200px;
}

.login {
    font-family: 'Times New Roman', Times, serif;
    text-align: center;
    border: solid 5px;
}

.img-fluid.signin-image {
    padding: 0 2rem 2rem;
    margin: auto;
    display: block;
    width: 50%;
}

.signin-form {
    max-width: 350px;
    margin: auto;
}

button.signin-btn {
    color: #ffffff;
    background-color: green;
    width: 100%;
    margin-top: 10px;
    margin-bottom: 1.2rem;
}

label.form-check-label {
    float: left;
}

a {
    text-decoration: none;
}
```

```
a.acnt {
  font-size: 1.2rem;
  text-align: center;
  display: block;
  margin-top: 20px;
}
```

NAVBAR

HTML

```
<nav class="navbar navbar-expand-lg navbar-light "
style="background-color:transparent">
  <div class="container-fluid">
    <span class="span"></span>&nbsp;<a
class="navbar-brand" href="#">Ebike Rentals</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false"
aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" aria-current="page" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" routerLink="/products">Products</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" routerLink="/pricing">Pricing</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" routerLink="/features">Features</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" routerLink="/users">All Users</a>
        </li>
        <li class="nav-item"
          *ngIf = "!users.isloggedin()">
```

```

        <a class="nav-link" routerLink="/login">Login</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" routerLink="/news">News</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" routerLink="/cartitems">Cart</a>
      </li>
      <li class="nav-item"
        *ngIf = "!users.isloggedin()">
        <a class="nav-link" routerLink="/register">Signup</a>
      </li>
      <li class="nav-item"
        *ngIf = "users.isloggedin()">
        <a (click)="logout();" class="nav-link" href="">Log Out</a>
      </li>
    </ul>
  </div>
</div>
</nav>

```

CSS

```

.navbar {
  font-family: Verdana, Geneva, Tahoma, sans-serif;
  font-weight: bolder;
  color: white;
  background-color: transparent;
  background-image: url("src/assets/ebl.png");
  background-repeat: no-repeat;
  background-size: cover;
  position: sticky;
  top: 0px;
}

a.nav-link {
  color: black;
}

```

```

.span img {
  width: 50px;
  border-radius: 20%;
}

.navbar-brand {
  color: aliceblue;
}

.navbar-nav .nav-item a {
  color: white;
}

.navbar-toggler-icon {
  border: 2px solid white;
}

```

NEWSAPI

HTML

```

<app-navbar></app-navbar>
<div class="class">
<div *ngFor="let news of result">
  <div class="card">
    
    <div class="card-body">
      <h5 class="card-title">{{news.title}}</h5>
      <p class="card-text">{{news.description}}</p>
      <a href="{{news.url}}" target="_blank" class="btn btn-primary">Read More</a>
    </div>
  </div>
</div>
</div>
<hr>
</div>

```

CSS

```

.card {
  display: inline-block;
  width: 80%;
}

```

```

}

.class {
  text-align: center;
}

```

PRODUCTS

HTML

```

<app-navbar></app-navbar>
<div class="sectiondark">
  <div class="row">
    <div class="col-sm-12 col-md-1 offset-md-2">
    </div>
    <div class="col-sm-12 col-md-6">
      <div class="row parah">
        <div class="col-sm-12 parah">
          <h4>Types Of Motors</h4>
          <p>The energy stored in the battery is translated into motion using an
electric motor. There are two major types of electric motors: Hub and Frame-mounted.
The brushless DC hub motors, in particular, are used in most of the electric
two-wheelers. They are fairly easy to install, do not require transmission components,
and are affordable to manufacture as well. However, they result in an increased
unsprung weight, which negatively impacts the handling of a two-wheeler. The TVS iQube
Electric is a great example for an electric scooter with a hub motor. Frame-mounted
motors, or mid-drive motors, are mounted onto the vehicle's frame, and are linked to a
transmission drive, which is usually either a belt or sometimes a chain. These motors
are powerful, and also ensure the centre of gravity is optimised in a two-wheeler. But
on the flip side, they are expensive, and the transmission drives may need regular
maintenance. The Ather 450X comes with a frame mounted motor.</p>
          </div>
        </div>
      </div>
      <div class="row parah">
        <div class="col-sm-12 parah">
          <h4>Types of Charging</h4>
          <p>There are two ways to charge a battery pack. The conventional way is to
simply plug the charger into a 3-pin 5A socket and let it charge overnight. While this
takes a long time to charge the battery completely, it does not heat up the battery
pack as the amount of current induced is low. The Hero Electric Photon HX, for

```

example, takes 5 hours to charge completely. On the other hand, a fast-charging system sends large amounts of current into the battery pack, thus charging them up quickly. However, batteries that are compatible with fast charging systems need to have excellent thermal management to ensure their longevity. Electric bikes and scooters with fast-charging technology are expensive too. The Ather 450X uses a proprietary AC and DC combined fast-charging system that can juice up the battery in over an hour.</p>

```
</div>
<div class="col-sm-12 col-md-3">
</div>
</div>
</div>
<div class="col"></div>
</div>
<div class="row">
<div class="col-sm-12">
<div class="coolstuffwrapper">
<button type="button" class="btn btn-lg coolstuffbtn" data-bs-toggle="modal"
data-bs-target="#coolstuffmodal">Get Cool Stuff</button>
</div>
</div>
</div>
</div>
<div class="sectionlight">
<div class="row">
<div class="col-sm-12">
<div class="row">
<div class="col-sm-12 col-lg-4">

<div class="row">
<div class="col-sm-12">
<button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".ola-modal-sm">Ola S1</button>
</div>
</div>
</div>
<div class="col-sm-12 col-lg-4">

<div class="row">
<div class="col-sm-12">
<button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".tvs-modal-sm">TVS iQube Electric</button>
```

```

        </div>
    </div>
</div>
<div class="col-sm-12 col-lg-4">
    
    <div class="row">
        <div class="col-sm-12">
            <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".revolt-modal-sm">Revolt RV400</button>
        </div>
    </div>
</div>
</div>
</div>
</div>
</div>
</div>
<div class="sectionlight">
    <div class="row">
        <div class="col-sm-12">
            <div class="row">
                <div class="col-sm-12 col-lg-4">
                    
                    <div class="row">
                        <div class="col-sm-12">
                            <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".ather-modal-sm">Ather 450X</button>
                        </div>
                    </div>
                </div>
            </div>
            <div class="col-sm-12 col-lg-4">
                
                <div class="row">
                    <div class="col-sm-12">
                        <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".simple-modal-sm">Simple Energy One</button>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <div class="col-sm-12 col-lg-4">
        
        <div class="row">
            <div class="col-sm-12">

```

```
        <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".bajaj-modal-sm">Bajaj Chetak</button>
    </div>
</div>
</div>
</div>
</div>
</div>
</div>
<div class="sectionlight">
    <div class="row">
        <div class="col-sm-12">
            <div class="row">
                <div class="col-sm-12 col-lg-4">
                    
