

ONE STOP – A MULTIFEATURE WEB APPLICATION

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

by

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INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Accredited with Grade “A” by NAAC
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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **Sri Swetha G (39120120)** and **Saranya M (39120103)** who carried out the Project Phase-2 entitled "ONE STOP – A MULTI FEATURE WEB APPLICATION" under my supervision from January 2023 to May 2023.

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I, Sri Swetha G (Reg.No- 39120120), hereby declare that the Project Phase-2 Report entitled “ONE STOP – A MULTI FEATURE WEB APPLICATION” done by me under the guidance of Dr. V. Nirmalrani, M. Tech., Ph. D. is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in INFORMATION TECHNOLOGY.



DATE: 11-05-2023.

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ABSTRACT

Angular is a platform and framework for building single-page client applications using HTML and Type Script. It implements core and optional functionality as a set of Type Script libraries that we import into our applications. The architecture of an Angular application relies on certain fundamental concepts. The basic building blocks are the Ng Modules. In this project many components are created and routes are been set up between each components for the dynamic motion of one page to another page. In One Stop Web Application, users can login themselves (can register if there is no login), thereby accept to the terms and conditions and can make use of the services such as **Ticket reservation, Food delivery, Hotel accommodation and Pharmacy**. The entire application will be connected to the backend for data collection purpose. Not only all services, the user can make use of a single service as well. One Stop application becomes a complete travel package for the passengers & reduces passengers' effort and time. This application helps the user in ordering food, purchasing medicines, booking train tickets & finding accommodation in top hotels in and around the respective city.

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CHAPTER 1

INTRODUCTION

In this busy and hectic schedule, time management plays a vital role. One Stop application has the following four features. Online food delivery app, online pharmacy, online ticket reservation system & online hotel accommodation booking system. One Stop application becomes a complete travel package for the passengers & reduces passengers' effort and time. This application helps the user in ordering food, purchasing medicines, booking train tickets & finding accommodation in top hotels in and around the respective city. To enable users to complete their entire process in a single place, especially helps for travelers. To implement multi user application using angular and implementing routes among the components. There exists a separate login for admin, so that the admin can keep track of the users using the application. To make a record of the users using the application with the backend connected server. To register themselves and login using respective login credentials and make use of the respective service needed. You may increase accuracy by streamlining your business procedures with the use of web applications. A custom web application is entirely flexible and adjustable to your business's demands and growth because it is created particularly to meet your company's needs. Because SAAS libraries are adaptable, the motion future of web design may be intriguing. In order to create fully responsive apps, developers can easily integrate UI/UX components with CSS, HTML, and JavaScript. A typical web application collects the user data by interacting via Html pages, JavaScript, Angular framework etc. The requests and responses are processed by Java and the processed data will be transferred to web server and stored in SQL database. The application is encrypted using SHA-256 algorithm and all the components are encrypted using the algorithm. Once the user logs in, the data will be collected and verified. Only the authenticated users will be allowed to process further, if not, they will not be allowed further. The main aim of this application is to make sure that the passengers can make use of all the services from their place itself with single login. They can not only have to make use of all components, but can make use of the component of their wish. All the components are locked using angular lock and only after proper completion of certain step, user will be directed further. The entire application has single login which helps in reducing efforts and time of the users.

CHAPTER 2

LITERATURE SURVEY

2.1 INFERENCES FROM LITREATURE SURVEY

In the consumer-ruled environment of the Web, where competition is just a click away, good Web design is essential for keeping users on site. The key factor in good site design is usability, which means the ability of a user to accomplish tasks with ease, efficiency, and accuracy. The basic principles of usability can be organized into to three categories, those related to: 1) page design, 2) content design and 3) site design. The two most important factors in usability are speed and information architecture.

[1] Lianyong Qi – Data driven web apis:

The ever-increasing popularity of web APIs allows app developers to leverage a set of existing web APIs to achieve their sophisticated objectives. The heavily fragmented distribution of web APIs makes it challenging for an app developer to find appropriate and compatible web APIs. Currently, app developers usually have to manually discover candidate web APIs, verify their compatibility and select appropriate and compatible ones.

[2] Pawn Singh – Web Development using Angular:

Three open-source, ISC-licensed tools that improve the experience of web programmers who use jsonld.js, the official JSON-LD JavaScript library. Two of these tools are for NodeJS, which is primarily a backend framework, with which one can manage servers using JavaScript.

[3] Jarek Francik – User experience design in web applications.

Web applications differ from web sites as they have wide range of interactive features/functionalities and dynamic content. The content delivered via thin client or server driven architecture varies in size, structure and visual design. To accommodate such rich content care should be taken when designing user interface.

[4] Grega Jokus – New technologies for web development.

Semantic Web Service technology provides a strong support for automation software development based on Web service. By analyzing the existing description models and methods of semantic Web service, a Semantic Web Service Description Model (WSDM4S) and its formal description based on SHOIN+(D) are proposed, which attempt to offer an effective model for description, publication, discovery, composition, and execution of Web services based on semantic description.

[5] Amit Sheth – Services Mashups: The New Generation of Web Applications.

Web services are becoming a major technology for deploying automated interactions between distributed and heterogeneous applications, and for connecting business processes. Service mashups indicate a way to create new Web applications by combining existing Web resources utilizing data and Web APIs. They facilitate the design and development of novel and modern Web applications based on easy-to-accomplish end-user service compositions.

[6] Hongen Lu - Semantic Web Services discovery and ranking:

The World Wide Web is evolving from a huge information repository to a service oriented marketplace. Web service is becoming the next generation of Web based application. Due to the dramatic increasing number of available Web services, how to locate the right services is a big challenge. In this paper, a new approach is proposed for Web services matching within the UDDI registry, based on the matching results a ranking process significantly reduce the number of recommended services and increase the accuracy. This process is based on semantics in domain ontology.

2.2 OPEN PROBLEMS IN EXISTING SYSTEM

1. The existing system, as it has more components, it takes much more space for loading all those components.
2. Only limited modules or components got attached to backend which results in loss of user data.
3. Security or authentication is good for any website, but for a single website, one authentication or login is enough, instead of having login for each and every component.
4. At the same time, logging in multiple times may lead to clash between servers and end up with flaws.
5. Another problem deals with passwords. Setting different passwords for each component may lead to lack of remembrance of passwords which is quite critical.

CHAPTER 3

REQUIREMENT ANALYSIS

3.1 SOFTWARE REQUIREMENTS SPECIFICATION DOCUMENT:

The requirements for this One Stop multi feature web application are

Angular Cli:

1. Angular CLI is the official tool for initializing and working with Angular projects.
2. It saves you from the hassle of complex configurations and build tools like TypeScript, Webpack, and so on.
3. After installing Angular CLI, you'll need to run one command to generate a project and another to serve it using a local development server to play with your application.

Java:

Java is one such programming language and was designed to create content for the early World Wide Web. It has evolved into one of the best and most comprehensive tools for the creation of enterprise websites, mobile applications, and other server-side and client-side software technologies. It is an object-oriented language, which means that everything in the Java programming language is an “object”; this allows Java web developers greater flexibility to easily create custom code.

Workspace – Juno Eclipse:

It is an integrated development environment (IDE) used in computer programming. It contains a base workspace and an extensible plug-in system for customizing the environment. It is the second-most-popular IDE for Java development, and, until 2016, was the most popular. Eclipse is written mostly in Java and its primary use is for developing Java applications. Users can extend its abilities by installing plug-ins written for the Eclipse Platform, such as development toolkits for other programming languages, and can write and contribute their own plug-in modules.

Backend – MySQL Query Browser:

MySQL is an open-source relational database management system (RDBMS). A relational database organizes data into one or more data tables in which data may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database. In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups. Here a dummy database containing all the component details will be present. For example, the list of trains, locations, food, hotels, restaurants and medicines will be present and can be edited by the admin. It can be edited using query or manual editing.

Components for the application:

- [1] Admin Login component
- [2] User Login component
- [3] Terms and Conditions component
- [4] Train Ticket Reservation component

[5] Food Order component

[6] Hotel Accommodation component

[7] Pharmacy component

Routes among components:

In a single-page app, you change what the user sees by showing or hiding portions of the display that correspond to particular components, rather than going out to the server to get a new page. As users perform application tasks, they need to move between the different views that you have defined. To handle the navigation from one view to the next, you use the Angular Router. The Router enables navigation by interpreting a browser URL as an instruction to change the view.

Backend:

1. The backend is the server-side of the website. It stores and arranges data, and also makes sure everything on the client-side of the website works fine.
2. It is the part of the website that you cannot see and interact with.
3. It is the portion of software that does not come in direct contact with the users. Backend Frameworks - right software backend frameworks are the foundation that makes applications/ websites faster.
4. They are considered an essential aspect of web development projects since they provide much-needed interactivity for web applications.
5. The back end of a website comprises things like servers, databases, operating systems, APIs, and more.
6. All of which come together to ensure that the user is served with the correct information as quickly as possible.
7. Backend includes three major parts:

- i. The server - This is the computer that receives requests.
 - ii. The app - This is the application running on the server that listens for requests, retrieves information from the database, and sends a response.
 - iii. The database - Databases are used to organize and persist data.
8. It is responsible for storing and organizing data, and ensuring everything on the client-side actually works. The backend communicates with the frontend, sending and receiving information to be displayed as a web page.
 9. The backend of a website is a combination of servers, applications, and databases. Code written by backend developers helps browsers in communicating with the databases and store data into the database, read data from the database, update the data and delete the data or information from the database.
 10. It acts as a Service platform automates server-side development and handles the underlying infrastructure. It delivers ready-to-use backend building blocks, allows users to outsource the infrastructure management, and is used by app developers to build web and mobile apps.

3.2 SYSTEM USE CASE:

The use case diagram is the main building block of object oriented modeling. It is used for both general conceptual modeling of the systematic of the application and for detailed modeling translating the models into programming code. It models the tasks, services, and functions required by a system/subsystem of an application. It depicts the high-level functionality of a system and also tells how the user handles a system. The main purpose of a use case diagram is to portray the dynamic aspect of a system. It accumulates the system's requirement, which includes both internal as well as external influences. It invokes persons, use cases, and several things that invoke the actors and elements accountable for the implementation of use case diagrams. It represents how an entity from the external environment can interact with a part of the system.

