Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

B.Tech. CE Semester – V

Subject: (CE-515) Advanced Technologies

Project Title:

THE TRAVELER GUIDE

By:

Parth Baudhanwala (roll no: CE012 id: 17CEUBS013)

Meet Charola (roll no: CE018 id: 17CEUOS071)

Guided By:

Prof. Prashant M Jadav

Prof. Pinkal C Chauhan

Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

CERTIFICATE

This is to certify that Advanced Technologies project entitled "THE TRAVELER GUIDE" is the benefite report of work carried out by

1) Parth Baudhanwala (17CEUBS013)

2) Meet Charola (17CEUOS071)

Of Department of Computer Engineering, Semester V, academic year 2019-20, under your supervision and guidance.

Guide	Guide	HOD
Prof. Prashant M Jadav Associate Professor of Department of Computer Engineering, Dharmsinh Desai University, Nadiad.	**Prof. Pinkal C Chauhan** Assistant Professor of Department of Computer Engineering, Dharmsinh Desai University, Nadiad.	**Dr. C. K. Bhensdadia** Head of the Department of Department of Computer Engineering, Dharmsinh Desai University, Nadiad.

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Abstract

Now a day, you cannot trust anybody blindly. Always there is a chance to mischief. Locals are always in the eye to take benefits from strangers. This “THE TRAVELER GUIDE” website provides you nearby places. Where ever you go, you just need internet connection and this website will be with you. You can search any nearby places and hotels. If you are hungry do not ask to anybody just search here and you will get best.

1. Introduction

1.1 Brief Introduction

Have you seen googleTrips?

This is almost same kind of website. Every customer on this planet now has a partner with their trip. Our website always with you and ready to help you.

You can explore the places inside and outside the country. India, one of the most beautiful locations of South Asia is also one the popular countries of the world. Therefore, this tourist hub welcomes more than a 5 million foreign tourists from different location of the world. A trip to this beautiful country will lead you to the best places. Also we provide facility of finding hotels to. You can also search for destinations which is near by your hotels.

1.2 Tools/Technologies Used

Technologies:

HTML 5

CSS 3

Bootstrap 4

Angular cli

Typescript

Node JS

Express JS

MongoDb

Angular Material UI Component library

Tools

Visual Studio Code

Platforms

localhost/4200 for Angular

localhost/8000 for Node js

mongodb://127.0.0.1:27017

2. Software Requirement Specifications

2.1 Product Scope

This website suggests you best location nearer to wherever you are. If you are hungry do not ask to anybody just check on the site, we provide nearer location of best hotels and restaurants according to your choice of taste!!! Wish you happy journey...

2.2 Types of User

1. Admin
2. User

2.3 System Functional Requirements

R.1: End user

R.1.1: Manage Account

R.1.1.1: Sign-up

DESCRIPTION: User enters his details like name, password, contact details and email address which are used to create a new account.

INPUT: name, password, email-id.
OUTPUT: New account created.

R.1.1.2: Login
DESCRIPTION: User enters email-id and password required for logging into his account.
INPUT: password, email-id.
OUTPUT: User is logged in.

R.1.1.3: logout
DESCRIPTION: Enables user to logout.
INPUT: user's selection.
OUTPUT: user is logged

R.1.2: explore location:

R.1.2.1: search location
INPUT: location name
OUTPUT: location page

R.1.2.2: visit website
INPUT: click on the link
OUTPUT: location on google

R.1.2.3: find nearby
DESCRIPTION: user can find nearby things using google map
INPUT: click on the map
OUTPUT: nearby things will be appeared

R.1.3: explore hotels

R.2.1.1: search hotel
INPUT: hotels name
OUTPUT: hotel page

R.2.1.2: hotel details
DESCRIPTION: user can show hotel contact number, email id, address, website, ratings.
INPUT: Users selection
OUTPUT: List of all plans.

R.2: Administrator

R.2.1: Manage User

Description: Admin can delete and block any user.

R.2.2: Manage location data

Description: Admin can add location data and remove location data.

R.2.3: Manage hotel data

Description: Admin can add and remove hotel data.

2.4 Other Nonfunctional Requirements

1. Performance

The system must be interactive and the delays involved must be less. So in every action-response of the system, there are no immediate delays. In case of opening App components, of popping error messages and saving the settings or sessions there is delay much below 3 seconds.

2. Safety

User details should be securely stored to the server. The main security concern is for user account hence proper login mechanism should be used to avoid hacking.

3. Reliability

As the system provides the right tools for discussion, problem solving it must be made sure that the system is reliable in its operations and for securing the sensitive details.

4. Database

System requires to access user's data fast to maintain the performance.

3. Design

3.1 XML

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="planet_xslt_file.xsl"?>
<planet_details>
    <user_details>
        <user id="123">
            <full_name>parth baudhanwala</full_name>
            <email>parthbaudhanwala45@gmail.com</email>
            <password>parth123</password>
        </user>
    </user_details>

    <location_details>
        <location id="45">
            <country>india</country>
            <state>gujarat</state>
            <city>surat</city>
        </location>
    </location_details>
```

```
    <hotel_details>
        <hotel id="789">
            <hotel_name>OYO Hotels</hotel_name>
            <hotel_contact>7485654</hotel_contact>
            <hotel_address>saitan gali, khatra mehel, andheri nagar aur samshan ke samne</hotel_address>
            <hotel_email>oyohotels@gmail.com</hotel_email>
            <hotel_website>www.oyo.com</hotel_website>
            <hotel_rating>5 stars</hotel_rating>
        </hotel>
    </hotel_details>
</planet_details>
```

3.2 DTD