                    <div class="row">
                        <div class="col-sm-12">
                            <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".hero-modal-sm">Hero Electric Optima</button>
                        </div>
                    </div>
                </div>
                <div class="col-sm-12 col-lg-4">
                    
                    <div class="row">
                        <div class="col-sm-12">
                            <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".ampere-modal-sm">Ampere Magnus</button>
                        </div>
                    </div>
                </div>
            </div>
            <div class="col-sm-12 col-lg-4">
                
                <div class="row">
                    <div class="col-sm-12">
                        <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".atria-modal-sm">Hero Electric Atria</button>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
</div>
</div>
```

```

</div>
</div>
<div class="sectionlight">
  <div class="row">
    <div class="col-sm-12">
      <div class="row">
        <div class="col-sm-12 col-lg-4">
          
          <div class="row">
            <div class="col-sm-12">
              <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".photon-modal-sm">Hero Electric Photon</button>
            </div>
          </div>
        </div>
        <div class="col-sm-12 col-lg-4">
          
          <div class="row">
            <div class="col-sm-12">
              <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".flash-modal-sm">Hero Electric Flash</button>
            </div>
          </div>
        </div>
      </div>
    <div class="col-sm-12 col-lg-4">
      
      <div class="row">
        <div class="col-sm-12">
          <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".pure-modal-sm">Pure EV Epluto</button>
        </div>
      </div>
    </div>
  </div>
</div>
</div>
</div>
</div>
</div>
<div class="sectionlight">
  <div class="row">
    <div class="col-sm-12">
      <div class="row">
        <div class="col-sm-12 col-lg-4">

```

```

        
        <div class="row">
            <div class="col-sm-12">
                <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".komaki-modal-sm">Komaki XGT KM</button>
            </div>
        </div>
    </div>
    <div class="col-sm-12 col-lg-4">
        
        <div class="row">
            <div class="col-sm-12">
                <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".nyx-modal-sm">Hero Electric NYX</button>
            </div>
        </div>
    </div>
    <div class="col-sm-12 col-lg-4">
        
        <div class="row">
            <div class="col-sm-12">
                <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".ev-modal-sm">Pure EV Epluto 7G</button>
            </div>
        </div>
    </div>
</div>
</div>
</div>
</div>
</div>
</div>
<div class="sectionlight">
    <div class="row">
        <div class="col-sm-12">
            <div class="row">
                <div class="col-sm-12 col-lg-4">
                    
                    <div class="row">
                        <div class="col-sm-12">
                            <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".rv300-modal-sm">Revolt RV300</button>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>

```

```

    </div>
    <div class="col-sm-12 col-lg-4">
        
        <div class="row">
            <div class="col-sm-12">
                <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".aura-modal-sm">Benling India Aura</button>
            </div>
        </div>
    </div>
    <div class="col-sm-12 col-lg-4">
        
        <div class="row">
            <div class="col-sm-12">
                <button type="button" class="btn btn-danger btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".odysse-modal-sm">Odysse Electric
Evoqis</button>
            </div>
        </div>
    </div>
</div>
</div>
</div>
</div>
</div>
</div>

<!-- Modal -->
<div class="modal fade" id="coolstuffmodal" tabindex="-1"
aria-labelledby="coolstuffLabel" aria-hidden="true">
<div class="modal-dialog">
    <div class="modal-content">
        <div class="modal-header">
            <h5 class="modal-title" id="contentLabel">Get Exclusive Content</h5>
            <button type="button" class="btn-close" data-bs-dismiss="modal"
aria-label="Close"></button>
        </div>
        <div class="modal-body">
            <div class="container-fluid">
                <div class="row">
                    <div class="col-sm-12">
                        

```

```

        </div>
    </div>
    <div class="row">
        <div class="col-sm-12">
            <div class="modalformwrapper">
                <div class="mb-3">
                    <label for="formGroupExampleInput" class="form-label">What's your
Name</label>
                    <input type="text" class="form-control" id="formGroupExampleInput"
placeholder="Name">
                </div>
                <div class="mb-3">
                    <label for="formGroupExampleInput2" class="form-label">Where should we
send your cool content?</label>
                    <input type="text" class="form-control" id="formGroupExampleInput2"
placeholder="Email">
                </div>
            </div>
        </div>
    </div>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
    </div>
</div>
</div>
</div>
</div>

<!--Kickflipmodal-->
<div class="modal fade ola-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-sm">
        <div class="modal-content">
            <div class="card" style="width: 18rem;">
                
                <div class="card-body">
                    <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br> R/D
: </p>
                </div>
            </div>
        </div>
    </div>

```

```

        <div class="modal-footer">
            <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
            <button type="button" class="btn btn-primary"><a
routerLink="/addtocart/{{msg}}">Add to Cart</a></button>
        </div>
    </div>
</div>
</div>
</div>
<div class="modal fade tvs-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-sm">
        <div class="modal-content">
            <div class="card" style="width: 18rem;">
                
                <div class="card-body">
                    <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br> R/D
: </p>
                </div>
            </div>
        </div>
        <div class="modal-footer">
            <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
            <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
        </div>
    </div>
</div>
</div>
</div>
<div class="modal fade revolt-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-sm">
        <div class="modal-content">
            <div class="card" style="width: 18rem;">
                
                <div class="card-body">
                    <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br> R/D
: </p>
                </div>
            </div>
        </div>
        <div class="modal-footer">

```

```

        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>

        <button type="button" class="btn btn-primary"><a
routerLink="/addtocart/{{msg}}">Add to Cart</a></button>

    </div>

</div>
</div>
</div>

<div class="modal fade ather-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-sm">
        <div class="modal-content">
            <div class="card" style="width: 18rem;">
                
                <div class="card-body">
                    <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br>
R/D : </p>
                </div>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
                <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
            </div>
        </div>
    </div>
</div>

<div class="modal fade simple-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-sm">
        <div class="modal-content">
            <div class="card" style="width: 18rem;">
                
                <div class="card-body">
                    <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br>
R/D : </p>
                </div>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>

```

```

<button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
    </div>
</div>
</div>
</div>
    <div class="modal fade bajaaj-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-sm">
    <div class="modal-content">
        <div class="card" style="width: 18rem;">
            
            <div class="card-body">
                <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br>
R/D : </p>
            </div>
        </div>
    </div>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
    </div>
</div>
</div>
</div>
    <div class="modal fade hero-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
    <div class="modal-dialog modal-sm">
    <div class="modal-content">
        <div class="card" style="width: 18rem;">
            
            <div class="card-body">
                <p class="card-text"></p>
            </div>
        </div>
    </div>
    <div class="modal-footer">
        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
    </div>
</div>

```

