GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmedabad

Affiliated

Babaria Institute of Technology

A

Project Report

On

FOOT OVER THE GLOBE

Prepared as a part of the requirements for the subject of

PROJECT - I

B. E. IV, Semester – VIII

(Computer Science and Engineering)

Submitted by:

Group:

Sr. Name of Student	Enrolment No.
1. Krupesh Chokshi	140050107013
2. Shruti Ghelani	140050107031
3. Jinal Mayavanshi	140050107056
4. Shikha Patel	140050107537

Prof. Parita Sheth

(Faculty Guide)

Dr. Avani R. Vasant

Head of the Department

(2017-2018)

Academic year

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FOOT OVER THE GLOBE

Guided by

Prof. Parita Sheth

Prepared by

Student Name	Enrollment Number
Krupesh Chokshi	140050107013
Shruti Ghelani	140050107031
Jinal Mayavanshi	140050107056
Shikha Patel	140050107537

Babaria Institute of Technology

Department of Computer Science and Engineering

At: Varnama, Ta: Vadodara, Dist: Vadodara, Pin: 391240

CERTIFICATE

This is to certify that the project report entitled **FOOT OVER THE GLOBE** is prepared and presented by **Krupesh Chokhsi (140050107013), Shruti Ghelani (140050107031),Jinal Mayavanshi (140050107056), Shikha Patel (140050107537)** respectively 4th Year of **B.E (Computer Science & Engineering)** and their work is satisfactory.

.

Prof. Parita Sheth
Guide Name

Dr. Avani R. Vasant
Head of Department

Babaria Institute of Technology
Department of Computer Science and Engineering
At: Varnama, Ta: Vadodara, Dist: Vadodara, Pin: 391240

INDEX

	Page No.
1. Introduction	1
1.1 Problem Summary	1
1.2 Aims and Objectives	1
1.3 Problem Specification	1
1.4 Literature Review	2
1.5 Plan of Work	2
1.6 Material and Tools Required	3
2. Design: Analysis, Design Methodology and Implementation Strategy	
2.1 Observation Matrix (AEIOU Summary)	4
2.1.1 Activities	4
2.1.2 Environment	4
2.1.3 Interactions	5
2.1.4 Objects	5
2.1.5 Users	5
2.2 Ideation Canvas	6
2.2.1 People	6
2.2.2 Activities	6
2.2.3 Situation/Context/Location	6
2.2.4 Props/Possible Solutions	7
2.3 Product Development Canvas	7
2.3.1 Purpose	7
2.3.2 Product Experience	7

2.3.3 Product Functions & Features 7

2.3.4 Components 8

2.3.5 Customer Revalidation 8

2.4 Empathy Mapping Canvas 9

2.4.1 User 9

2.4.2 Stakeholders 9

2.4.3 Activities 9

2.4.4 Story Boarding 9

2.5 Business Model Canvas 10

2.5.1 Value Propositions 10

2.5.2 Key Partners 10

2.5.3 Key Activities 11

2.5.4 Customer Segments 11

2.5.5 Customer Relationships 11

2.5.6 Key Resources 11

2.5.7 Channels 11

2.5.8 Cost Structure 11

2.5.9 Revenue Streams 12

2.6 Diagrams 13

2.6.1 Use Case Diagrams 13

2.6.2 Activity Diagrams 14

2.6.3 E-R Diagram 15

2.6.4 Class Diagram 16

2.6.5 Sequence Diagram 17

Implementation 18

3.1 Modules in the System 18

3.2 Data Dictionary 18

3.3 Flow 18

3.4 Screenshots 19

3.5 Testing 27

Summary 25

4.1 Advantages of the System 25

4.2 Unique Features 25

4.3 Conclusion and Scope of further Work 26

Refrences 27

1. INTRODUCTION

1.1 Problem Summary

We have seen that people are facing problems in planning the tour. As the tour planning varies from person to person, all the application available has inbuilt package that may not be feasible for all the tourist. So, people wants to plan their own tour as per their requirements. Also in the inbuilt packages the hotels and places are fixed so one cannot add the extra places and also hotels are fixed so it may possible that it would be not feasible according to their budget.
Here, we have decided to create an application in which tourist would get all the facilities to customize their tour as per their wish and budget.

1.2 Aims and Objectives

Our aim is to give best service for the tourist for holiday plans who need break from their busy life. As we have seen and also experienced that people find difficulties when they visit new places which is totally unknown for all. Then comes money constraint.
This system solves all the problems of tourist by providing them facility to personalize their tour. The most important part of our application is customization and also we have added guide selection module which would be easy for tourist to get proper knowledge.

Objective :

- To get customized tour as per ones requirements.
- Pre-Booking of restaurants to avoid rush on holidays.
- Get guide booked according to the language that tourist are comfortable.
- Easy to get access.

1.3 Problem Specification

Nowadays people wants the customized tour and plan according to their requirements. Firstly, the people are facing problems in inbuilt packages the hotels are fixed so it may be possible that it doesn't fix according to their budget. Then sometimes as for unknown place it may possible that people do not know where to eat, what type of food would be available in restaurants and at time of holidays due to rush it may be full. So, tourist doesn't get proper food. Then comes issue of getting proper knowledge when people visit to some historical places they may not get proper guide who can explain them in their language that they are comfortable. So they remain with lack of knowledge.
As per all the above mentioned points by using our application a tourist can take advantage to pre book restaurants, also select guide, customize their trip as per their budget, also add total expanses that they made during the trip called wallet.

1.4 Literature Review

We have studied many books and research papers related to our project. According to it we have implemented in our project.

List of referenced books are:

Book Name	Author Name
Lessons Learned in Software Testing	Cem Kaner, Bret Pettichord
The Complete Reference MySQL	Vikram Vaswani
Beginning Android 4 pplication Development	Wei-Meng Lee

TABLE 1

We have also gone through online materials and videos of expert lectures. Also learned new technologies that can be implemented in our project to make application user friendly and also would be easy to access.