Following are the purposes of a use case diagram given below:

1. It gathers the system's needs.
2. It depicts the external view of the system.
3. It recognizes the internal as well as external factors that influence the system.
4. It represents the interaction between the actors.

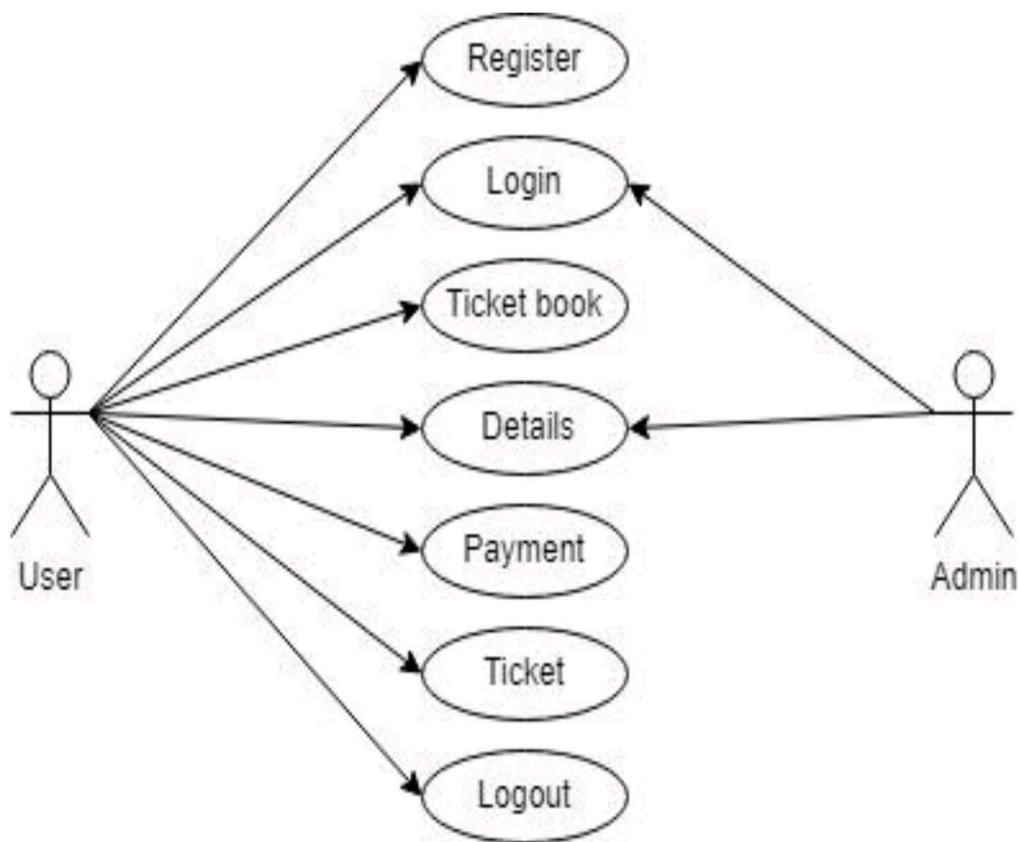


Fig 3.1: Use Case Diagram of One Stop

CHAPTER 4

DESCRIPTION OF PROPOSED SYSTEM

4.1 SELECTED METHODOLOGY OR PROCESS MODEL

- i. The first step is to create the components that are to be used in webpage once after installing junos eclipse and angular cli.
- ii. The installed project is opened by importing the folder into junos eclipse.
- iii. For all the coding purposes between the components, code are written from scratch i.e. eclipse.
- iv. After creating components like the admin login, user login, register, terms and conditions, ticket reservation, food delivery, hotel accommodation, pharmacy, write code for the respective html and type script.
- v. Once after writing code for the respective component, import all routes for those components using routing component.
- vi. The main task is to connect the application to backend in order to collect the users information.
- vii. It is done by creating a folder in MySQL query browser and thereby connecting the application with the query browser.
- viii. For the security purpose of payment related tasks, SHA-256 algorithm is used. SHA 256 is a part of the SHA 2 family of algorithms, where SHA stands for Secure Hash Algorithm. Published in 2001, it was a joint effort between the NSA and NIST to introduce a successor to the SHA 1 family, which was slowly losing strength against brute force attacks. The significance of the 256 in the name stands for the final hash digest value, i.e. irrespective of the size of plaintext/clear text, the hash value will always be 256 bits. The other algorithms in the SHA family are more or less similar to SHA 256.

4.2 ARCHITECTURE / OVERALL DESIGN OF PROPOSED SYSTEM

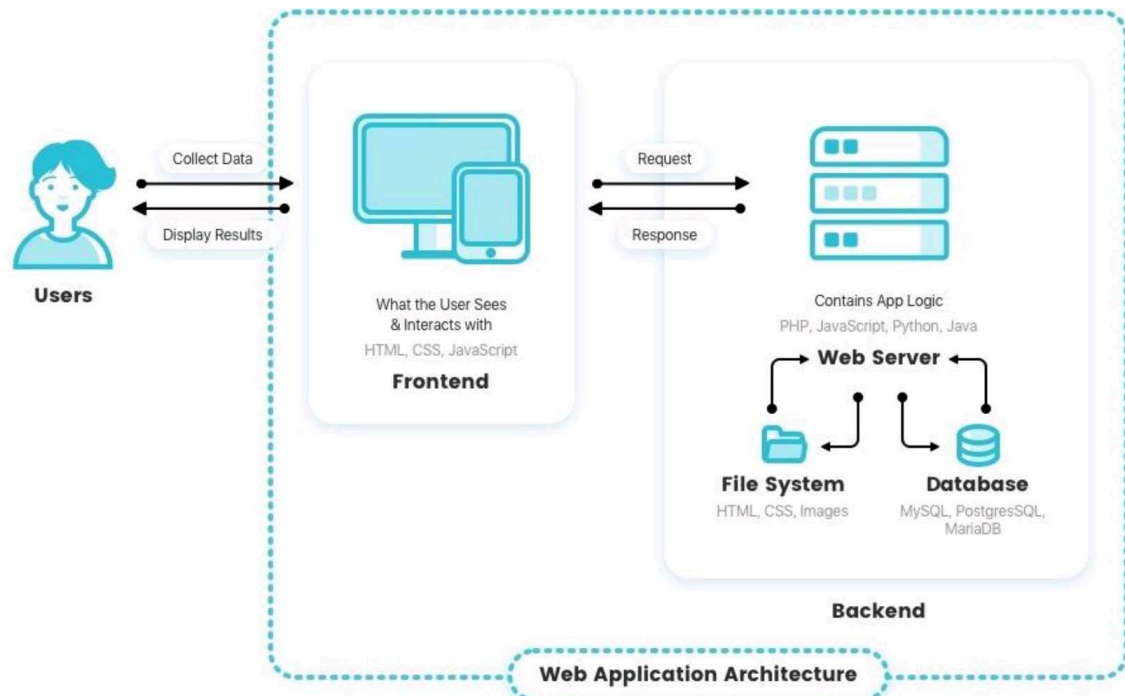


Fig 4.1: System Architecture for One Stop Application

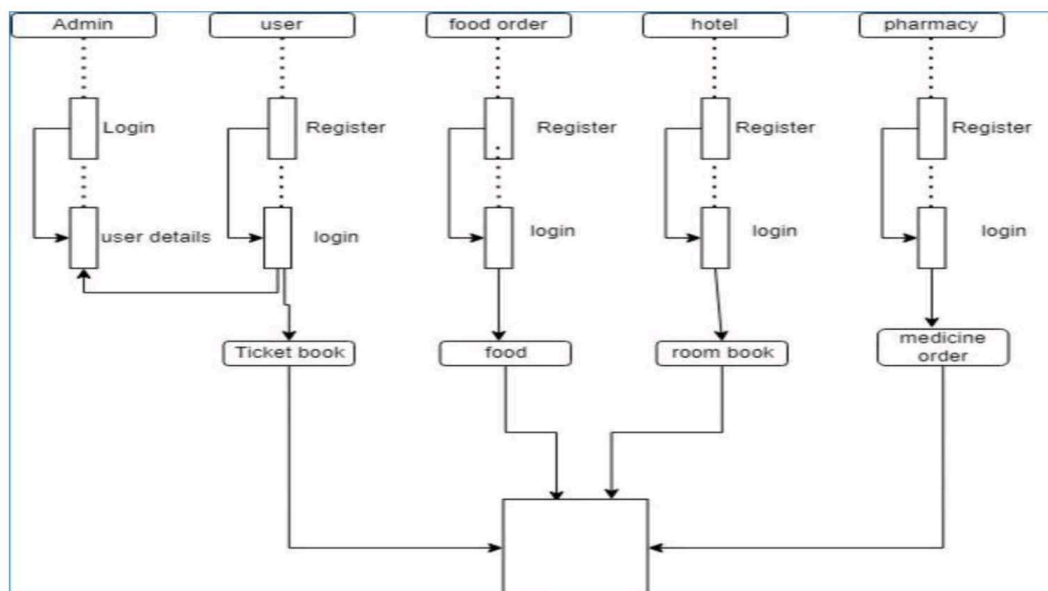


Fig 4.2: Flow Diagram of One Stop Application

4.3 DESCRIPTION OF SOFTWARE FOR IMPLEMENTATION AND TESTING PLAN OF THE PROPOSED MODEL / SYSTEM:

- i. The Angular JS framework works by first reading the Hypertext Mark-up Language (HTML) page, which has additional custom HTML, CSS and Bootstrap attributes embedded into it.
- ii. Angular interprets those attributes as directives to bind input or output parts of the page to a model that is represented by standard JavaScript variables.
- iii. The values of those JavaScript variables can be manually set within the code, or retrieved from static or dynamic JSON resources.
- iv. Angular JS is a toolset for building the framework most suited to your application development.
- v. It is fully extensible and works well with other libraries.
- vi. Every feature can be modified or replaced to suit your unique development workflow and feature needs.

4.4 PROJECT MANAGEMENT PLAN:

- i. The users register themselves.
- ii. Make use of the provided services in One Stop application.
- iii. The app is made up of Angular and Java frameworks. For backend purpose, the application is connected to MySQL database.
- iv. The components gets loaded within a single page i.e., single page web application.
- v. This helps in reducing the time and efforts of the users in this busy and hectic schedule.
- vi. As this project is a single website for fulfilling all users' needs, this helps more in time management.
- vii. There exists Angular routes, that helps in moving to next component in a single page process.