```
<!ELEMENT planet_details (user_details,location_details,hotel_details)>
<!ELEMENT user_details (user)>
<!ELEMENT user (full_name,email,password)>
<!ELEMENT full_name (#PCDATA)>
<!ELEMENT email (#PCDATA)>
<!ELEMENT password (#PCDATA)>
<!ELEMENT location_details (location)>
```

<!ELEMENT location (country,state,city)>

<!ELEMENT country (#PCDATA)>

<!ELEMENT state (#PCDATA)>

<!ELEMENT city (#PCDATA)>

<!ELEMENT hotel_details (hotel)>

<!ELEMENT hotel (hotel_name,hotel_contact,hotel_email,hotel_address,hotel_website,hotel_rating)>

<!ELEMENT hotel_name (#PCDATA)>

<!ELEMENT hotel_contact (#PCDATA)>

<!ELEMENT hotel_email (#PCDATA)>

<!ELEMENT hotel_address (#PCDATA)>

<!ELEMENT hotel_website (#PCDATA)>

<!ELEMENT hotel_rating (#PCDATA)>

<!ATTLIST user id ID #REQUIRED>

<!ATTLIST location id ID #REQUIRED>

<!ATTLIST hotel id ID #REQUIRED>

3.3 XSD

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">

```
<xs:element name="planet_details" type="planet_detailsType"/>
<xs:complexType name="userType">
  <xs:sequence>
    <xs:element type="xs:string" name="full_name"/>
    <xs:element type="xs:string" name="email"/>
    <xs:element type="xs:string" name="password"/>
  </xs:sequence>
  <xs:attribute type="xs:string" name="id"/>
</xs:complexType>
<xs:complexType name="user_detailsType">
  <xs:sequence>
    <xs:element type="userType" name="user"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="locationType">
  <xs:sequence>
    <xs:element type="xs:string" name="country"/>
    <xs:element type="xs:string" name="state"/>
    <xs:element type="xs:string" name="city"/>
  </xs:sequence>
  <xs:attribute type="xs:string" name="id"/>
</xs:complexType>
<xs:complexType name="location_detailsType">
```

```
  <xs:sequence>
    <xs:element type="locationType" name="location"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="hotelType">
  <xs:sequence>
    <xs:element type="xs:string" name="hotel_name"/>
    <xs:element type="xs:string" name="hotel_contact"/>
    <xs:element type="xs:string" name="hotel_address"/>
    <xs:element type="xs:string" name="hotel_email"/>
    <xs:element type="xs:string" name="hotel_website"/>
    <xs:element type="xs:string" name="hotel_rating"/>
  </xs:sequence>
  <xs:attribute type="xs:string" name="id"/>
</xs:complexType>
<xs:complexType name="hotel_detailsType">
  <xs:sequence>
    <xs:element type="hotelType" name="hotel"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="planet_detailsType">
  <xs:sequence>
    <xs:element type="user_detailsType" name="user_details"/>
```

