

PROFESSIONAL TRAINING REPORT at Sathyabama Institute of Science and Technology (Deemed to be University)

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

By

V Sathish kumar

Register number : 39120105



DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

JEPPIAAR NAGAR, RAJIV GANDHI SALAI,

CHENNAI – 600119, TAMILNADU



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with Grade "A" by NAAC

(Established under Section 3 of UGC Act, 1956)

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CHENNAI- 600119

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DEPARTMENT OF INFORMATION TECHNOLOGY

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of "V **Sathish kumar** who carried out the project entitled " **Creating a shopping application using react js**" under my supervision from August 2021 to November 2021

Internal Guide

Dr.Y.Bevis jinila M.E.,PD.D.,

Head of the department

Dr.R.Subhashini M.E.,Ph.d.,

Submitted for Viva voce Examination held on

Internal Examiner

External Examination

DECLARATION

I hereby declare that the Project Report entitled “ **creating a shopping application using react js**” done by me under the guidance of **Dr.Y.Bevis jinila 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.

DATE:

Place: Chennai

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGMENT

I am pleased to acknowledge our sincere thanks to Board of management of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey our thanks to **Dr. T. SASIKALA M.E., Ph.D., Dean, School of Computing** and **Dr. R. SUBHASHINI M.E., Ph.D., Head of the Department, Department of Information Technology** for providing us the necessary support and details at the right time during the progressive reviews.

I would like to express our sincere and deep sense of gratitude to our Project Dr.Y.Bevish jinila M.E,Ph.D. for her valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express our thanks to all Teaching and Non-teaching staff members of the Department of **INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

ABSTRACT

This project is a web based shopping system for an existing shop. The project objective is to deliver the online shopping application into an android platform. This project is an attempt to provide the advantages of online shopping to customers of a real shop.

It helps buying the products in the shop anywhere through internet by using an android device. Thus the customer will get the service of online shopping and home delivery from his favorite shop. This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains.

If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flipcart or ebay.

The main objective of the Online Shopping System is to manage the details of Shopping, Internet, Payment, Bills, Customer. It manages all the information about Shopping, Products, Customer, Shopping. The project is totally built at administrative end and thus only the administrator is guaranteed the access.

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1.Introduction :

An e-commerce web application is an online portal that is used to sell, buy, and exchange goods and services over the Internet and is also known as an electronic business system. Day by day it is gaining lots of popularity and so that reason I give concern towards the e-commerce platform and develop a site that will be beneficial for the users.

I give priority to the main concept of e-commerce platform which is business in a web app and there are four types of e-commerce web platform e.g. business-to-business (B2B), consumer-to-consumer (C2C), business-to-consumer (B2C) and consumer-to-business (C2B). Our project focuses on the business to consumer (B2C) type and which has a remarkable capacity for businessmen and consumers.

A typical online store enables the customer to browse the firm's range of products and services, view photos or images of the products, along with information about the product specifications, features and prices. Online stores usually enable shoppers to use "search" features to find specific models, brands or items. Online customers must have access to the Internet and a valid method of payment in order to complete a transaction, such as a credit card , debit card, etc..



The Convenience of Online Shopping:

Customers can purchase items from the comfort of their own homes or workplace. Shopping is made easier and convenient for the customer through the internet. It is also easy to cancel the transactions.



Advantages of Online shopping:

- ☐ Saves time and efforts.
- ☐ The convenience of shopping at home.
- ☐ Wide variety/range of products are available.
- ☐ Good discounts / lower prices.
- ☐ Get detailed information about the product.
- ☐ We can compare various models/brands.

Advantages of Online Shopping



Convenience

No Queue

No pushy sales

Money-Saving

Controlled Shopping

Online Shipment Tracking

Easy to Send a Gift

Variety in Products

Product Comparison

<https://kpshopy.com>

 **KPSHOPY**
KEEP UP YOUR SHOPPY

2. AIM AND SCOPE

2.1 AIM:

The aim of my project is to create a online shopping application using react js .

2.2 SCOPE

2.1 Why React JS

While researching with various web development technologies for developing my project I found that react is the most popular development platform that is used for building the reusable user interface (UI) component. With React a web application can be built which doesn't need any reload for changing the data of the page which makes the application become faster & more scalable & it also makes the application user friendly.