1.5 Plan of Work

Task	Start	Finish	Months							
			July-17	Aug-17	Sep-17	Oct-17	Dec-17	Jan-18	Feb-18	Mar-18
Analysis	26/6/17	20/7/17								
Design	25/7/17	10/10/17								
Coding	15/12/17	5/1/18								
Testing	15/1/18	5/2/18								
Final Documentation	10/2/18	25/3/18								

TABLE 2

1.6 Materials and Tools Required

Android Studio

Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems. It is a replacement for the Eclipse Android Development Tools (ADT) as primary IDE for native Android application development.

MySQL

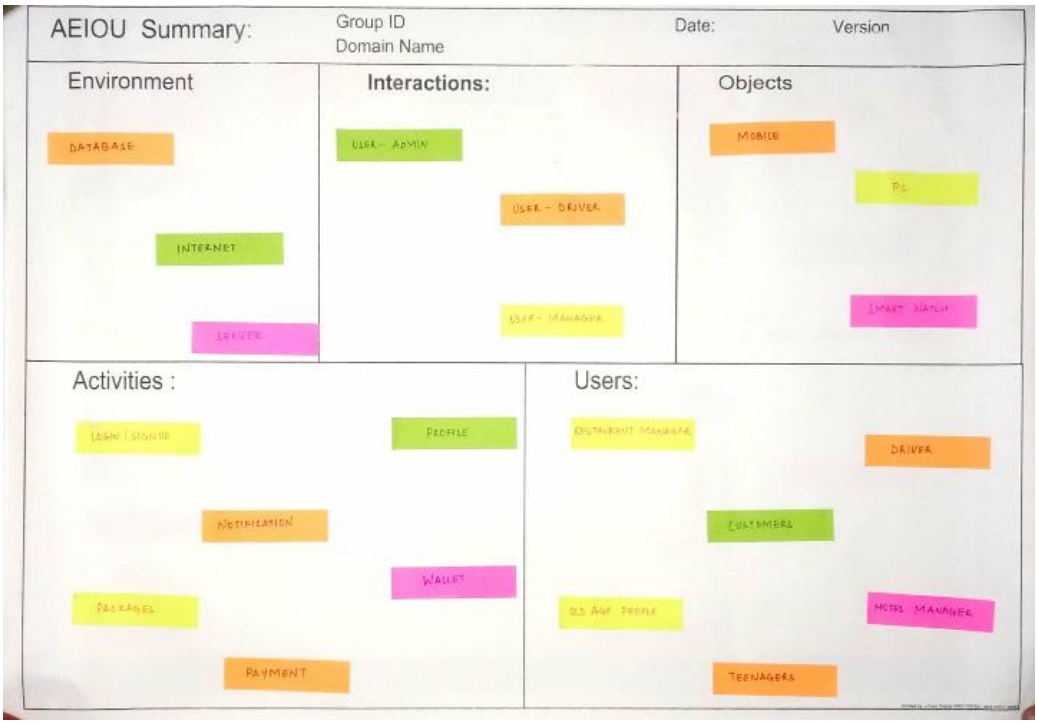
MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter and "SQL", the

abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality.

MySQL is a central component of the LAMP open-source web application software stack (and other "AMP" stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python". Applications that use the MySQL database include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, and Drupal. MySQL is also used in many high-profile, large-scale websites, including Google, Facebook, Twitter, Flickr and YouTube.

2. DESIGN : ANALYSIS, DESIGN METHODOLOGY AND IMPLEMETATION STRATEGY

2.1 Observation Matrix (AEIOU Summary)



2.1.1 Activities

Various activities that will be performed by application are given as follows :

- Login/Signup
- Notification
- Packages
- Payment

2.1.2 Environment

Here we have mention the kind of environment that will be there in Tour and Travel. We have also described the application environment.

- Database
- Internet
- Server

2.1.3 Interaction

Interaction is the most important part of any application. Usability of any system relies on the interaction only. Different kind of interactions between User, Guide and System are described here.

- User-Admin
- User-Driver
- User-Manager

2.1.4 Objects

We have mentioned here what kinds of object that are going to be used in application. Objects can be physical or system software.

- Mobile
- PC
- Smart Watch

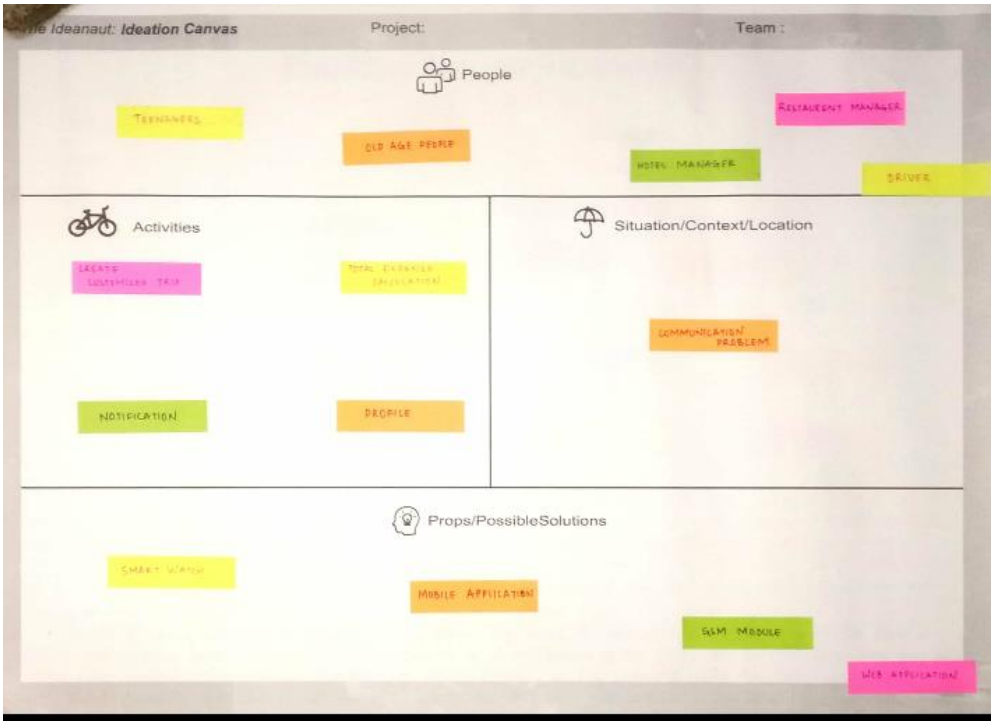
2.1.5 Users

The list of users who all are going to use this application given below :

- Restaurant Manager
- Customers
- Old Age People
- Teenagers

AEIOU Summary gives the brief introduction about the system and also helps to developers in implementation. It is also beneficial for understanding the flow of application as well as working of the application.

