

Fall 2018, CS5551: Advanced Software Engineering

Department of Computer Science Electrical

Engineering University of Missouri-Kansas City

Travel Explorer

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App Demo: <https://www.youtube.com/watch?v=p-TR1Kag8rg&feature=youtu.be>

GitHub: https://github.com/SaranAkkiraju/CS5551_Team8_Project

ZenHub: https://github.com/SaranAkkiraju/CS5551_Team8_Project#workspaces/cs5551-team8-project-5b7f444ae7c511269ddc1c12/boards?repos=145917717

Acknowledgement Statement:

This work has been completed under the guidance of Dr. Yugi Lee and the TAs (Ruthvic Punyamurtula, Sravanthi Gogadi , Bhargavi Nadendla) in CS5551 Advanced Software Engineering, University of Missouri - Kansas City), Fall 2018.

Project Deployment

Travel Explorer User Manual

By,

Saran Akkiraju

Pallavi Desai

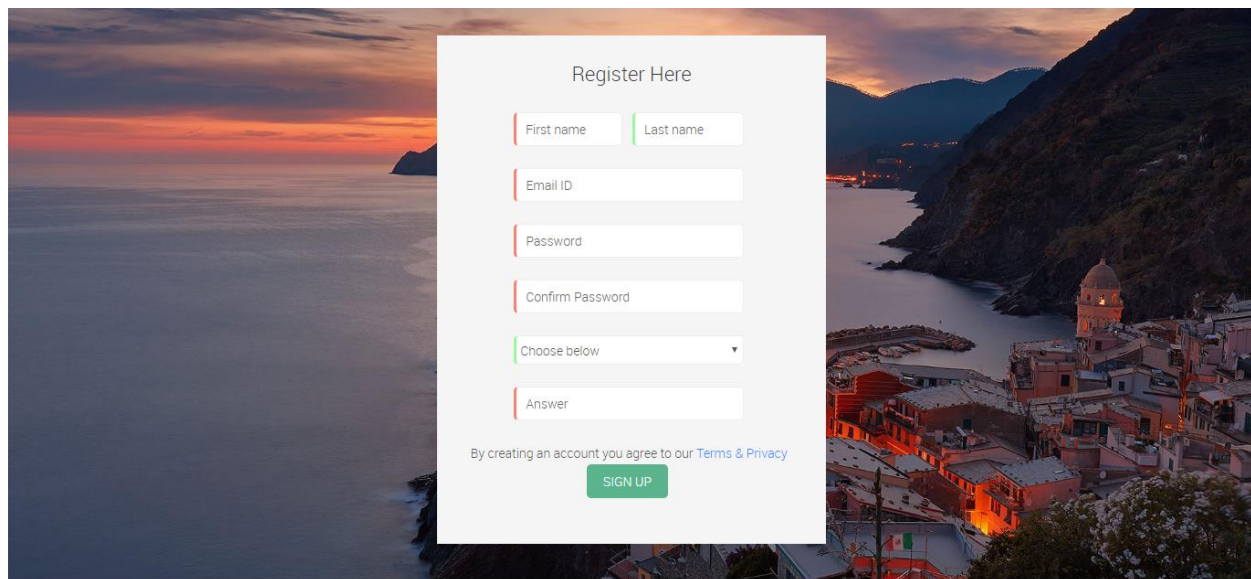
Harish Tata

Mastan Krishna Neeraj Padarathi

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2. How to use the system with Screen dumps
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 - 2.2.1. Home page
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 - 2.2.3. Itinerary page
 - 2.2.4. Search History Page
3. Error recognition and handling
4. Bugs and Deficiencies

1. Introduction - Web Application to helps user to plan trip within budget and number of days. This App allows user to do the following:
 - 1.1 Login to web app using Facebook or Google or App Credentials.
 - 1.2 If user does not have account yet user can register.
 - 1.3 Shows user list of places to visit in the city user entered.
 - 1.4 Web App will let user make customized plan.
 - 1.5 Web App will provide itinerary to user that is within user's budget and days.
 - 1.6 Shows search history of user
 - 1.7 Web app will let user contact admin of the page for queries
2. How to use the system with Screen dumps -
 - 2.1 Accessing :
 - 2.1.1 Open URL of our page in web browser.
 - 2.1.2 If do not have account yet register to our application.



Register Here

First name Last name

Email ID

Password

Confirm Password

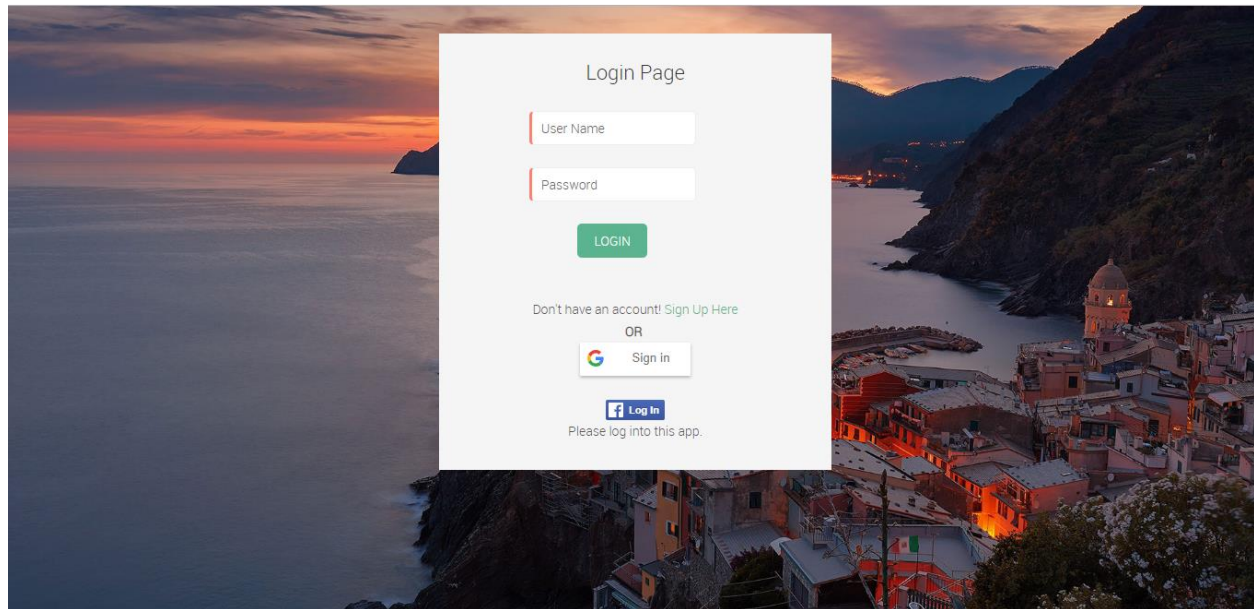
Choose below ▼

Answer

By creating an account you agree to our [Terms & Privacy](#)

SIGN UP

- 2.1.3 Log-in to our application using these credentials or using Facebook or Google Credentials.

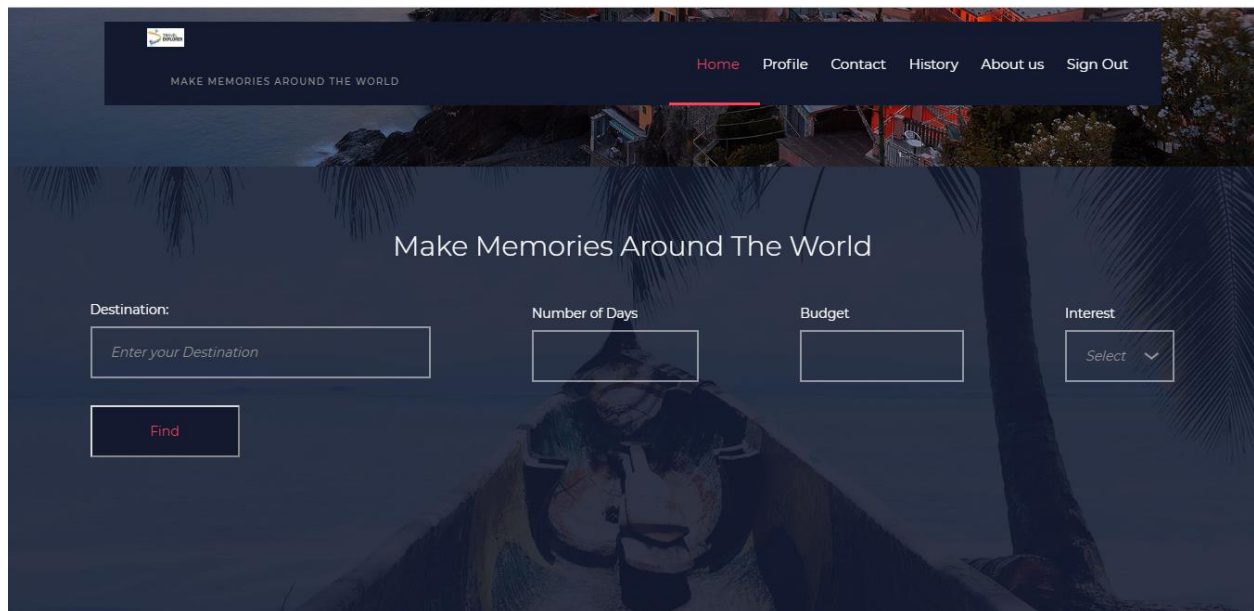


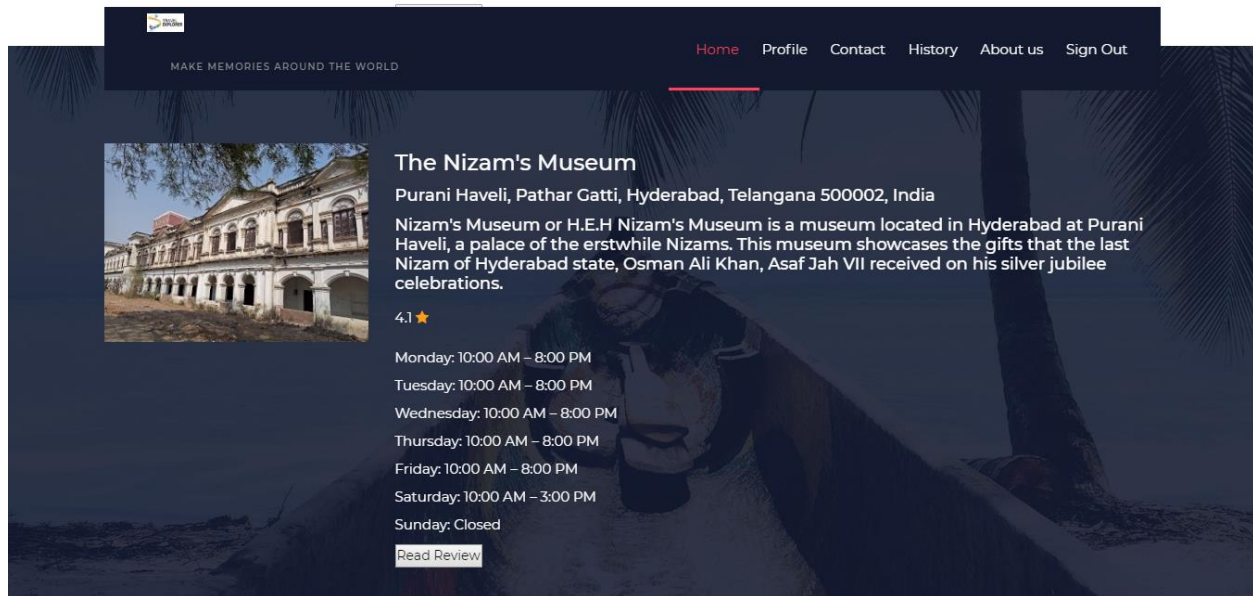
2.2 App Usage :

2.2.1 Home page

2.2.1.1 Home page of our application will take input from user

2.2.1.2 If the User enters all the fields and lick Find button , Application will show list of places user can visit in that place.





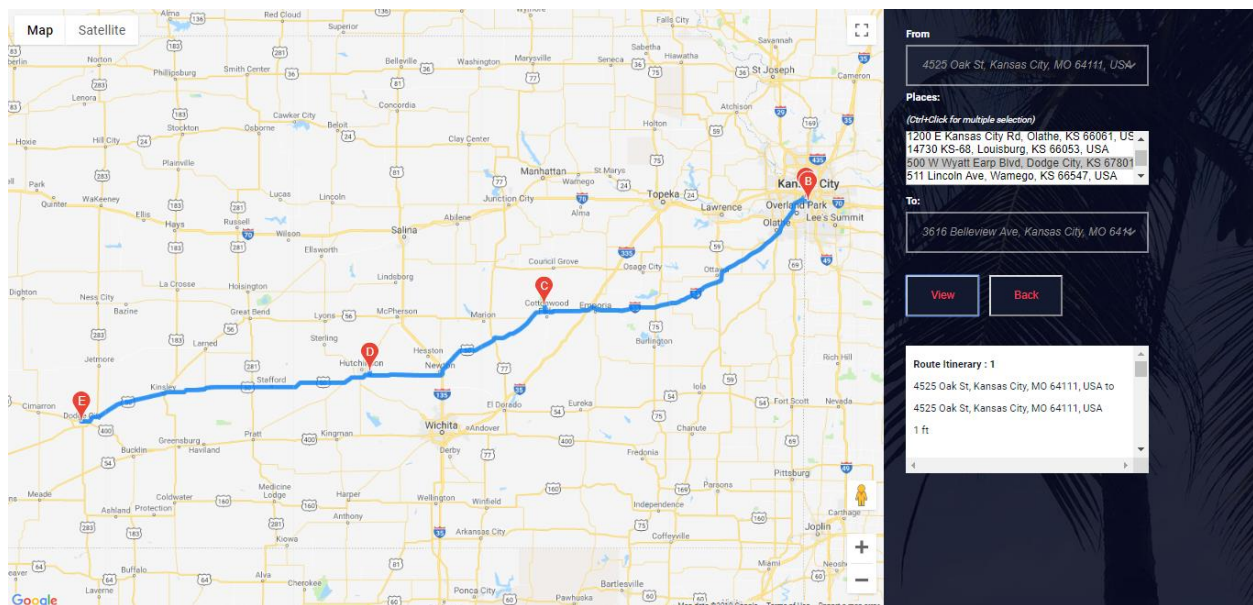
2.2.2. Make your own plan page

2.2.2.1. When user enters fields in home page and clicks make my own trip, user will be redirected to this page

2.2.2.2. This page will consist of all places user could visit in that area

2.2.2.3. User will be allowed to select the places user wants to visit

2.2.2.4. User will be given with the plan , which places to visit in sequence considering shortest distance



2.2.3. Itinerary page

2.2.3.1. When user enters all the fields in home page and clicks get Itinerary button user will be redirected to this page

2.2.3.2. Efficient plan will be provided to user based on users budget and number of days entered by the user.

Itinerary for your Trip! Have fun :)

[Get My Plan](#) [Back](#)

Your Itinerary for Day 1
Address: Musheerabad, Bholakpur, Kavadiguda, Hyderabad, Telangana 500020, India

Address: 5-38/2, Old Mumbai Hwy, LG Chitrapuri Colony, H.S Darga, Radhe Nagar, Hyderabad, Telangana 500008, India

Address: Nehru Outer Ring Road, Exit No. 13, Ravirala, Hyderabad, Telangana 501510, India

Your Itinerary for Day 2
Address: h.no, 8-78, Shankarpalli - Hyderabad Road, Kokapet, Hyderabad, Telangana 500075, India

Address: 22/9, Necklace Rd, Hussain Sagar, Khairatabad, Hyderabad, Telangana 500063, India

Address: Rallaguda Road, Lane Besides RGIA Police Station, Shamshabad, Hyderabad, Telangana 501218, India

Your Itinerary for Day 3
Address: Widia Colony, Miyapur,

Your Itinerary for Day 4
Address: 1233, Necklace Rd,

2.2.2. Search History

2.2.2.1. Previous searches user did will be shown in this page. It includes all the option that user selected while performing search.

30	s.pallavidesai@gmail.com	california	2017-11-29	2017-11-30	4352	Adventure
33	s.pallavidesai@gmail.com	california				Adventure
34	s.pallavidesai@gmail.com	california				Adventure
35	s.pallavidesai@gmail.com	california				Museum
36	s.pallavidesai@gmail.com	california				Adventure
37	s.pallavidesai@gmail.com	california				Adventure
38	s.pallavidesai@gmail.com	california				Adventure
39	s.pallavidesai@gmail.com	california				Adventure
40	s.pallavidesai@gmail.com	california				Adventure
41	s.pallavidesai@gmail.com	california				Adventure
42	s.pallavidesai@gmail.com	california				Adventure
43	s.pallavidesai@gmail.com	california				Adventure
44	s.pallavidesai@gmail.com	california				Adventure
45	s.pallavidesai@gmail.com	california				Adventure
46	s.pallavidesai@gmail.com	california				Adventure
47	s.pallavidesai@gmail.com	california				Adventure
48	s.pallavidesai@gmail.com	california				Adventure

3. Error recognition and handling -

3.1 Once the User views the itinerary from the application and clicks on map button to see the map of day, user can't return to the same itinerary page. User will have to go to home and then click button to return to the itinerary page.

4. Bugs and Deficiencies -

4.1 User will not be allowed to select multiple interests in out page

4.2 Budget we are considering do not include hotel and travelling charges

4.3 Our application will require some seconds to load all the data related to place since we are using multiple APIs.








Project Management

Project management report:

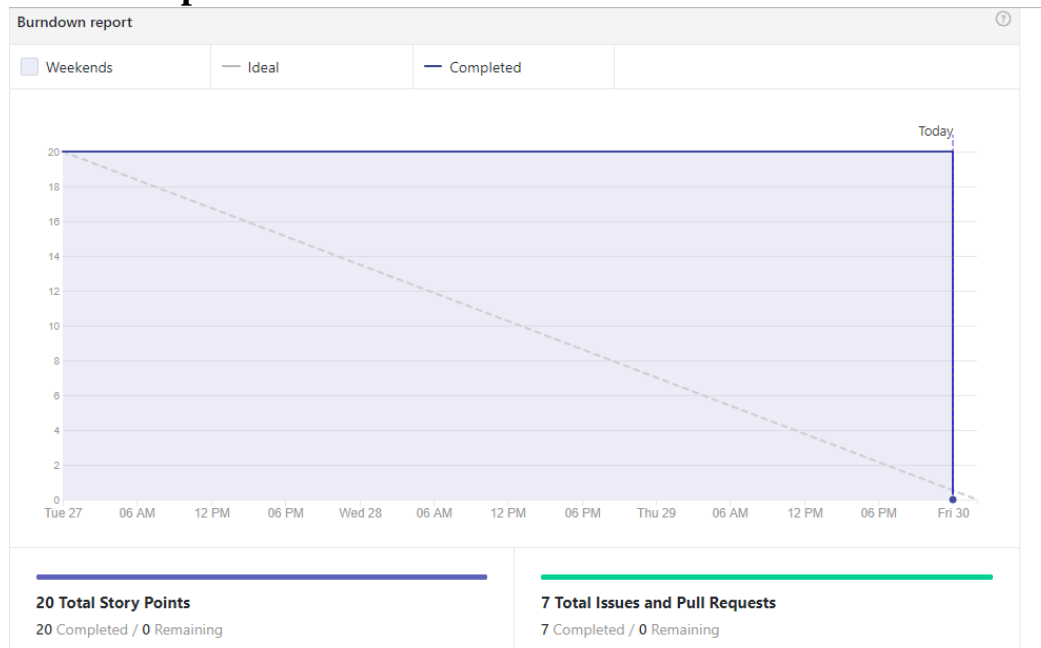
This is the first time that we were doing project with so neatly planned steps. We divided our project so that it will be completed in 3 increments and stuck to it.

Before starting each increment we first planned out what functionalities need to be implemented and made it as user stories. We then divided the user stories among themselves.