CHAPTER 5

IMPLEMENTATION

5.1 MODULES INVOLVED IN APPLICATION:

- **ADMIN MODULE:**

Administrator is head of utilization and will be logging in and can see the list of users registered.

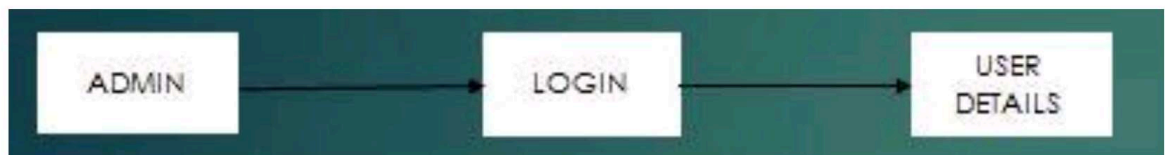


Fig 5.1: Admin Module

- **USER MODULE:**

In this module, users register themselves and login. After that they'll be directed to the next module.

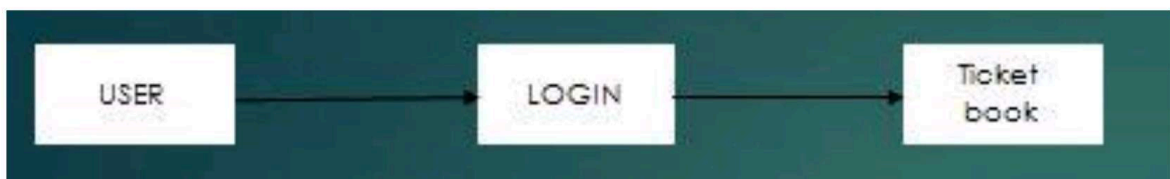


Fig 5.2: User Module

- **TRAIN TICKET RESERVATION MODULE:**

In this module, the users can search list of trains from their place to their designation and can book tickets and receive tickets.

- **FOOD ORDERING MODULE:**

Users can select the city name and select the restaurant followed by ordering food. Payment process is also included.



Fig 5.3: Food Ordering Module

- **HOTEL ACCOMMODATION MODULE:**

In this module, users can search accommodation in and around the city and can book rooms and can pay the cost of accommodation.



Fig 5.4: Hotel Accommodation Module

- **PHARMACY MODULE:**

Users can get medicines in their place by entering the medication details and further processed by payment process.

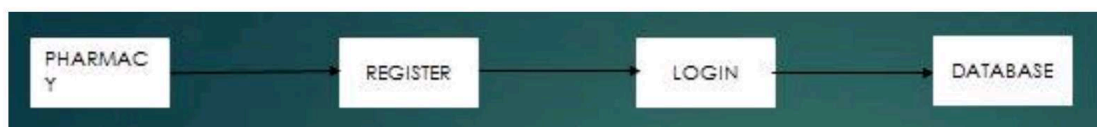


Fig 5.5: Pharmacy Module

5.2 ALGORITHM:

SHA-256 hashing algorithm is used for processing all those operations needed for the application to run and store the respective user data. Hashing is the process of scrambling raw information to the extent that it cannot reproduce it back to its original form. It takes a piece of information and passes it through a function that performs mathematical operations on the plaintext. This function is called the hash function and the output is called the hash value/digest.



Fig 5.6: Encryption using Hash function

As seen from the above image, the hash function is responsible for converting the plaintext to its respective hash digest. They are designed to be irreversible, which means your digest should not provide you with the original plaintext by any means necessary. Hash functions also provide the same output value if the input remains unchanged, irrespective of the number of iterations.

There are two primary applications of hashing:

- **Password Hashes:** In most website servers, it converts user passwords into a hash value before being stored on the server. It compares the hash value re-calculated during login to the one stored in the database for validation.



Fig 5.7: Authentication using Hash function

- **Integrity Verification:** When it uploads a file to a website, it also shared its hash as a bundle. When a user downloads it, it can recalculate the hash and compare it to establish data integrity.

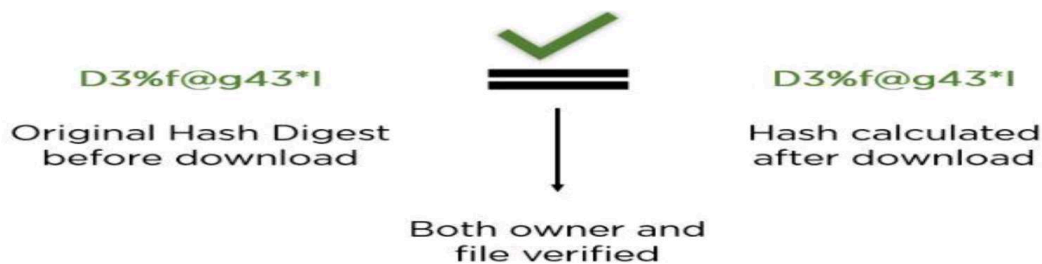


Fig 5.8: Verification using Hash function

CHAPTER 6

RESULTS AND DISCUSSION

The One Stop Web application using Angular framework, Java and MySQL services aims to improve customer interaction and reduces their efforts as it has multiple components and acts as a complete travel package. Especially, it acts as a life-changer for old people and people with health problems. In security point of view, the SHA-256 type of hash algorithm does all those authentication and verification tasks. The algorithm acts as a lock for the application and allows only the authorized users after verification process. It also protects the payment source and its details in an efficient manner and makes the application more appreciative. The various characteristics of the hash algorithm such as message length, digest length and irreversible properties defines the requirements of the algorithm to perform the undergoing authentication process. This type of hashing algorithm gives an unbreakable bond for the security of the application. The main advantage of this application is the user can get their services in their place without any effort and all under a single login. Therefore One Stop multi feature web application acts as a single solution for all the problems faced by the travelers.

CHAPTER 7

CONCLUSION

7.1 CONCLUSION:

In conclusion, the proposed multi-feature application aims to reduce the time and efforts of users or travelers. It also acts as an all-in-one solution for the people who need to travel as travelling gives mental peace in this stressful world. The SHA-256 algorithm gives more protection to the details being passed via application and the users accessing the app. The details are collected from the passengers and are kept safe and secure. The main advantage is the users can not only use all the components, but can use any components irrespective of their choice.

7.2 FUTURE WORK:

- In future execution, payment gateway can be fixed for each and every component to work as real-time application.
- Furthermore modules can be added to the application such as shopping feature, getting daily needs etc.

MERITS:

- Safe and Secure.
- Analyze the file list then control the users.
- Handles payment work securely.

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APPENDIX

A. SOURCE CODE:

[1] Admin Login Component:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Admin Login</title>
<style>

body{
background: #232526; /* fallback for old browsers */
background: -webkit-linear-gradient(to right, #414345, #232526); /* Chrome 10-25, Safari
5.1-6 */
background: linear-gradient(to right, #414345, #232526); /* W3C, IE 10+/ Edge, Firefox
16+, Chrome 26+, Opera 12+, Safari 7+ */
background:linear-gradient(rgba(0,0,0,0.6),                                rgba(0,0,0,0.5)),
url("https://images.unsplash.com/photo-1455218873509-
8097305ee378?auto=format&fit=crop&w=334&q=80");
background-size:cover;

}

.mobile{
height:480px;
width:270px;

margin: 20px auto;
position:relative;
margin-top: 60px;
}

.top-bar{
height:15px;
width:100%;
position:absolute;
top:0;
background:#222;
}
```

```

img{
  position:relative;
  height:35%;
  width:35%;

  margin:0px 32.5%;

}
.screen{
  width:100%;
  height:465px;
  background-color: black;

  position:absolute;
  bottom:0;
}

nav{
  height:40px;
  width:100%;
  float:left;

}

.title{
  padding:10px;
  font-family:'Lato';
  float:left;
  color:white;
  letter-spacing:1px;

}

.icon{
  height:40px;
  width:40px;
  float:right;

  margin:0 10px;
  box-sizing:border-box;
  padding:7px 8px;

}

```

```
.login{
  width:100%;
  height:auto;
  padding:10px 0;
  box-sizing:border-box;
  text-transform:uppercase;
  font-family:'Lato';
  color:white;
  font-size:40px;
  font-weight:300;
  text-align:center;
  margin-top:10px;
}
```

```
.underline{
  width:30%;
}
```

```
form{
  text-align:center;
}
```

```
.field{
  margin-bottom:10px;
  height:20px;
  width:70%;
  background:none;
  border:none;
  border-bottom:1px solid #3498db;
  color:white;
  outline:none;
  padding:0 5px;
  transition:all 200ms ease-in-out;
}
```

```
.field:focus{
  padding:3px 3px;
  background:rgba(255,255,255,0.2);
  border-bottom:3px solid #3498db;
  transition:all 200ms ease-in-out;
```

```

}

.field::placeholder{
color:#AAA;
}

.password{
border-bottom:1px solid #e74c3c;
}

.password:focus{

border-bottom:3px solid #e74c3c;

}

input[type='submit']
{
background:none;
border:none;
padding:10px;
color:#e74c3c;
margin-top:30px;
text-transform:uppercase;
cursor:pointer;
letter-spacing:1px;
font-family:'Lato';
border:2px solid #e74c3c;
border-radius:10px;
outline:none;
transition:all 300ms ease-in-out;
}

input[type='submit']:hover{
background:#e74c3c;
color:white;
transition:all 300ms ease-in-out;
}
</style>
</head>
<body>
<div class="mobile">
<div class="top-bar">
</div>

```

```

<div class="screen">
  <nav>
    <div class="title">Admin</div>
    <div class="icon"><svg style="width:24px;height:24px" viewBox="0 0 24 24">

</svg></div>
  </nav>

  <div class="login">Login<hr class="underline"></div>
  <form action="Adminloginservlet" method="post" autocomplete="off">
    <input type="email" class="field username" name="email" placeholder="Username"
required><br><br><br>
    <input type="password" class="field password" name="pass" placeholder="Password"
required><br>
    <input type="submit">

  </form>

</div>
</div>
</body>
</html>

```

[2] User Login Component:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>User Login</title>
<style>
html {
  height: 100%;
}
body {
  margin:0;
  padding:0;
  font-family: sans-serif;
  background: linear-gradient(#e66465, #719);
}

.login-box {
  position: absolute;