2.2 Ideation Canvas



2.2.1 People

List of the people that will be going to use the application are as follows :

- Teenagers
- Hotel Manager
- Old Age People
- Restaurant Manager
- Driver

2.2.2 Activities

Activities give the brief about the flow of the application and knowledge about the different modules i.e. working of the application.

- Create customize trip
- Notification
- Profile
- Total Expense Calculation

2.2.3 Situation/Context

It will give the idea about various situations or contexts that will be going to occur during implementation or after implementation.

- Communication Problem

2.2.4 Props and Possible Solution

Information about the tools that will be going to use for implementation and also about the possible solutions of the application.

- Smart Watch
- Mobile Application
- GSM Module
- Web Application

2.3 Product Development Canvas

2.3.1 Purpose

The purpose of the application is mainly focused on Customize trip. Ease of the access is also basic purpose of the system. Other various purposes are :

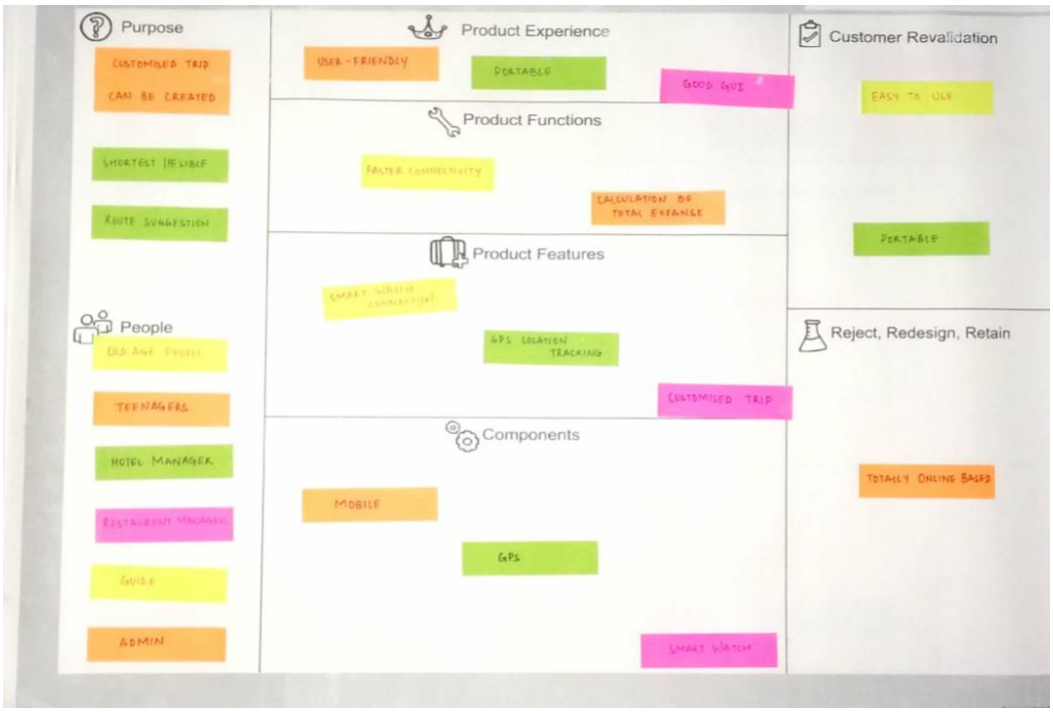
- Customized trip can be created
- Shortest/Feasible
- Route Suggestion

2.3.2 Product Experience

We had a great experience of good team work. We also came to know various view points of team menbers.

2.3.3 Product Function & Features

- User-Friendly
- Portable
- Good GUI



2.3.4 Components

The list of the components used for the implementation of the system are given as follows :