It went very smoothly and we all agree that Agile is the best for project development when we are developing a new product. We have used Zenhub to create user stories and manage them. Below I am including burndown chart and user stories of our increment 3 to demonstrate the point.

Completed Issues and Pull Requests	Story points
 Profile Page CS5551_Team8_Project #4 III Closed ↑ Increment 3	(2)
 History Page CS5551_Team8_Project #12 III Closed ↑ Increment 3	(2)
 Filtering the places based on user Budget CS5551_Team8_Project #13 III Closed ↑ Increment 3	(5)
 Improving UML Diagram CS5551_Team8_Project #14 III Closed ↑ Increment 3	(2)
 Node modules CS5551_Team8_Project #75 III Closed ↑ Increment 3	(3)
 Day wise Plan CS5551_Team8_Project #76 III Closed ↑ Increment 3	(3)
 Day Wise plan - Number of days CS5551_Team8_Project #77 III Closed ↑ Increment 3	(3)

ZenHub report:



Team member's contributions:

Every one of our team got equally involved in the all the phases of our project.
Each one of us were involved in design, coding and testing phases.

- Saran:
 - Saran was equally involved in all the phases of our project
 - Implemented Google Places search API for getting places of a particular city and sorted the places according to rating of the Places.
 - Handled all node mailer modules used in our project.
 - **Points: 25**
- Pallavi:
 - Pallavi was equally involved in all the phases of our project
 - Implemented Google Places Id API for getting the place weekly hour information and user reviews and Knowledge Graph API for getting the description of a particular place.
 - UI of our project was worked on by Pallavi.
 - **Points: 25**
- Harish:
 - Harish was equally involved in all the phases of our project
 - Migration from local storage to MongoDB for registering and login purposes, implemented Image API which displays the image by taking the photo reference string from Places Search API.
 - Storing user details and all monogo CRUD operation was handled by Harsih
 - **Points: 20**
- Neeraj:
 - Neeraj was equally involved in all the phases of our project
 - Implemented google maps API including the way points, where the user enters from, to and can add waypoints in between. The result would display the itinerary from one location to another location based on their distances.
 - Neeraj took care of all maps and its implementation of maps in our project
 - **Points: 20**

Final project evaluation:

- *How well your project satisfies your original requirement specifications?*
 - We have implemented almost 90% of our requirements we had set .
 - We need to focus more on nonfunctional requirements of our project
- *Were you satisfied with your design process?*
 - The design process of our project went good. But later in development phase we had to change some design ideas. But basic idea was kept intact and yes we are satisfied.
- *How helpful was the agile process? How would you do the agile process next time?*
 - It was very helpful to plan our tasks accordingly and I strongly refer this for projects with team.
- *Did you stick to your project plan schedule?*
 - I would say big yes to this question
 - We started doing things very early to stick to our plan
- *What was the real management structure within your group?*
 - Saran acted as scrum master for us and all team members were actively involved in design and we loved our team work.
- *Does it bear any resemblance to structure that you had planned?*
 - Looks similar in big picture but small details are modified.
- *Did you have any problems getting each member to do his/her share of the work?*
 - Zenhub did the job for us and no did not have any problem.
- *Do you have any suggestion on how this could have been handled better?*
 - We liked the way it is done.
- *Discuss what you might have done differently if this were a real world project?*
 - We did not think of scalability as issue now but we know its going to be big issue in real world application. May be we might have focused on it more.
- *Any recommendations for next year?*
 - Check demo of projects thoroughly

Presentation Slides

Slide1:



Slide2:

Objective:

To create an application which gives a better travel plan to the user based on his interests, budget and duration of the trip.

Targeted Users:

Anyone who is looking for a best travel plan

Slide 3:

Existing Applications

- Google Trips
- TripAdvisor
- Triplt
- Skiplagged
- MakeMyTrip
- Yatra



UMKC

Slide 4:

Unique Features

We consider below for making a better plan.

- Budget
- Interest of the user



WHAT'S YOUR
TOP TRAVEL
INTEREST?

UMKC

Slide 5:

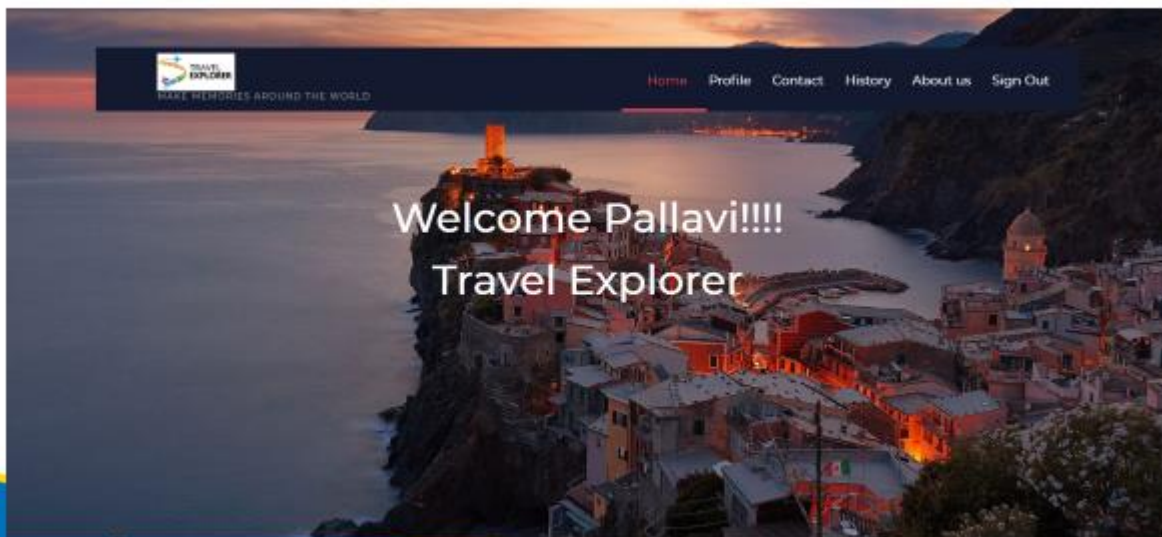
Features

- Interest and User review based sorting
- User customized plan
- Search History
- Day wise plan (Budget and shortest path)
- View Day wise plan

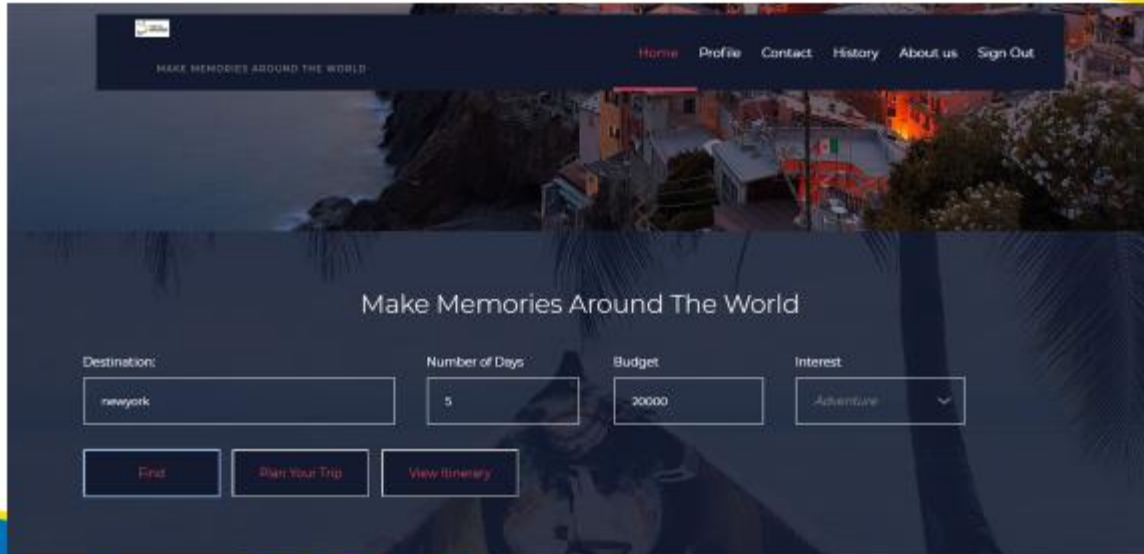


Slide 6:

Home Page



Slide 7:



UMKC

MAKE MEMORIES AROUND THE WORLD

Home Profile Contact History About us Sign Out

Make Memories Around The World

Destination:

Number of Days:

Budget:

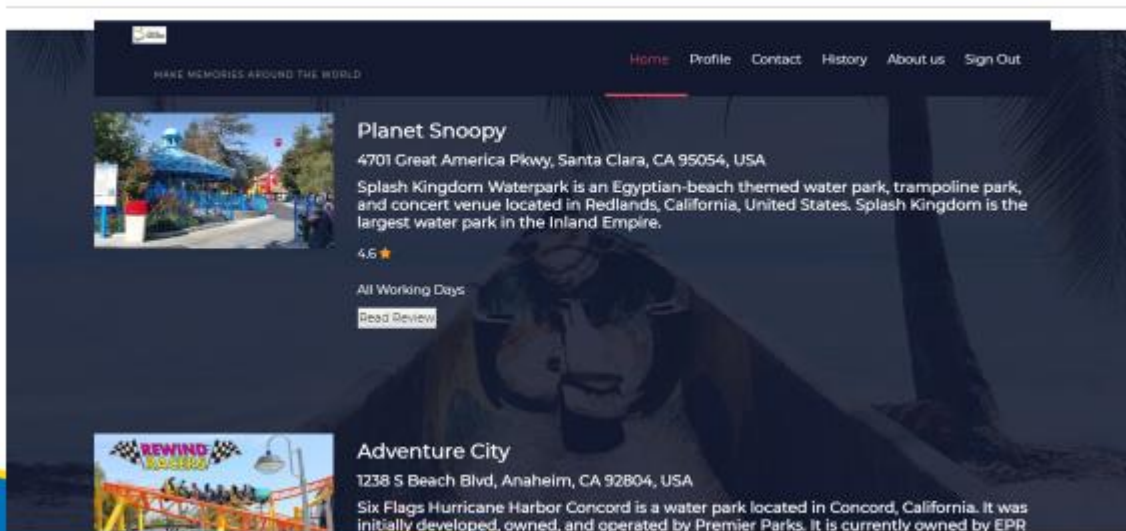
Interest:

[Find](#) [Plan Your Trip](#) [View Itinerary](#)

UMKC

Slide 8:


Interest and User review based sorting




UMKC

MAKE MEMORIES AROUND THE WORLD

Home Profile Contact History About us Sign Out



Planet Snoopy
4701 Great America Pkwy, Santa Clara, CA 95054, USA
Splash Kingdom Waterpark is an Egyptian-beach themed water park, trampoline park, and concert venue located in Redlands, California, United States. Splash Kingdom is the largest water park in the Inland Empire.
4.6 ★
All Working Days
[Read Review](#)



Adventure City
1238 S Beach Blvd, Anaheim, CA 92804, USA
Six Flags Hurricane Harbor Concord is a water park located in Concord, California. It was initially developed, owned, and operated by Premier Parks. It is currently owned by EPR

UMKC

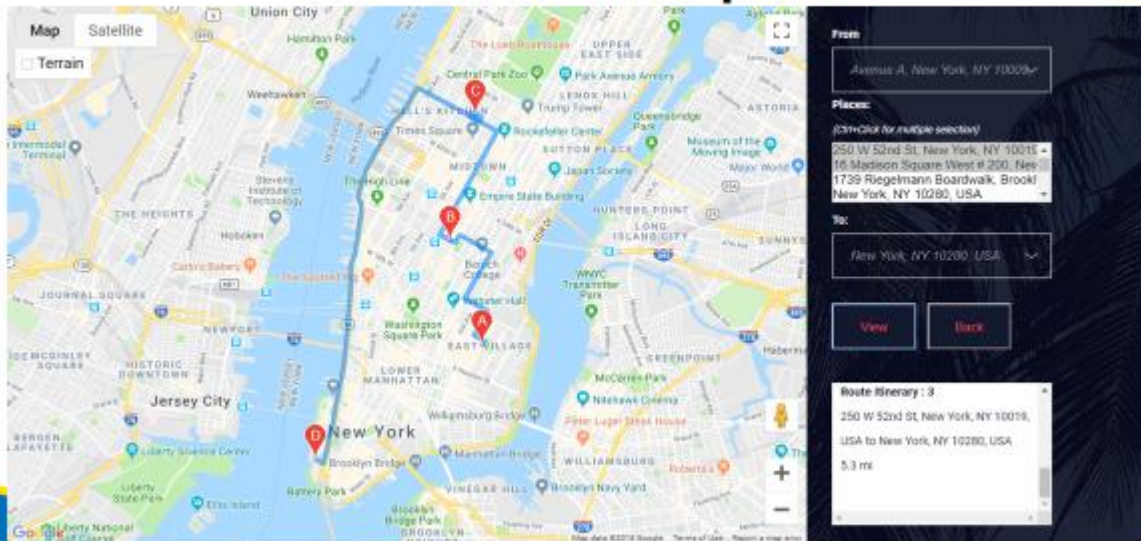
Slide 9:

User Review



Slide 10:

User customized plan



Slide 11:

Day wise plan

Itinerary for your Trip! Have fun :)

[Get My Plan](#) [Back](#)

Your Itinerary for Day 1

Address: Avenue A, New York, NY 10009, USA

Address: 250 W 52nd St, New York, NY 10019, USA

Address: 16 Madison Square West # 200, New York, NY 10016, United States

[View It on Map](#)

Your Itinerary for Day 2

Address: 1739 Riegelmann Boardwalk, Brooklyn, NY 11224, USA

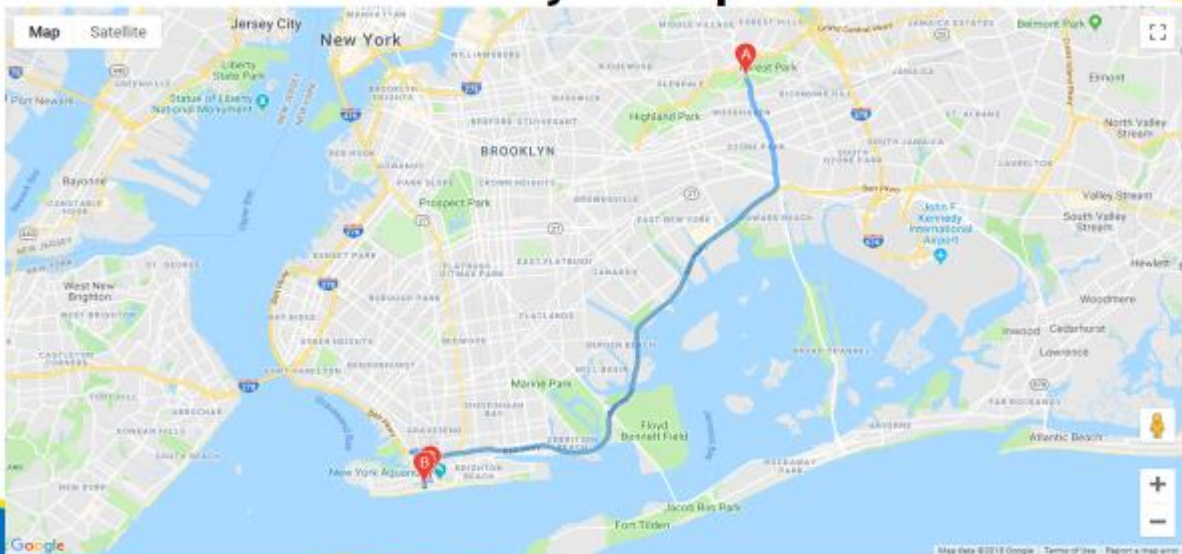
Address: New York, NY 10286, USA

[Address: 400 Park Avenue St, Brooklyn, NY 11205, USA](#)

UMKC

Slide 12:

View Day wise plan



UMKC

Slide 13:

APIs Used

- Google Place Search
- Google Place Id
- Knowledge Graph Search
- Google Maps



Slide 14:

Future Enhancements

- Taking multiple interests into consideration
- Giving an option to chose mode of transportation
- Budget estimates including hotel, mode of transportation
- Provide links for coupon codes for visiting a place



Project Proposal and Plan

1. Project Team

Saran Akkiarju - 2
Pallavi Desai – 62
Harish Tata – 50
Mastan Krishna Neeraj Padarathi - 37

2. Project Goal:

Motivation:

Planning a vacation within budget takes serious brainstorming, specially if someone is new to that area. May be vague plan we do cost lot of money than it would cost with a proper plan. Or if we just stick to budget we may miss out places worth visiting in that area. So it would be very convenient if there is a system that takes all our interests and duration and give us appropriate plan taking into consideration of our time, money and interest constraints.

Significance:

There are many existing websites which gives us travel guidance. These websites are well established and are friendly to use, for example take google travel or make my trip etc. But what they do lack is they do not take users concerns like what user likes to visit or is it within budget of user or duration all together. Usually the important concern will be budget which no other existing website will cover.

Objectives:

Primary objective of this project is to provide user with a felicitous plan by taking user's input like budget, duration and interests. User will have to select interests like adventurous, pilgrimages, scenic, cultural. User will be getting plan that is within budget of user and covers user's interests and fits within duration.

System Features:

- I. User shall be able to login to system using username and password.
- II. User shall be able to register if he/she do not have account yet.
- III. User shall be able to login using Google and Facebook.
- IV. User shall use the system with good and interactive GUI.
- V. User shall able to input interests, duration and Budget.
- VI. System shall have germane algorithm which will come up with a proper plan that is within budget and duration mentioned and includes user's interest.
- VII. User shall able to view plan with understandable layout.

3. Related Work:

There is existing application "Google trips" which gives appropriate plans based on user interest.

Project First Increment Report

Features developed for Increment1:

1. Homepage
2. Login/Logout feature
3. Registration page
4. Contact Us page
5. About Us page

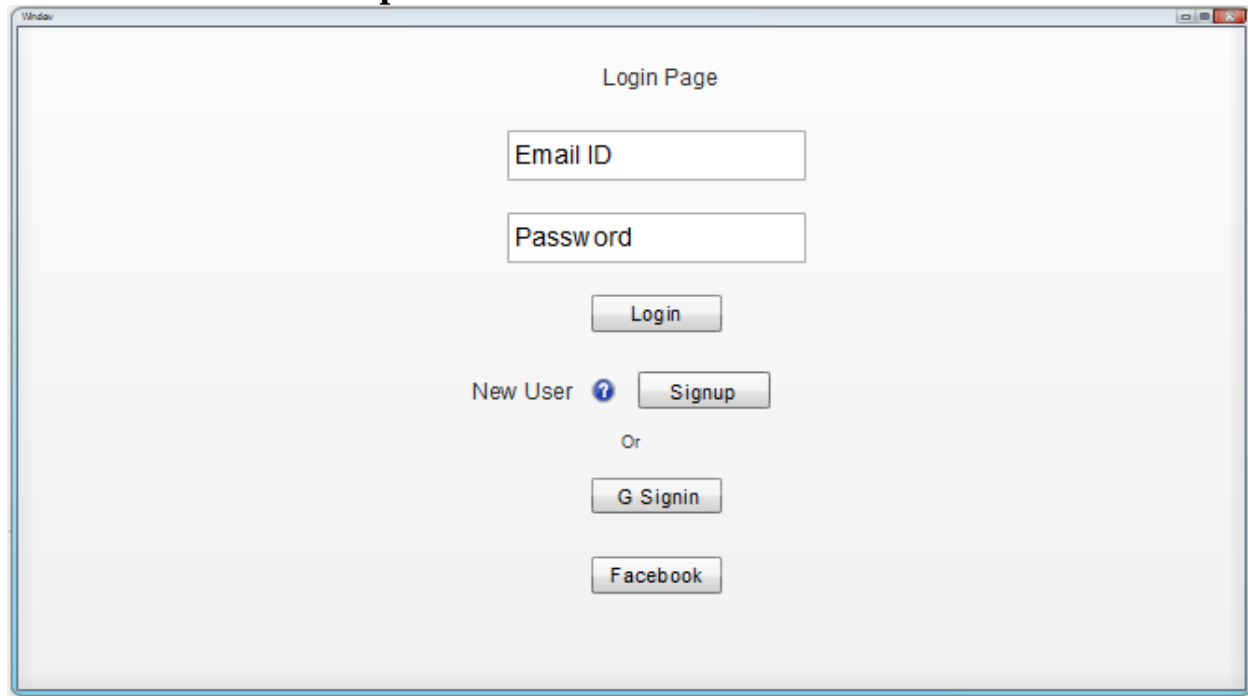
Existing Services/REST API:

<https://developers.google.com/knowledge-graph/>

<https://console.developers.google.com/google/maps-apis/>

Detail Design of Features:

1. Wireframes& mockup:



The image shows a wireframe mockup of a login page within a window titled "Login Page". The page contains the following elements:

- An "Email ID" input field.
- A "Password" input field.
- A "Login" button.
- A "New User" link with a question mark icon, followed by a "Signup" button.
- An "Or" separator.
- A "G Signin" button.
- A "Facebook" button.