```
    <xs:element type="location_detailsType" name="location_details"/>
    <xs:element type="hotel_detailsType" name="hotel_details"/>
  </xs:sequence>
 </xs:complexType>
</xs:schema>
```

3.4 XSLT

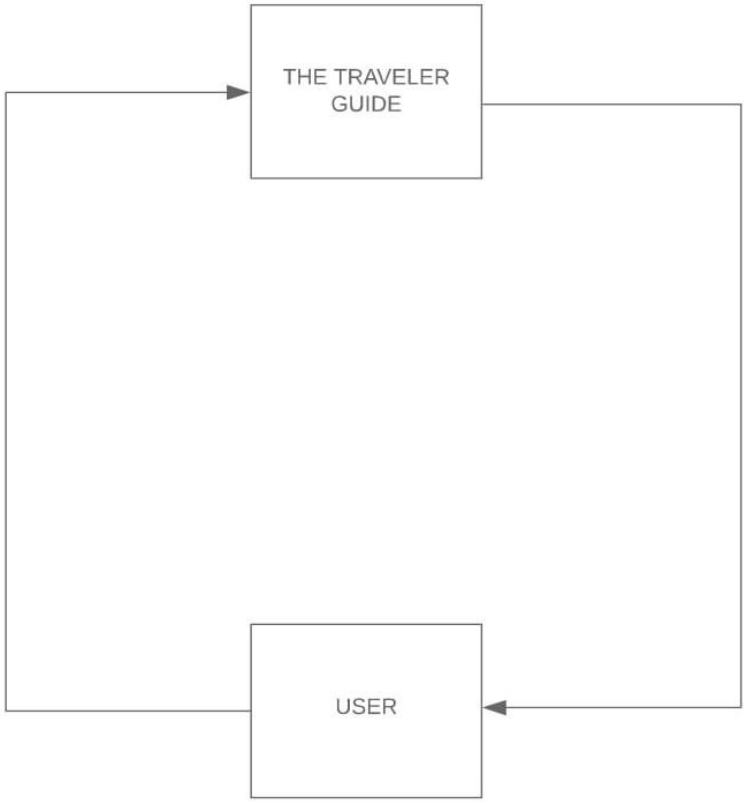
```
    <?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.1"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/planet_details">
    <html>
    <body>
        <h1>Planet Details</h1>
        <table border="1">
            <xsl:for-each select="user_details/user">
            <tr>
                <td><xsl:value-of select="full_name"/></td>
                <td><xsl:value-of select="email"/></td>
                <td><xsl:value-of select="password"/></td>
            </tr>
            </xsl:for-each>
        </table>
```

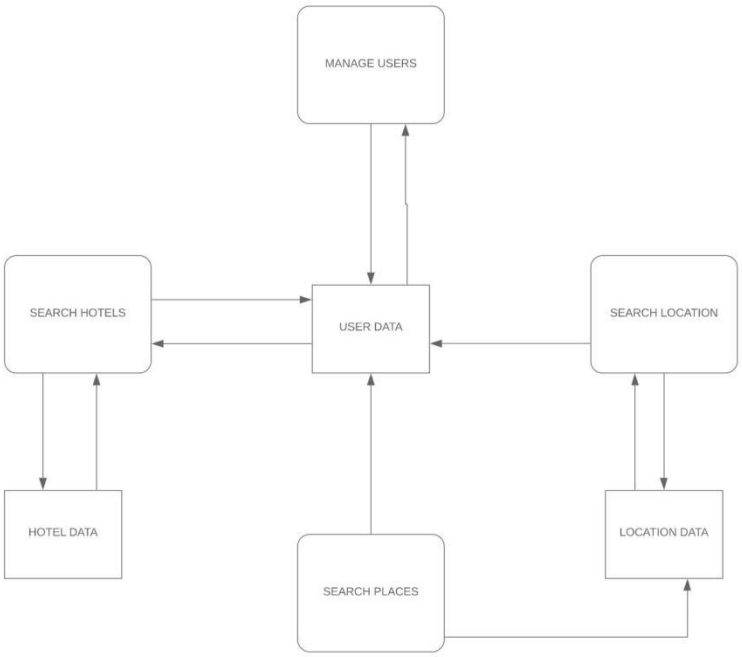
```
<table border="1">
    <xsl:for-each select="location_details/location">
    <tr>
        <td><xsl:value-of select="country"/></td>
        <td><xsl:value-of select="state"/></td>
        <td><xsl:value-of select="city"/></td>
    </tr>
    </xsl:for-each>
</table>
<table border="1">
    <xsl:for-each select="hotel_details/hotel">
    <tr>
        <td><xsl:value-of select="hotel_name"/></td>
        <td><xsl:value-of select="hotel_contact"/></td>
        <td><xsl:value-of select="hotel_address"/></td>