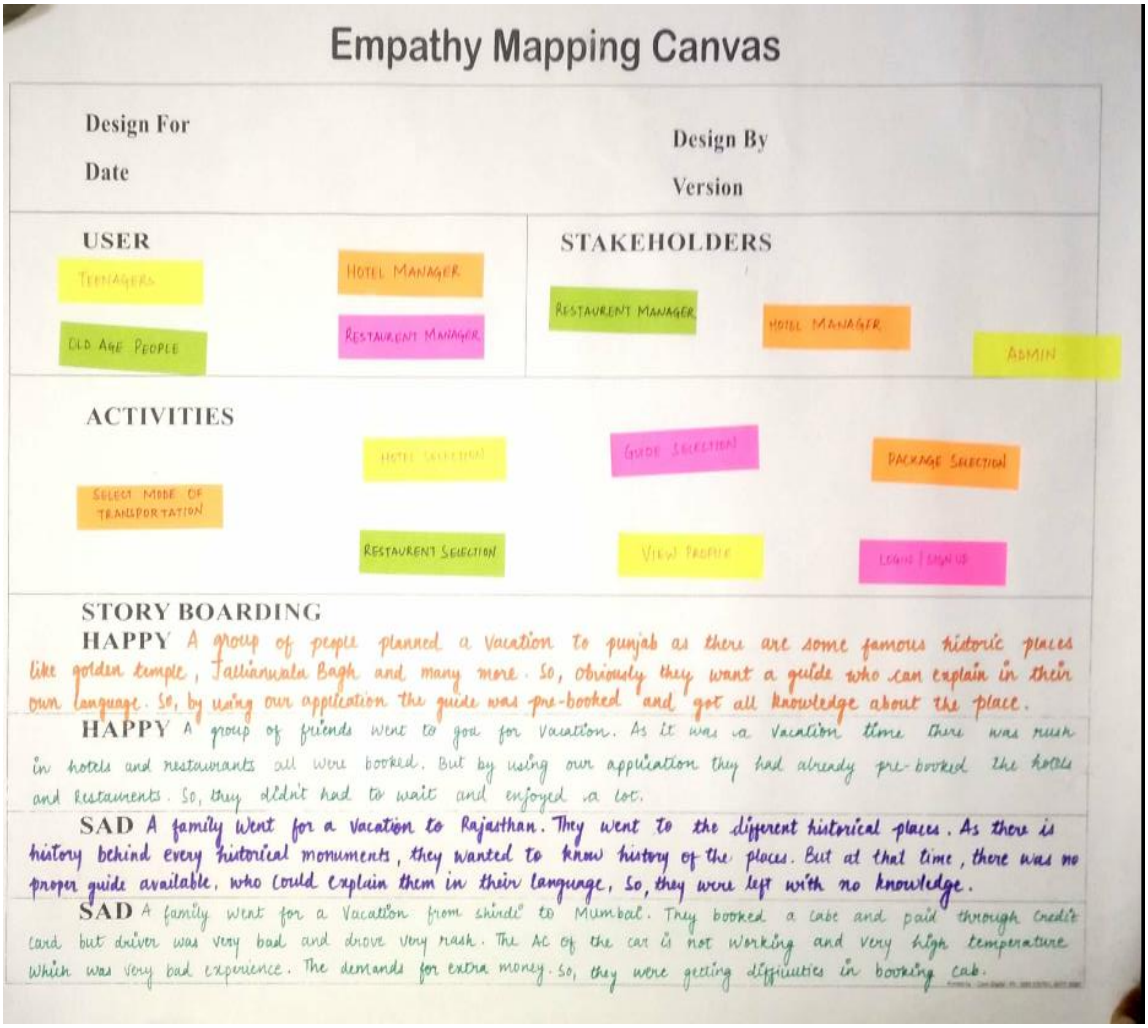
- Mobile
- GPS
- Smart Watch

2.3.5 Customer Revalidation

Various feedbacks given by the user to help us in future improvement of the application are :

- Easy to use
- Portable

2.4 Empathy Mapping Canvas



Empathy Mapping Canvas

Design For

Date

Design By

Version

USER

TEENAGERS

OLD AGE PEOPLE

HOTEL MANAGER

RESTAURENT MANAGER

STAKEHOLDERS

RESTAURENT MANAGER

HOTEL MANAGER

ADMIN

ACTIVITIES

SELECT MODE OF TRANSPORTATION

HOTEL SELECTION

RESTAURENT SELECTION

GUIDE SELECTION

VIEW PROFILE

PACKAGE SELECTION

LOGIN / SIGN UP

STORY BOARDING

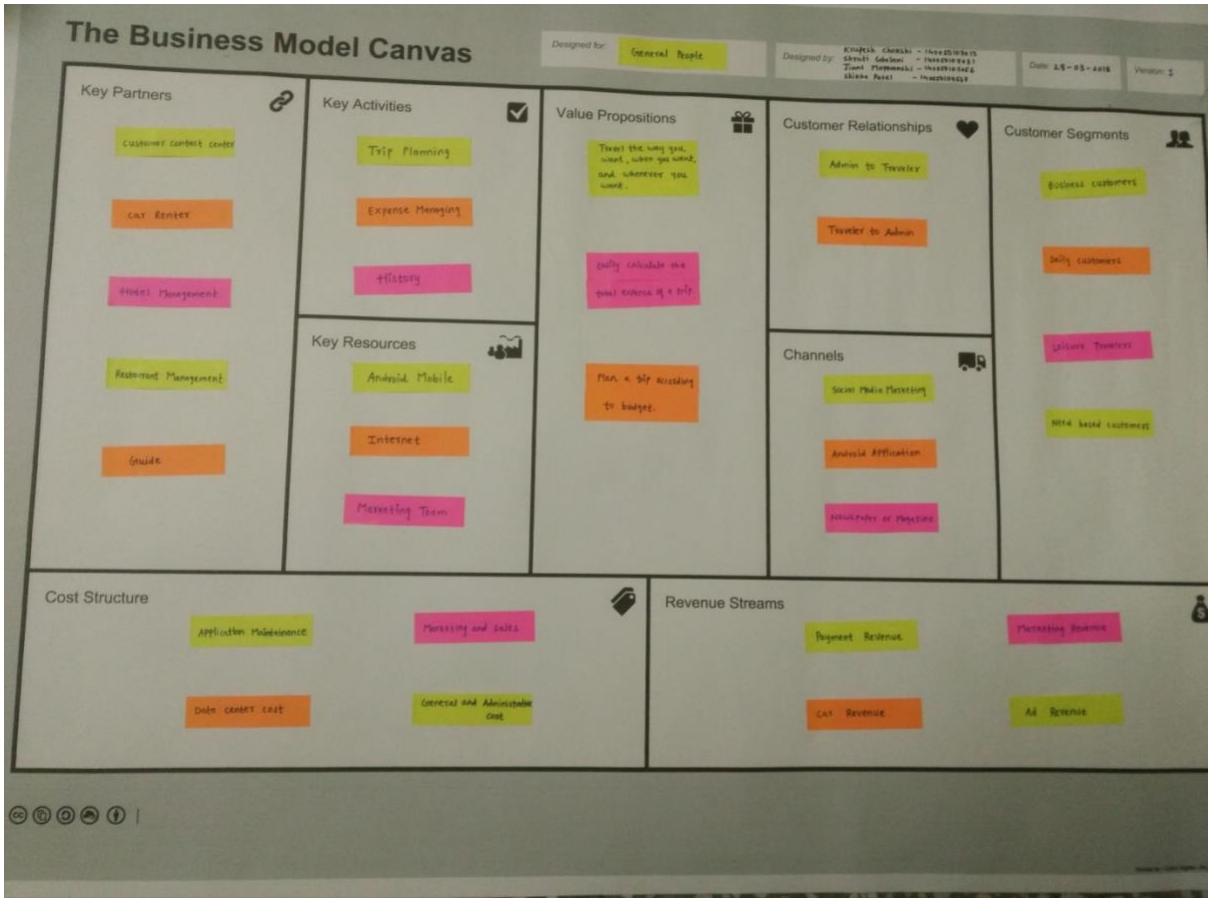
HAPPY A group of people planned a vacation to punjab as there are some famous historic places like golden temple, Jallianwala Bagh and many more. So, obviously they want a guide who can explain in their own language. So, by using our application the guide was pre-booked and got all knowledge about the place.