The image displays two screenshots of a web application. The top screenshot shows a 'Register Page' with a light gray background. It features a series of input fields for user registration: 'First Name' and 'Last Name' (side-by-side), 'Email', 'Password', 'Confirm Password', 'Security Question', and 'Answer'. Below these fields is a text line stating 'By creating an account you agree to terms and conditions' and a 'SignUp' button. The bottom screenshot shows an 'About Page' with a light gray background. It has a navigation bar at the top right with links: 'HomePage', 'About us', 'Contact Us', and 'Sign Out'. The main content area contains the text 'About our Application and developers' inside a white rectangular box.

Register Page

First Name Last Name

Email

Password

Confirm Password

Security Question

Answer

By creating an account you agree to terms and conditions

SignUp

About Page

HomePage About us Contact Us Sign Out

About our Application and developers

Basic Functionality:

First thing that a user should be seeing is a Login page, which has a username and password fields. Once the user provides his/her username and password he/she will be prompted to home page. Login can also be done using Google and Facebook.

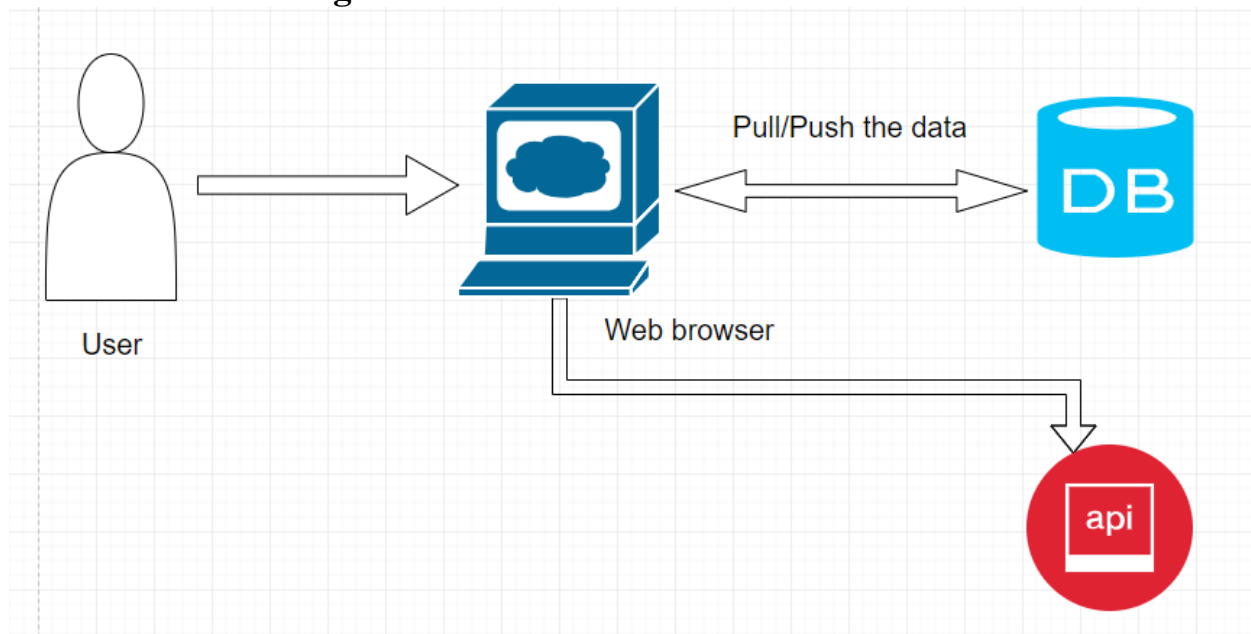
User registration is required before logging into the application, on clicking Sign up here link in the login page, user will be prompted to Registration page, where user has to enter details like First name, Last name, Email id, Password, Conform Password, Security question and its Answer, a link to comply with Terms and conditions and then press Signup button.

After successful registration user will be asked to login to the application, after logging in user will be prompted to Home page. Home page consists of tabs to Contact Us, About Us pages where user can see the details of Admin and about the application details.

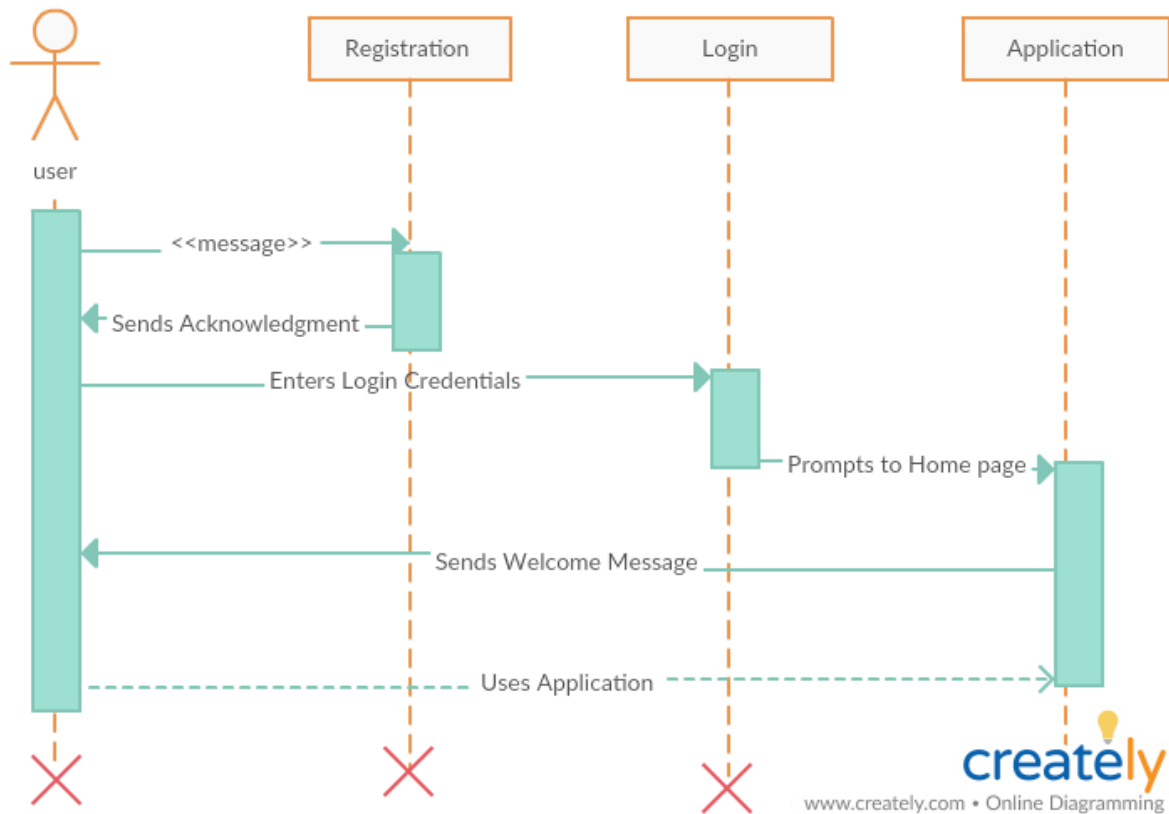
In Home Page we have 5 fields Destination(Place field), Date (from and to), Budget and Interest. User have to give the destination (place field) and interest. The places list with fields like Name, Address, Rating, Weekday hours and user reviews are shown of that place based on the Destination and Interest given by the user.

Any point of time user can logout from the system upon pressing Logout button.

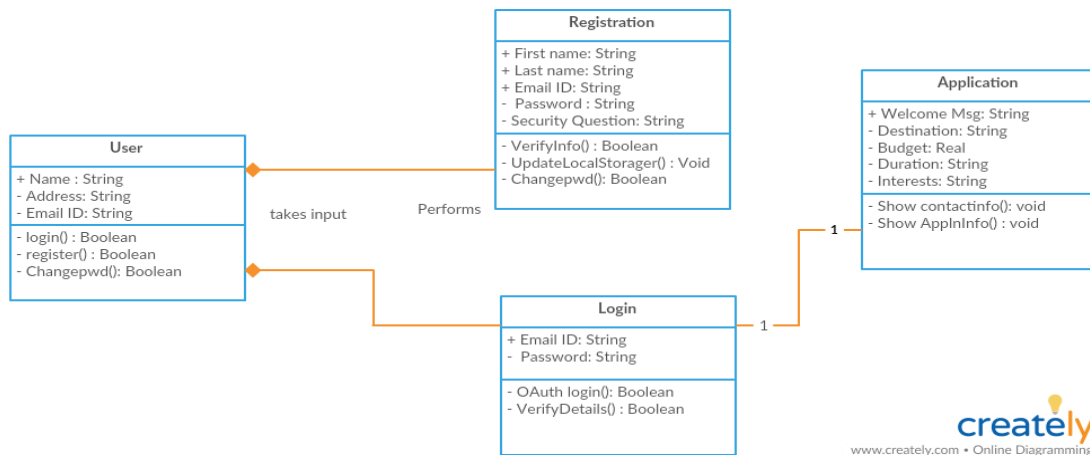
2. 1 Architecture diagram:



2.2 Sequence Diagram:



2.3 Class Diagram:



3. User Stories

As a	I want to	So that
User	Login using user name and password.	I can use website.

4.

User	Register, if I do not have account.	I can login and use website.
User	Login Using Google and Facebook.	I don't have to register and directly can use system.
User	Contact developers and Know about website	I can ask for assistance if I have any queries and I can understand how to use website.
User	.Create UML Diagrams	Structure and flow of code will be understood

Testing

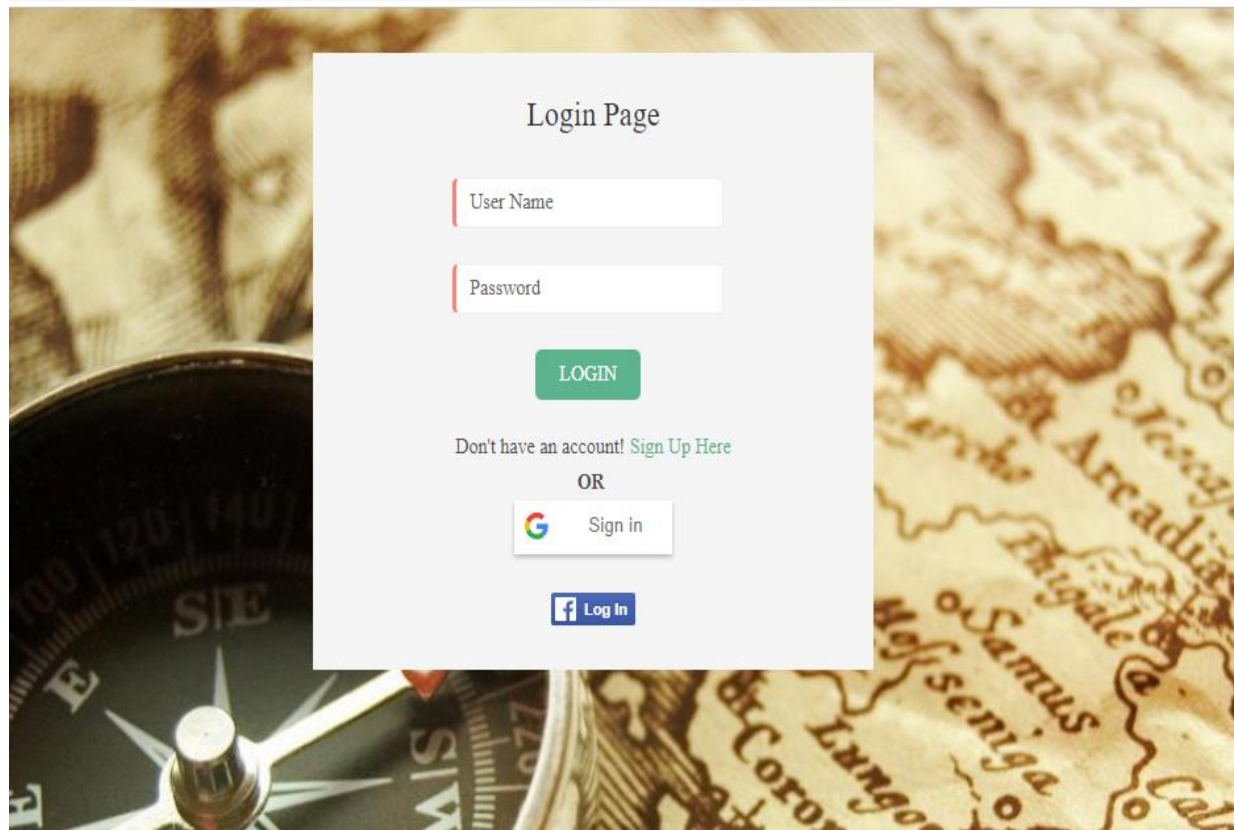
ID	Test Case	Test Case Description	Input	Expected	Result
1.1	Register	Open Web application and select new user and signup option.	User clicks on signup button.	Register page opens up.	Pass
1.2	Register	User enters first name with only alphabets.	User fills out first name field.	Application should accept it	Pass
1.3	Register	User fills out first name fields with numbers or Special characters.	User fills out first name field.	Application should show error message.	Pass
1.4	Register	User enters last name with only alphabets.	User fills out last name field.	Application should accept it	Pass
1.5	Register	User fills out last name fields with numbers or Special characters.	User fills out last name field.	Application should show error message.	Pass
1.6	Register	User fills out email which is preceded with @ and .com	User fills out email fields.	Application should accept it	Pass
1.7	Register	User fills out email which is not preceded with @ and .com	User fills out email fields.	Application should show error message.	Pass
1.8	Register	Password and confirm password matches.	User fills out password and confirm password field.	Application should accept it	Pass
1.9	Register	Password and confirm password doesn't match.	User fills out password and confirm password field.	Application should show error message.	Pass
1.10	Register	User leaves Mandatory field empty.	User fills out input fields.	Application should show error message	Pass

1.11	Register	User fills out all Mandatory fields.	User fills out input fields.	Application should accept it	Pass
1.12	Register	After entering input fields User clicks Register button.	User click Register button.	All input entered by user should be taken and stored and is redirected to login page.	Pass
2.1	Login	With Valid Username and Password.	User enters Valid Username and Password. And press login button	Should redirect Home page	Pass
2.2	Login	With Invalid Username and valid Password.	User enters invalid Username and valid Password and press login button	Should Show incorrect Username error message	Pass
2.3	Login	With Valid Username and invalid Password.	User enters Valid Username and invalid Password and press login button	Should Show incorrect password error message	Pass
2.4	Login	With invalid Username and invalid Password.	User enters invalid Username and invalid Password and press login button	Show incorrect credentials error message	Pass
2.5	Login	User without registration can also login using Google.	User enters correct Google credentials.	Redirects to homepage.	Pass
2.6	Login	User without registration can also login using Google.	User enters incorrect Google credentials.	Google shows error message.	Pass
2.7	Login	User without registration can also login using Facebook.	User enters correct Facebook credentials.	Redirects to homepage.	Pass
2.8	Login	User without registration can also login using Facebook.	User enters incorrect Facebook credentials.	Facebook shows error message.	Pass

3.1	About	User Successfully logins and press About tab.	User press About button.	About Page should open that contains website details.	Pass
4.1	Contact	User Successfully logins and press Contact tab.	User press Contact button.	About Page should open that contains contact details.	Pass
5.1	Logout	User will be logged out from website.	User clicks logout button.	Should be logged out of application and redirected to login page.	Pass

Travel Explorer – Web Application:

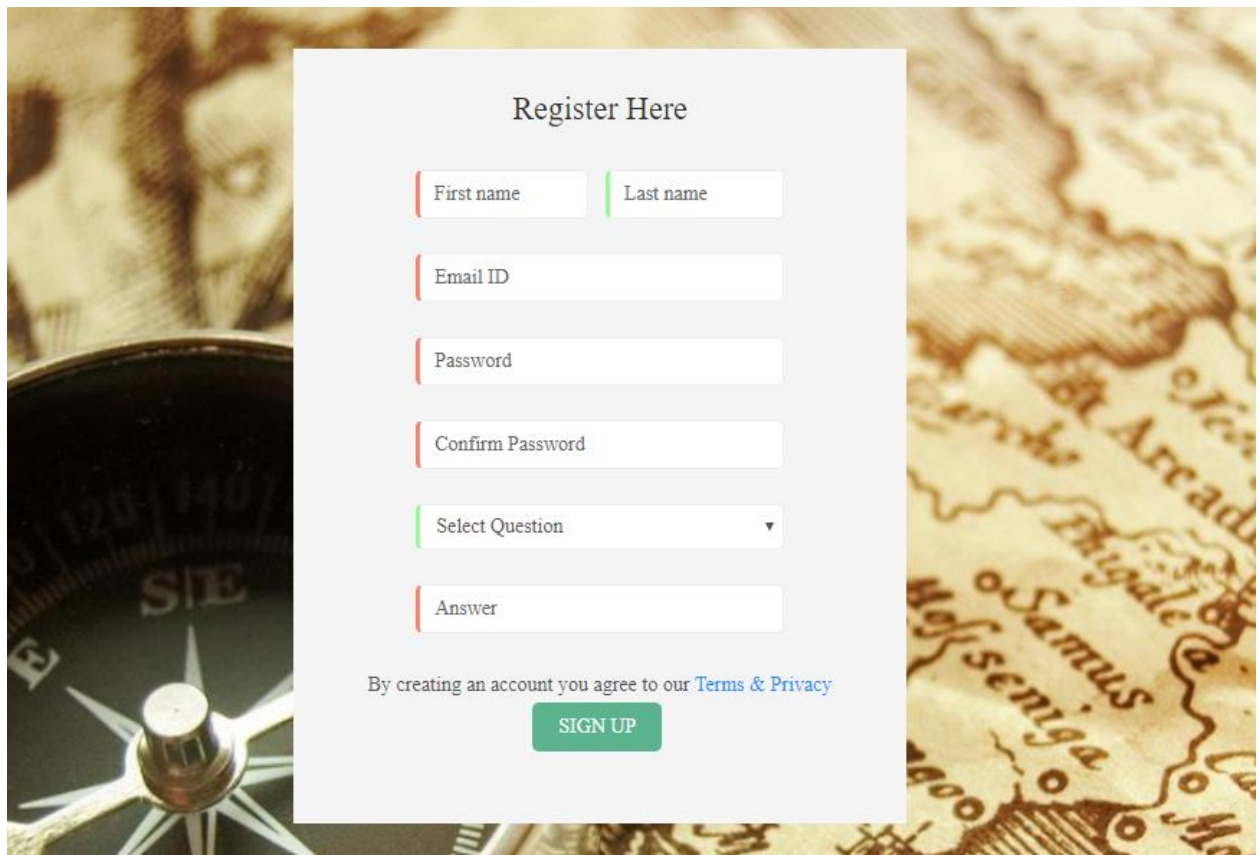
Login Page



This is the first page that a user will be seeing upon reaching to website. Registration of a user is must before logging into the system. User can login with his credentials entered during Registration or can login using Google or Facebook authentication.