```

    </div>
  </div>
</div>
<div class="modal fade ampere-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-sm">
    <div class="modal-content">
      <div class="card" style="width: 18rem;">
        
        <div class="card-body">
          <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br>
R/D : </p>
        </div>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
      </div>
    </div>
  </div>
</div>
<div class="modal fade atria-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-sm">
    <div class="modal-content">
      <div class="card" style="width: 18rem;">
        
        <div class="card-body">
          <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber: <br>
R/D : </p>
        </div>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
      </div>
    </div>
  </div>
</div>

```

```

    </div>

    <div class="modal fade photon-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">

      <div class="modal-dialog modal-sm">

        <div class="modal-content">

          <div class="card" style="width: 18rem;">

            <div class="card-body">

              <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber:
<br> R/D : </p>

            </div>

          </div>

          <div class="modal-footer">

            <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>

            <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>

          </div>

        </div>

      </div>

    </div>

    <div class="modal fade flash-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">

      <div class="modal-dialog modal-sm">

        <div class="modal-content">

          <div class="card" style="width: 18rem;">

            <div class="card-body">

              <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber:
<br> R/D : </p>

            </div>

          </div>

          <div class="modal-footer">

            <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>

            <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>

          </div>

        </div>

      </div>

    </div>

```

```

        <div class="modal fade pure-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
        <div class="modal-dialog modal-sm">
        <div class="modal-content">
            <div class="card" style="width: 18rem;">
                
                <div class="card-body">
                    <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber:
<br> R/D : </p>
                </div>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
                <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
            </div>
        </div>
        </div>
        </div>
        </div>

        <div class="modal fade komaki-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
        <div class="modal-dialog modal-sm">
        <div class="modal-content">
            <div class="card" style="width: 18rem;">
                
                <div class="card-body">
                    <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber:
<br> R/D : </p>
                </div>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
                <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
            </div>
        </div>
        </div>
        </div>
        </div>

        <div class="modal fade nyx-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">

```

```

<div class="modal-dialog modal-sm">
  <div class="modal-content">
    <div class="card" style="width: 18rem;">
      
      <div class="card-body">
        <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber:
<br> R/D : </p>
      </div>
    </div>
    <div class="modal-footer">
      <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
      <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
    </div>
  </div>
</div>
</div>
</div>
<div class="modal fade ev-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-sm">
    <div class="modal-content">
      <div class="card" style="width: 18rem;">
        
        <div class="card-body">
          <p class="card-text">Name : <br> Place: <br> BikeRegistrationNumber:
<br> R/D : </p>
        </div>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
      </div>
    </div>
  </div>
</div>
</div>
<div class="modal fade rv300-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
  <div class="modal-dialog modal-sm">
    <div class="modal-content">

```

```

        <div class="card" style="width: 18rem;">
            
            <div class="card-body">
                <p class="card-text">Name : <br> Place: <br>
BikeRegistrationNumber: <br> R/D : </p>
            </div>
        </div>
        <div class="modal-footer">
            <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
            <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
        </div>
    </div>
</div>
</div>
</div>
    <div class="modal fade aura-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
        <div class="modal-dialog modal-sm">
            <div class="modal-content">
                <div class="card" style="width: 18rem;">
                    
                    <div class="card-body">
                        <p class="card-text">Name : <br> Place: <br>
BikeRegistrationNumber: <br> R/D : </p>
                    </div>
                </div>
            </div>
            <div class="modal-footer">
                <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
                <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
            </div>
        </div>
    </div>
</div>
</div>
    <div class="modal fade odysse-modal-sm" tabindex="-1" role="dialog"
aria-labelledby="myLargeModalLabel" aria-hidden="true">
        <div class="modal-dialog modal-sm">
            <div class="modal-content">
                <div class="card" style="width: 18rem;">
                    

```

```

        <div class="card-body">
            <p class="card-text">Name : <br> Place: <br>
BikeRegistrationNumber: <br> R/D : </p>
        </div>
    </div>

    <div class="modal-footer">
        <button type="button" class="btn btn-secondary"
data-bs-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary"><a routerLink="/addtocart/{{msg}}">Add
to Cart</a></button>
    </div>
</div>
</div>
</div>
</div>

```

CSS

```

.bs {
    width: 50px;
    margin: 0 50px 0 50px;
    border: 3px solid green;
}

.btn a {
    text-decoration: none;
    color: white
}

.img {
    display: block;
    margin-right: auto;
    width: 100%;
    text-align: center;
}

h1 {
    text-align: center;
    font-family: 'Times New Roman', Times, serif;
}

```

```
}

.jumbotron {
  text-align: center;
  background: none;
  margin-top: 50px;
  margin-bottom: 50px;
}

.sectionlight {
  background-color: #eceeef;
  padding: 2rem;
}

.sectiondark {
  background-color: #cccccc;
  padding: 2rem;
}

.coolstuffwrapper {
  margin-top: 20px;
}

button.coolstuffbtn {

  background-color: green;
  color: #ffffff;
  display: block;
  margin: auto;
}

.parah {
  border: white 5px solid;
}

button {
  font-family: 'Times New Roman', Times, serif;
  border: 5px solid;
  background-color: green;
}
```

```
h5.modal-title {
  margin: auto;
}

.modalformwrapper {
  padding: 2rem;
}

.imgcentre {
  margin: auto;
  display: block;
  border: black 5px solid;
  border-radius: 2%;
}

.imgcentre:hover {
  transform: scale(1.5);
}

.btncentre {
  display: block;
  margin: auto;
  margin-top: 15px;
  margin-bottom: 20px;
  width: 54%;
}

.fab {
  margin: 10px;
}

.footerimage {
  padding: 20px;
}

.fa-facebook-square {
  color: #3b5998;
}

.fa-google-plus-square {
  color: #c32f10;
}
```

```
.fa-instagram {
  color: #ffffff;
}

.socialwrapper {
  margin: auto;
}
```

REGISTER

HTML

```
<app-navbar></app-navbar>
<div class="container signin-container">
  <div class="row">
    <div class="col"></div>
    <div class="col-sm-12 col-md-8">
      <div class="card signin-card">
        <div class="card-body">
          {{msg}}
          
          
          <form #ff="ngForm" (submit)="register(ff);" id="signin-form">
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="text" name="fname" ngModel #fn="ngModel"
class="form-control" id="fnameinput"
(blur)="usernamecheck(fn.value);"placeholder="Enter First Name" required>
            </div>
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="text" name="sname" ngModel #sn="ngModel"
class="form-control" id="snameinput" placeholder="Enter Second Name" required>
            </div>
            <div class="form-group">
              <label for="formGroupExampleInput"></label>
              <input type="email" name="ename" ngModel #en="ngModel" class="form-control"
id="emailinput" (blur)="emailcheck(en.value);" placeholder="Enter Email" required
email>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

```

        <p class="alert alert-danger" *ngIf="en.errors?.email &&
en.touched">Complete the required field</p>
        <div class="form-group">
            <label for="formGroupExampleInput2"></label>
            <input type="password" name="epass" ngModel #ps="ngModel"
class="form-control" id="password" placeholder="Enter Password" required>
        </div>
        <p class="alert alert-danger" *ngIf="ps.errors?.required &&
ps.touched">Complete the required field</p>
        <button type="submit" class="btn signin-btn btn-lg"
[disabled]="ff.invalid || !una || !enc">Sign Up</button>
    </form>
</div>
</div>
</div>
<div class="col"></div>
</div>
</div>