Why I have selected react for my project there are some points are given below:

- i. **Simplicity & fast learning curve:** React has a very simple & lightweight JavaScript library so any developer who is familiar with JavaScript can easily start with react. The learning materials are easily understandable and approachable.
- ii. **Reusable Components:** React has a component-based structure so we don't need to write the same code for the smaller element into different web pages which is more efficient and time consuming for writing code.
- iii. **Fast Rendering:** React loads very quickly because React uses Virtual DOM to render the website. React with components to develop a website, and Virtual DOM simply replaces components instead of replacing all of the code for a website.
- iv. **Clean Abstraction:** React does not architectures like MVC, after all, it is only about the view level and you can design the architecture of your app according to your wishes.

language used for Web Development:

I have used HTML5, CSS3, and JavaScript for the development of web applications.

Editor: Visual Studio Code:

Visual Studio Code (VS Code) is a source code editorial manager created by Microsoft that can be run on Windows, macOS, and Linux. It is free, open-source, and offers help for investigating just as implicit Git variant control, linguistic structure features, scraps, etc. The UI of the VS Code is exceptionally adjustable, as clients can change to various subjects, console alternate ways, and inclinations

USE CASE DIAGRAM:



The Use Case Diagram given above shows a use case diagram is a graphic depiction of the interactions among the elements of a system. Use Case Diagram portrayed the system's functionality and necessity by using actors and use cases. It is represented by either circles or ellipses.

Command for Creating the react app :

- FOR CREATING THE APP:

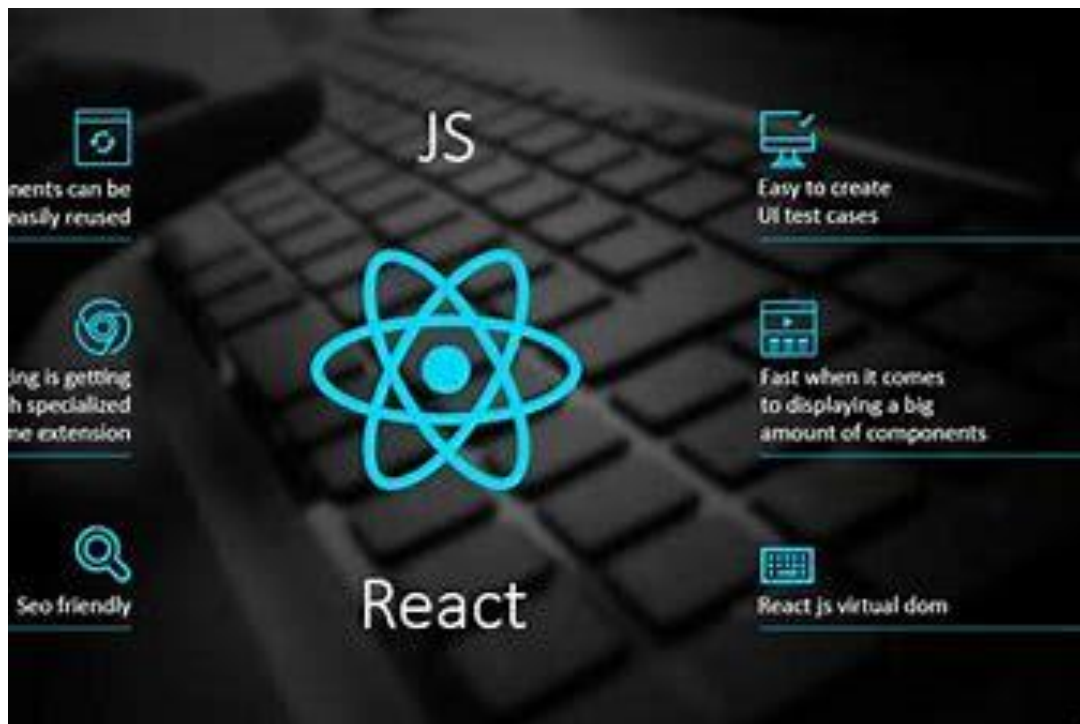
`"npx create-react-app"`

- COMMAND FOR INSTALL THE LIBRARIES :