User will be successfully logged into the system if Credentials are right, if Username and Password does not match, user will be prompted that the credentials are wrong.

Registration Page



The registration form is titled "Register Here" and is centered on a light gray background. It contains the following fields: "First name" and "Last name" (split into two adjacent boxes), "Email ID", "Password", "Confirm Password", "Select Question" (a dropdown menu), and "Answer". Below the fields, there is a line of text: "By creating an account you agree to our [Terms & Privacy](#)". At the bottom of the form is a green button labeled "SIGN UP". The background of the entire page features a sepia-toned old map with various place names like "Arcadia", "Migale", "Samus", and "seniga", and a compass rose in the bottom left corner.

Upon clicking Sign Up Here link in the Login Page user will be prompted to Registration page, here user should enter the details like First Name, Last Name, Password, Confirm Password, Choose a Security Question, Answer for it and has to agree to Terms and conditions. Upon pressing Signup button user will be successfully registered.

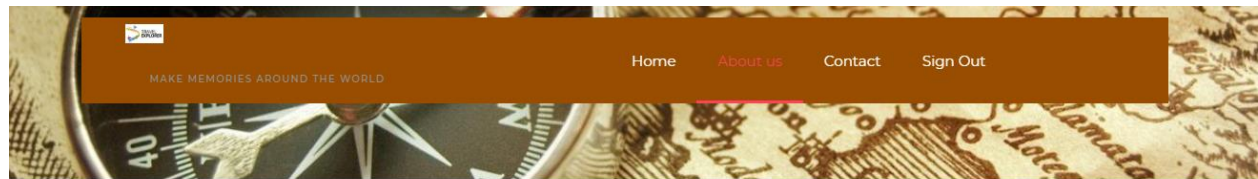
User will now be prompted to Login Page, Some fields in the Registration Page are mandatory.

Home Page

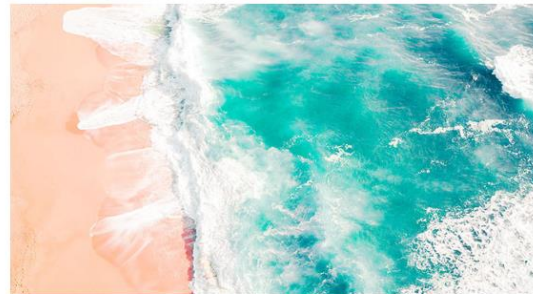


Home page consists of a Tab which links to Contact, About Us pages and to Logout from the System. It takes the User Input of Destination, from and to dates of the trip, Budget of the User and Interests.

About Us

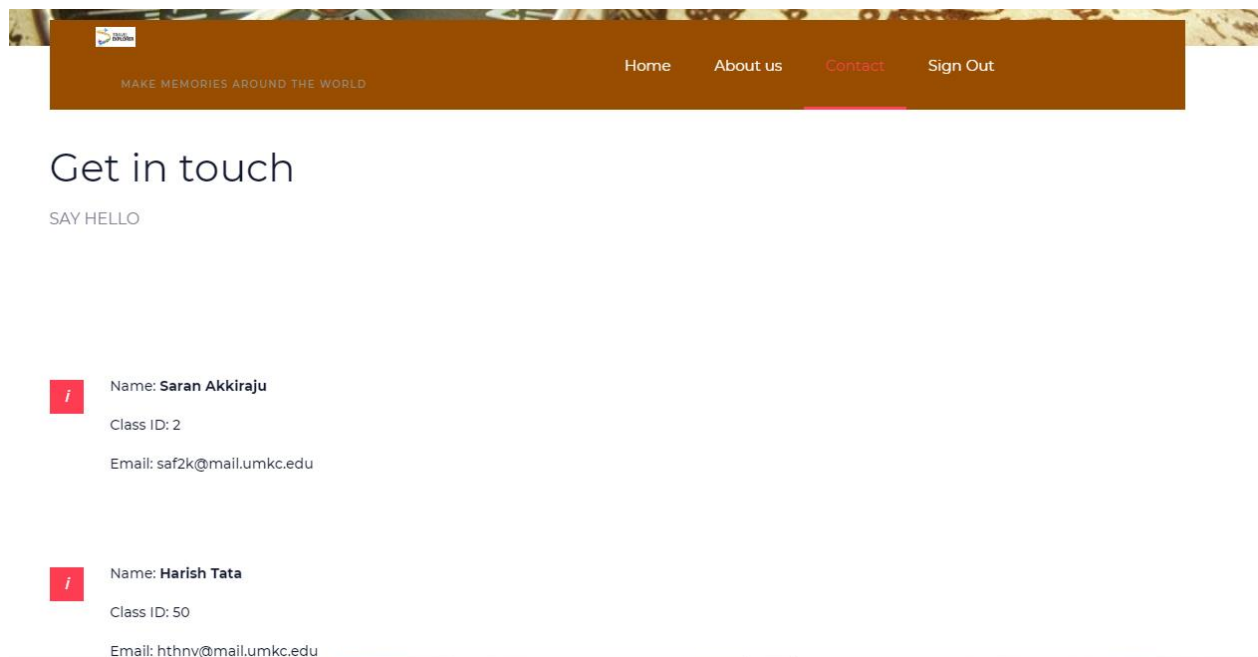


Are you making plans for visiting a place? A fun trip with family and friends? Not sure of the places to Visit? Worried about the budget and the best plan for the trip? Don't worry we are here to help you. Give us the destination that you want to visit, length of travel, budget and interests we would give you set of best plans under the budget that you expect.



This page tells about why a user should be using our website.

Contact Page



Please find Github Wiki below:

https://github.com/shannu1221/CS5551_Team8_Project/wiki/Project-Increment-1

**Project Management
Board Issues:**

✕ Clear current search query, filters, and sorts

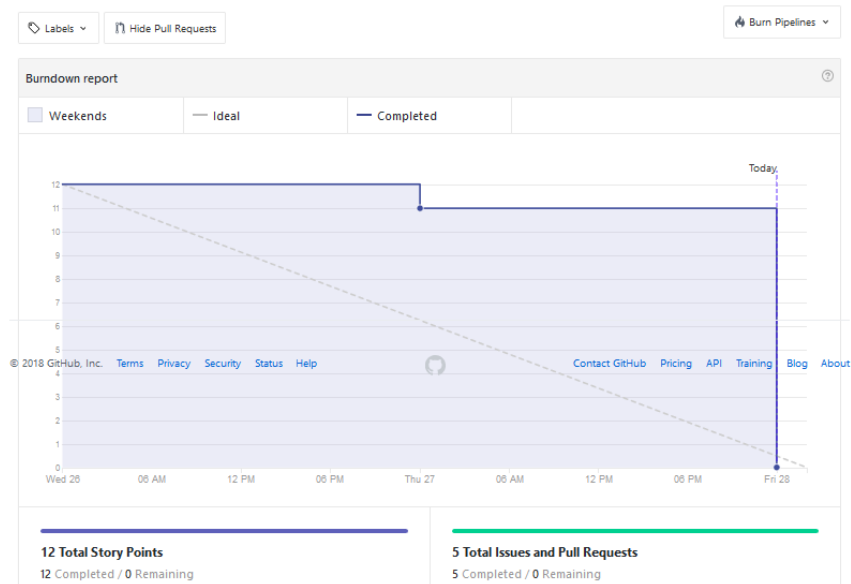
	9 Open	5 Closed	Author	Labels	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>	<input checked="" type="checkbox"/>	UML Diagram 1						3
		#6 by neerajpadartha was closed 23 hours ago						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Home Page 3						1
		#5 by neerajpadartha was closed 43 minutes ago						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	About us and Contact Us page 3						
		#3 by neerajpadartha was closed a minute ago						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Login Page creation 3						2
		#2 by neerajpadartha was closed an hour ago						
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Signup/Register Page 2						2
		#1 by neerajpadartha was closed an hour ago						

💡 ProTip! Find everything you created by searching [author:htata31](#).

ZenHub report:

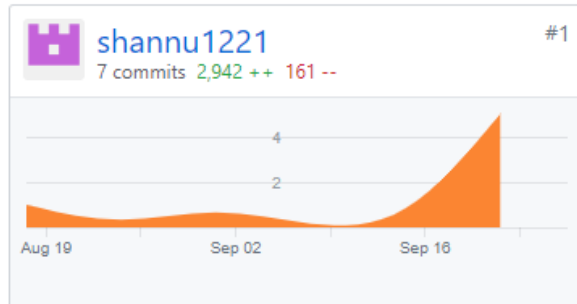
Increment 1

Start Sep 26, 2018 [Change](#) Due by Sep 28, 2018 - Due today [Change](#)



Contribution chart:

Contributions to master, excluding merge commits



Project Second Increment Report

Features developed for Increment2:

6. Displaying places of a city, given destination from the user
7. Displaying places of Interest, given destination and Interest from the user
8. Displaying User reviews of a given place
9. Migrating from Local Storage to Mango DB

Existing Services/REST API:

<https://console.developers.google.com/google/maps-apis/>

<https://developers.google.com/places/web-service/search>

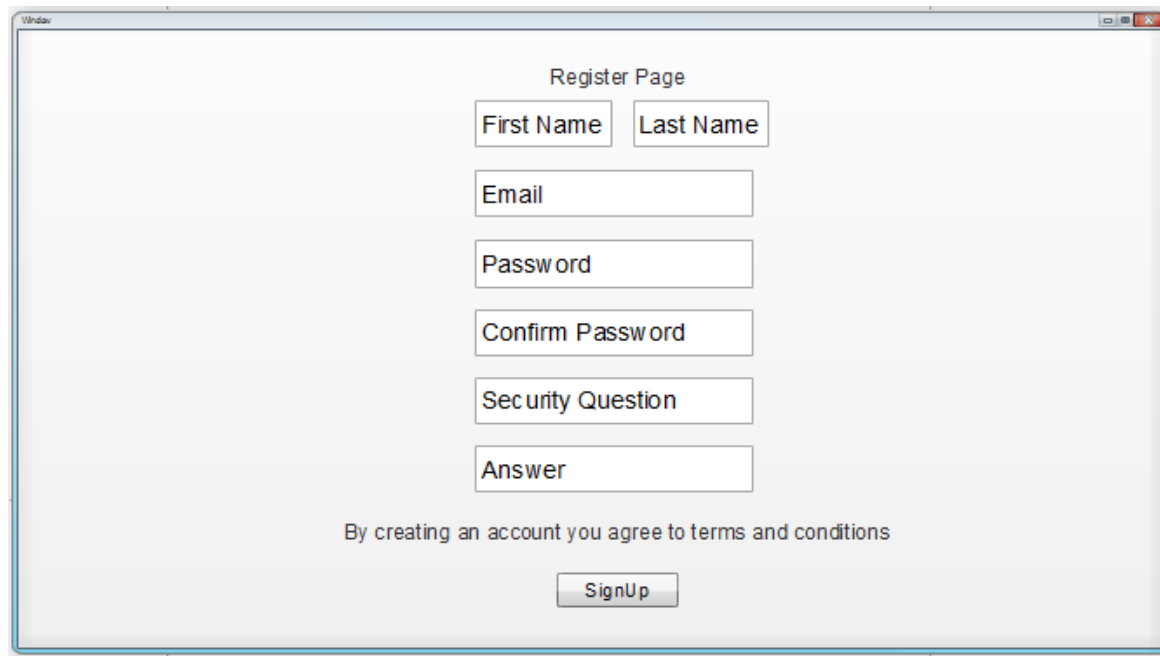
<https://developers.google.com/places/web-service/details>

<https://developers.google.com/places/web-service/photos>

Detail Design of Features:

1. Wireframes& mockup:

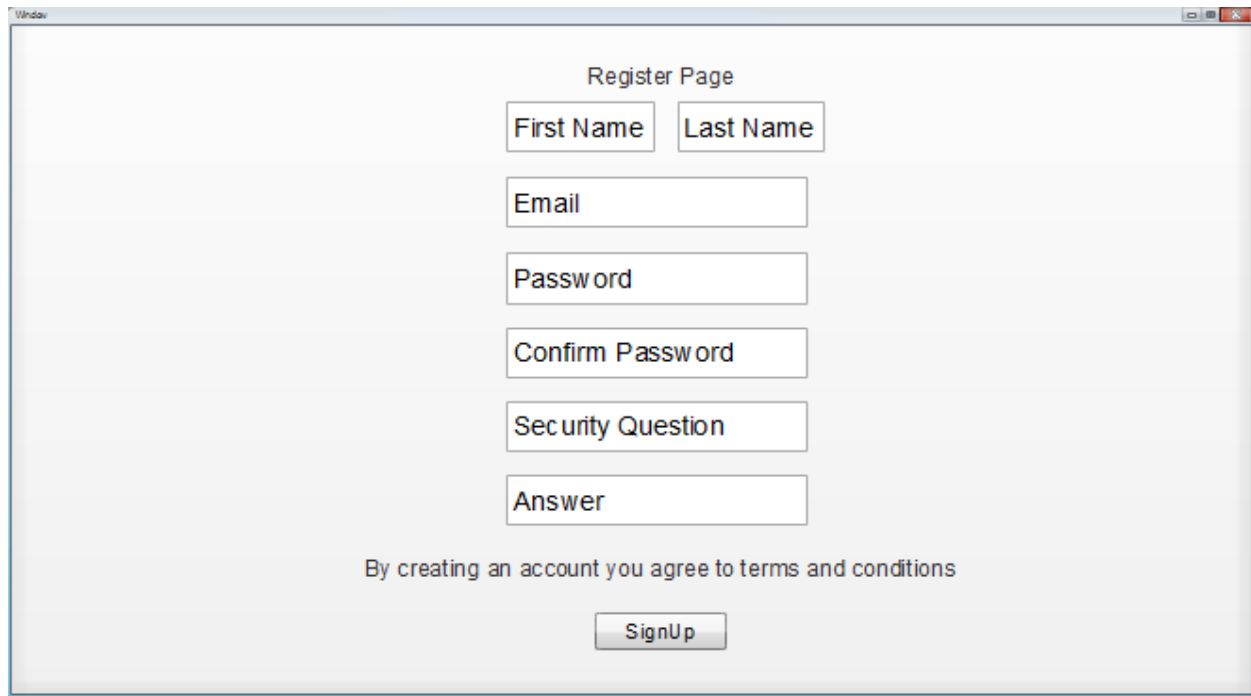
a) Login Page



The image shows a wireframe of a 'Register Page' within a window titled 'Window'. The page contains the following elements:

- Title: Register Page
- Input fields: First Name, Last Name, Email, Password, Confirm Password, Security Question, Answer.
- Text: By creating an account you agree to terms and conditions
- Button: SignUp

b) Register Page



Register Page

First Name Last Name

Email

Password

Confirm Password

Security Question

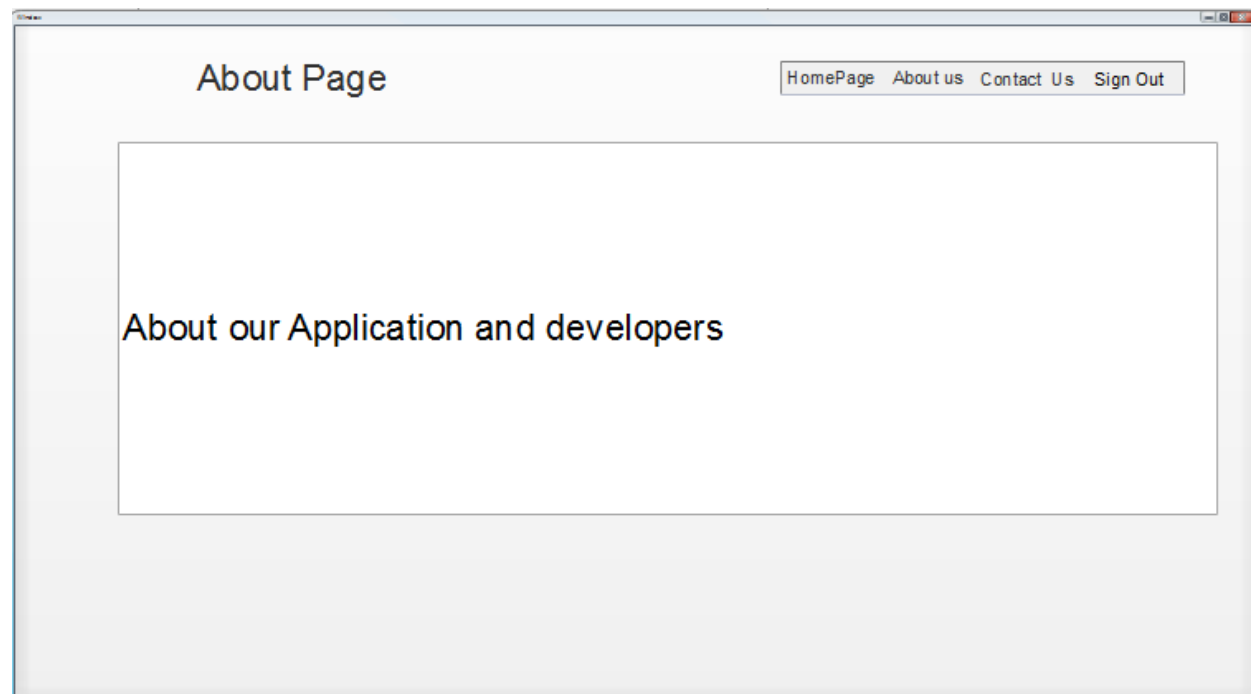
Answer

By creating an account you agree to terms and conditions

SignUp

This screenshot shows a web browser window titled 'Register Page'. It contains a registration form with the following fields: 'First Name' and 'Last Name' (side-by-side), 'Email', 'Password', 'Confirm Password', 'Security Question', and 'Answer' (all stacked vertically). Below the form, there is a line of text: 'By creating an account you agree to terms and conditions', followed by a 'SignUp' button.