        <td><xsl:value-of select="hotel_email"/></td>
        <td><xsl:value-of select="hotel_website"/></td>
        <td><xsl:value-of select="hotel_rating"/></td>
    </tr>
    </xsl:for-each>
</table>
</body>
</html>
```

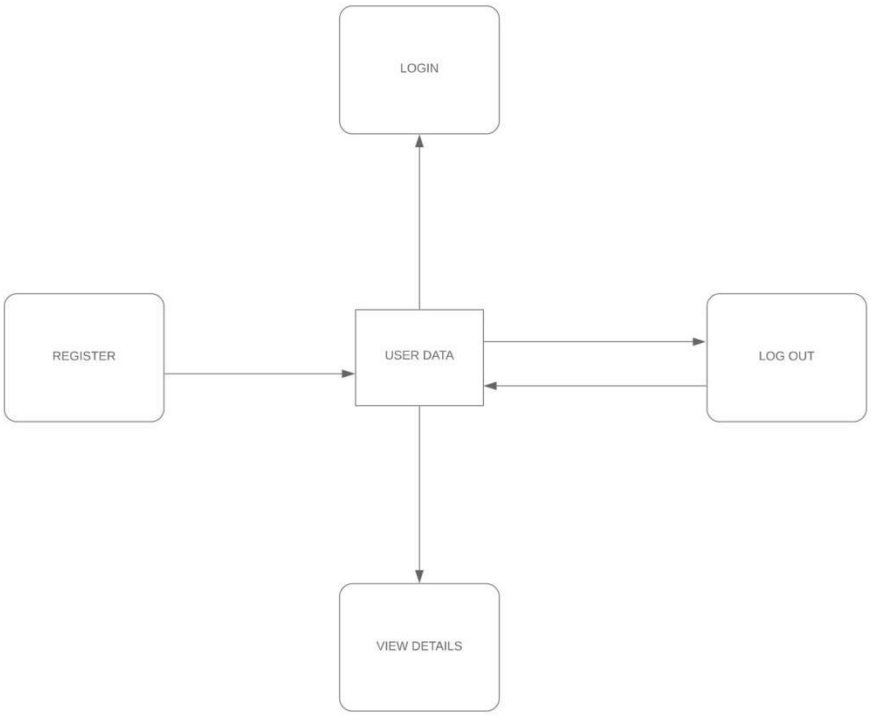
</xsl:template>

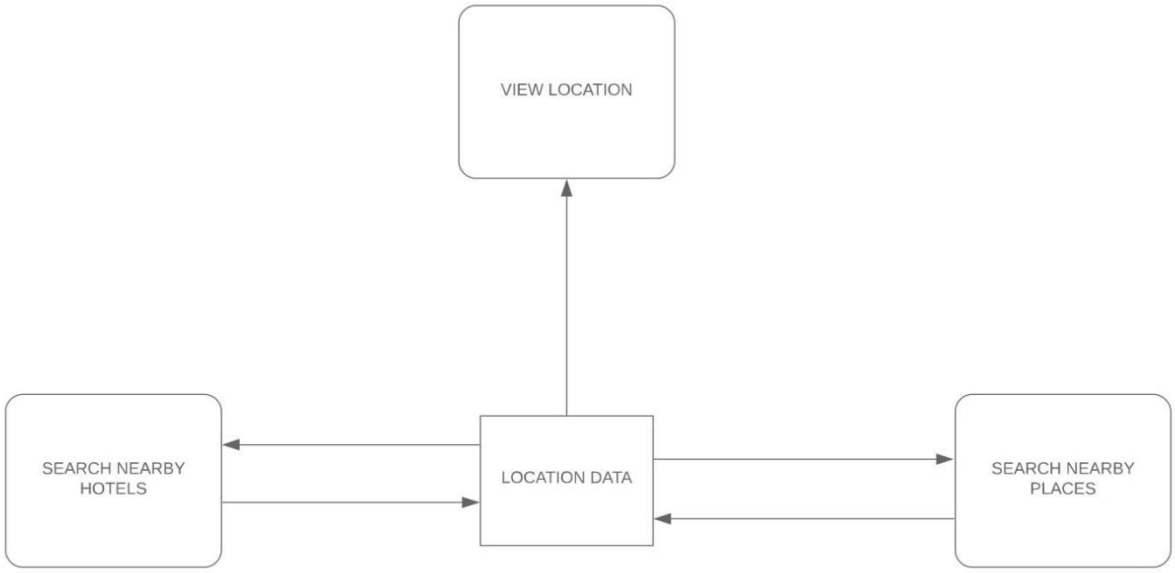
</xsl:stylesheet>

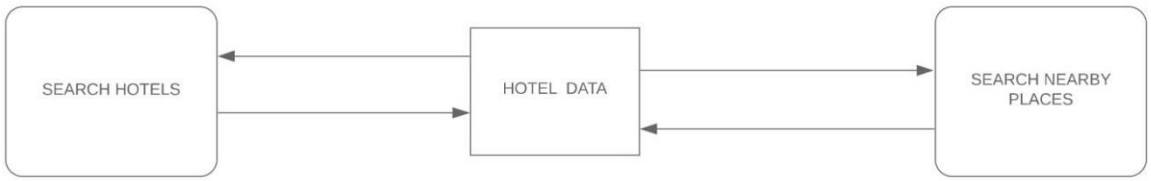
3.5 Data Flow Diagram (DFD)



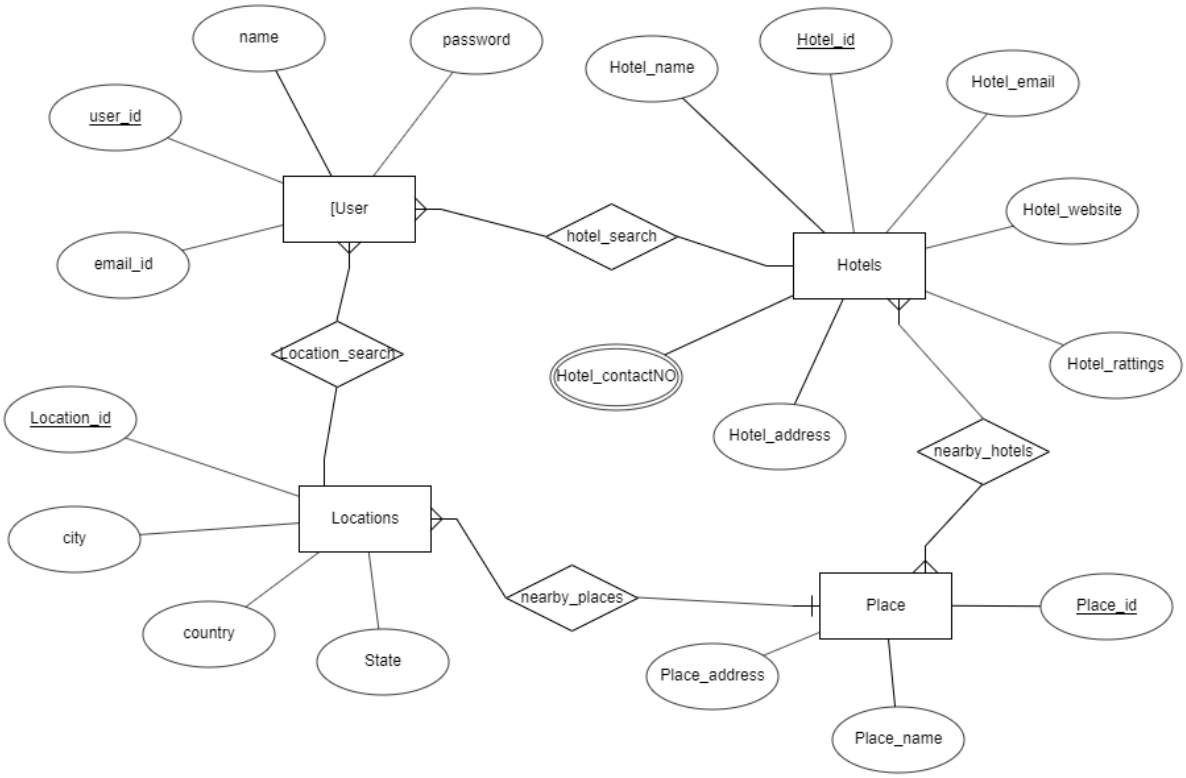

MANAGE USERS
SEARCH HOTELS
USER DATA
SEARCH LOCATION
HOTEL DATA
SEARCH PLACES
LOCATION DATA


LOGIN
REGISTER
USER DATA
LOG OUT
VIEW DETAILS


VIEW LOCATION
SEARCH NEARBY HOTELS
LOCATION DATA
SEARCH NEARBY PLACES


SEARCH HOTELS
HOTEL DATA
SEARCH NEARBY PLACES

3.6 E-R Diagram



3.7 Data Dictionary

User Login								
Sr. No	**Field Name**	**Data Type**	**Width**	**Required**	**Unique**	**PK/FK**	**Referenced Table**	**Description**
1	user_id	varchar	15	Yes	Yes	PK	-	
2	full_name	varchar	20	Yes	No	-	-	
3	email	varchar	30	Yes	Yes	-	-	
4	password	varchar	10	Yes	No	-	-	

Location

Location								
Sr. No	**Field Name**	**Data Type**	**Width**	**Required**	**Unique**	**PK/FK**	**Reference Table**	**Description**
1	location_id	varchar	15	Yes	Yes	PK	-	
2	country	varchar	30	Yes	Yes	-	-	
3	state	varchar	30	Yes	Yes	-	-	
4	city	varchar	30	Yes	Yes	-	-	

Place								