```

```

top: 50%;
left: 50%;
width: 400px;
padding: 40px;
transform: translate(-50%, -50%);
background: linear-gradient(#e66465, #9198e5);
box-sizing: border-box;
box-shadow: 0 15px 25px rgba(0,0,0,.6);
border-radius: 10px;
}

```

```

.login-box h2 {
margin: 0 0 30px;
padding: 0;
color: #fff;
text-align: center;
}

```

```

.login-box .user-box {
position: relative;
}

```

```

.login-box .user-box input {
width: 100%;
padding: 10px 0;
font-size: 16px;
color: #fff;
margin-bottom: 30px;
border: none;
border-bottom: 1px solid #fff;
outline: none;
background: transparent;
}

```

```

.login-box .user-box label {
position: absolute;
top:0;
left: 0;
padding: 10px 0;
font-size: 16px;
color: #fff;
pointer-events: none;
transition: .5s;
}

```

```
.login-box .user-box input:focus ~ label,
.login-box .user-box input:valid ~ label {
  top: -20px;
  left: 0;
  color: #03e9f4;
  font-size: 12px;
}
```

```
.login-box form a {
  position: relative;
  display: inline-block;
  padding: 10px 20px;
  color: #03e9f4;
  font-size: 16px;
  text-decoration: none;
  text-transform: uppercase;
  overflow: hidden;
  transition: .5s;
  margin-top: 40px;
  letter-spacing: 4px
}
```

```
.login-box a:hover {
  background: #03e9f4;
  color: #fff;
  border-radius: 5px;
  box-shadow: 0 0 5px #03e9f4,
              0 0 25px #03e9f4,
              0 0 50px #03e9f4,
              0 0 100px #03e9f4;
}
```

```
.login-box a span {
  position: absolute;
  display: block;
}
```

```
.login-box a span:nth-child(1) {
  top: 0;
  left: -100%;
  width: 100%;
  height: 2px;
  background: linear-gradient(90deg, transparent, #03e9f4);
  animation: btn-anim1 1s linear infinite;
```

```

    }
    button{
padding:10px 20px;
cursor:pointer;
    }

</style>

</head>
<body>

<div class="login-box">
    <h2>Login</h2>
    <form action="loginservlet" method="post" autocomplete="off">

        <div class="user-box">
            <input type="email" name="email" required="">
            <label>Email</label>
        </div>
        <div class="user-box">
            <input type="text" name="name" required="">
            <label>UserName</label>
        </div>
        <div class="user-box">
            <input type="password" name="pass" required>
            <label>Password</label>
        </div>

        <button>Submit</button>
        <br>
        <br>
        <a href="register.jsp">Register here</a> &nbsp;

    </form>
</div>

</body>
</html>

```

[3] Terms and Conditions Component:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Terms and Conditions</title>
</head>
<body style="background-image:url(images/air.jpg)">
<div class="container" >
  <div style="margin-top:50px;" class="mainbox col-md-6 col-md-offset-3 col-sm-8 col-sm-
offset-2">
    <div class="panel panel-info" >
      <div class="panel-heading">
        <div class="panel-title" style="text-align: center;font-size:30px"><b>Our Terms
and Conditions</b></div>
      </div>
      <div style="background-color:grey; margin:100px; color:white">
        <form>
          <div style="margin-bottom: 25px ; margin-right: 20px; margin-top:
20px;padding-top:10px" class="input-group">
            <h5 style="margin-left: 13px"><b> TICKET RESERVATION
:</b></h5><br>
            <ol>
              <li>Advance reservations are made generally up to 90 days in advance for
all classes and all trains.</li><br>
              <li>An individual can book only up to six passengers on one requisition
form provided all passengers are for the
                same destination and for the same train.</li><br>
              <li>Accommodation will not be reserved without purchase of necessary
journey ticket. No reservation of
                accommodation will be made on provisional basis.</li><br>
              <li>Passengers are requested to quote PNR number which is printed on each
tickets on the top left hand side
                for any enquiry or complaint relating to reservations.</li><br>
            </ol>
          </div>
          <div style="margin-bottom: 25px ; margin-right: 20px; margin-top: 10px;
margin-left: 20px;" class="input-group">
            <h5><b>FOOD DELIVERY :</b></h5><br>
            <ol>
```

One Stop is not responsible for any kind of order cancelation or approval. Delivery time, Taxes, Delivery Charges and Delivery times are decided by the restaurant owner.

In case of payment did by mistake or in case of any payment related issues for food ordered with Foodchow, we are not entitled to refund any amount.

In case of misbehaviour, miscommunication or any illegal activities done by customer and restaurant registered here, we will not be responsible for any such activities as we are not taking any proof of their identity.

If we notice any illegal activity then we have all rights to permanently Block your account without any notice and reasons.

</div>

<div style="margin-bottom: 25px ; margin-right: 20px; margin-top: 10px; margin-left: 20px;" class="input-group">

<h5>PHARMACY :</h5>

You are at least 18 years old or accessing the APL Platform under the supervision of a parent or guardian, who in such a case will be deemed as the recipient.

One Stop does not guarantee to deliver your order within a period of two hours and delivery within the said timeline is subject to aforesaid multiple factors.

Customers can cancel their order anytime up to the cut-off time of the slot. In such a case, we will refund any payments already made by you for the order.

We have made every effort to display the colors of our products that appear on the Website and app as accurately as possible. However, as the actual colors you see will depend on your monitor, we cannot guarantee that your monitor's display of any color will be accurate.

</div>

<div style="margin-bottom: 25px ; margin-right: 20px; margin-top: 10px; margin-left: 20px;" class="input-group">

<h5>HOTEL ACCOMMODATION :</h5>

Contracts for accommodation and related agreements to be entered into between this Hotel and the Guest to be accommodated shall be subject to these Terms and Conditions.

The Hotel may refuse to conclude an Accommodation Contract under any of the following circumstances if All the guest rooms in the Hotel are booked.

An Accommodation Contract shall be deemed to have been concluded when the Hotel has duly accepted the application as stipulated in the preceding article.

The Guest shall register the following particulars at the front desk of the Hotel on the day of accommodation:

Name, age, gender, nationality, and occupation of the Guest,
passport number (if foreigner), date and estimated time of departure and
other particulars deemed necessary by the Hotel.

</div>

<div style="margin-bottom: 25px ; margin-right: 20px; margin-top: 10px;
margin-left: 20px;" class="input-group">

<input type="checkbox" required> I hereby agree to abide by the terms and
conditions as provided by the One Stop Board of Multi-feature Application Council.

</div>

<button style="background-color: pink; color: white; margin-top: 40px; margin-
bottom: 80px; margin-left: 540px; padding: 10px"> Next</button>

</form>
</div>

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

</body>
</html>

[4] Train Ticket Reservation Component:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
```

```
<title>Journey Details</title>
```

```
<style>
```

```
@import
```

```
url('https://fonts.googleapis.com/css2?family=Merriweather&family=Open+Sans&display=sw
ap');
```

```
*,
```

```
*::before,
```

```
*::after {
```

```
    box-sizing: border-box;
```

```

}

body {
  width: 100%;
  height: auto;
  margin: 0;
  background: url("images/getty.jpg");
  background-repeat: no-repeat;
  background-size: 1400px 1200px;
  font-family: 'Open Sans', sans-serif;
  font-size: 1.2rem;
  line-height: 1.618;
  color: black;
}

h1 {
  font-size: 2rem;
  font-family: 'Merriweather', serif;
  text-transform: uppercase;
}

h1, p {
  margin: 1em auto;
  text-align: center;
}

form {
  width: 60vw;
  max-width: 500px;
  min-width: 300px;
  margin: 0 auto;
  padding-bottom: 2em;
}

fieldset {
  border: none;
  padding: 1.2rem 0;
}

label {
  font-size: 1rem;
  font-weight: bold;
  display: block;
  margin: 0.5rem 0;
}

```

```

}

.inline {
  width: unset;
  margin: 0 0.5em 0 0;
  vertical-align: middle;
}

input,
textarea,
select {
  margin: 7px 0 0 15px;
  width: 100%;
  min-height: 2em;
}

select, .room {
  width: 7rem;
  padding: 5px;
  border: none;
  background-color: rgba(255, 255, 255);
  box-shadow: rgba(0,0,0,.1) 0 0 8px;
}

select {
  position: relative;
  border-radius: 5px;
  display: inline-block;
}

input, textarea {
  border: none;
  border-radius: 5px;
  color: rgba(10, 10, 35, 0.7);
}

input[type="submit"] {
  display: block;
  width: 60%;
  margin: 1em auto;
  height: 2em;
  font-size: 1.1rem;
  background-color: #3b3b4f;
  border-color: white;
}

```

```

min-width: 300px;
color: inherit;
}

```

```

button{
background-color:#e7e7e7;
color:black;

```

```

}
a{
font-size:15px;
margin:0px;
}

```

```

</style>

```

```

</head>

```

```

<body>

```

```

<h1><b>Search Your Trains</h1>

```

```

<p>Please fill out this form with the required information</p>

```

```

<form action="ticketbookdetails" method="post" autocomplete="off">

```

```

<fieldset>

```

```

<label>From

```

```

<input type="text" name="from" required />

```

```

</label>

```

```

<label>To

```

```

<input type="text" name="to" required />

```

```

</label>

```

```

</fieldset>

```

```

<button style="background-color:green; color:white">Search Train</button>

```

```

</form>

```

```

</body>

```

[5] Food Order Component:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>

```

```

<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>foods.jsp</title>
<style>

#header{
    background-color: maroon;
    color: white;
    font-size: 15px;
    padding-top: 1px;
    padding-bottom: 1px;
    padding-left: 50px;

}
ul{
    margin-bottom: 20px;
    padding-bottom: 22px;
    position: static;
}
#menu{
    margin-left: 1000px;
    margin-right: 40px;
    padding-bottom: 20px;
}
#main{

    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
    height: 350px;
    padding-top: 150px;

}
#onestop{
    margin-top: 20px;
}
a:hover{
    background-color: black;
    height: 50px;
    padding-top: 2px;
    padding-right: 5px;

```

```

padding-left: 5px;
padding-bottom: 2px;