c) About Page



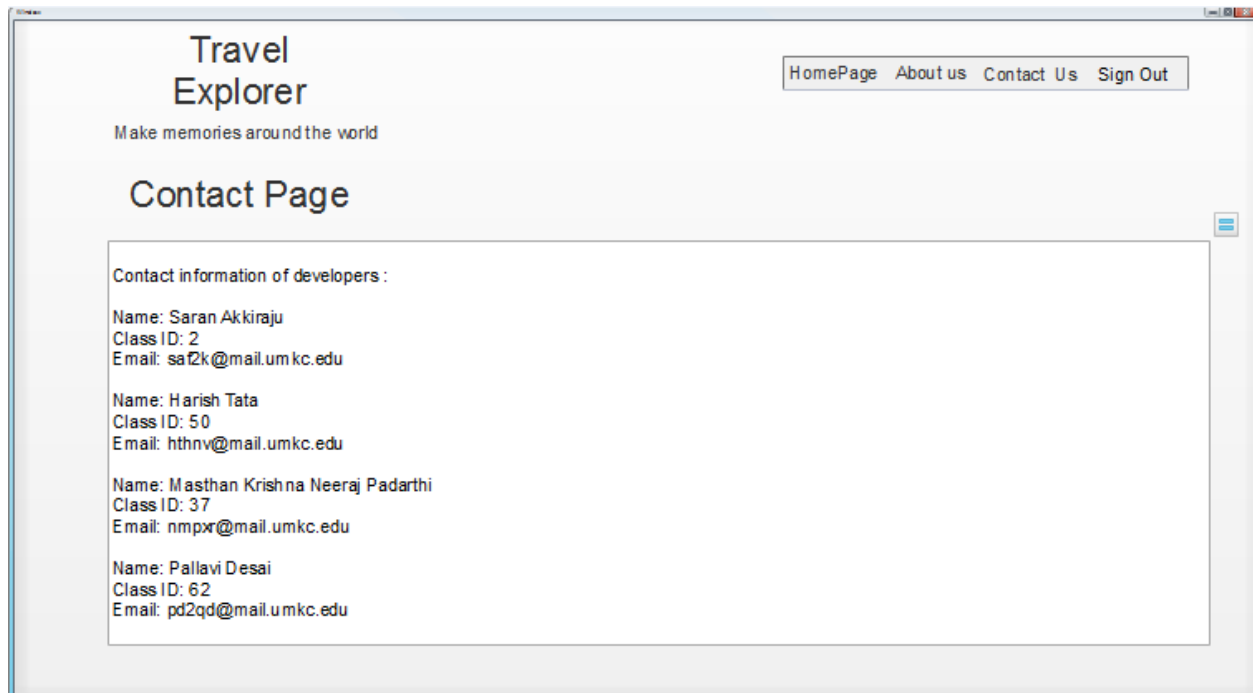
About Page

HomePage About us Contact Us Sign Out

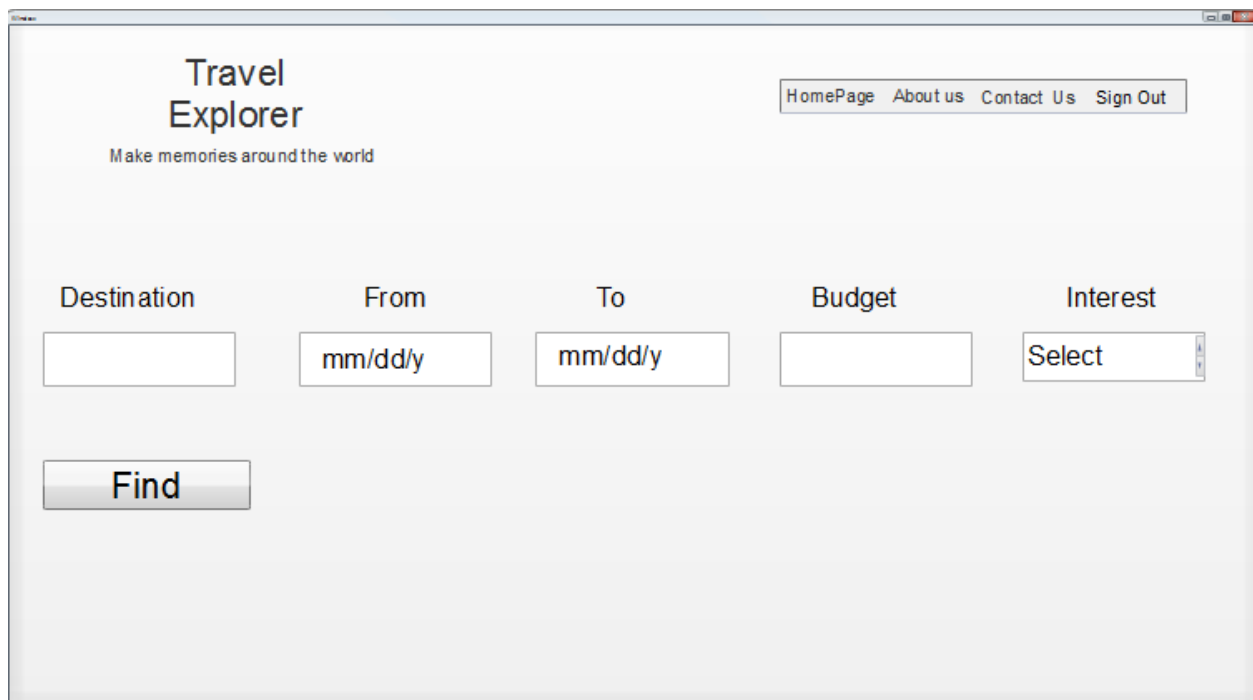
About our Application and developers

This screenshot shows a web browser window titled 'About Page'. At the top right, there is a navigation bar with links: 'HomePage', 'About us', 'Contact Us', and 'Sign Out'. The main content area contains a large rectangular box with the text 'About our Application and developers' inside it.

d) Contact Page



e) Home Page



f) Displaying search results in Home Page

Basic Functionality:

First thing that a user should be seeing is a Login page, which has a username and password fields. Once the user provides his/her username and password he/she will be prompted to home page. Login can also be done using Google and Facebook.

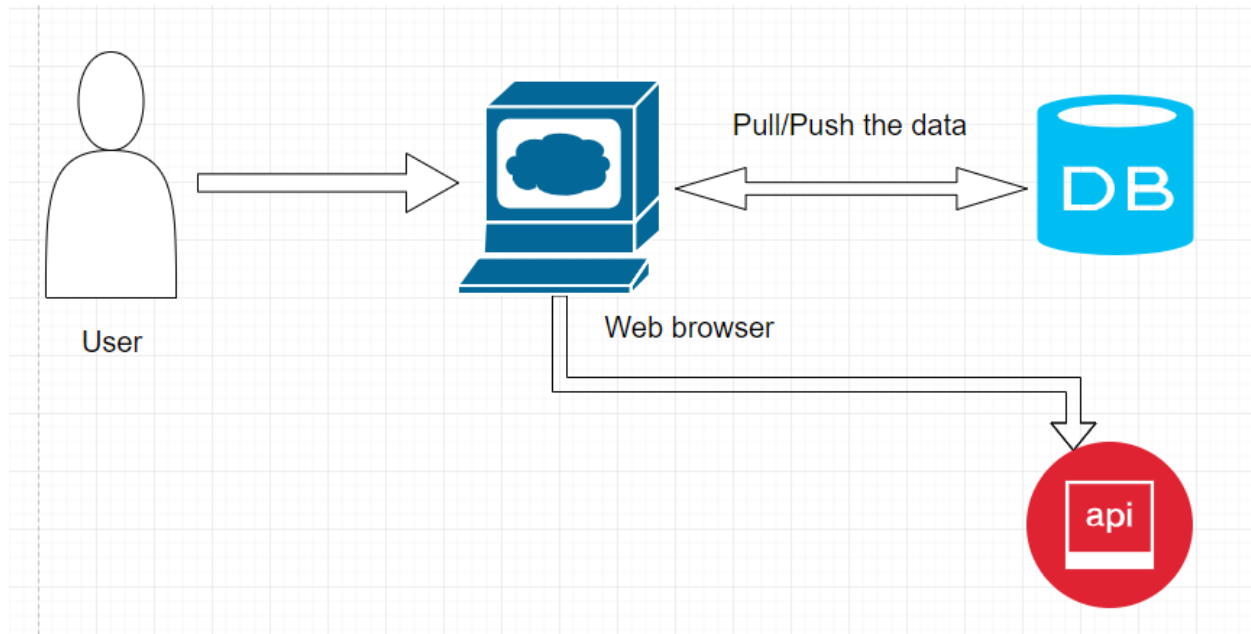
User registration is required before logging into the application, on clicking Sign up here link in the login page, user will be prompted to Registration page, where user has to enter details like First name, Last name, Email id, Password, Conform Password, Security question and its Answer, a link to comply with Terms and conditions and then press Signup button.

After successful registration user will be asked to login to the application, after logging in user will be prompted to Home page. Home page consists of tabs to Contact Us, About Us pages where user can see the details of Admin and about the application details.

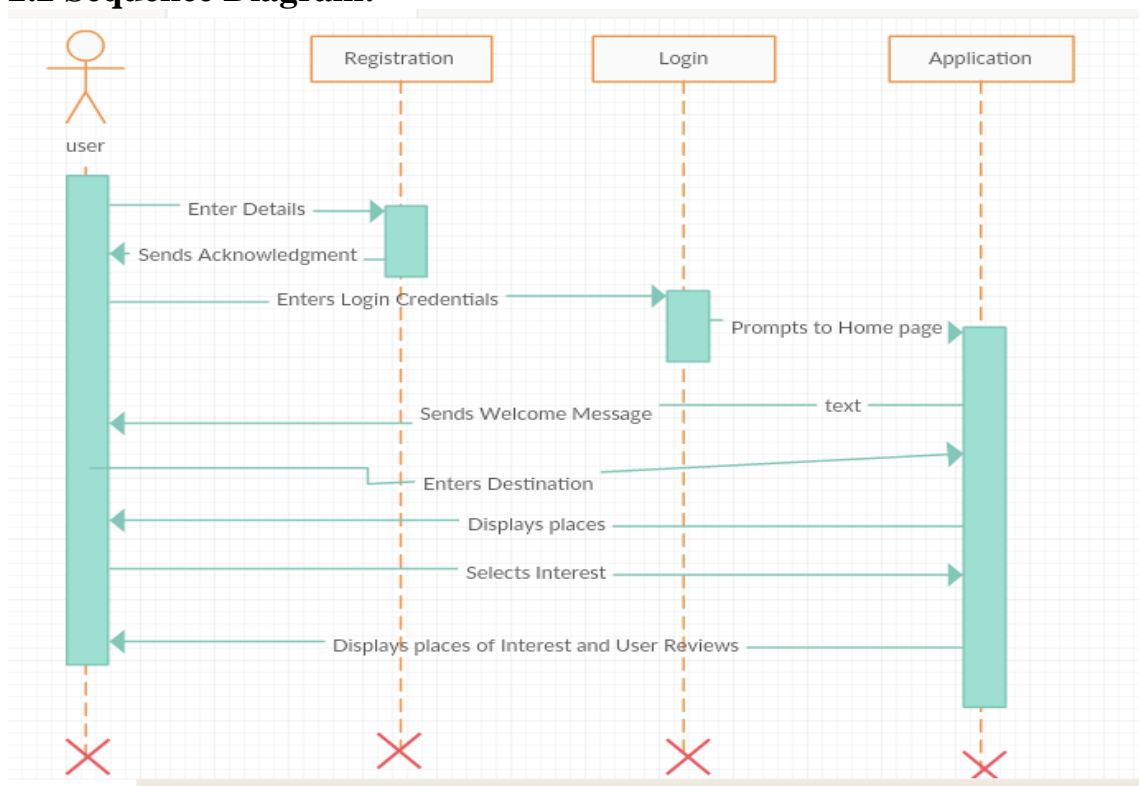
In Home Page we have 5 fields Destination(Place field), Date (from and to), Budget and Interest. User have to give the destination (place field) and interest. The places list with fields like Name, Address, Rating, Weekday hours and user reviews are shown of that place based on the Destination and Interest given by the user.

Any point of time user can logout from the system upon pressing Logout button.

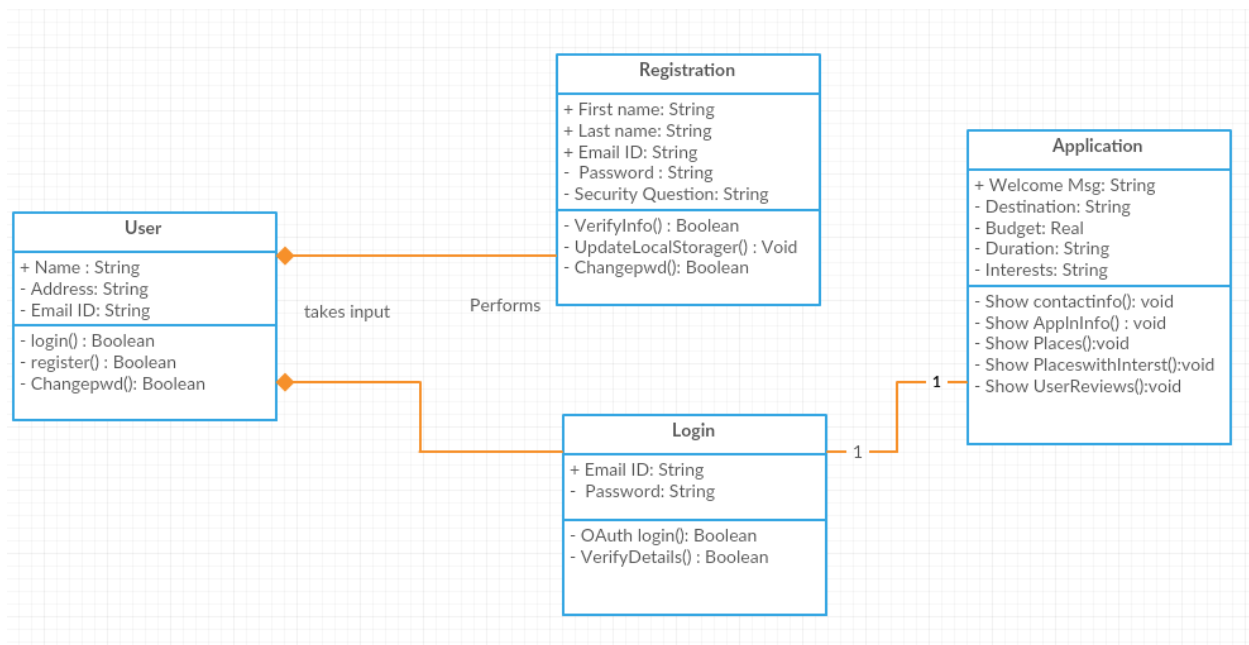
2. 1 Architecture diagram:



2.2 Sequence Diagram:



2.3 Class Diagram:



3. User Stories

4. Testing

As a	I want to	So that
User	See list of places of a given destination	I can select from the places available
User	Filter the places based on my interest	I can select my places of interest
User	See the Ratings and User Reviews of the given place	I can make the best choice
Developer	Migrate the local storage to MongoDB	I can access my data from cloud
User	Create UML Diagrams	Structure and flow of code will be understood

ID	Test Case	Test Case Description	Input	Expected	Result
1.1	Register	Open Web application and select new user and signup option.	User clicks on signup button.	Register page opens up.	Pass

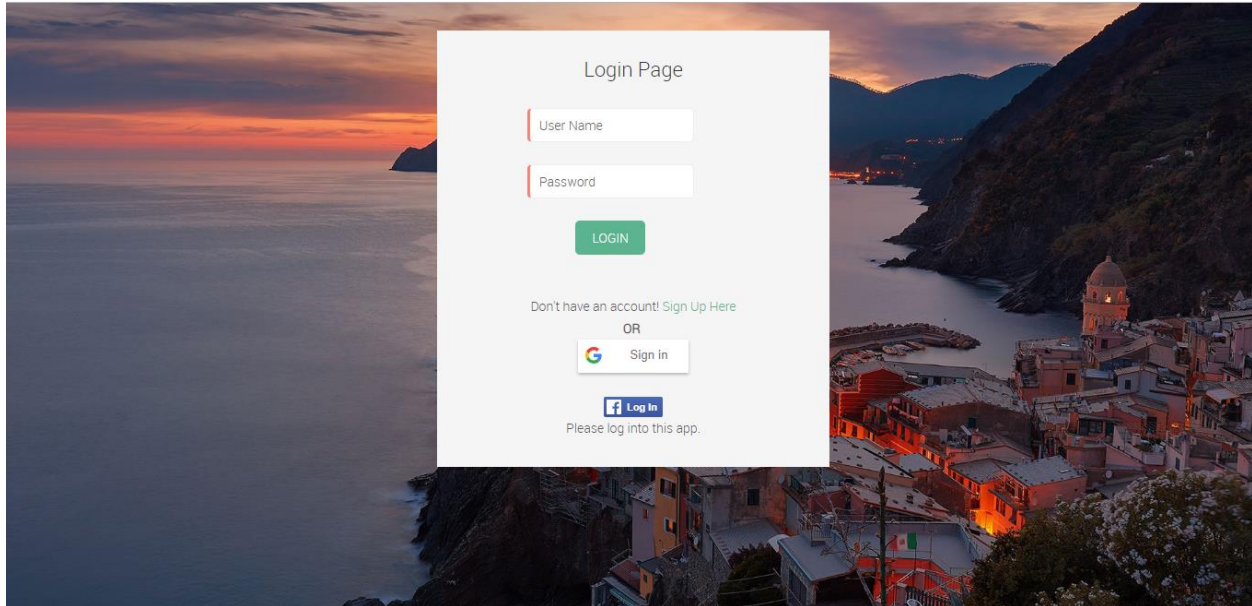
1.2	Register	User enters first name with only alphabets.	User fills out first name field.	Application should accept it	Pass
1.3	Register	User fills out first name fields with numbers or Special characters.	User fills out first name field.	Application should show error message.	Pass
1.4	Register	User enters last name with only alphabets.	User fills out last name field.	Application should accept it	Pass
1.5	Register	User fills out last name fields with numbers or Special characters.	User fills out last name field.	Application should show error message.	Pass
1.6	Register	User fills out email which is preceded with @ and .com	User fills out email fields.	Application should accept it	Pass
1.7	Register	User fills out email which is not preceded with @ and .com	User fills out email fields.	Application should show error message.	Pass
1.8	Register	User entering same email ID again	User Name Already Available	User Name Already Available	Pass
1.9	Register	Password and confirm password matches.	User fills out password and confirm password field.	Application should accept it	Pass
1.10	Register	Password and confirm password don't match.	User fills out password and confirm password field.	Application should show error message.	Pass
1.11	Register	User leaves Mandatory field empty.	User fills out input fields.	Application should show error message	Pass
1.12	Register	User fills out all Mandatory fields.	User fills out input fields.	Application should accept it	Pass
1.13	Register	After entering input fields User clicks Register button.	User click Register button.	All input entered by user should be taken and stored and is redirected to login page.	Pass
2.1	Login	With Valid Username and Password.	User enters Valid Username and Password. And press login button	Should redirect Home page	Pass
2.2	Login	With Invalid Username and valid Password.	User enters invalid Username and valid Password and press login button	Should Show incorrect Username error message	Pass
2.3	Login	With Valid Username and invalid Password.	User enters Valid Username and invalid Password and press login button	Should Show incorrect password error message	Pass

2.4	Login	With invalid Username and invalid Password.	User enters invalid Username and invalid Password and press login button	Show incorrect credentials error message	Pass
2.5	Login	User without registration can also login using Google.	User enters correct Google credentials.	Redirects to homepage.	Pass
2.6	Login	User without registration can also login using Google.	User enters incorrect Google credentials.	Google shows error message.	Pass
2.7	Login	User without registration can also login using Facebook.	User enters correct Facebook credentials.	Redirects to homepage.	Pass
2.8	Login	User without registration can also login using Facebook.	User enters incorrect Facebook credentials.	Facebook shows error message.	Pass
3.1	Home	Values in the destination field is character	User enters character	No error	Pass
3.2	Home	Values in the destination field is number	User enters number	Numbers are not allowed in the destination	pass
3.3	Home	Destination is entered and interest is not selected	Destination: Kansas Interest: Select	All the places for that destination are displayed	pass
3.4	Home	Destination is entered and interest is Museum	Destination: Kansas Interest: Museum	All the Museums for that destination are displayed	pass

3.5	Home	Destination is entered and interest is Adventure	Destination: Kansas Interest: Adventure	All the Adventure places for that destination are displayed	pass
3.6	Home	Destination is entered and interest is Devotional	Destination: Kansas Interest: Devotional	All the Devotional places for that destination are displayed	pass
3.7	Home	Destination is entered and interest is Scenic	Destination: Kansas Interest: Scenic	All the Scenic places for that destination are displayed	pass
3.8	Home	Destination is entered and interest is Party	Destination: Kansas Interest: Party	All the Party places for that destination are displayed	pass
4.1	About	User Successfully logins and press About tab.	User press About button.	About Page should open that contains website details.	Pass
5.1	Contact	User Successfully logins and press Contact tab.	User press Contact button.	About Page should open that contains contact details.	Pass
6.1	Logout	User will be logged out from website.	User clicks logout button.	Should be logged out of application and redirected to login page.	Pass

Travel Explorer – Web Application:

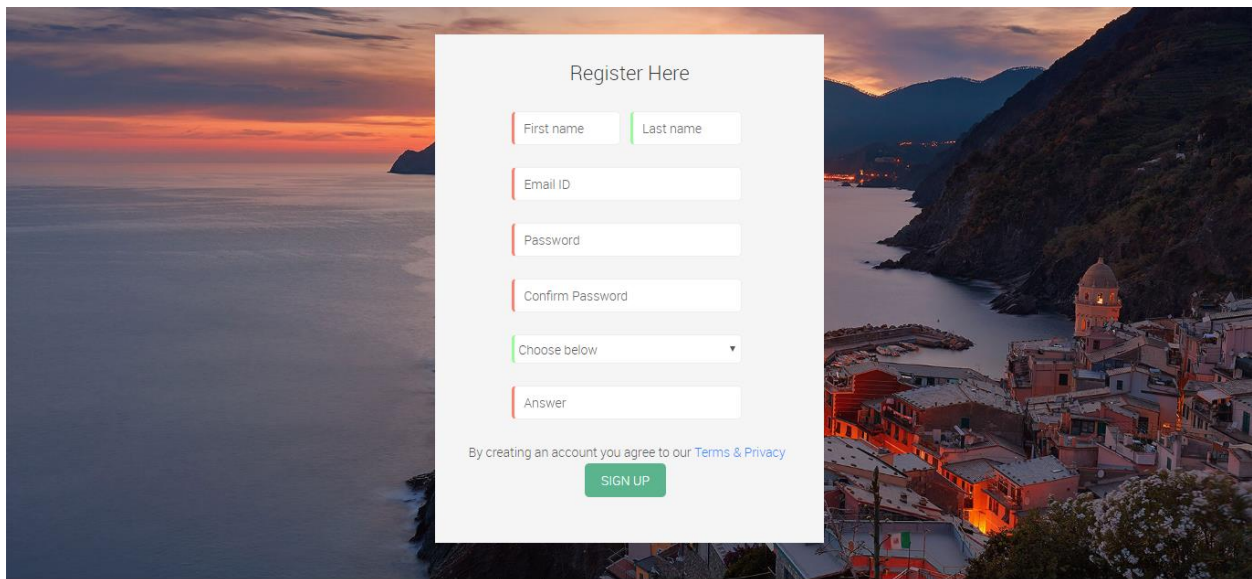
Login Page



This is the first page that a user will be seeing upon reaching to website. Registration of a user is must before logging into the system. User can login with his credentials entered during Registration or can login using Google or Facebook authentication.