Sr. No	**Field Name**	**Data Type**	**Width**	**Required**	**Unique**	**PK/FK**	**Reference Table**	**Description**
1	place_id	varchar	15	Yes	Yes	PK	-	
2	place_name	varchar	30	Yes	Yes	-	-	
3	place_address	varchar	30	Yes	Yes	-	-	

Hotel								
Sr. No	**Field Name**	**Data Type**	**Width**	**Required**	**Unique**	**PK/FK**	**Reference Table**	**Description**
1	hotel_id	varchar	15	Yes	Yes	PK	-	
2	hotel_name	varchar	30	Yes	Yes	-	-	
3	hotel_contact	number	30	Yes	Yes	-	-	
4	hotel_address	varchar	30	Yes	Yes	-	-	
5	hotel_email	varchar	30	No	Yes	-	-	

6	hotel_website	varchar	20	No	Yes	-	-	
7	hotel_rating	number	5	Yes	No	-	-	

4. Implementation Details

- **Main User module:**

  This module gives the main home page of the system which provides basic information about the website. It contains inpage navigation to go to different parts pf the pages. Tis module dosent needs authentication. It contains buttons for signin and login.

  Input: User Selection

  Output:Corresponding response

- **Registeration module:**

  This module is used to store user's data to the database and enables the user to login to the system.All the fields in this module contains requried validations.User can also navigate to login page if he/she has already registered

  Input: User's Informations

  Output: User Registered and redirect to login page