`"npm install"`

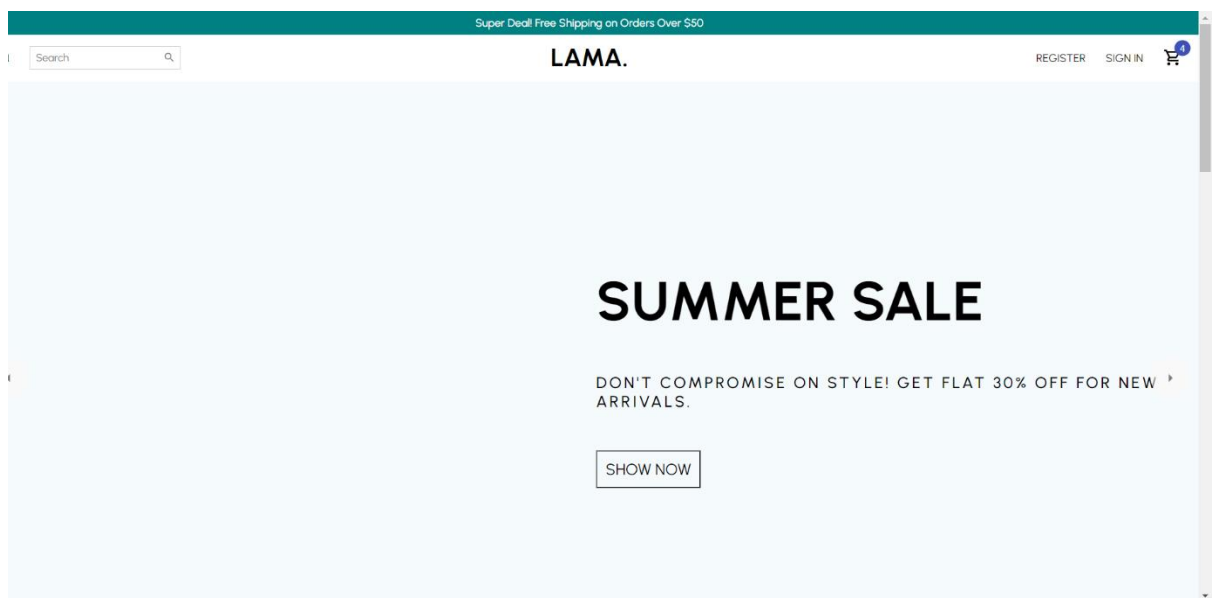
- To start the app :

`"npm start"`



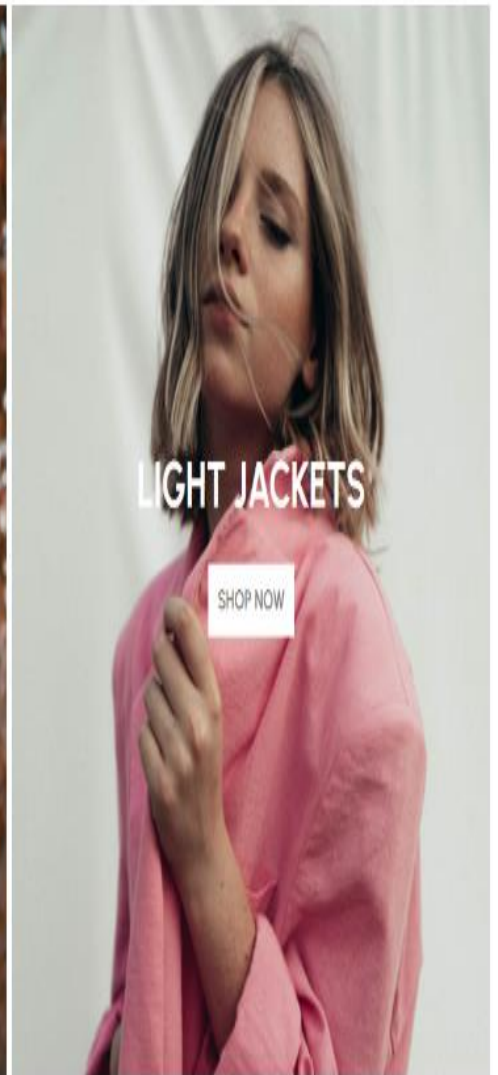
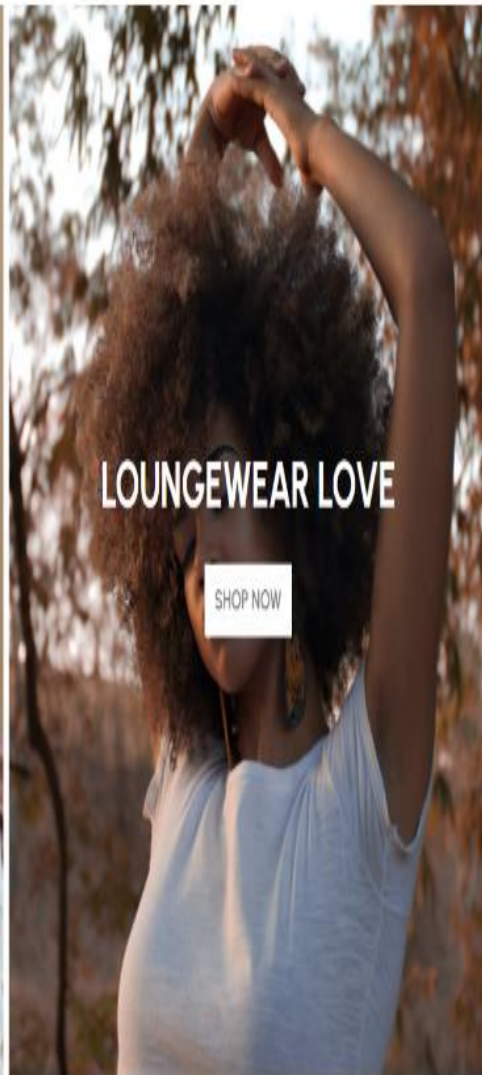
Implementation :