User will be successfully logged into the system if Credentials are right, if Username and Password does not match, user will be prompted that the credentials are wrong.

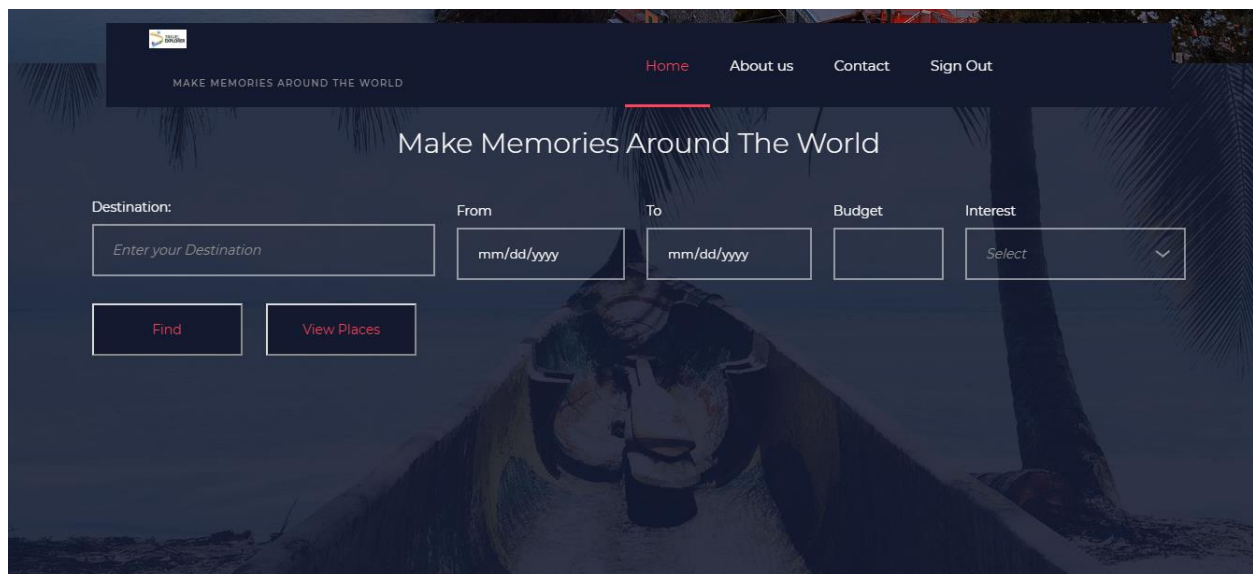
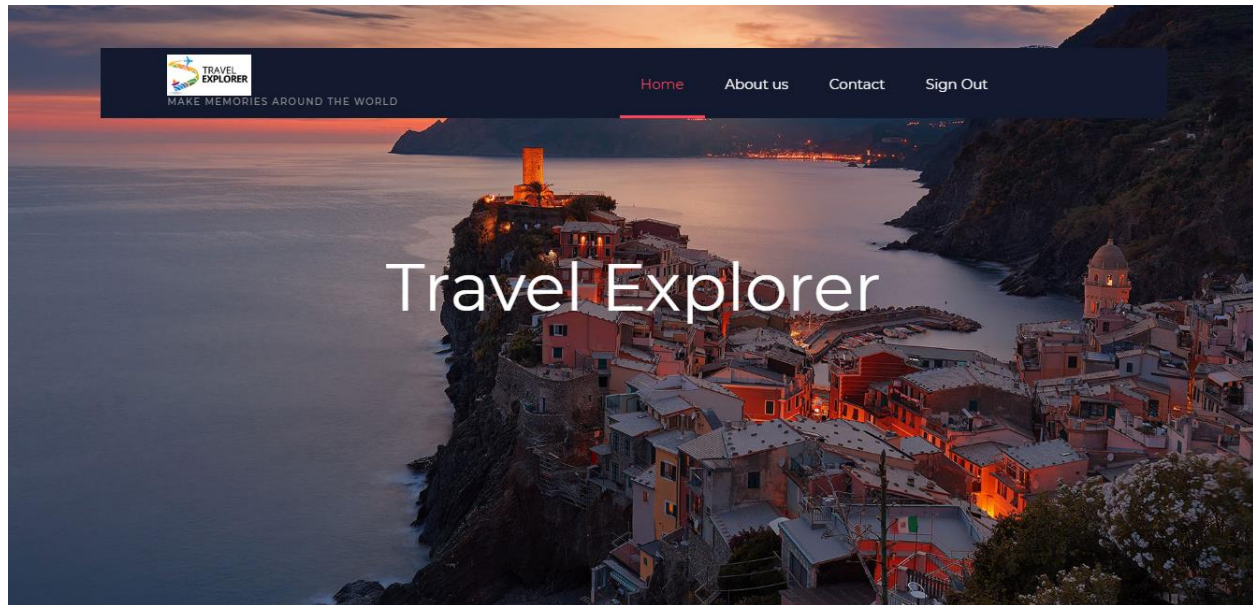
Registration Page



Upon clicking Sign Up Here link in the Login Page user will be prompted to Registration page, here user should enter the details like First Name, Last Name, Password, Confirm Password, Choose a Security Question, Answer for it and has to agree to Terms and conditions. Upon pressing Signup button user will be successfully registered.

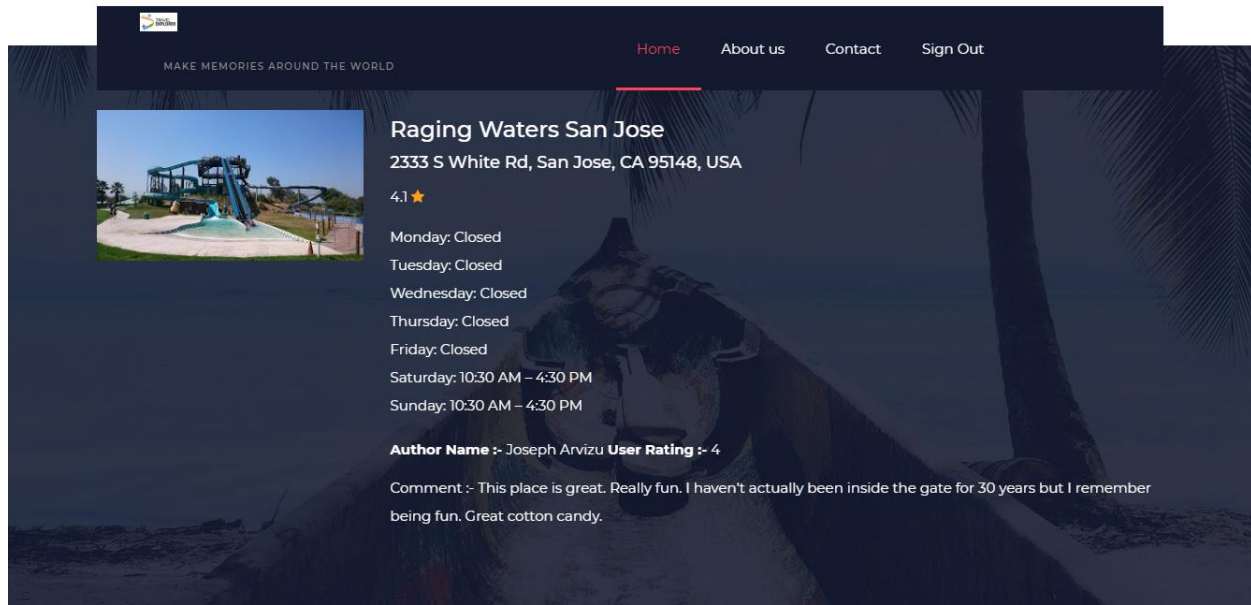
User will now be prompted to Login Page, Some fields in the Registration Page are mandatory.

Home Page



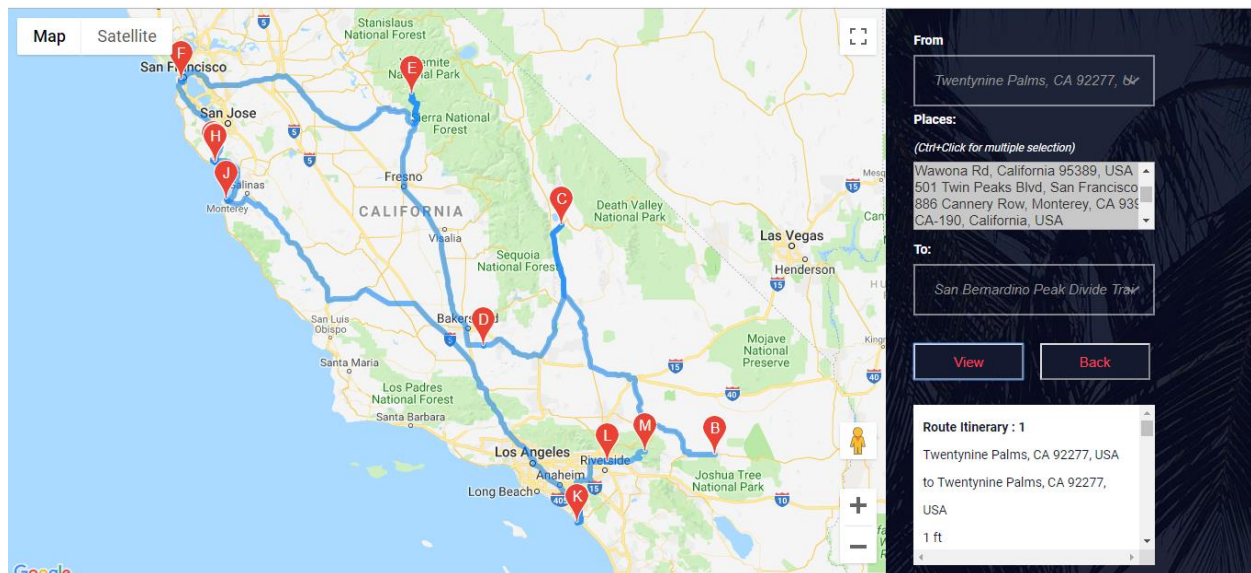
The search interface is set against a background of a tropical scene with palm trees and a large stone statue. It includes a navigation bar with the same logo and links as the banner. The main heading "Make Memories Around The World" is centered. Below it, there are input fields for "Destination:", "From", "To", "Budget", and "Interest". The "Destination:" field has a placeholder "Enter your Destination". The "From" and "To" fields have a placeholder "mm/dd/yyyy". The "Interest" field has a placeholder "Select" and a dropdown arrow. Below these fields are two buttons: "Find" and "View Places".

Destination:	From	To	Budget	Interest
<input type="text" value="Enter your Destination"/>	<input type="text" value="mm/dd/yyyy"/>	<input type="text" value="mm/dd/yyyy"/>	<input type="text"/>	<input style="border: none;" type="text" value="Select"/>



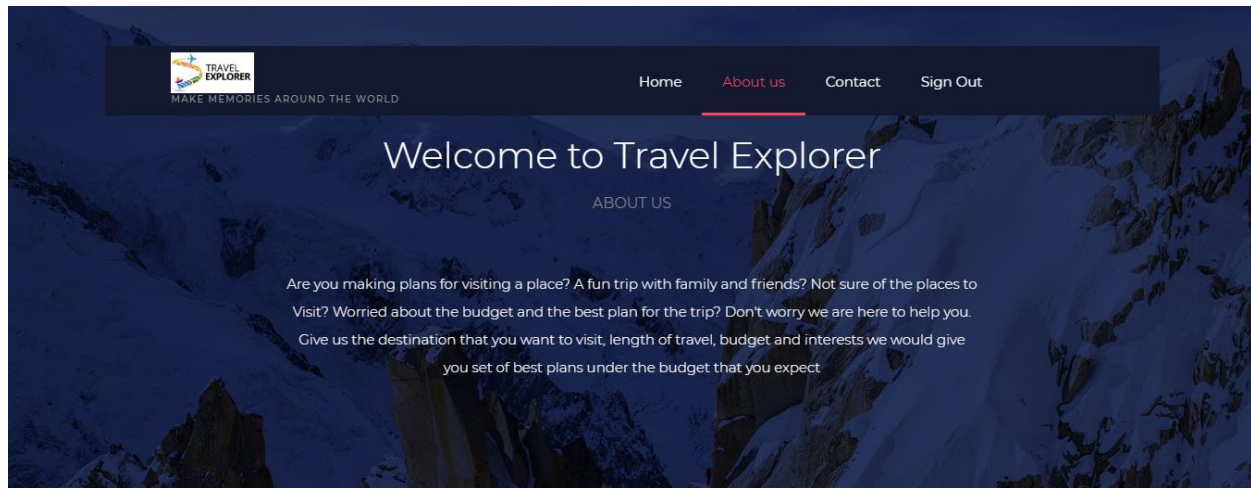
Home page consists of a Tab which links to Contact, About Us pages and to Logout from the System. It takes the User Input of Destination, from and to dates of the trip, Budget of the User and Interests.

Directions Page



When we click on view places on Homepage ,it redirectes to directions page.In the directions page according to selection of the places it will show you the route map how the user can travel.

About Us

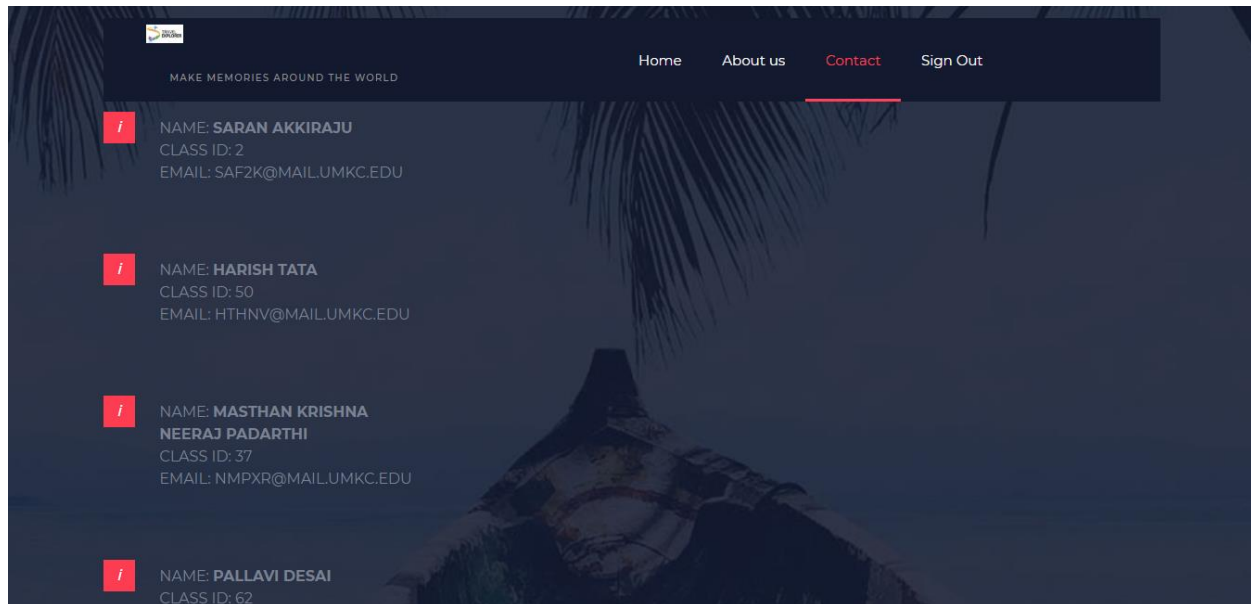


This is the project developed by UMKC Students, as part of Curriculum.This



This page tells about why a user should be using our website.