}
select{
padding:10px 40px;
}
button:hover{
padding:10px 30px;
background-color:green;
cursor:pointer;
}
button{
color:black;
padding:10px 30px;
}
body{
background-image: linear-gradient( rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),
url("images/food.jpg");
background-repeat: no-repeat;
background-size:1800px 800px;
}
.mydiv{
margin:100px 600px;
}
</style>
</head>
<body>
<form action="locationservlet" method="post">
<nav class="navbar navbar-inverse">
<div id="header">
    <span id="onestop"><h2 style="padding-top: 10px;padding-bottom: 10px; text-align:
center;">One Stop Food Ordering System</h2> </span>
</div>
<div id="main" style="padding-top: 55px; background-image:
url(../assets/images/food.jpg);background-repeat:no-repeat ;background-size: cover;">
    <span id="third" style="color: antiquewhite;font-size: 50px;margin-left: 330px">Order
Food Online</span><br><br>
    <span id="para" style="color: blanchedalmond;font-size: 20px;font-family:
cursive;margin-left: 400px;">Best restaurants in TamilNadu delivering to your
doorstep</span><br><br><br>
    <span id="loc" style="margin-left: 450px;">
        <select name="location">

```

```

        <option>Choose your location</option>
        <option>Ariyalur</option>
        <option>Chennai</option>
        <option>Dindigul</option>
        <option>Erode</option>
        <option>Karur</option>
        <option>Madurai</option>
        <option>Nagapattinam</option>
        <option>Perambalur</option>
        <option>Salem</option>
        <option>Tiruchirapalli</option>
        <option>Villupuram</option>
    </select>
</span>&nbsp;
<button>Find Restaurants</button>
</nav>
</form>
</body>
</html>

```

[6] Hotel Accommodation Component:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Hotel Accommodation</title>
<style>

#header{
    background-color: maroon;
    color: white;
    font-size: 15px;
    padding-top: 1px;
    padding-bottom: 1px;
    padding-left: 50px;
}
ul{
    margin-bottom: 20px;
    padding-bottom: 22px;
    position: static;

```

```

}
#menu{
margin-left: 1000px;
margin-right: 40px;
padding-bottom: 20px;
}
#main{
background-position: center;
background-repeat: no-repeat;
background-size: cover;
height: 350px;
padding-top: 150px;

}
#onestop{
margin-top: 20px;
}
a:hover{
background-color: black;
height: 50px;
padding-top: 2px;
padding-right: 5px;
padding-left: 5px;
padding-bottom: 2px;

}
select{
padding:10px 40px;
}
button:hover{
padding:10px 30px;
background-color:green;
cursor:pointer;
}
button{
color:black;
padding:5px 20px;
}
body{
background-image: linear-gradient( rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),
url("images/IdeaJz.jpg");
background-repeat: no-repeat;
background-size:1800px 800px;

```

```

}
.mydiv{
margin:100px 600px;
}

</style>
</head>
<body>
<form action="hotelservlet" method="post">
<nav class="navbar navbar-inverse">
<div id="header">
    <span id="onestop"><h2 style="padding-top: 10px;padding-bottom: 10px; text-align:
center;">One Stop Hotel Booking System</h2> </span>
</div>
<div id="main" style="padding-top: 55px; background-image:
url(../assets/images/food.jpg);background-repeat:no-repeat ;background-size: cover;">
    <span id="third" style="color: antiquewhite;font-size: 50px;margin-left: 330px">Order
Hotel Online</span><br><br>
    <span id="para" style="color: blanchedalmond;font-size: 20px;font-family:
cursive;margin-left: 400px;">Best Hotels in TamilNadu Book your
Rooms</span><br><br><br>
    <span id="loc" style="margin-left: 350px;">
<div class="mydiv" style="margin-left:300px">
    <select name="location" style="margin-left:2px">
        <option>Choose your location</option>
        <option>Ariyalur</option>
        <option>Chennai</option>
        <option>Dindigul</option>
        <option>Erode</option>
        <option>Karur</option>
        <option>Madurai</option>
        <option>Nagapattinam</option>
        <option>Perambalur</option>
        <option>Salem</option>
        <option>Tiruchirapalli</option>
        <option>Villupuram</option>
    </select>
    </span>&nbsp;
    <button >Find Restaurants</button>
    </div>
</nav>
</form>
</body>

```

</html>

[7] Pharmacy Component:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Pharmacy Location</title>
<style>
body{

background-image: url("images/medical.jpg")

}
#header{
background-color: white;
color: black;
font-size: 15px;
padding-top: 1px;
padding-bottom: 1px;
padding-left: 50px;

}
ul{
margin-bottom: 20px;
padding-bottom: 22px;
position: static;
}
#menu{
margin-left: 1000px;
margin-right: 40px;
padding-bottom: 20px;
}
#main{

background-position: center;
background-repeat: no-repeat;
background-size: cover;
```

```

height: 350px;
padding-top: 150px;

}
#onestop{
    margin-top: 20px;
}
a:hover{
    background-color: black;
    height: 50px;
    padding-top: 2px;
    padding-right: 5px;
    padding-left: 5px;
    padding-bottom: 2px;

}
select{
padding:10px 40px;
}
button:hover{
padding:10px 30px;
background-color:green;
cursor:pointer;
}
button{
color:black;
padding:10px 30px;
}
body{
background-image: linear-gradient( rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),
url("images/pharmacy.jpg");
background-repeat: no-repeat;
background-size:1800px 800px;
}
.mydiv{
margin:100px 600px;
}

</style>
</head>
<body>
<form action="pharmacynames.jsp" method="post">
<nav class="navbar navbar-inverse">

```

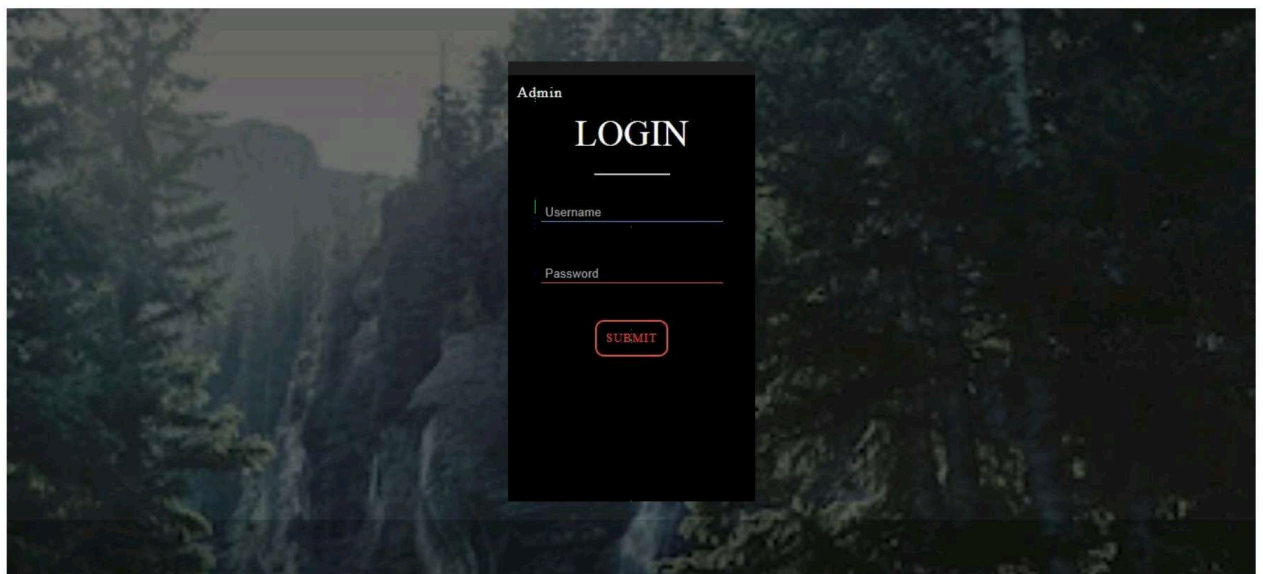
```

<div id="header">
  <span id="onestop"><h2 style="padding-top: 10px;padding-bottom: 10px; text-align:
center;">One Stop Medicine Booking System</h2> </span>
</div>
<div id="main" style="padding-top: 55px; background-image:
url(../assets/images/food.jpg);background-repeat:no-repeat ;background-size: cover;">
  <span id="third" style="color: antiquewhite;font-size: 40px;margin-left: 300px">Best
Pharmacy in TamilNadu Order to your Medicine</span><br><br>
  <span id="loc" style="margin-left: 450px;">
    <select name="location">
      <option>Choose your location</option>
      <option>Ariyalur</option>
      <option>Chennai</option>
      <option>Dindigul</option>
      <option>Erode</option>
      <option>Karur</option>
      <option>Madurai</option>
      <option>Nagapattinam</option>
      <option>Perambalur</option>
      <option>Salem</option>
      <option>Tiruchirapalli</option>
      <option>Villupuram</option>
    </select>
  </span>&nbsp;