```

CSS

```

body.signin-body {
    background-color: #e6f2ff;
    text-align: center;
}

.container.signin-container {
    margin-top: 8%;
}

.card.signin-card {
    padding: 40px 0px 20px;
    background-color: lightcoral;
    box-shadow: 2px 2px 5px rgba(0, 0, 0, .5);
}

.letter {
    padding: auto;
    margin: auto;
    border: black 4px solid;
}

```

```
}

.card-body {
  text-align: center;
}

.img-fluid.signin-image {
  padding: 0 2rem 2rem;
  margin: auto;
  display: block;
  width: 50%;
}

.signin-form {
  max-width: 350px;
  margin: auto;
}

button.signin-btn {
  color: #ffffff;
  background-color: green;
  width: 100%;
  margin-top: 10px;
  margin-bottom: 1.2rem;
}

label.form-check-label {
  float: left;
}

a {
  text-decoration: none;
}

a.acnt {
  font-size: 1.2rem;
  text-align: center;
  display: block;
  margin-top: 20px;
}
```

SECTION

HTML

```
<section class="services">
  <div class="container">
    <div class="mediaobject">
      <div class="iconleft">
        
      </div>
      <div class="blurrightright">
        <h3 class="blurheader">Safe Rides</h3>
        <div class="blurinfo">
          Your safety is our priority. From sanitizing all bikes before every use, to
extensive on-ground safety measures, your rides with ONN will always be safe and
reliable. We also offer helmets on-demand.
        </div>
      </div>
    </div>
    <div class="mediaobject">
      <div class="iconright">
        
      </div>
      <div class="blurleft">
        <h3 class="blurheader">E-Bike Station</h3>
        <div class="blurinfo">
          Your local E-Bike Station is here to make ensure your two-wheeler
experience is flawless. At your neighborhood station, you get to pick any bike, get
maintenance, sanitized, and a lot more.
        </div>
      </div>
    </div>
    <div class="mediaobject">
      <div class="iconleft">
        
      </div>
      <div class="blurrightright">
        <h3 class="blurheader">Smart Mobility</h3>
        <div class="blurinfo">
```

With your trusty E-Bike app, you can choose any bike, make instant payments, get offers, and manage all aspect of your E-Bike experience right from the comfort and ease of your mobile app.

```
</div>
</div>
</div>
</div>
</section>
```

CSS

```
.navbar,
.container {
  max-width: 1140px;
  width: 100%;
  margin: 0 auto;
}

h1 {
  font-family: 'Times New Roman', Times, serif;
}

.navbar {
  display: flex;
  justify-content: space-between;
  padding: 20px;
}

.brand,
.navlink {
  text-transform: uppercase;
  color: #303137;
}

.brand {
  font-size: 25px;
}

.sensei {
  color: #66B6D3;
```

```
}

.topnav {
  display: flex;
  margin: 0;
  padding: 0;
  list-style: none;
}

.topnav .navlink {
  text-decoration: none;
  padding-left: 20px;
  font-size: 20px;
}

ul.topnav li.dropdownlink {
  display: none;
}

header {
  display: flex;
  justify-content: center;
  text-align: center;
  padding: 6rem 0;
}

.services,
.contactcontainer {
  padding: 4rem 2rem;
}

.mediaobject {
  display: flex;
  align-items: center;
  padding: 4rem 1rem;
}

.iconleft,
.iconright {
```

```
flex: 1;
display: flex;
justify-content: center;
}

.blurright,
.blurleft {
flex: 1;
}

.iconleft,
.blurleft {
order: 1;
}

.iconright,
.blurleft {
order: 2;
}

.imgg {
width: 180px;
}

.blurheader {
font-size: 24px;
margin-top: 0;
}

.blurinfo {
color: #646B90;
font-size: 20px;
}

.btnwrapper {
display: flex;
justify-content: center;
}

.btn {
color: #FFFFFF;
```

```
background-color: #66B6D3;
font-size: 20px;
border: none;
padding: .8rem 4rem;
box-shadow: 0 5px 20px rgba(0, 0, 0, .5);
}

.sectionheader {
text-align: center;
padding: 6rem 0 4rem;
}

.portfoliowrapper {
display: flex;
flex-wrap: wrap;
justify-content: space-around;
text-align: center;
}

.portfolioobject {
width: 250px;
margin: 1rem 0;
}

.portfoliobox {
width: 250px;
height: 250px;
background-color: #f1F3Fa;
}

.portfoliobox:hover {
cursor: pointer;
transform: scale(1.02);
transition: .2s ease-in-out;
}

label {
font-size: 14px;
}

.formgroup {
margin-bottom: .75rem;
```

```
}

.formcontrol {
  margin-bottom: .75rem;
  max-width: 800px;
  width: 100%;
  color: #292b2c;
  border-radius: 2px;
  border: 2px solid #ced4da;
  padding: .2rem;
  font-size: 2rem;
  line-height: 1.5;
  background-clip: padding-box;
  display: block;
}

form {
  display: block;
  margin-top: 0rem;
}

.submit {
  margin-top: 4rem;
}

.container {
  background-image: "/Users/rs/project/src/assets/grp.jpeg";
}

@media (max-width:800px) {
  ul.topnav li a.navlink {
    display: none;
  }

  ul.topnav li.dropdownlink {
    display: flex;
  }
}
```

```
position: absolute;
top: 20px;
right: 20px;
text-decoration: none;
}

ul.topnav li.dropdownlink:hover {
  cursor: grab;
}

.topnavresponsive {
  list-style: none;
  padding: 20px;
  text-align: right;
  line-height: 2;
}

ul.topnavresponsive li a.navlink,
ul.topnavresponsive li.dropdownlink {
  text-decoration: none;
}

ul.topnavresponsive li.dropdownlink {
  position: absolute;
  top: 20px;
  right: 20px;
  color: #000;
}

ul.topnavresponsive li.dropdownlink:hover {
  cursor: grab;
}

ul.topnavresponsive li a.navlink {
  position: relative;
  margin: 20px;
  padding: 20px;
}

.portfoliowrapper {
  justify-content: center;
}
```

```
.portfolioobject {
  display: flex;
  flex-direction: column;
  width: 100%;
  justify-content: center;
}

.portfoliobox {
  margin: auto;
}

.mediaobject {
  flex-direction: column;
  text-align: center;
}

.iconleft,
.iconright {
  order: 1;
}

.blurleft,
.blurright {
  order: 2;
  padding-top: 2rem;
}

.submit {
  text-align: center;
}
}
```