Contact Page



Please find Github Wiki below:

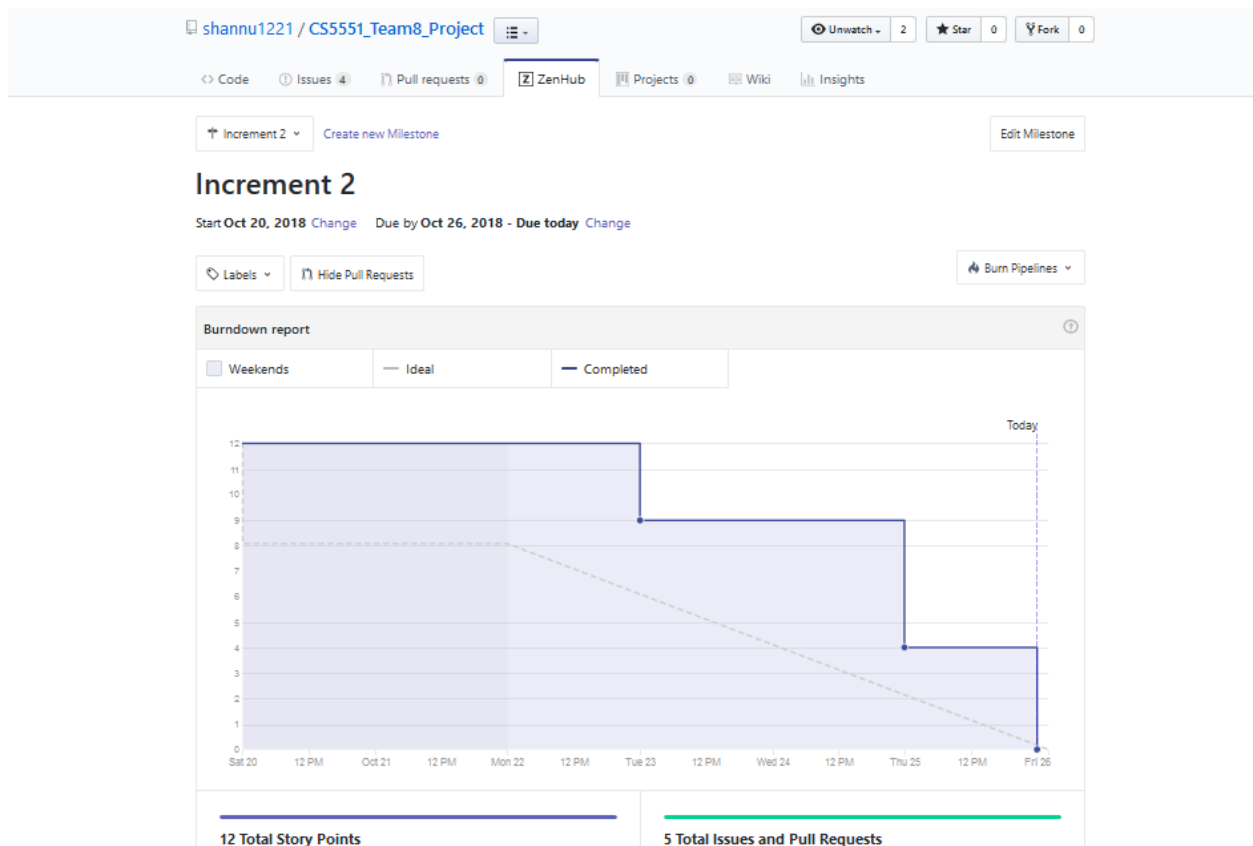
https://github.com/shannu1221/CS5551_Team8_Project/wiki/Project-Increment-2

Project Management

Board Issues:

Completed Issues and Pull Requests	Story points
<div>🔒</div> Migrating from local storage to Mango DB CS5551_Team8_Project #7 III Closed 🚀 Increment 2	3
<div>🔒</div> Improve UML Design CS5551_Team8_Project #8 III Closed 🚀 Increment 2	1
<div>🔒</div> Functionality for choosing Places, given City as Destination CS5551_Team8_Project #9 III Closed 🚀 Increment 2	3
<div>🔒</div> Filter Places given user Interests as Input CS5551_Team8_Project #10 III Closed 🚀 Increment 2	3
<div>🔒</div> Sort the Places of interest based on User reviews CS5551_Team8_Project #11 III Closed 🚀 Increment 2	2

ZenHub report:

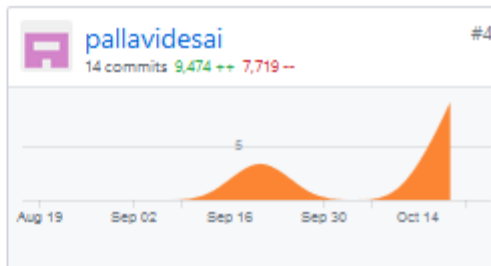
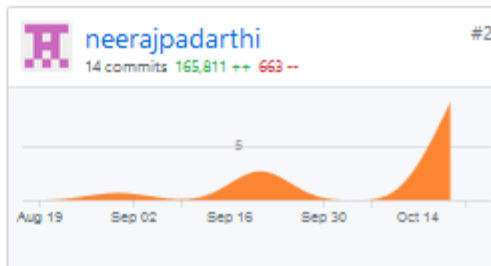
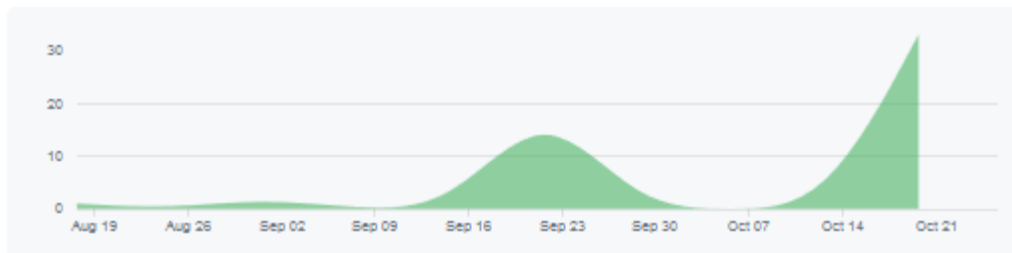


Contribution chart:

Aug 19, 2018 – Oct 27, 2018

Contributions: **Commits** ▾

Contributions to master, excluding merge commits



Project Third Increment Report

Features developed for Increment3:

10. Profile Page
11. History Page
12. Node modules for Forgot password, Successful Registration and Sending a mail to admin
13. Filtering Places based on user budget
14. Finding the shortest path of the places filtered on budget
15. Creation of Day to Day Plan

Existing Services/REST API:

<https://console.developers.google.com/google/maps-apis/>

Detail Design of Features:

1. Wireframes& mockup:

HomePage

Travel Explorer

Make memories around the world

HomePage Profile Contact History About Us Sign Out

Destination No of days Budget Interest

Find Plan your own Trip View Itinerary

Image Place Name Place Address Rating Weekly Days Read More

Image Place Name Place Address Rating Weekly Days Read More

Contact Page

The screenshot shows a web browser window with the title "Travel Explorer". The page has a navigation bar with links: "HomePage", "Profile", "Contact", "History", "About Us", and "Sign Out". Below the navigation bar, the text "Make memories around the world" is displayed. A welcome message reads: "Welcome to Travel Explorer" and "Take some time to look at your profile Feel free to edit it". The main content area is titled "UPDATE YOUR PROFILE" and contains a form with the following fields: "First Name", "Last Name", "Email", and "Phone No.". An "UPDATE" button is located at the bottom of the form.

Travel Explorer

Make memories around the world

Welcome to Travel Explorer
Take some time to look at your profile Feel free to edit it

UPDATE YOUR PROFILE

First Name Last Name

Email

Phone No.

UPDATE

Direction Page

The screenshot shows a web browser window with the title "Direction Page". The page contains a large map area on the left, labeled "Map". On the right, there is a form with the following fields: "From:" with a "Select" dropdown menu, "Places:" with a text input field, and "To:" with a "Select" dropdown menu. Below the form, there are two buttons: "View" and "Back".

Map

From:
Select

Places:

To:
Select

View Back

History Page

Travel Explorer

Make memories around the world

HomePageProfileContactHistoryAbout UsSign Out

Welcome to Travel Explorer
Take some time to look at your Search Histroy Feel free to view

S.No	Email ID	Destination	No of Days	Budget	Interest
0	s.palividesd@gmail.com	kansas	6	5000	Devotional

Itineary Page

Itinerary for your Trip! Have fun :)

Get My PlanBack

Your Itinerary for Day 1
Address

Your Itinerary for Day 2
Address

Travel Explorer

Make memories around the world

HomePage Profile Contact History About Us Sign Out

Keep in touch with developers of this page !

Harish Tata | Email: hthrv@mail.umkc.edu
Pallavi Desai | Email: pd2pd@mail.umkc.edu
Masihan Krishna Neeraj Padarathi | Email: nmpr@mail.umkc.edu
Saran Akkiraju | Email: saf2k@mail.umkc.edu

ANY QUERIES? LET US KNOW !!

Name Email

Subject

Message

SEND

About Us Page

Basic Functionality:

Users will be able to see their profile details and also able to update their profile. Users will be able to see the history of searches by them.

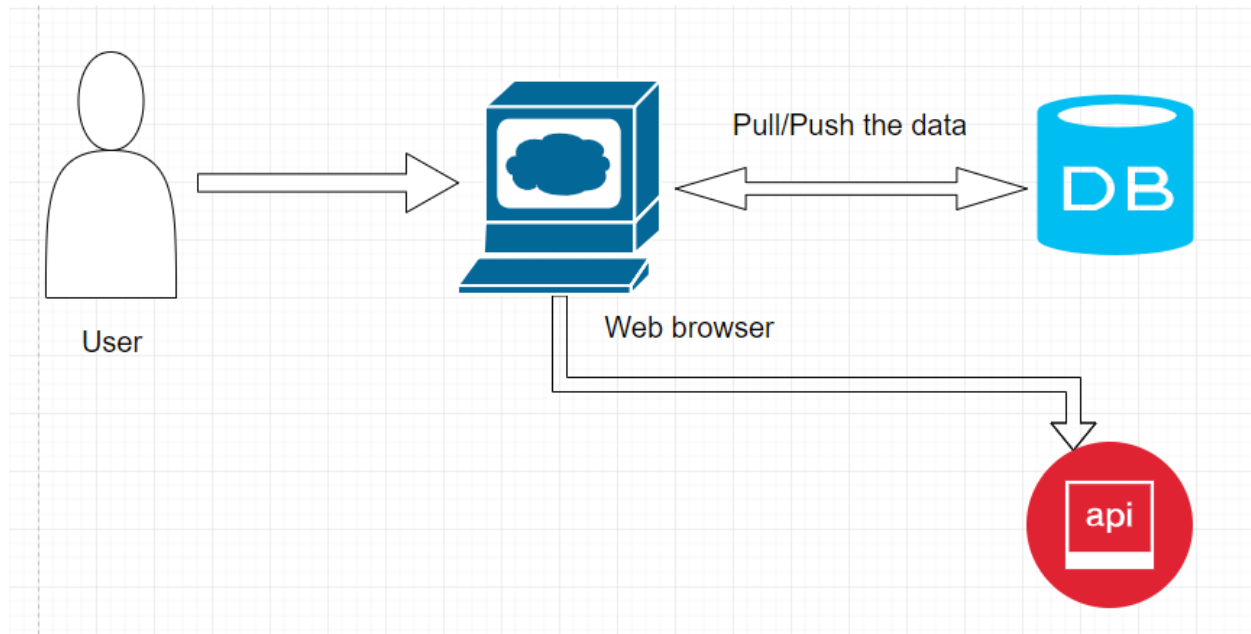
Users will be able to receive email upon Successful Registration, on clicking forgot password link and also send email to admin of the application in case of any queries.

Filtering of the places can be done based on the budget given by the user. Application will fetch the details of the places which are rated high by the users in Google reviews and if they fall into the budget constraint given by the user.

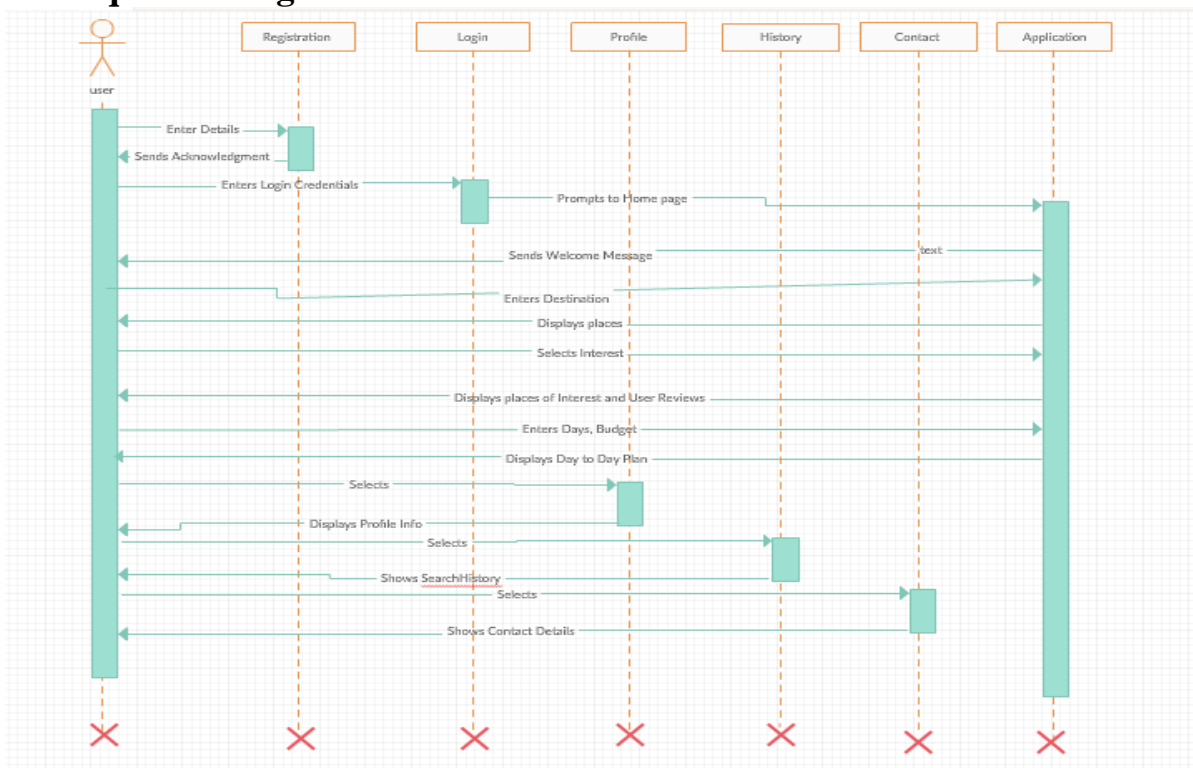
There is an option for a user to create a custom plan, where user can select any place as source and destination, can look for a route in the maps and can also select multiple places and create their own.

Application creates a day to day plan considering the user budget, interest, number of days he/she planned to take the trip and also the places that are near to each other.

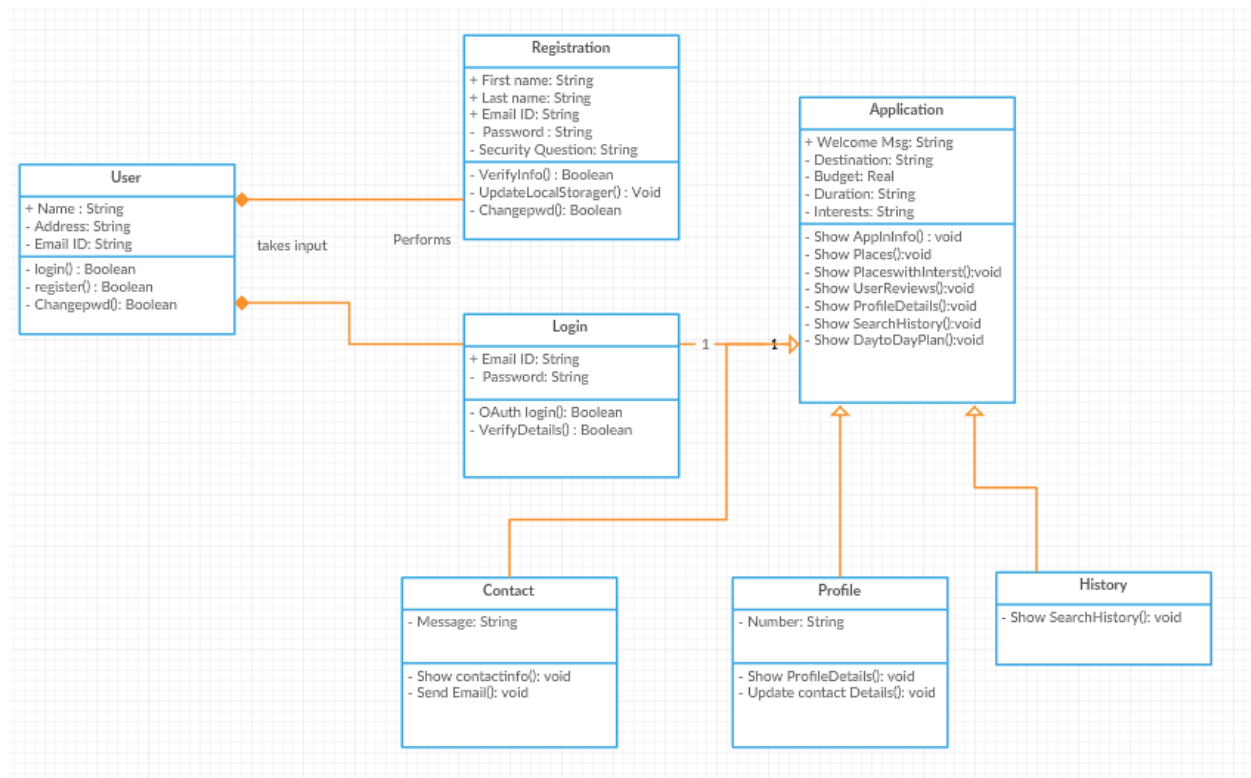
2. 1 Architecture diagram:



2.2 Sequence Diagram:



2.3 Class Diagram:



3. User Stories

As a	I want to	So that
User	See my Profile Details	I can update my details as and when they get changed
User	See my Search history	I will know what all I have visited
User	Get an email on successful registration, Fetching password and Send an email to a admin	I will get to know if I registered successfully, change the password
Developer	Add functionality for filtering places based on budget	I can send the data to fetch shortest path
User	Create UML Diagrams	Structure and flow of code will be understood
Developer	Add functionality for shortest path	So that I can create a Day to Day Plan
Developer	Create Day Plans	Users can easily plan for their travel

4. Testing

ID	Test Case	Test Case Description	Input	Expected	Result
1.1	Profile	User enters into application and clicks Profile page	User clicks on profile button On the tab.	Profile page opens up.	Pass
1.2	Profile	User updates the phone number	User fills out new number.	Application should accept it	Pass
2.1	Contact	User enters into application and clicks Contact page	User clicks on contact button On the tab.	Contact Page opens up.	Pass
2.2	Contact	User enters the message to send to admin.	User fills out message field.	Application should accept it and send email	Pass
3.1	Register	User fills out all the details and presses Signup.	User fills out all fields and presses button.	Application should send welcome message as email.	Pass
4.1	History	User enters into application and clicks History page	User clicks on History button On the tab.	Application should accept it and show history info	Pass
5.1	Home	User fills out all the details and should see budget based filtering	User fills out Destination, Number of Days, Budget and Interest and presses button Find.	Application should show places based on user Interest and budget.	Pass
5.2	Home	User fills out all the details and should see User defined plan	User fills out Destination, Number of Days, Budget and Interest and presses button Plan Your Trip	Application should take to a place where user can customize their itinerary.	Pass
5.3	Home	User fills out all the details and should see Day to Day Plan.	User fills out Destination, Number of Days, Budget and Interest and presses button View Result.	Application should take to a place where user view Day to Day plan	Pass

Travel Explorer – Web Application:

Profile Page

Home Profile Contact History About us Sign Out

MAKE MEMORIES AROUND THE WORLD

UPDATE YOUR PROFILE

Pallavi Desai

s.pallavidesai@gmail.com

9137094572

UPDATE

You can update the information like phone number last name etc.