  <button>Find Pharmacy</button>
</nav>
</form>
</body>
</html>

```

B. SCREENSHOTS



Login

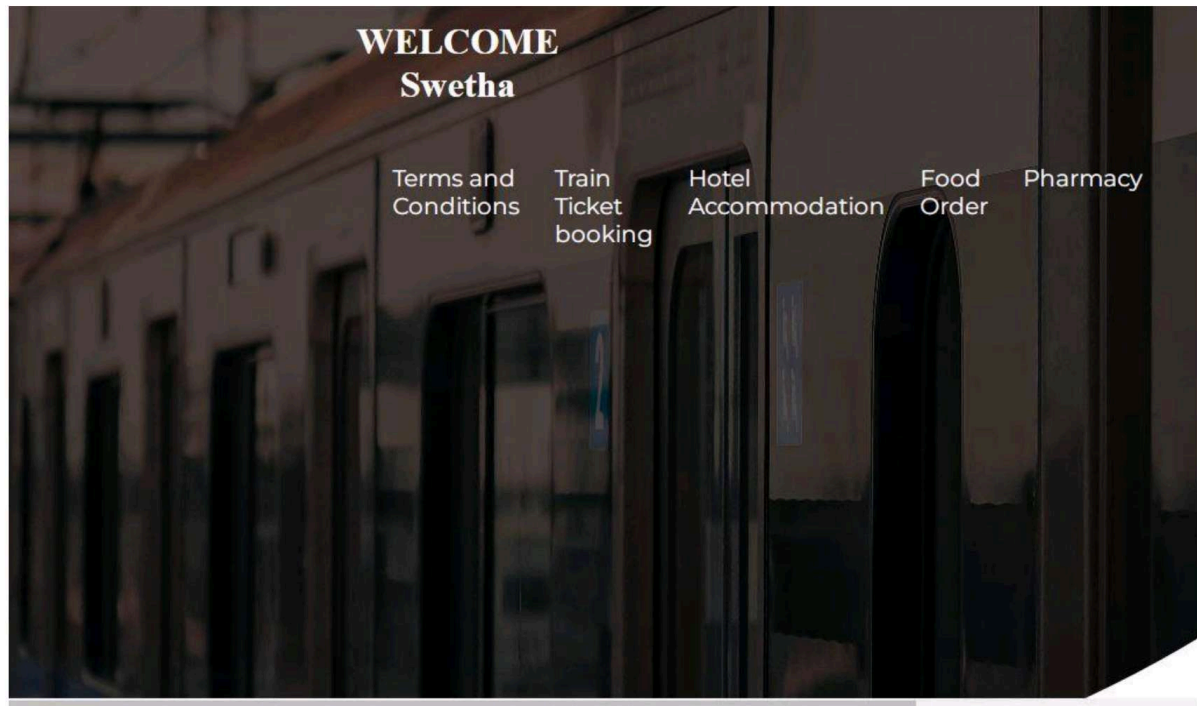
Email

UserName

Password

[REGISTER HERE](#)

Register



Our Terms and Conditions

TICKET RESERVATION :

1. Advance reservations are made generally up to 90 days in advance for all classes and all trains.
2. An individual can book only up to six passengers on one requisition form provided all passengers are for the same destination and for the same train.
3. Accommodation will not be reserved without purchase of necessary journey ticket. No reservation of accommodation will be made on provisional basis.
4. Passengers are requested to quote PNR number which is printed on each tickets on the top left hand side for any enquiry or complaint relating to reservations.

FOOD DELIVERY :

1. One Stop is not responsible for any kind of order cancelation or approval. Delivery time, Taxes, Delivery Charges and Delivery times are decided by the restaurant owner.
2. In case of payment did by mistake or in case of any payment related issues for food ordered with Foodchow, we are not entitled to refund any amount.
3. In case of misbehaviour, miscommunication or any illegal activities done by customer and restaurant registered here, we will not be responsible for any such activities as we are not taking any proof of their identity.

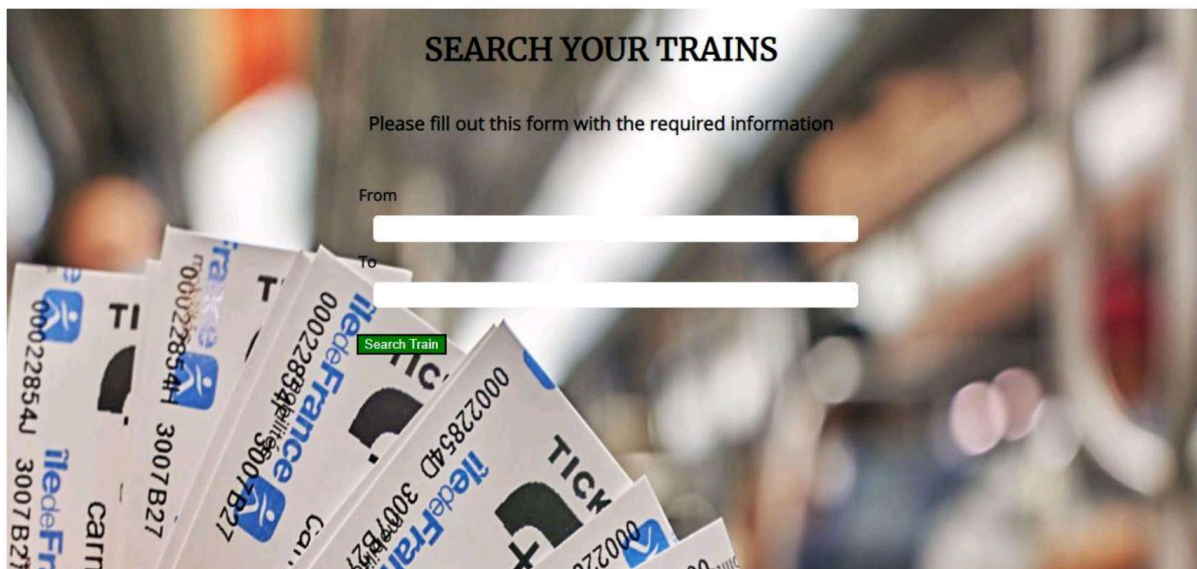
SEARCH YOUR TRAINS

Please fill out this form with the required information

From

To

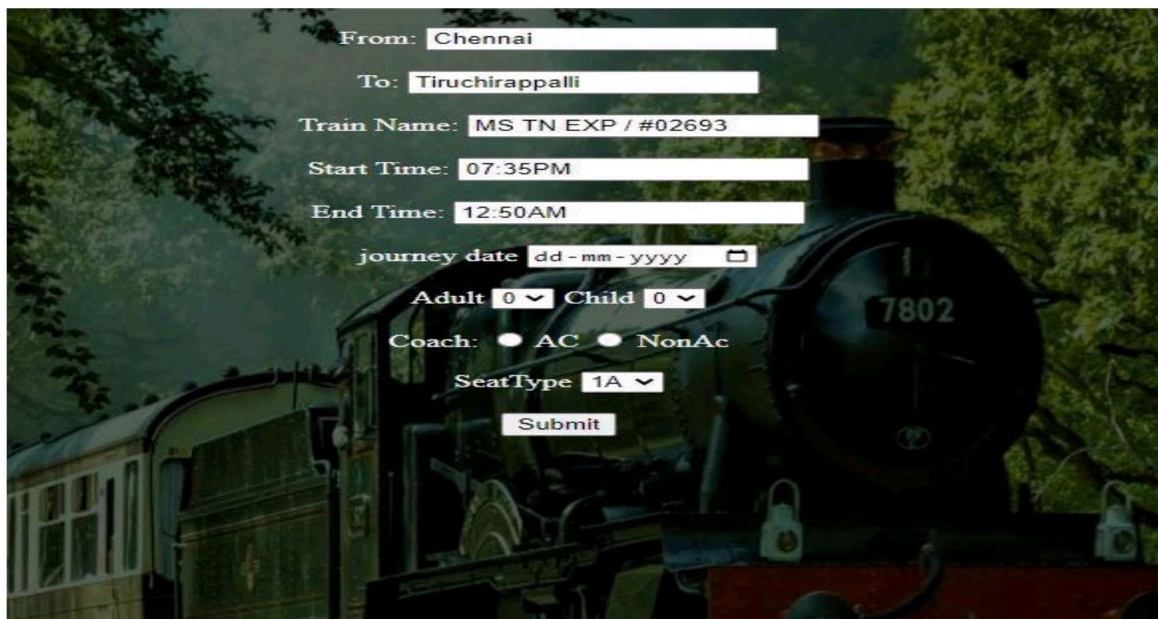
[Search Train](#)


[Go Back](#)

List of Trains

FROM	TO	TRAIN NAME	START TIME	END TIME	SELECT
Chennai	Tiruchirappalli	MS TN EXP / #02693	07:35PM	12:50AM	BOOK
Chennai	Tiruchirappalli	MS TEN EXPRESS / #02631	07:50PM	01:10PM	BOOK
Chennai	Tiruchirappalli	MS CAPE EXP / #02633	05:15PM	10:25PM	BOOK
Chennai	Tiruchirappalli	MS MDUSCT EXP / #02661	08:40PM	02:10AM	BOOK

\

A background image of a steam locomotive, numbered 7802, pulling a passenger train through a lush green forest.

From:

To:

Train Name:

Start Time:

End Time:

Journey date

Adult Child

Coach: ☐ AC ☐ NonAc

SeatType

PASSENGER DETAILS

Name:

Age:

Contact:

Aadhar No:

Total Amount:

Card Details

Card Number

XXXXX XXXXX XXXXX

Expiry Date

JAN 01

0000

CVV

XXX

Cardholder Name

Pay Now

class	Ticket Type	Adult	Child	
NONAC	ANYTIME DAY R	0	0	RTN
	Start Date	Train Name		
16-25	2023-04-12	VAIGAI EXP / #12635		
From		Valid Until		Price
CHENNAI		2023-04-12		0
To		Route	Validity	
MADURAI		ANY PERMITTED	ON DATE SHOWN	

If you want to cancel ticket? click cancel button

CANCEL

BACK TO HOME



[Go Back](#)

List of Accommodations

Choose your Accommodation
Hotel Deepam
SRM Hotel
Hotel Apple Park Inn
Plaza Hotel
Courtyard Marriott

Make Your Reservation

CHECK IN

CHECK OUT

no of rooms

↓

no of adults

↓

no of children

↓

BOOK NOW

Enter Details

Name

Contact

email

Aadhar number

Total Amount

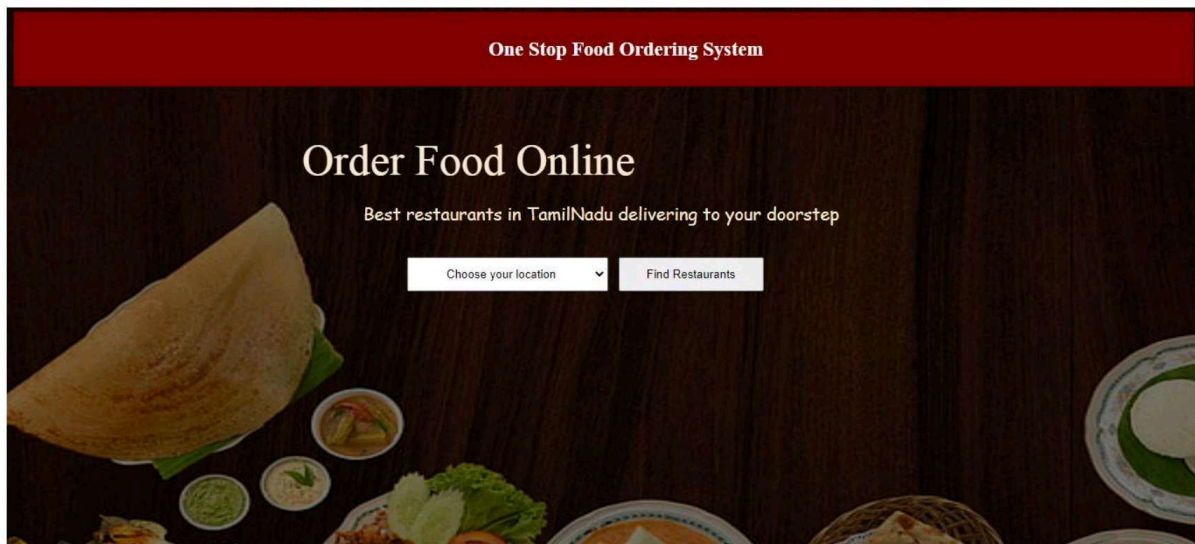
2500

Pay

Booking Summary

Name	Contact	Adult	Child	Room	Check In date	Check out date	Total Amount	Payment Status
Swetha	9788972621	3	1	3	2023-04-14	2023-04-21	2500	paid

[Back to Home](#)



List of Restaurants

[Go Back](#)

Choose your Restaurants
Al Safa Restaurant
Anandha Hotel
CCC Kitchen
JP Restaurant
Hotel Annachi

Your Best Food Ever

Food Name
Chicken Briyani

Quantity
2

Train Name
Vaigai express

Train Coach
D5

Seat Number
67

[Go Back](#)

Order Summary

Food Name	Price	Quantity	Total	Payment
Chicken Briyani	170	2	340	Make Payment

Food order Status

Food Name	Food Price	Quantity	Total Amount	Payment Status
Chicken Briyani	170	2	340	Paid

[Back to Home](#)

One Stop Medicine Booking System

Best Pharmacy in TamilNadu Order to your Medicine

Choose your location 

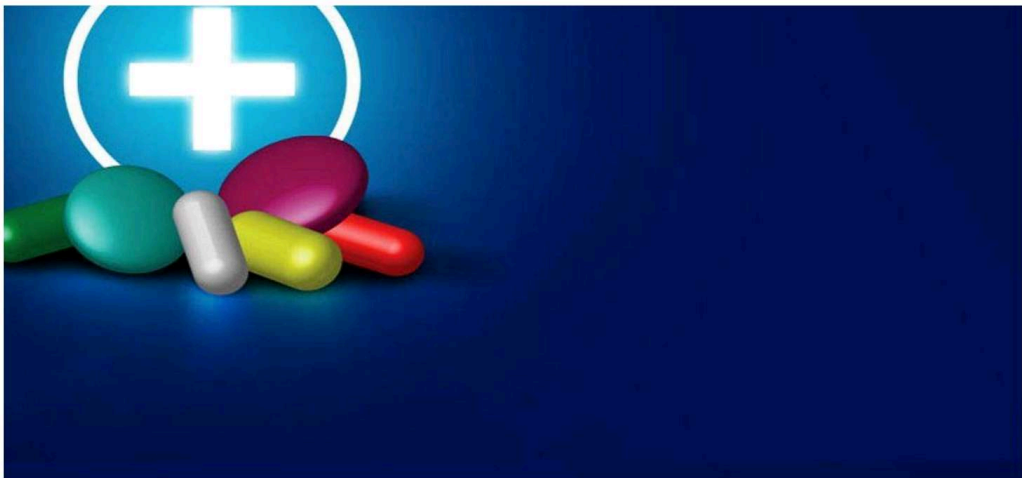
[Find Pharmacy](#)



[Go Back](#)

List of Pharmacy

Choose your Pharmacy
Thulasi Pharmacy
Karur City Pharmacy
Makkal Marundhagam
Yashin Medicals
Aruvi Medicals



Add New Medicine

Medicine Name

Dosage

Quantity

Prescribed By

Train Name

Coach Number

Seat Number

[Go Back](#)

Order Summary

Medicine name	Price	Quantity	Total	Payment
Metformin	24	3	72	make payment

Medicine order status

medicine name	quantity	payment status
Metformin	3	paid

[Back to Home](#)

SQL Query Area