This picture shows the home page of this project which is divide into three-part the header the body part and the footer part.



Home page

the right side has a login and registration button which takes the user to the registration and the login page. It also has a menu bar that contains the different product categories. After clicking any of them it will filter the products and give the user his desired result.



contains the main part of the project which shows the list of all products to the user a user can easily find their expected product and if a user clicks on any product, he will get a detailed view of that particular product.

```
terminal  Help  Product.jsx - youtube-react-shop-ui - Visual Studio Code

JS App.jsx  JS Newsletter.jsx  .gitignore  JS Product.jsx X  JS Products.jsx  JS Footer.jsx  JS Announcement.jsx

src > components > JS Product.jsx > ...
1  import {
2    FavoriteBorderOutlined,
3    SearchOutlined,
4    ShoppingCartOutlined,
5  } from "@material-ui/icons";
6  import styled from "styled-components";
7
8  const Info = styled.div`
9    opacity: 0;
10   width: 100%;
11   height: 100%;
12   position: absolute;
13   top: 0;
14   left: 0;
15   background-color: rgba(0, 0, 0, 0.2);
16   z-index: 3;
17   display: flex;
18   align-items: center;
19   justify-content: center;
20   transition: all 0.5s ease;
21   cursor: pointer;
22 `;
23
24  const Container = styled.div`
25    flex: 1;
26    margin: 5px;
27    min-width: 280px;
28    height: 350px;
29    display: flex;
30    align-items: center;
31    justify-content: center;
32    background-color: #f5fbfd;
33    position: relative;
34
35    &:hover ${Info}{
36      opacity: 1;
37    }
```

For implementing products this part is where the data is stored .

part contains the contact details about the company it is the bottom part of any web page.



Newsletter

Get timely updates from your favorite products.



LAMA.

There are many variations of passages of Lorem Ipsum available, but the majority have suffered alteration in some form, by injected humour, or randomised words which don't look even slightly believable.