  Processing: validating user's data and then storing them to database

- **Login module:**

This module takes users credentions and then verifies it with registered users , if user is not registered the invalid credentials is shown else if they match with database then login user.

Input: User Credentials

Output: Logging user.

Processing: Verifing user credentials with the database.

- **User Home module:**

  This module is accessed only by authenticated user. It is users home page .Users can mange their account . It provides user to select a city and then select hotels from where they can order items of that hotel . User can logout too.

  Input: User Selection

  Output:Corresponding response

5. Testing

5.1: **Testing Methods**:

We have performed Black-box testing for the testing purpose.

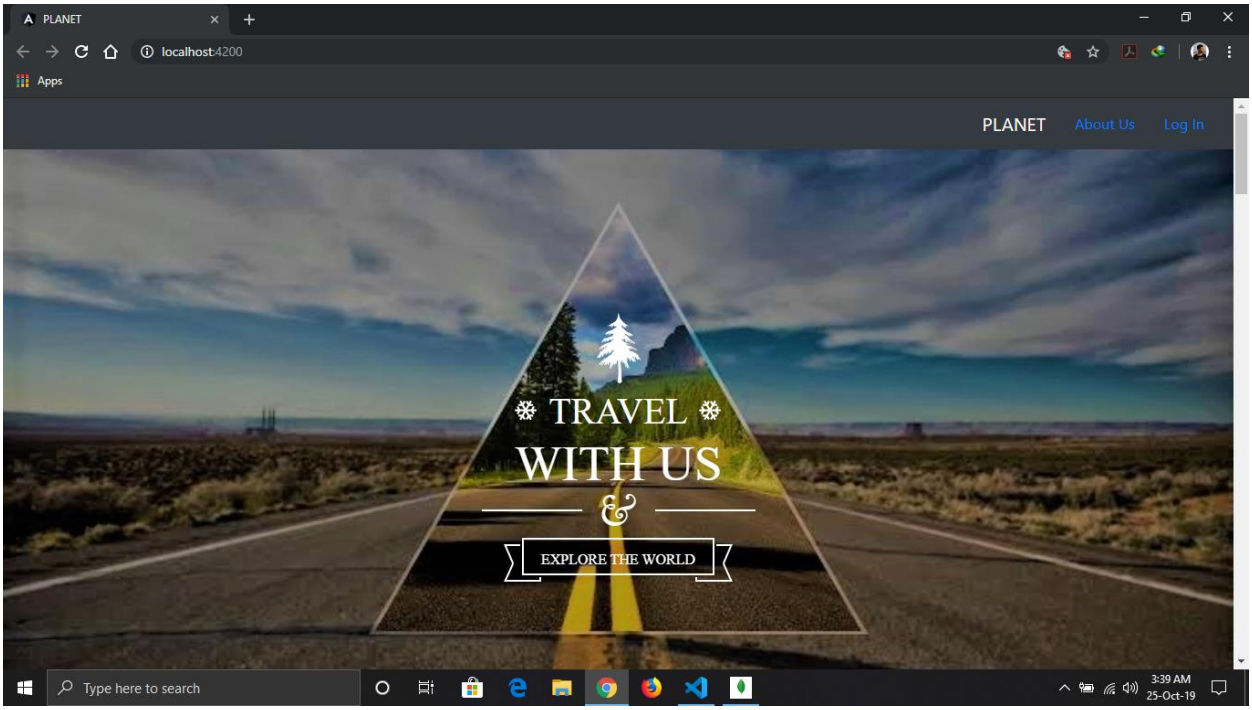
5.2: **Test Cases**:

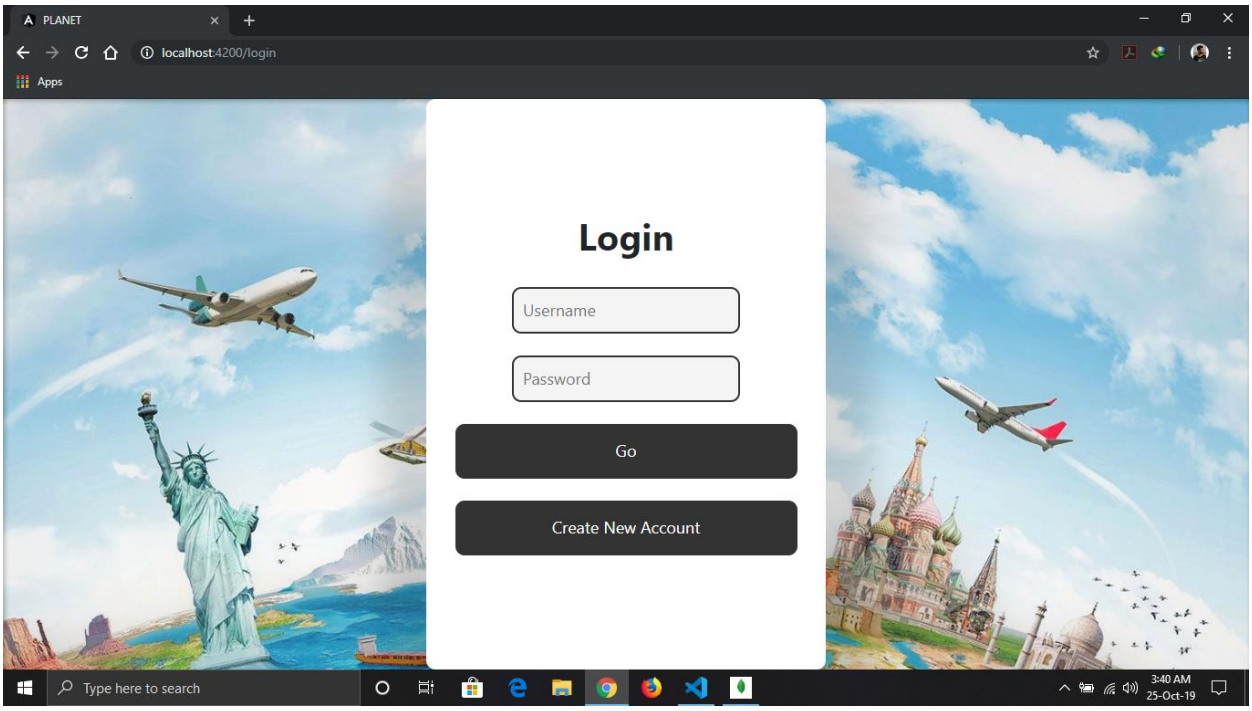
For Registration:

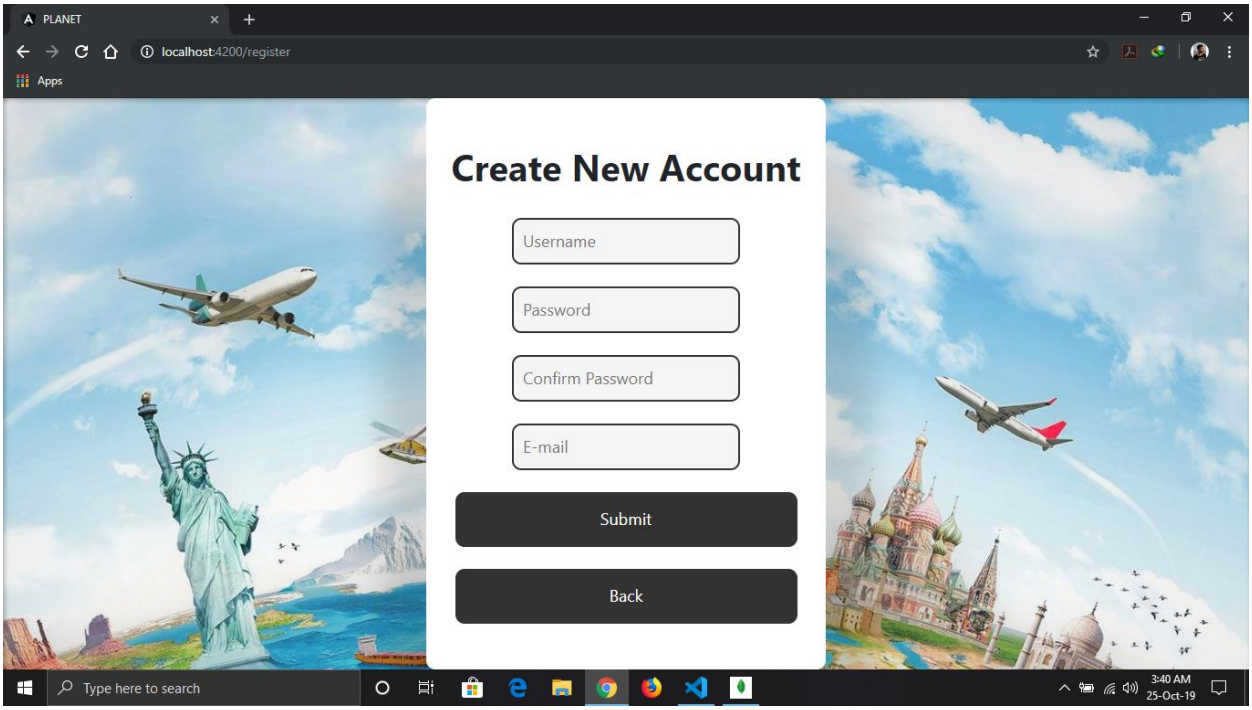
There are validations such as every field is required and respective validations for every field, suppose Contact number is less than 10 digits then error comes.

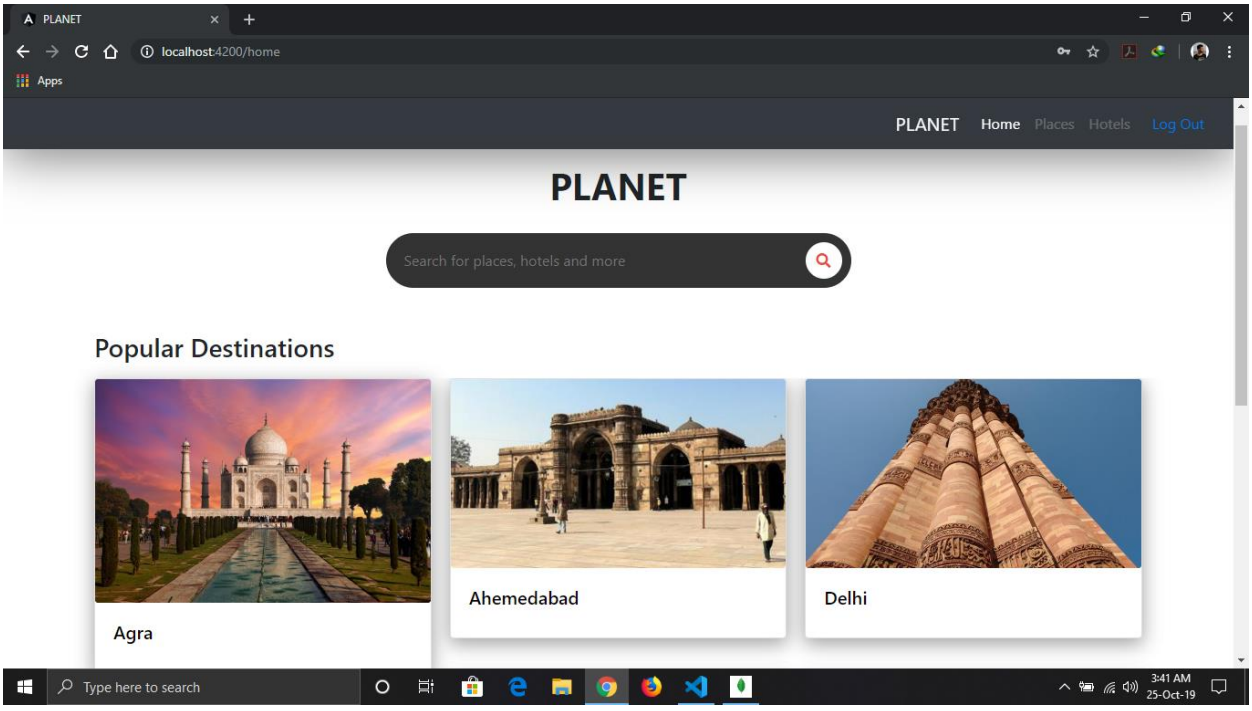
LOGIN: If credentials are invalid then error message is shown.

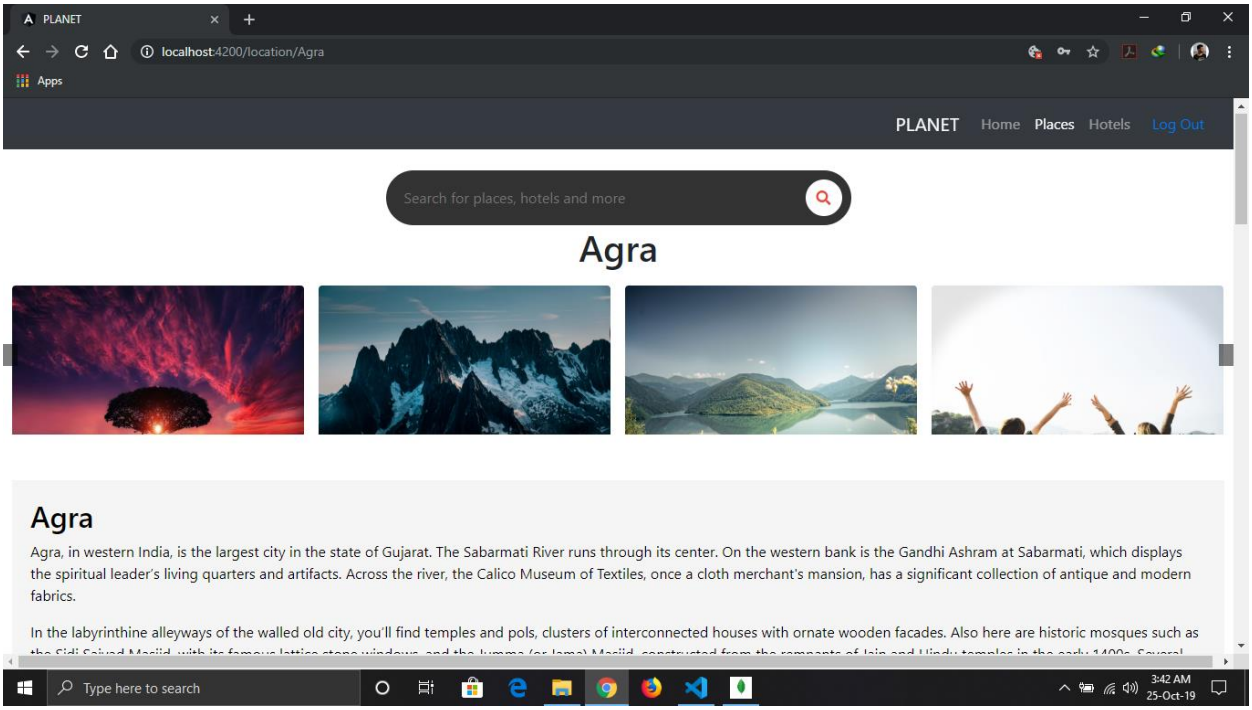
6. Screenshots

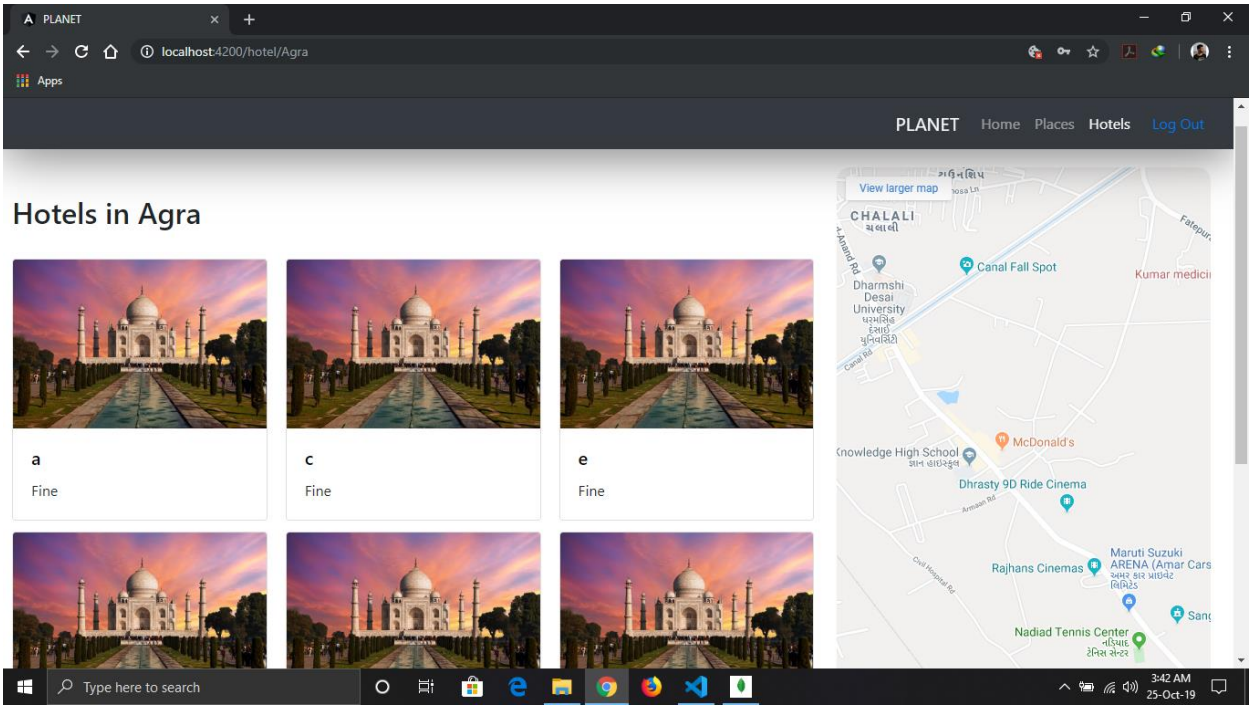





PLANET
localhost:4200/register