HAPPY A group of friends went to goa for vacation. As it was a vacation time there was rush in hotels and restaurants all were booked. But by using our application they had already pre-booked the hotels and Restaurents. So, they didn't had to wait and enjoyed a lot.

SAD A family went for a vacation to Rajasthan. They went to the different historical places. As there is history behind every historical monuments, they wanted to know history of the places. But at that time, there was no proper guide available, who could explain them in their language, So, they were left with no knowledge.

SAD A family went for a vacation from shirdi to Mumbai. They booked a cabe and paid through credit card but driver was very bad and drove very rash. The AC of the car is not working and very high temperature which was very bad experience. The demands for extra money. So, they were getting difficulties in booking cab.

2.5 Business Model Canvas



2.5.1 KEY PARTNERS

Key partners are those who are going to use the system directly or indirectly. The partners of our system are:

- Customer Contact Center
- Car Renter
- Hotel Management
- Restaurant Management
- Guide

2.5.2 KEY ACTIVITY

Key activities contain the functionalities that the users are provided with. Following are the functionalities:

- Trip Planning
- Expense Managing
- History

2.5.3 KEY RESOURCES

Key resources are the things that are required to access the website. Following are the key resources required:

- Android Mobile
- Internet
- Marketing Team

2.5.4 VALUE PROPOSITIONS

Value propositions contains the features that a customer receive. Following are the value propositions:

- Travel the way you want, when you want and whenever you want.
- Plan a trip according to budget.
- Easily calculate the total expense of a trip.

2.5.5 CUSTOMER RELATIONSHIPS

Customer relationships contains the direct relationship between the two party. Following are the customer relationships:

- Admin to Traveler
- Traveler to Admin

2.5.6 CHANNELS

Channels contains the sources that are required to represent. Following are the channels required:

- Social Media Marketing
- Android Application
- Newspaper or Magazine

2.5.7 CUSTOMERS SEGMENTS

Customer segments contains the list of possible ways for customer to use a car according to his/her convenience. Following are the customer segments required:

- Business Customers
- Daily Customers
- Leisure Customers
- Need Based Customers

2.5.8 COST STRUCTURE

Cost structure contains of the different costing required for the website. Following are the cost structure:

- Application Maintainance
- Data Center Cost
- Marketing and Sales
- General and Administrative Cost

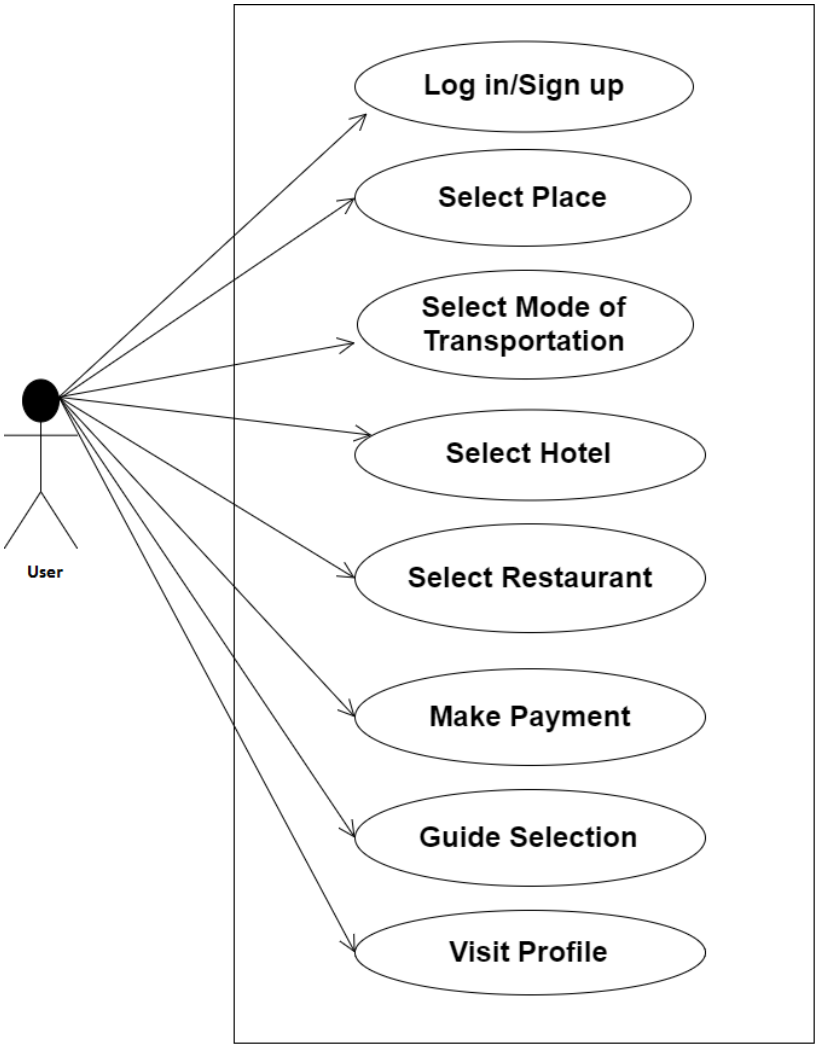
2.5.9 REVENUE STREAMS

Revenue streams contains the different ways to earn revenues through it. Following are the revenue streams:

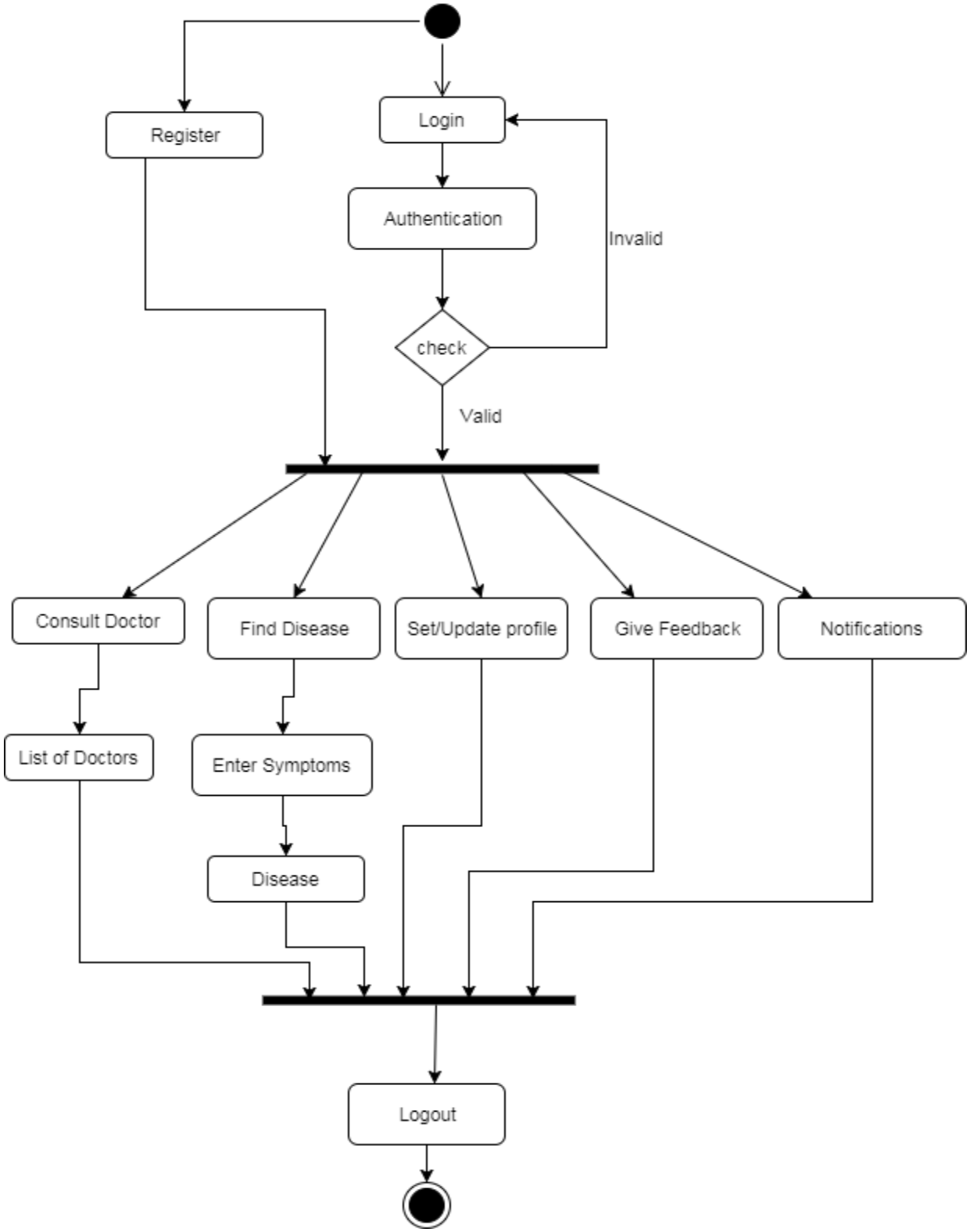
- Payment Revenue
- Car Revenue
- Marketing Revenue
- Ad Revenue