History Page

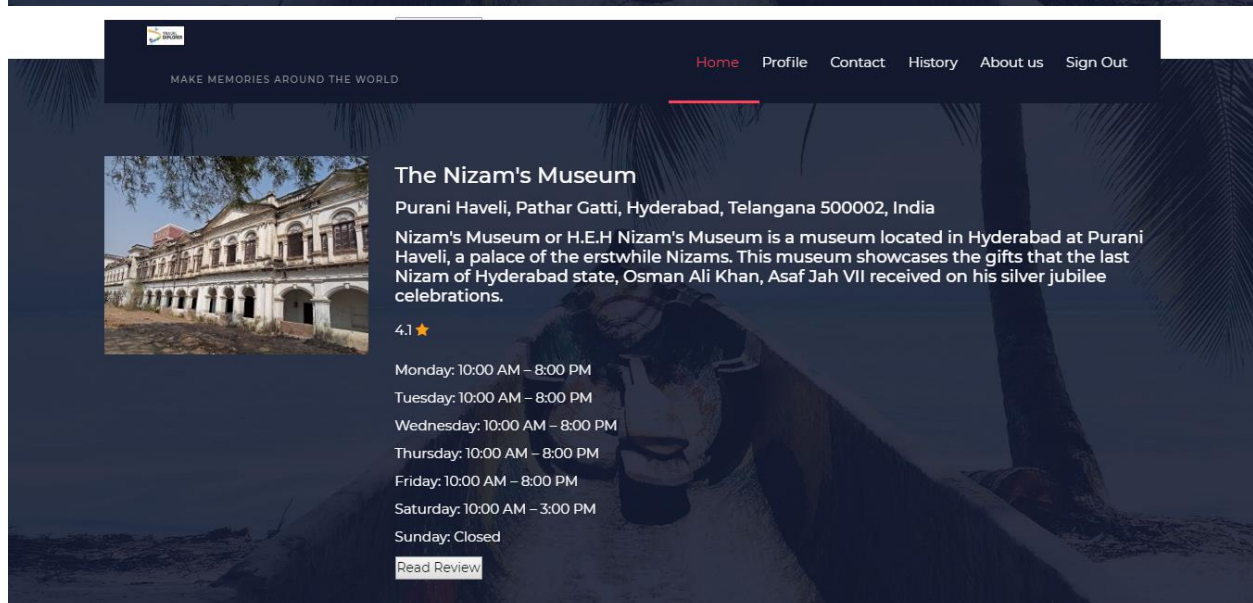
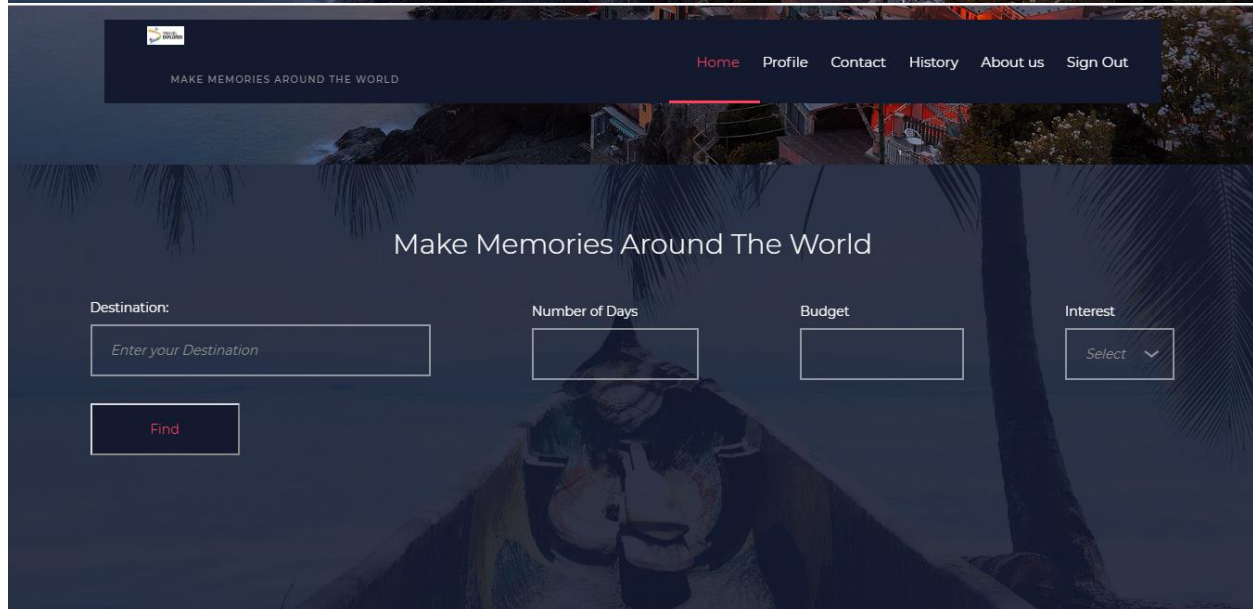
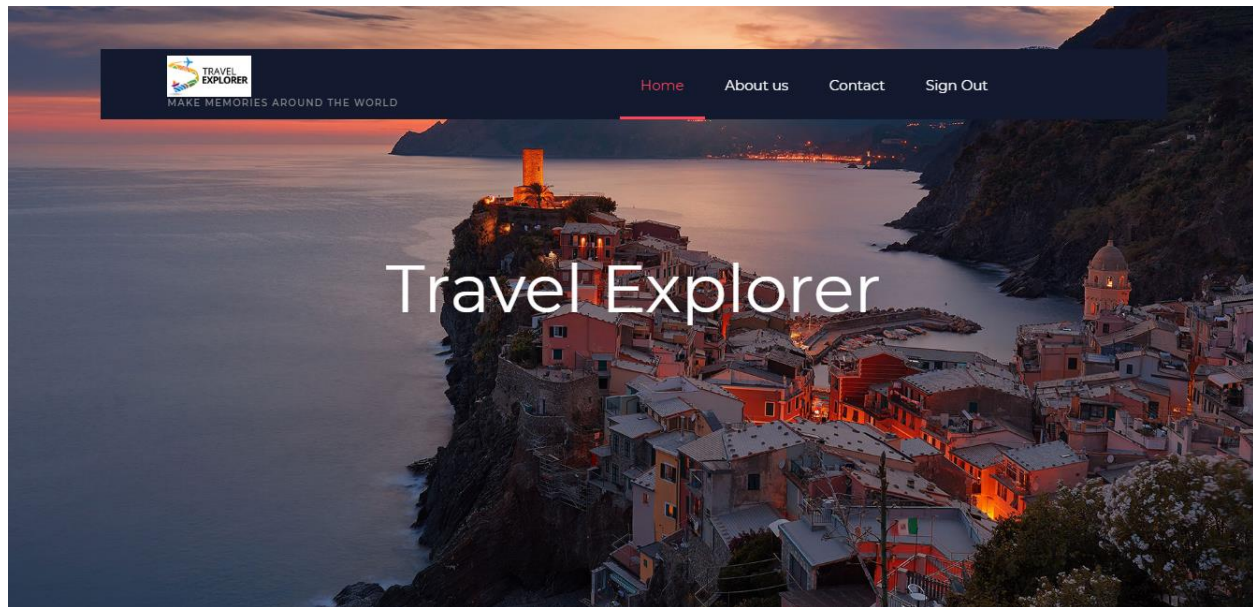
Home Profile Contact History About us Sign Out

MAKE MEMORIES AROUND THE WORLD

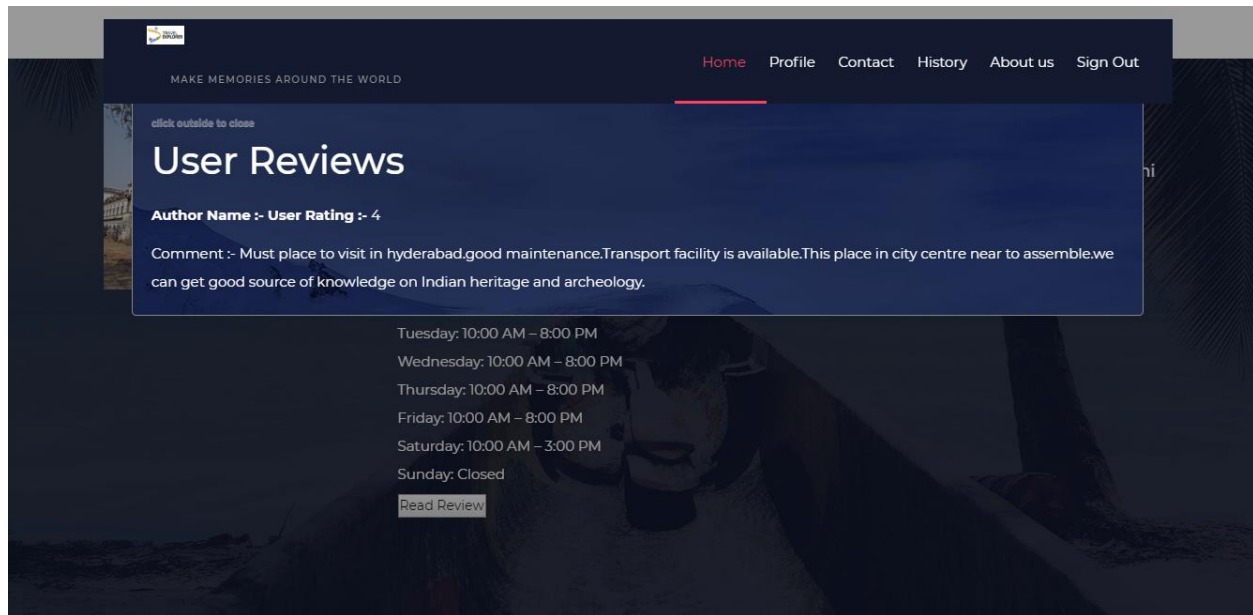
30	s.pallavidesai@gmail.com	california	2017-11-29	2017-11-30	4352	Adventure
33	s.pallavidesai@gmail.com	california				Adventure
34	s.pallavidesai@gmail.com	california				Adventure
35	s.pallavidesai@gmail.com	california				Museum
36	s.pallavidesai@gmail.com	california				Adventure
37	s.pallavidesai@gmail.com	california				Adventure
38	s.pallavidesai@gmail.com	california				Adventure
39	s.pallavidesai@gmail.com	california				Adventure
40	s.pallavidesai@gmail.com	california				Adventure
41	s.pallavidesai@gmail.com	california				Adventure
42	s.pallavidesai@gmail.com	california				Adventure
43	s.pallavidesai@gmail.com	california				Adventure
44	s.pallavidesai@gmail.com	california				Adventure
45	s.pallavidesai@gmail.com	california				Adventure
46	s.pallavidesai@gmail.com	california				Adventure
47	s.pallavidesai@gmail.com	california				Adventure
48	s.pallavidesai@gmail.com	california				Adventure

This page shows all the history which is searched by the user before when he /she logged into the the account.

Home Page

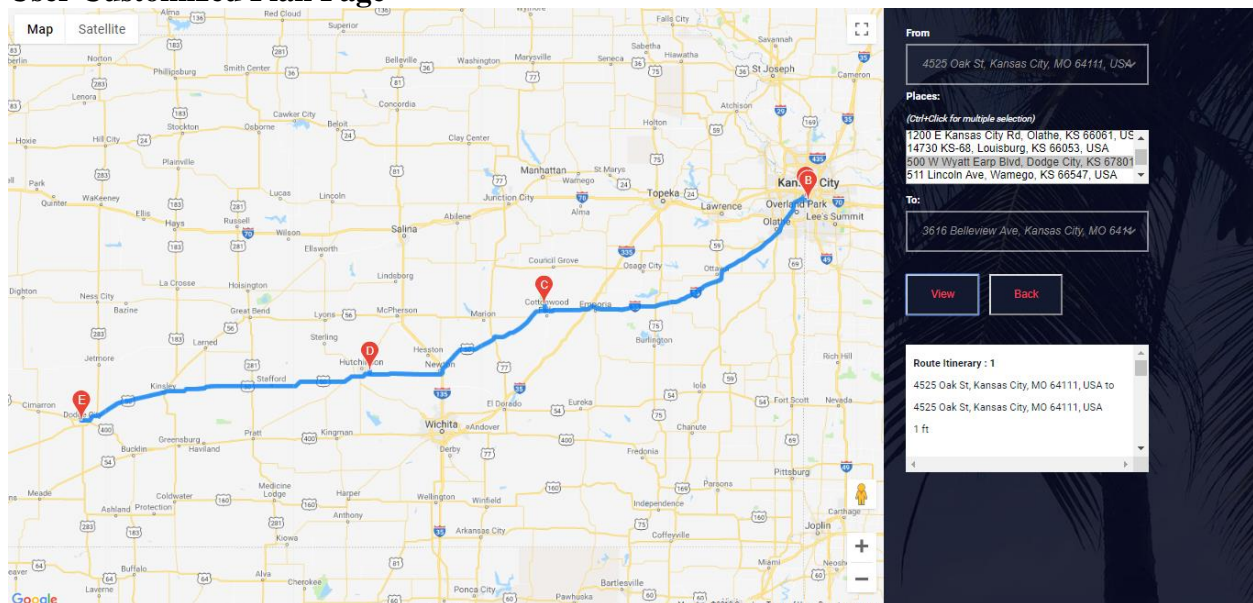


You can see the searched places with the given interest and place with the given budget by the user.



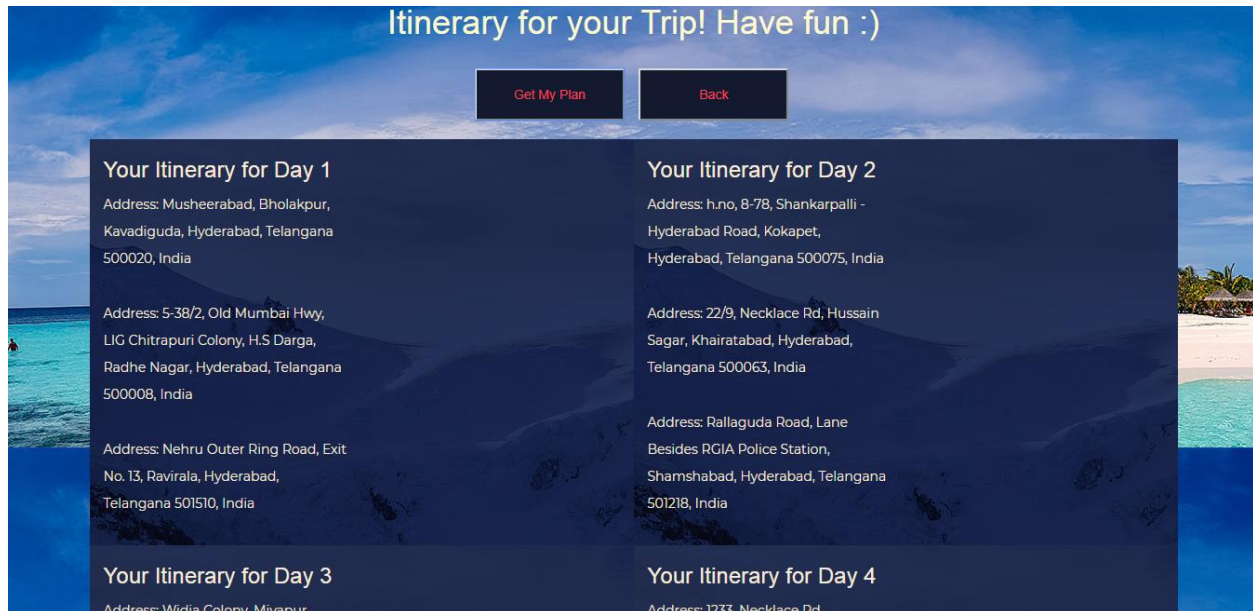
The user rating you can see in a popup ,So as to see that you can click on read more which displays the user rating and review of that particular place.

User Customized Plan Page



In this page the user can make his own plan with the help of place address present in the box .The user has to select from ,to and the waypoints (waypoints is optional) and make his own day or full trip plan

Day to Day Plan Page










Here is the itinerary given to user according to the budget constraint and the shortest path taken into the consideration

Please find Github Wiki below:

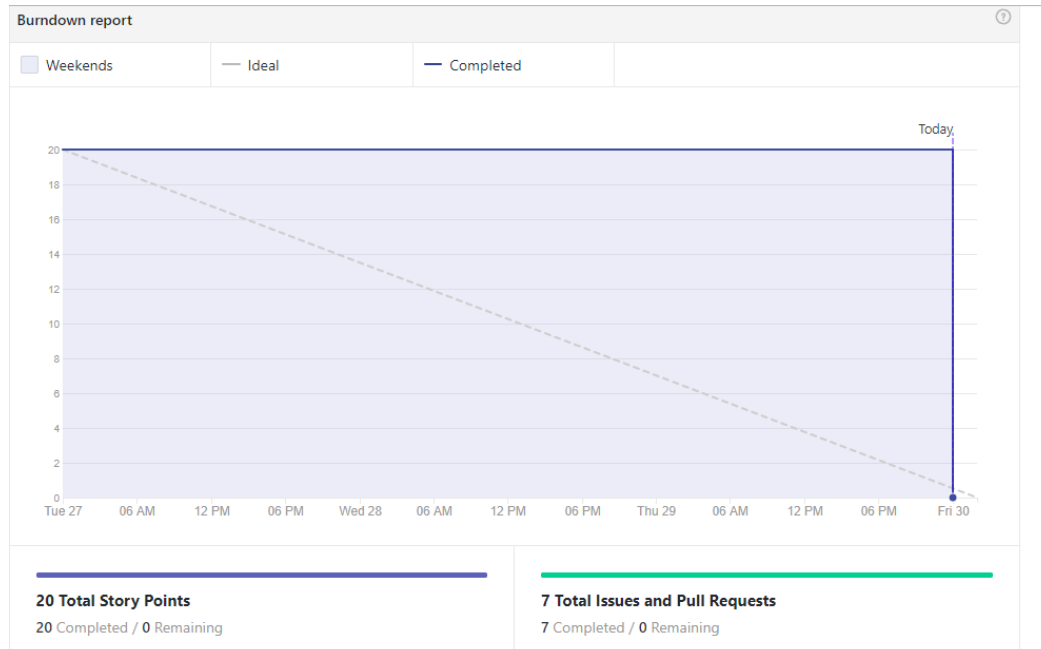
https://github.com/shannu1221/CS5551_Team8_Project/wiki/Project-Increment-3

Project Management

Board Issues:

Completed Issues and Pull Requests	Story points
 Profile Page CS5551_Team8_Project #4 III Closed ↑ Increment 3	(2)
 History Page CS5551_Team8_Project #12 III Closed ↑ Increment 3	(2)
 Filtering the places based on user Budget CS5551_Team8_Project #13 III Closed ↑ Increment 3	(5)
 Improving UML Diagram CS5551_Team8_Project #14 III Closed ↑ Increment 3	(2)
 Node modules CS5551_Team8_Project #75 III Closed ↑ Increment 3	(3)
 Day wise Plan CS5551_Team8_Project #76 III Closed ↑ Increment 3	(3)
 Day Wise plan - Number of days CS5551_Team8_Project #77 III Closed ↑ Increment 3	(3)

ZenHub report:

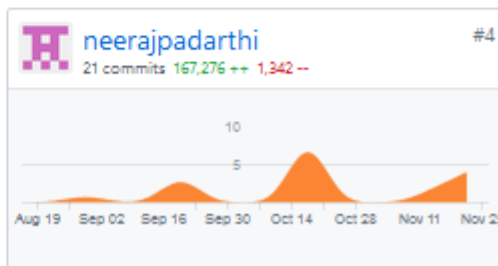
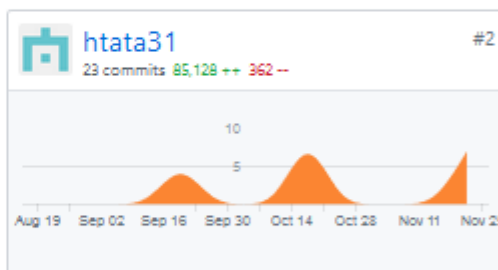
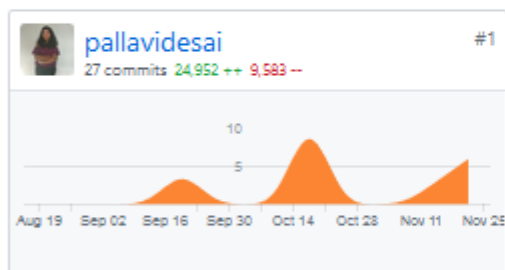
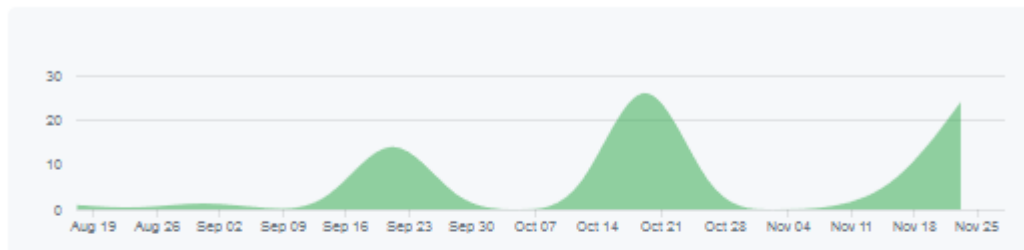


Contribution chart:

Aug 19, 2018 – Nov 30, 2018

Contributions: Commits

Contributions to master, excluding merge commits



Bibliography

- <https://developers.google.com/places/web-service/search>
- <https://developers.google.com/places/web-service/place-id>
- <https://developers.google.com/places/web-service/photos>
- <https://developers.google.com/maps/documentation/javascript/tutorial>
- <https://developer-tripadvisor.com/content-api/>
- <http://www.budgetyourtrip.com/api/>
- <https://get.google.com/trips/>
- <https://developers.google.com/knowledge-graph/>
- <https://colorlib.com/wp/free-travel-website-templates/>