Apps
Create New Account
Username
Password
Confirm Password
E-mail
Submit
Back
Type here to search
3:40 AM
25-Oct-19


PLANET
localhost:4200/home
Apps
PLANET
Home
Places
Hotels
Log Out
PLANET
Search for places, hotels and more
Popular Destinations
Agra
Ahemedabad
Delhi
Type here to search
3:41 AM
25-Oct-19


PLANET
localhost:4200/location/Agra
Apps
PLANET Home Places Hotels Log Out
Search for places, hotels and more
Agra
Agra
Agra, in western India, is the largest city in the state of Gujarat. The Sabarmati River runs through its center. On the western bank is the Gandhi Ashram at Sabarmati, which displays the spiritual leader's living quarters and artifacts. Across the river, the Calico Museum of Textiles, once a cloth merchant's mansion, has a significant collection of antique and modern fabrics.
In the labyrinthine alleyways of the walled old city, you'll find temples and pols, clusters of interconnected houses with ornate wooden facades. Also here are historic mosques such as
Type here to search
3:42 AM
25-Oct-19


PLANET
localhost:4200/hotel/Agra
Apps
PLANET Home Places Hotels Log Out
Hotels in Agra
a
Fine
c
Fine
e
Fine
View larger map
CHALALI
Canal Fall Spot
Dharmshi Desai University
McDonald's
Dhrasty 9D Ride Cinema
Rajhans Cinemas
Maruti Suzuki ARENA (Amar Cars
Nadiad Tennis Center
Type here to search
3:42 AM
25-Oct-19

7. conclusion

The functionalities implemented in system after understanding all the system modules according to the requirements. Functionalities That are successfully implemented in the system are:

- User registration containing all the necessary validation on field
- login
- user authentication
- logout
- hotel searching according to city
- Location searching
- user authentication

8. Limitations and Future Enhancements

The System has adequate scope for modification in future if it is necessary.

Development and launching of Mobile app and refining existing services and adding more service, System security, data security and reliability are the main feature.

The API for the booking and payment gateway can be added.

In the existing system there are only some selected cities, so if user wants to explore some specific site with adding new cities across the country so as an extension to the site we can add more cities as compared to existing site.

9. Reference / Bibliography

Following links and websites were referred during the development of this project.

https://www.google.co.in

https://www.googletrips.co.in

https://www.lonelyplanet.com

http://www.wikipedia.org

http://www.getbootstrap.com

http://www.w3schools.com

http://www.tutorialspoint.com

http://www.angular.io

http://www.stackoverflow.com