```
SELECT * FROM fooddetails f;
```

id

Foodname

price

1

Parota

15

2

Idly

5

3

Dosa

30

4

Poori

30

5

Pongal

20

6

Masaldosa

50

7

Ravadosa

60

8

Gheeroast

100

9

Curd rice

40

10

Lemon rice

40

11

Tomato rice

40

12

Egg fried rice

60

13

Chicken fried rice

90

14

Chicken Briyani

170

15

Mutton Briyani

240

16

Noodles

100

17

Chapati

15

34 rows fetched in 0.0051s (0.0008s)

Edit

✓ Apply Changes

✗ Discard Changes

First

Last

Search

information_schema

mysql

performance_schema

test

train

trainsnames

admin

alldatadetails

findrestaurant

fooddetails

hotelnames

largebook

locationtabel

medicalllocation

medicinenname

ticketdetails

trainticket

userfooddetails

userlist

Syntax

Functions

Params

Trx

Data Definition Statements

Data Manipulation Statements

MySQL Utility Statements

MySQL Transactional and Locking ...

Database Administration Statements

Replication Statements

SQL Syntax for Prepared Statement

ONE STOP – A MULTI FEATURE WEB APPLICATION

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Abstract-- Angular is a framework and platform for creating HTML and Type Script-based single-page client applications. As a collection of Type Script libraries that we load into our programmes, it implements both core and optional functionality. An Angular application's architecture is based on a few key ideas. The Ng Modules are the fundamental building blocks. In this project many components are created and routes are been set up between each components for the dynamic motion of one page to another page. In One Stop Web Application, users can login themselves (can register if there is no login), thereby accept to the terms and conditions and can make use of the services such as Ticket reservation, Food delivery, Hotel accommodation and Pharmacy. The existing model is "Tata Neu" in which users have to login separately in order to make use of the services. But in One Stop application, the users can login once and can make use of all services combine or separate according to their wish. The entire application will be connected to the backend for data collection purpose. Not only all services, the user can make use of a single service as well. One Stop application becomes a complete travel package for the passengers & reduces passengers' effort and time. This application helps the user in ordering food, purchasing medicines, booking train tickets & finding accommodation in top hotels in and around the respective city.

Keywords – Angular, Java, Web Application, routes, Backend, Type Script Libraries, Single-page client application, SQL database.

I. INTRODUCTION

In this busy and hectic schedule, time management plays a vital role. One Stop application has the following four features. Online food delivery app, online pharmacy, online ticket reservation system & online hotel accommodation booking system. One Stop application becomes a complete travel package for the passengers & reduces passengers' effort and time. This application helps the user in ordering food, purchasing medicines, booking train tickets & finding

accommodation in top hotels in and around the respective city. To enable users to complete their entire process in a single place, especially helps for travellers. To implement multi user application using angular and implementing routes among the components. To make a record of the users using the application with the backend connected server. To register themselves and login using respective login credentials and make use of the respective service needed. You may increase accuracy by streamlining your business procedures with the use of web applications. A custom web application is entirely flexible and adjustable to your business's demands and growth because it is created particularly to meet your company's needs. Because SAAS libraries are adaptable, the motion future of web design may be intriguing. In order to create fully responsive apps, developers can easily integrate UI/UX components with CSS, HTML, and JavaScript. A typical web application collects the user data by interacting via Html pages, JavaScript, Angular framework etc. The requests and responses are processed by Java and the processed data will be transferred to web server and stored in SQL database. The application is encrypted using SHA-256 algorithm and all the components are encrypted using the algorithm. Once the user logins, the data will be collected and verified. Only the authenticated users will be allowed to process further, if not, they will not be allowed further. All the components are locked using angular lock and only after proper completion of certain step, user will be directed further. The entire application has single login which helps in reducing efforts and time of the users.

II. LITERATURE SURVEY

In 2015 [12], P. Ahammed, R. Gaunker, M. Reshadi, K. Kumar and A.K. Pathan has described about the platforms that are adaptable and can manage significant

variability along multiple dimensions, particularly for mobile web. They discussed about the positioning of various sources like image, table etc., and the contribution of each contents like Html, Stylesheets, Flash, and Scripts etc that are necessary for building a website. They also examined about the difference between the average size of a webpage in 2011 as compared with 2014. Their study focused on improvement of various web performance criteria and to produce image – rich web pages.

In 2015 [11], Gua Lan, Hua Qing Yi and Wang Ping has described about the interactive web applications. They explained about making web applications interactive by improving features including user experience and usability. They also improved the interactivity by combining responsive design method with model-based method followed by improving FMRP that is used to model the translation process and to suggest certain translating guidelines. They mainly focus on developing the UI design in web paged and applications by undergoing various processes to make the web page more unique and interactive.

In 2016 [9], Jay Kiruthika, Souheil Khaddraj and Darrel Greenhill has described about the interaction between web applications and web sites. They focused on user satisfaction as web apps must present information that is versatile and diverse. They also explained that the content to be delivered via web page and care should be given when creating user interfaces to support such rich content because they can vary in size, structure, and physical design and that makes it user-friendly. They also recommended some criteria to create effective web applications by looking into the issues of designing web applications.

In 2017, Adity Gupta, Swati Tyagi and Nupur Panwar has described about the different forms of NOSQL databases. They have explained about the need of NOSQL and how they became alternative for relative databases along with its four classifications. They discussed about the non-functional features of NOSQL databases such as performance, scalability, flexibility, structure and complexity. They have made further analysis using databases such as Cassandra, Redis and Neo4j by comparing each functionality of respective databases by checking the ACID properties.

In 2018 [7], Kevin Beineke, Stefan Nothaas and Michael Schottner has described about efficient messaging in java web applications. They have described about Large-scale Java applications and big data along with their ability that does not have low-latency, high-throughput. They have designed DXNet in order to address the above mentioned challenges and produce fast output. They have also checked the output by sending synchronous messages along with synchronous requests and responses and an approach to message reception that is event-driven. They concluded with the use of Ethernet for the evaluation of micro benchmarks and YCSB.

In 2018 [6], Ivelina Stefanova Balabanova, Georgi Ivanov Georgiev and Stela Savova Kostadinova has created virtual tools that can be used remotely via the web for modelling digital IIR and FIR in a LabVIEW environment. In order to obtain more comprehensive information about the actual job done, they have also created a bespoke programme that enables the simultaneous production of filter coefficients and different sorts of characteristics. An innovative solution has been created using a strategy to connect SQL and MySQL databases with LabVIEW.

In 2019, Eugene Genong Yu, Liping Di, Li Lin and Haoteng Zhao has described about a geospatial information service system for intelligently irrigated farmland has undergone full stack web development. They mainly focused about the use of web application in field of agriculture. They explained about the relevant geospatial information technologies to meet the requirements such as data integration, responsive web design and progressive web application. They also developed a full stack design of web geospatial information server system to serve farmers in effective irrigation.

In 2019 [5], Aaron Sterling has described about Tools for JSON-LD are NodeJS and Angular. He has discussed three open source, ISC-licensed tools that help web programmers who utilise the official JSON-LD JavaScript library, jsnold.js, and two of these tools are for Nodejs, which is primarily used for backend purposes. The third tool would be created for the web framework Angular, which is mostly used for front-end development, and two of the Nodejs tools would be written in Typescript 3 and translated to JavaScript ES2015, according to his proposal.

In 2020, Pawn Singh has described building a house is similar to web development. He claimed that this is the case because just as construction requires a permit, a plan, and a licence, so does web development require paperwork, a suitable server, designing, and a programming language. He suggested that it is completely ridiculous to reinvent the wheel because online de- signing standards are constantly rising and the complexity of the technology required has become an essential component of creating web apps. React, Vue, Express, Django, Angular, Spring, and Angular are a few of the well-known web development frameworks.