STORE

HTML

```

<app-navbar></app-navbar>
<div class="main">
  <div>
<div class="sectionlight">
  <div class="row">
    <div class="col-sm-12">
      <div class="row">
        <div class="col-sm-12 col-lg-4">
          
          <div class="row">
            <div class="col-sm-12">
              <br>
              <button type="button" class="btn btn-success btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".kf-modal-lg">Kick Flip</button>
            </div>
          </div>
        </div>
        <div class="col-sm-12 col-lg-4">
          
          <div class="row">
            <div class="col-sm-12">
              <br>
              <button type="button" class="btn btn-success btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".y360-modal-md">360 Flip</button>
            </div>
          </div>
        </div>
      </div>
    </div>
    <div class="col-sm-12 col-lg-4">
      
      <div class="row">
        <div class="col-sm-12">
          <br>
          <button type="button" class="btn btn-success btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".bc-modal-sm">BS Crook</button>
        </div>
      </div>
    </div>
  </div>
</div>
</div>
</div>

```

```

</div>
</div>
<div class="sectionlight">
  <div class="row">
    <div class="col-sm-12">
      <div class="row">
        <div class="col-sm-12 col-lg-4">
          
          <div class="row">
            <div class="col-sm-12">
              <br>
              <button type="button" class="btn btn-success btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".kf-modal-lg">Kick Flip</button>
            </div>
          </div>
          <br>
        </div>
        <div class="col-sm-12 col-lg-4">
          
          <div class="row">
            <div class="col-sm-12">
              <br>
              <button type="button" class="btn btn-success btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".y360-modal-md">360 Flip</button>
            </div>
          </div>
          <br>
        </div>
        <div class="col-sm-12 col-lg-4">
          
          <div class="row">
            <div class="col-sm-12">
              <br>
              <button type="button" class="btn btn-success btn-lg btncentre"
data-bs-toggle="modal" data-bs-target=".bc-modal-sm">BS Crook</button>
            </div>
          </div>
          <br>
        </div>
      </div>
    </div>
  </div>
</div>

```

```

</div>
</div>
<div class="body">
  <div class="container signin-container">
    <div class="row">
      <div class="col"></div>
      <div class="col-sm-12 col-md-8">
        <div class="card signin-card">
          <div class="card-body">
            <img class="loginletter" src = "assets/loginletter.png"><h2
class="login">My Cart</h2>
            
            <form #f="ngForm" id="signin-form">
              <div class="form-group">
                <label for="formGroupExampleInput"></label>
                <input type="email" name="ename" ngModel #en="ngModel"
class="form-control" id="emailinput" placeholder="Enter Email" required email>
              </div>
              <p class="alert alert-danger" *ngIf="en.errors?.email &&
en.touched">Complete the required field</p>
              <div class="form-group">
                <label for="formGroupExampleInput2"></label>
                <input type="password" name="epass" ngModel #ps="ngModel"
class="form-control" id="password" placeholder="Enter Password" required>
              </div>
              <p class="alert alert-danger" *ngIf="ps.errors?.required &&
ps.touched">Complete the required field</p>
              <button type="submit" class="btn signin-btn btn-lg" >Sign
In</button>
              <div class="form-check">
                <input class="form-check-input" type="checkbox"
id="gridCheck1">
                <label class="form-check-label" for="gridCheck1">
                  Remember Me <a href="">Need Help?</a>
                </label>
              </div>
            </form>
          </div>
          <div>
            <a routerLink="/register" class="acct">Create New Account</a>
          </div>
        </div>
      </div>
    </div>
  </div>

```

```
        </div>
      </div>
    </div>
  </div>
```

CSS

```
.jumbotron,
.sectionlight {
  text-align: center;
  background: none;
}

.sectionLight {
  background-color: #eceeef;
  padding: 2rem;
}

.sectionDark {
  background-color: #cccccc;
  padding: 2rem;
}

.coolStuffWrapper {
  margin-top: 20px;
}

button.coolStuffBtn {
  background-color: green;
  color: #ffffff;
  display: block;
  margin: auto;
}

h5.modal-title {
  margin: auto;
}

.modalFormWrapper {
  padding: 2rem;
}
```

```
.imgCenter {
  display: block;
  margin: auto;
}

.btnCenter {
  display: block;
  margin: auto;
  margin-top: 15px;
  margin-bottom: 20px;
  width: 54%;
}

.footerImg {
  padding: 15px;
}

.fa {
  margin: 10px;
}

.fa-facebook-square {
  color: #3b5998;
}

.fa-google-plus-square {
  color: green;
}

.fa-instagram {
  color: #ffffff;
}

.socialWrapper {
  margin: auto;
}

.body {
  background-color: darkolivegreen;
  text-align: center;
}
```

```
}

.card-body {
  border: 20px double black;
  border-radius: 5px;
  background-color: bisque;
}

.container.signin-container {
  margin: auto;
  padding: 20px;
}

.card .signin-card {
  padding: 40px 0px 20px;
  box-shadow: 2px 2px 5px rgba(0, 0, 0, .5);
}

.loginletter {
  text-align: left;
  font-family: 'Times New Roman', Times, serif;
  width: 200px;
}

.login {
  font-family: 'Times New Roman', Times, serif;
  text-align: center;
  border: solid 5px;
}

.img-fluid.signin-image {
  padding: 0 2rem 2rem;
  margin: auto;
  display: block;
  width: 50%;
}

.signin-form {
  max-width: 350px;
  margin: auto;
}
```

```

}

button.signin-btn {
  color: #ffffff;
  background-color: green;
  width: 100%;
  margin-top: 10px;
  margin-bottom: 1.2rem;
}

label.form-check-label {
  float: left;
}

a {
  text-decoration: none;
}

a.acnt {
  font-size: 1.2rem;
  text-align: center;
  display: block;
  margin-top: 20px;
}

.main {
  display: flex;
}

```

USERS

HTML

```

<app-navbar></app-navbar>
<div class="search">
Search : <input type="text" #search (keyup)="dosearch(search.value)">&nbsp;
</div>
<div class="adduser">
<button><a routerLink="/adduser">Add User</a></button>
</div>
<div class="table">

```

```

<table>
  <tr>
    <th>Serial No</th>
    <th>First Name</th>
    <th>Last Name</th>
    <th>Email Id</th>
  </tr>
  <tr *ngFor = "let use of user;index as i;">
    <td>{{i+1}}</td>
    <td>{{use.fname}}</td>
    <td>{{use.sname}}</td>
    <td>{{use.ename}}</td>
    <td><button><a routerLink="/edituser/{{use._id}}">Edit</a></button></td>
    <td><button (click)="deleteuser(use._id)">Delete</button></td>
  </tr>
</table>
</div>
<p *ngIf="user.length == 0">No Records Found</p>
{{msg}}