2.6 Diagrams

2.6.1 Use Case Diagram

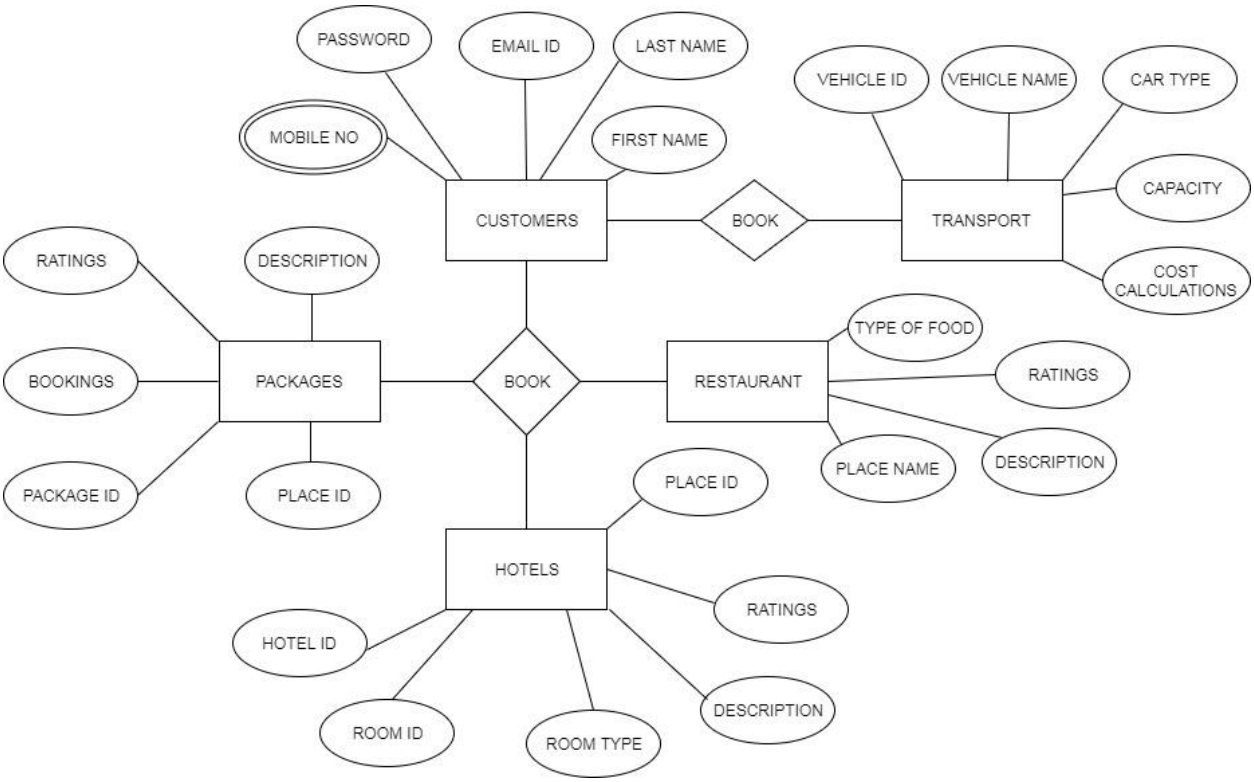


2.6.2 Activity Diagram

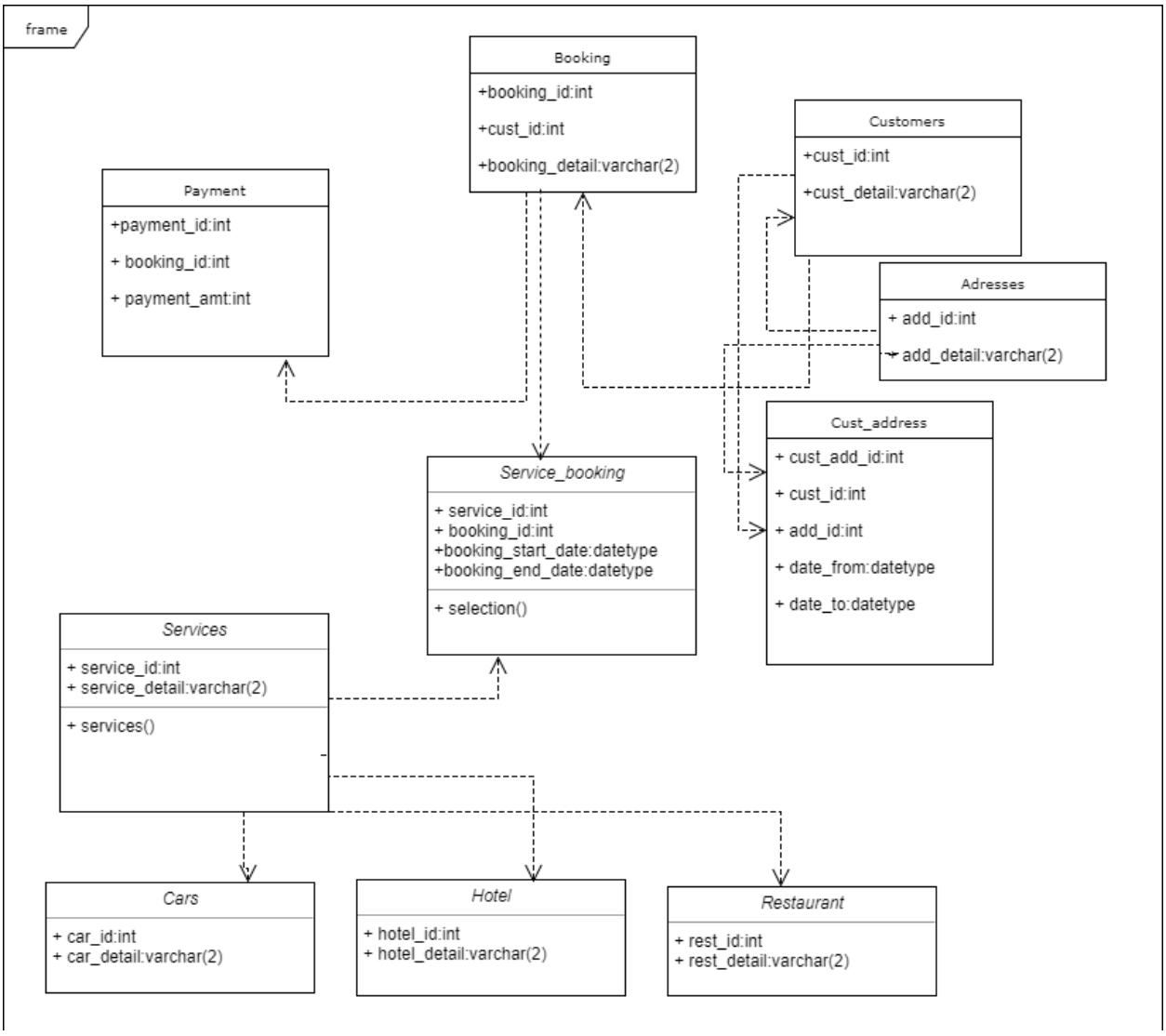


Activity Diagram

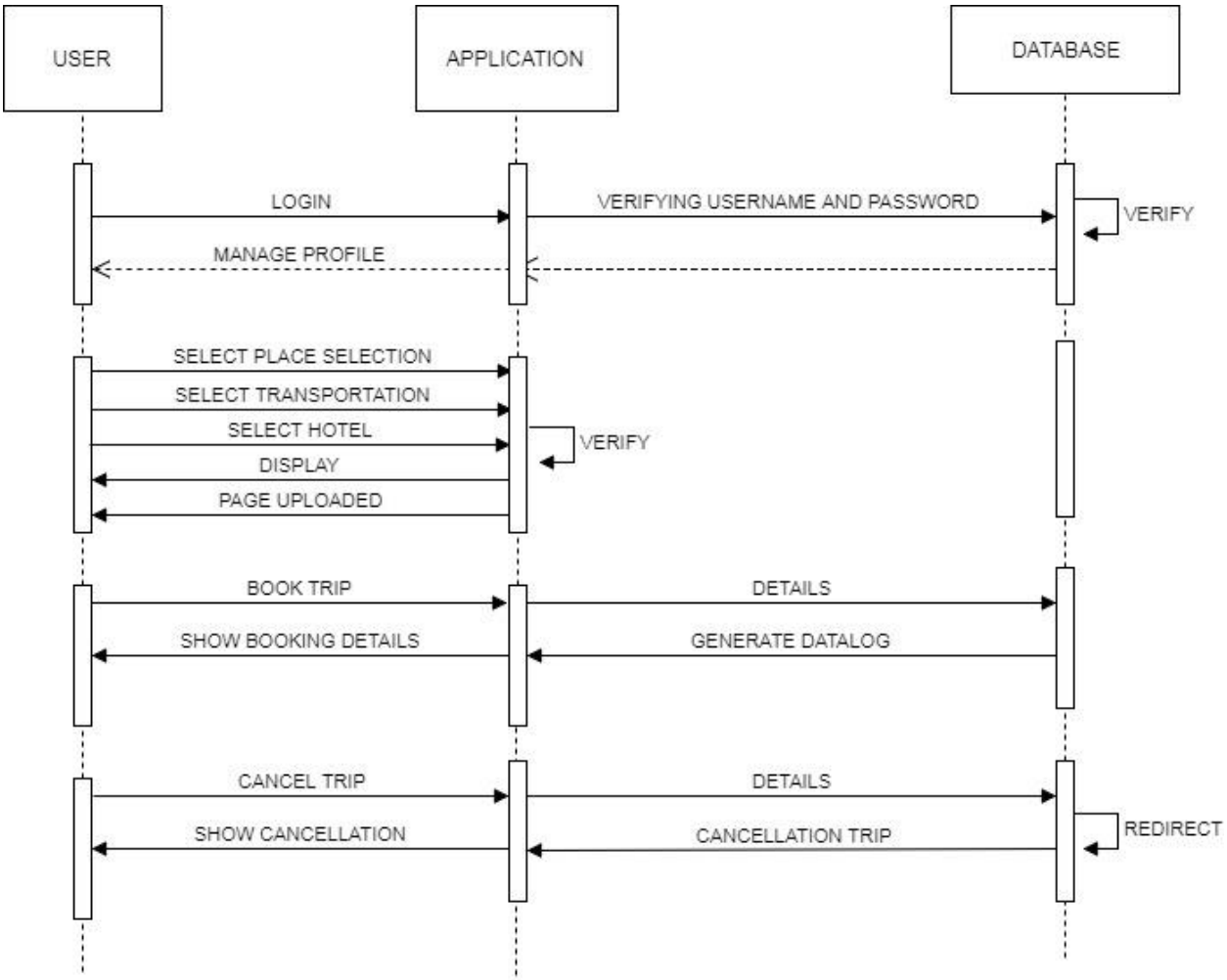
2.6.3 E-R Diagram



2.6.4 Class Diagram



2.6.5 Sequence Diagram



Sequence Diagram

3. IMPLEMETATION

3.1 Modules in the System

- **Registration :** This module is for registration of new user to access the functionalities of an application.
- **Login :** User can log in themselves in the system in order to use the application. Without login user can't access any function of the system. After login only user can get access.
- **Profile:** There is also a profile module in which a user can see their own details, visited trips, planned tour and much more.
- **Packages:** In this module the user will select place, restaurants, hotels, guide and will make one whole package according to their requirements.
- **Wallet:** It will have the total cost of the packages and also the expanse that user have done during the trip.
- **Reviews:** A user can also write reviews that they have already visited the place so that other people can get reference.
- **Contact Us:** There is module for user in case of any emergency they can contact the applicant in which there would be details like E-mail Id.

3.2 Data Dictionary

3.3 Flow