In 2020, Zhenyue Long, Zeliu Ao, Guoquan Wu and Jun discussed the dynamic regression test for Java web application tool selection. For testing web applications for regression, they used WebRTS. A dynamic RTS tool for regression testing is called WebRTS. As WebRTS can gather precise test dependencies for each test in isolation and supports parallel regression testing of distributed web applications, and because of its more flexible design that can be combined with various web testing frameworks, they conducted the testing by monitoring

the process of Http request and object construction in the server.

In 2020, Rajeev Kumar, Alka Agarwal and Asif Irshad Khan has described about the growth of secure web applications. They also discussed about the applications of secure web apps in various day to day activities like education, healthcare, banking, business, governance etc.,. They also proposed about the contribution of developers towards meeting users' requirements. To make the web apps secure, they introduced a term known as "Quantitative estimation" of security-durability. They concentrated on the web applications' security and robustness. They used customised versions of the university's web application to test the results' sensitivity.

In 2021 [4], Ferda Ozdemir Sonmez and Banu Gunel Kilic has discussed the development of new, effective technologies that are also easily available in order to defend against the sophisticated dangers posed by web apps. Based on data sources that are likely to be easily connected and widely accessible for the majority of online applications, their study creates a generic data structure. Their main contribution is a new dashboard tool for displaying test results for dynamic application security. They have a prototype and the ZAP scanner tool for validation purposes.

In 2021 [3], Liangfu has described about the web application software technology and process involved in it. He proposed about the gradual growth of web engineering and its relationship with the development of software engineering technology thereby the process of project development. He discussed the creation and process examples of web engineering technologies to assure effective web engineering development. He also mentioned various applications built using project management and web engineering software development techniques.

In 2022 [1], Lianyong Qi, Qiang He and Feifei Chan has discussed how to create web applications using data-driven web APIs. They expressed the opinion that, while the distribution of web APIs is highly fragmented, making it difficult for an app developer to find suitable and compatible web APIs, the ever-rising popularity of web APIs allows app developers to leverage a set of existing web APIs to achieve their sophisticated objectives. This laborious approach necessitates in-depth understanding of online APIs, which is frequently too demanding. It now presents a significant barrier to expanding the use of web APIs.

In 2022 [2], Zulkifli Tahir, Amil Ahmed Ilham and Muhammed Niswar has described that Angular Framework and Service Workers are used to develop and analyse Progressive Web Applications for an e-commerce system. They have explained how quickly information technology is developing. Several technologies have made the claim that they can be trusted to create web systems. Progressive Web Apps

(PWA) has been used in this study to implement reliable information technology. This technology combines the Angular framework for user interface development, the Angular Fire library for connecting to the server, and a Service Worker to support the website under varying network conditions.

III. EXISTING SYSTEM

Usually, web browsers are used to access web-based applications. The manner that online pages are displayed varies significantly between each browser. Since browsers interact with various web languages, including HTML, XML, Flash, Perl, ASP, and PHP, differently, programming for web-based applications must be specialised to account for this. While creating web-based apps, it is important to take into account the variety of browsers out there as well as the possibility that people would use them. A web-based application can be created using open source code to address this problem and increase awareness for a consumer-based product. An application named 'Tata Neu' from Tata group is a real time example for the existing multi feature application. To give users a thorough yet highly personalised purchasing experience, the Tata Neu app was developed. As the result of more than two years of research, development, and testing, it may actually be referred to as a "super app" and aims to give its users a wonderful shopping experience. By combining the most reputable brands from the Tata group into a single useful platform, customers are given an unmatched level of flexibility and choice. A wide range of industries, including electronics, grocery, travel, and more are represented in the unrivalled assortment of products and services. The disadvantage in this application is it requires separate login for accessing each and every service. It consumes more effort and time. As modern world requires modern solutions, it is not recommended to have a separate login procedure for every component. In order to address this issue, One Stop gives a great solution. It uses SHA-256 hashing algorithm for encryption purpose and has a single login for the entire application. By this the user can reduce their efforts and consume lot of time. There is no compromise in security feature, as the hashing algorithm does all those integrity checks and allows only authorised users to access the app and its features. One Stop aims to provide high protection by using limited amount of security features and it serves as a complete travel package.

IV. PROPOSED SYSTEM

In our venture the client register and login in to the application. In client fundamental page they are many administrations given, for example, train ticket booking, drug store, food request, lodging booking. In train ticket choice we book the tickets of specific region. In drug store area we request meds in the area

of train station. In food request we request food in the area of train station. In lodging the board we book in area of the client which region going. Instead of logging in for each and every component separately, One Stop allows the user to register themselves and once they login into the application, there will be no need for logging into each and every services. The entire app is build using eclipse and the data entered will be stored in background where admin can track users details.

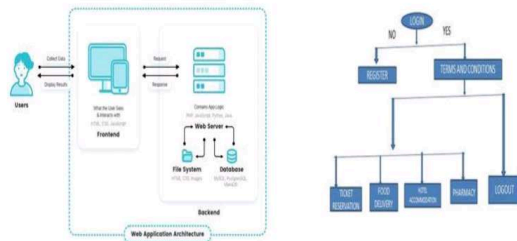


Fig 3.1 System Architecture of One Stop Web Application

Users not only can access all the services, they can also make use of any service they need according to their wish. The application is connected to backend using Java and MySQL so that the user data will be collected at the back. **SHA-256 hashing algorithm** is used for processing all those operations needed for the application to run and store the respective user data. Data is scrubbed until it can no longer be recreated in its original form, a process known as hashing. It takes a set of data and processes it numerically using a function that works with plaintext. The name of this process is the hash function.

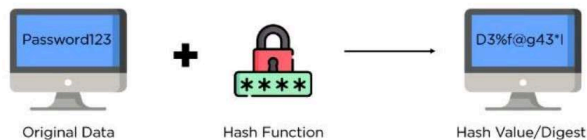


Fig 3.2 Encryption using Hash Function

Hashing is mostly used for two purposes:

- **Password Hashes:** Prior to being kept on a website server, most servers translate user passwords into a hash value. For validation, it makes a comparison between the hash value recalculated after login and the one saved in the database.



Fig 3.3 Authentication using Hash Function

- **Integrity Verification:** It also transmitted the hash of the file it uploaded to a website as a bundle. It can recalculate the hash and compare it when a user downloads it to ensure data integrity.

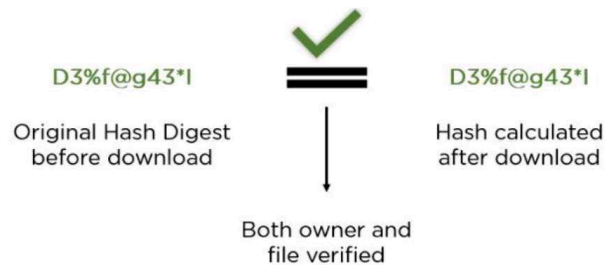


Fig 3.4 Integrity check using hash function

SHA 256 is one of a group of algorithms that make up the Secure Hash Algorithm (or SHA) family. It was released in 2001 as a replacement for the SHA 1 family, which was deteriorating over time in terms of its defence against brute force attacks. The NSA and NIST worked together to develop it. No matter how much plaintext or clear text is present, the final hash result will always be 256 bits, as indicated by the name's reference to 256. Similarities between SHA 256 and the other SHA family algorithms can be seen. Right now, try to find out a little more about their laws.

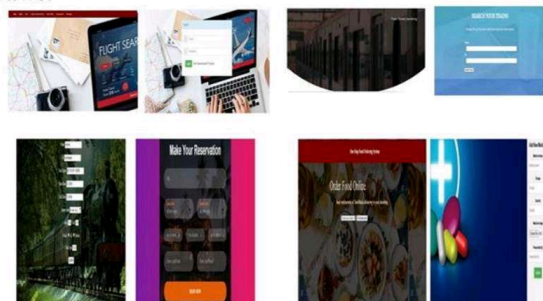


Fig 3.5 Snapshots of One Stop Application

V. RESULTS AND DISCUSSION

The One Stop Web application using Angular framework, Java and MySQL services aims to improve customer interaction and reduces their efforts as it has multiple components and acts as a complete travel package. Especially, it acts as a life-changer for old people and people with health problems. In security point of view, the SHA-256 type of hash algorithm does all those authentication and verification tasks. The algorithm acts as a lock for the application and allows only the authorized users after verification process. It also protects the payment source and its details in an efficient manner and makes the application more appreciative. The various characteristics of the hash algorithm such as message length, digest length and irreversible properties defines the requirements of the algorithm to perform the undergoing authentication process. This type of hashing algorithm gives an unbreakable bond for the security of the application.

VI. CONCLUSION

In conclusion, the proposed multi-feature application aims to reduce the time and efforts of users or travellers. It also acts as an all-in-one solution for

the people who need to travel as travelling gives mental peace in this stressful world. The SHA-256 algorithm gives more protection to the details being passed via application and the users accessing the app. The details are collected from the passengers and are kept safe and secure. The main advantage is the users can not only use all the components, but can use any components irrespective of their choice.

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