```

CSS

```

table,
th,
td {
  border: 5px solid black;
  text-decoration: none;
  text-align: center;
  margin: auto;
  padding: 20px;
  margin-top: 20px;
}

.table {
  display: inline;
  padding: 20px;
}

.search {
  float: right;
  padding: 20px;
}

```

```
.adduser a {
  text-decoration: none;
  color: black;
}

.adduser {
  padding: 2px;
  margin: 5px;
}

button {
  background-color: #4CAF50;
  /* Green */
  border: none;
  color: white;
  padding: 15px 32px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  animation-name: example6;
  animation-duration: 2s;
}

button a {
  text-decoration: none;
  color: white;
}

@keyframes example6 {
  0% {
    left: 0px;
    bottom: 0px;
  }

  25% {
    background-color: yellow;
    left: 200px;
    bottom: 200px;
  }
}
```

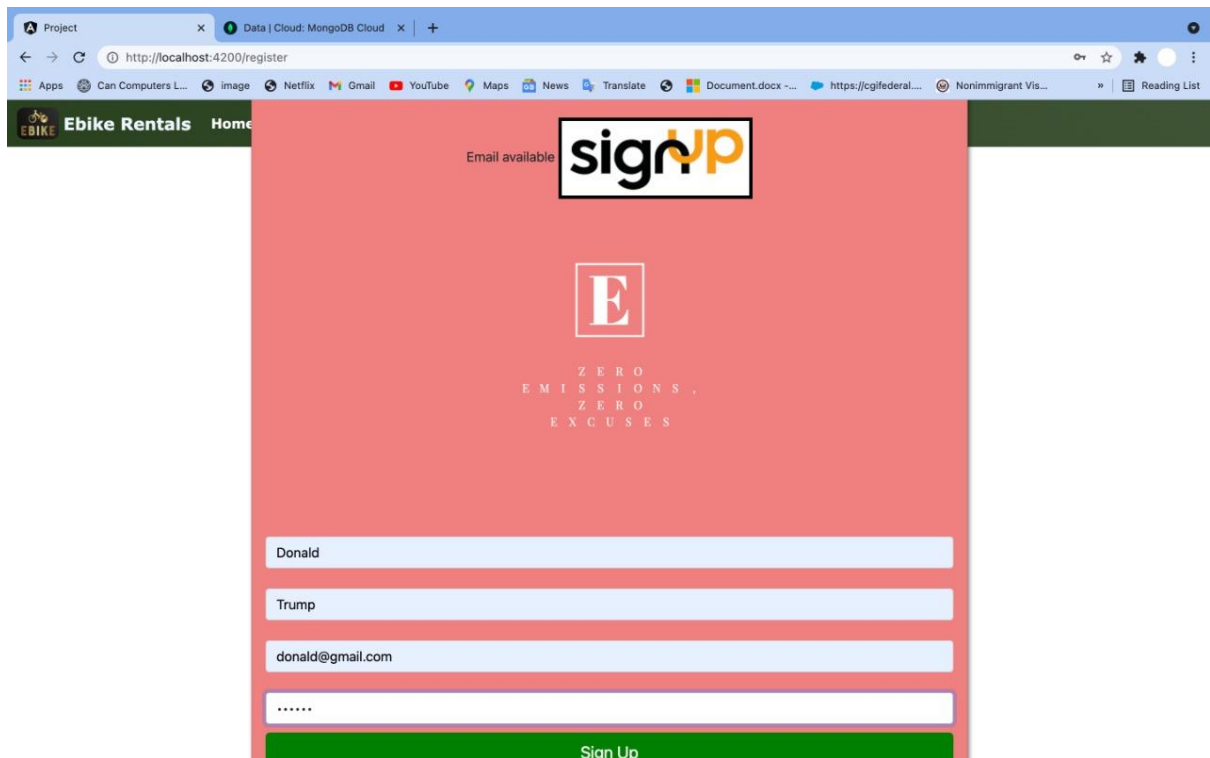
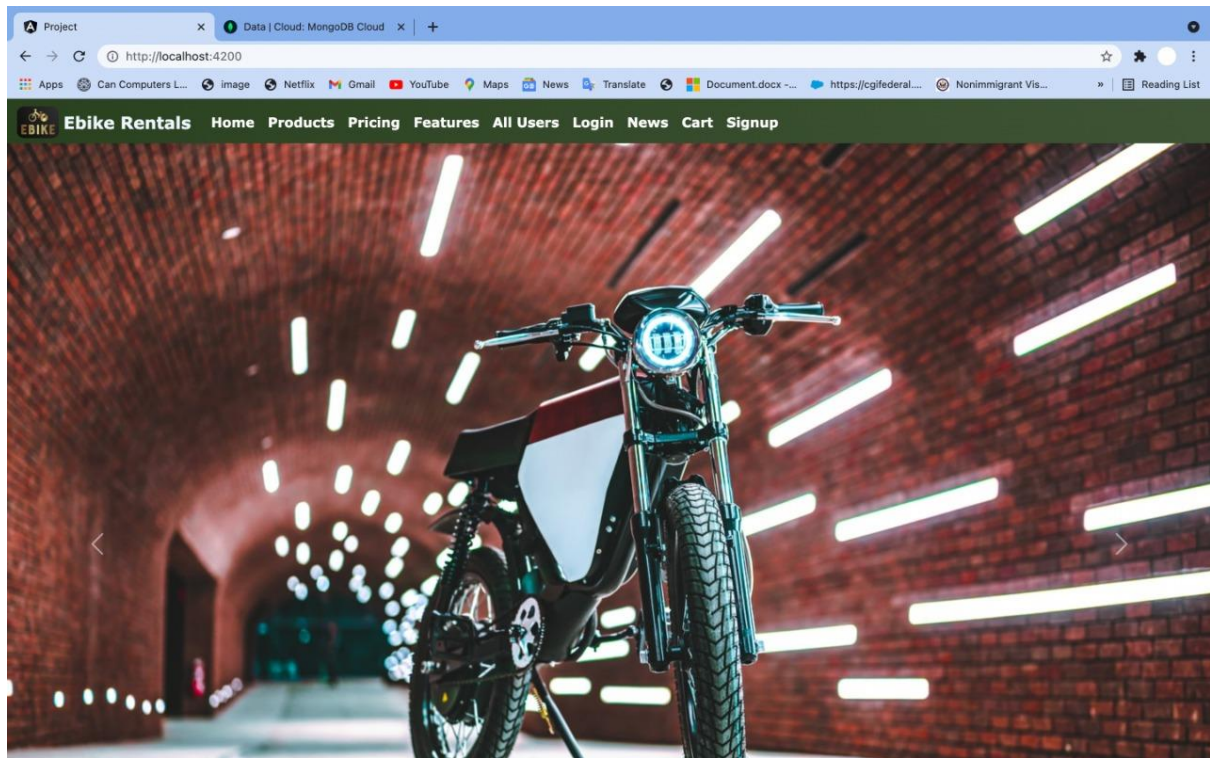
```
    opacity: .5;
}

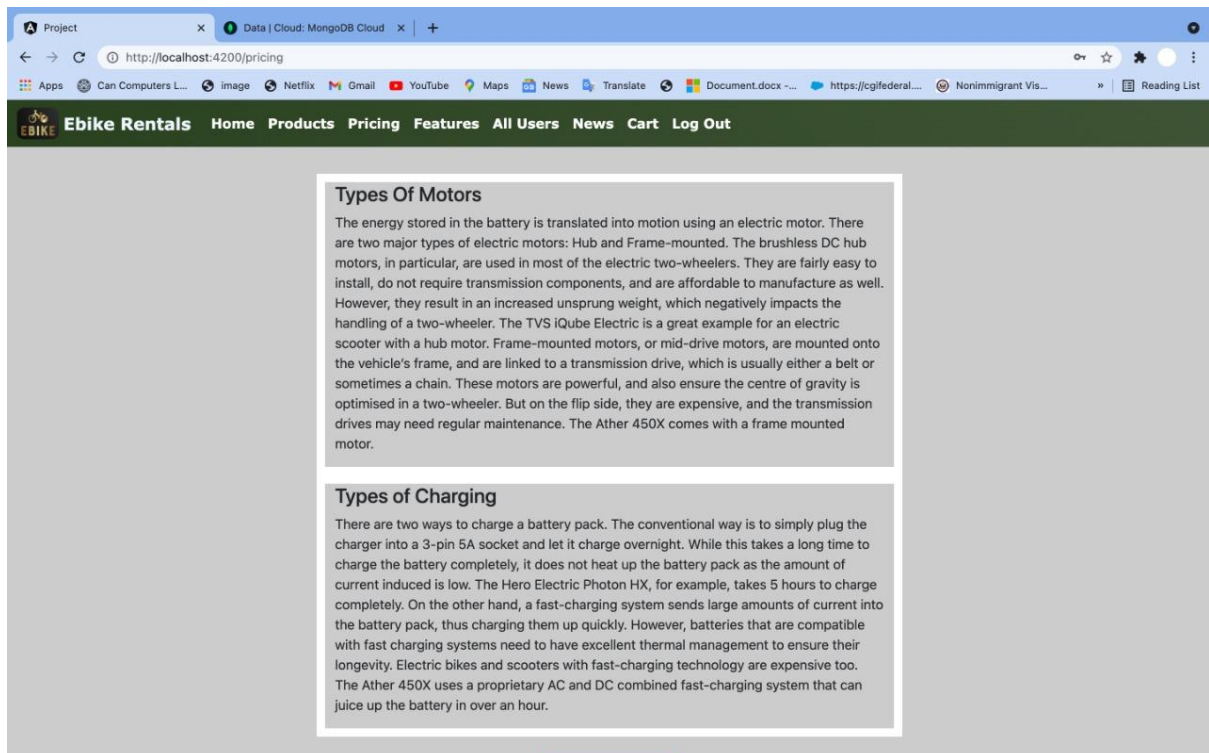
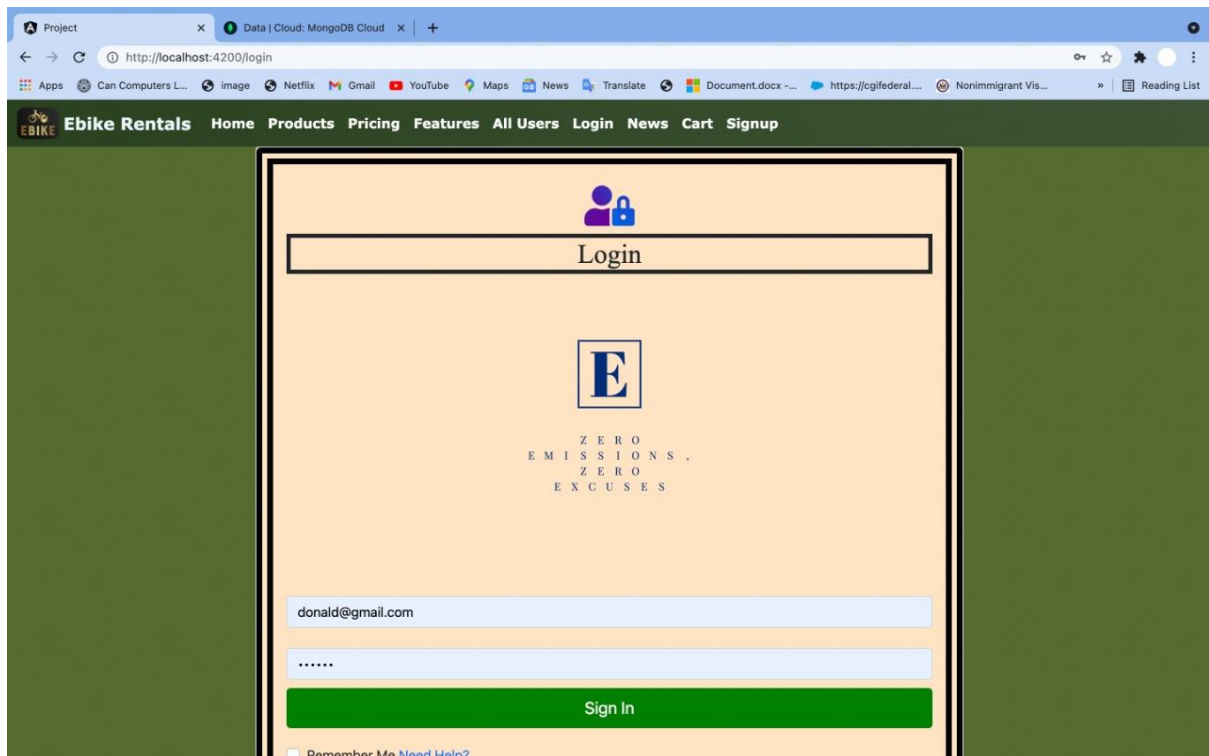
50% {
    background-color: blue;
    left: 0px;
    bottom: 0px;
}

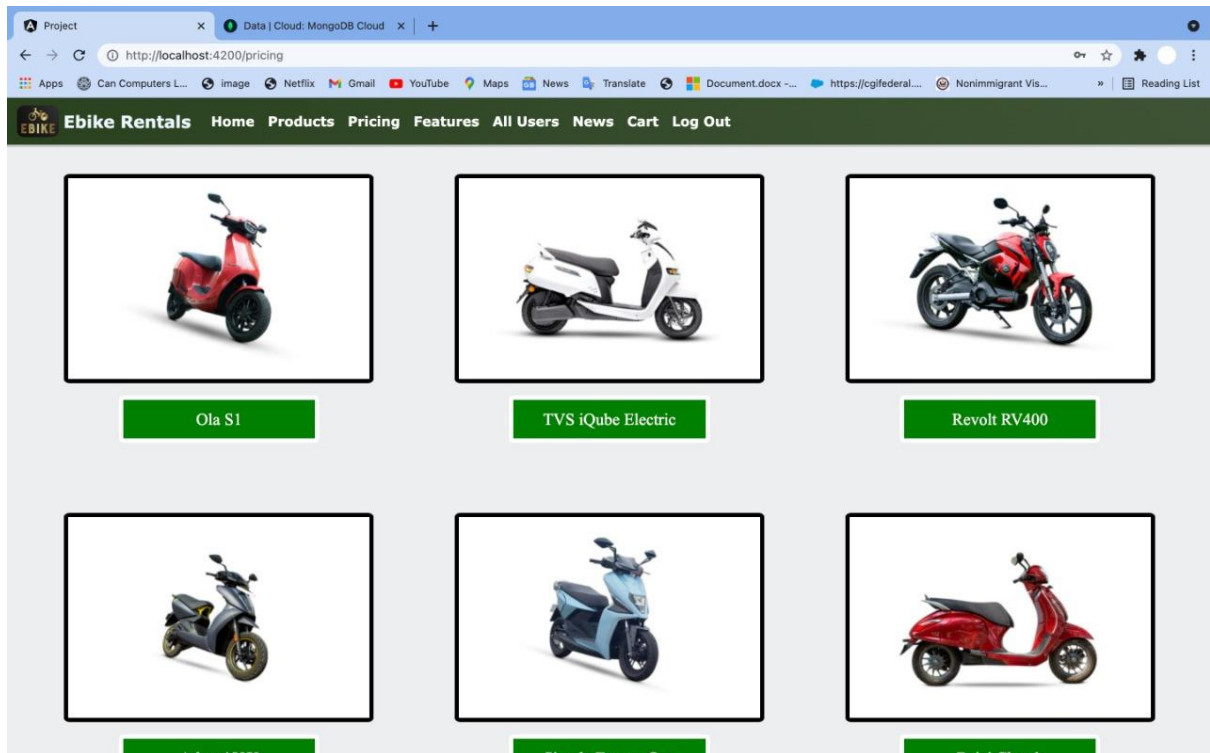
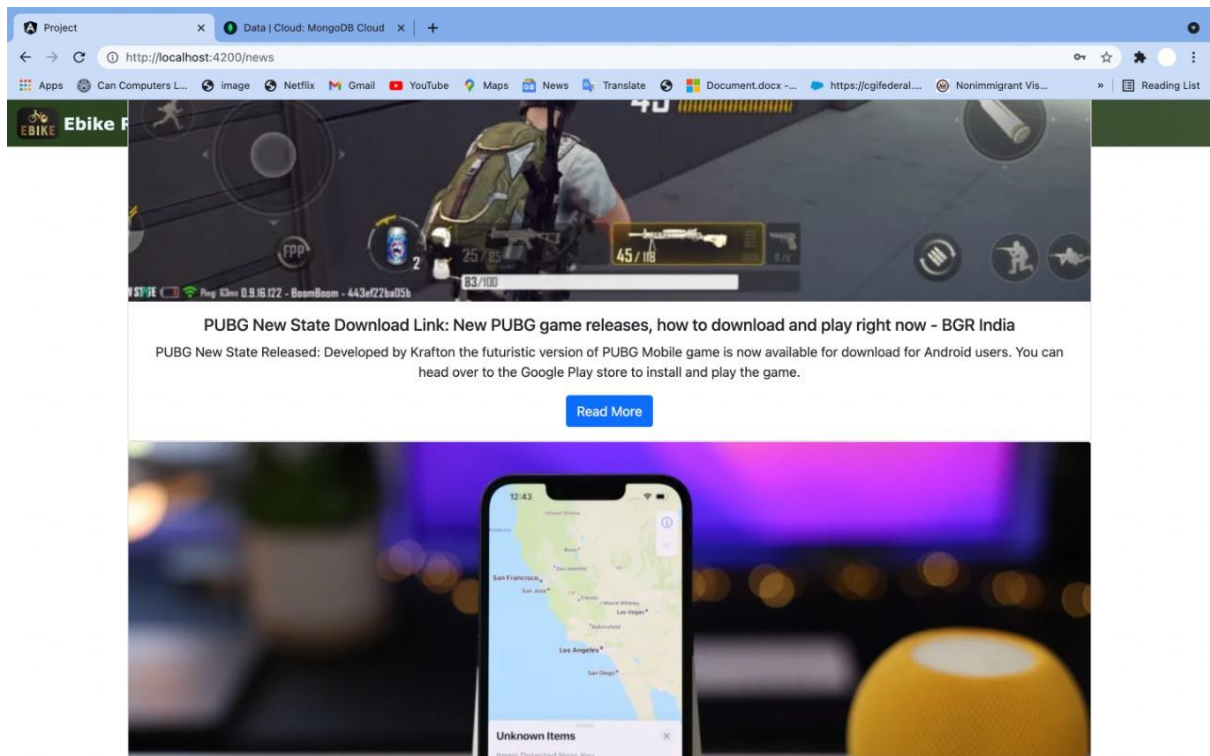
75% {
    background-color: green;
    left: 0px;
    bottom: 0px;
}

100% {
    background-color: red;
    left: 0px;
    bottom: 0px;
}
}
```

B . Output Screenshots







Project
Data | Cloud: MongoDB Cloud
http://localhost:4200/cartitems
Apps Can Computers L... image Netflix Gmail YouTube Maps News Translate Document.docx ~... https://cgifederal... Nonimmigrant Vis... Reading List

Ebike Rentals Home Products Pricing Features All Users News Cart Log Out

Serial No	First Name	Bike Model	From	To
1	random	TVS iQube Electric	2021-11-19T11:37	2021-11-20T10:32








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Project
Data | Cloud: MongoDB Cloud
http://localhost:4200/users
Apps Can Computers L... image Netflix Gmail YouTube Maps News Translate Document.docx ~... https://cgifederal... Nonimmigrant Vis... Reading List

Ebike Rentals Home Products Pricing Features All Users News Cart Log Out

Add User
Search:

Serial No	First Name	Last Name	Email Id		
1	raghul	sudharsan	raghulsudharsan26102000@gmail.com	Edit	Delete
2	Rohini	M	rohini23.md@gmail.com	Edit	Delete
3	Sandhiya	V	sandhiya@gmail.com	Edit	Delete
4	random	name	random@gmail.com	Edit	Delete








Thank You!