Useful Links

Home	Cart
Man Fashion	Woman Fashion
Accessories	My Account
Order Tracking	Wishlist
Wishlist	Terms

Contact

622 Dixie Path , South Tobinchester 98336

+1 234 56 78

contact@lama.dev



The footer part contains the contact details about the website and it is the bottom part of any web page.

```
terminal  Help  Footer.jsx - youtube-react-shop-ui - Visual Studio Code  [Icons] 08

JS App.jsx 5, U  JS Newsletter.jsx U  .gitignore U  JS Product.jsx U  JS Products.jsx U  JS Footer.jsx U X  JS Announcement.jsx U

src > components > JS Footer.jsx > ...

1  import {
2    Facebook,
3    Instagram,
4    MailOutline,
5    Phone,
6    Pinterest,
7    Room,
8    Twitter,
9  } from "@material-ui/icons";
10 import styled from "styled-components";
11 import { mobile } from "../responsive";
12
13 const Container = styled.div`
14   display: flex;
15   ${mobile({ flexDirection: "column" })}
16 `;
17
18 const Left = styled.div`
19   flex: 1;
20   display: flex;
21   flex-direction: column;
22   padding: 20px;
23 `;
24
25 const Logo = styled.h1``;
26
27 const Desc = styled.p`
28   margin: 20px 0px;
29 `;
30
31 const SocialContainer = styled.div`
32   display: flex;
33 `;
34
35 const SocialIcon = styled.div`
36   width: 40px;
37   height: 40px;
38   border-radius: 50%;
```

Footer part of the project

SUMMARY AND CONCLUTION:

Web-based application development is a crucial topic for an e-commerce site. People can browse, choose the products, and order towards the company, and the company will be delivered the product within a few days. We have a plan to change and bring a few changes to this website

This app helps in buying your gifts in a quick manner and in affordable price
In this hectic schedule people will not get time to go and shop gifts for their loved ones. This website is one stop destination to save your time and also to buy gifts for your family and friends which are completely handmade

SCREENSHOTS OF PROGRAM:

File Edit Selection View Go Run Terminal Help

index.html - project e commerce - Visual Studio Code

EXPLORER

- PROJECT e COMMERCE
 - node_modules
 - public
 - index.html**
 - src
 - .gitignore
 - package-lock.json
 - package.json
 - README.md
 - yamllock

OUTLINE

TIMELINE

NPM SCRIPTS

```

1 public > index.html >
2 <!DOCTYPE html>
3 <html lang="en">
4 <head>
5   <meta charset="utf-8" />
6   <meta name="viewport" content="width=device-width, initial-scale=1" />
7   <meta name="description" content="Web site created using create-react-app" />
8   <link
9     href="https://fonts.googleapis.com/css2?family=Urbanist:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900;2,100;2,200;2,300;2,400;2,500;2,600;2,700;2,800;2,900;3,100;3,200;3,300;3,400;3,500;3,600;3,700;3,800;3,900;4,100;4,200;4,300;4,400;4,500;4,600;4,700;4,800;4,900;5,100;5,200;5,300;5,400;5,500;5,600;5,700;5,800;5,900;6,100;6,200;6,300;6,400;6,500;6,600;6,700;6,800;6,900;7,100;7,200;7,300;7,400;7,500;7,600;7,700;7,800;7,900;8,100;8,200;8,300;8,400;8,500;8,600;8,700;8,800;8,900;9,100;9,200;9,300;9,400;9,500;9,600;9,700;9,800;9,900" rel="stylesheet">
10   <style>
11     {
12       margin: 0;
13       font-family: 'Urbanist', sans-serif;
14     }
15   </style>
16   <title>React App</title>
17 </head>
18
19
20 <body>
21   <noscript>You need to enable JavaScript to run this app.</noscript>
22   <div id="root"></div>
23 </body>
24
25 </html>

```

The number of foldable regions is limited to a maximum of 5000. Incre...

Ln 1, Col 1 Spaces: 2 UTF-8 LF HTML Go Live Spell Prettier

35°C 21-04-2022 14:59

The screenshot shows the Visual Studio Code editor with the 'index.html' file open. The Explorer sidebar on the left shows the project structure: 'PROJECT E-COMMERCE' with subfolders 'node_modules', 'public', and 'src'. The 'public' folder contains 'index.html', 'package-lock.json', 'README.md', and 'yarn.lock'. The 'index.html' file is selected and its content is displayed in the main editor area. The code is a basic HTML template for a React application, including a DOCTYPE declaration, HTML lang attribute, head section with meta tags for charset, viewport, and description, a link to a Google Fonts stylesheet, a style block for the body, and a body section with a noscript message and a root div.

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1 <!DOCTYPE html>
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9     href="https://fonts.googleapis.com/css2?family=Urbanist:ital,wght@0,100;0,200;0,300;0,400;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,800;1,900"
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