- **Registration :** Application will start from registration page in which one has to fill form of their details and register themselves. So, they can further procced.
- **Login :** After the registration is done successfully user can login anytime and access the functionalities of application as per their requirements.
- **Destination Selection:** In this phase customer will select the place that they want to visit and can also see the popular places which would become easy for use in selecting places. Customer has to add places into the cart.
- **Mode of Transportation:** Here customer will select what transportation facilities they want to reach to destination. For example- Car, Bus, Train etc.
- **Hotel Selection:** After selecting the place there come hotel selection in which a person will select hotel according to their budget and requirements. There are also various filters available.
- **Restaurant Selection:** This section will have the selection of restaurant according to type of food they want.
- **Guide Selection:** This is module is not mandatory. One can select guide if required who can explain in the language the customer is comfortable.

- **Payment:** After planning of whole trip a customer will displayed total cost of the tour that they have planned.

3.4 Screenshots

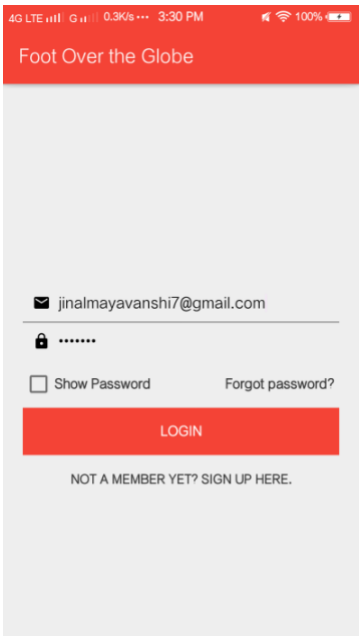


Fig3.4.1.(Login Page)

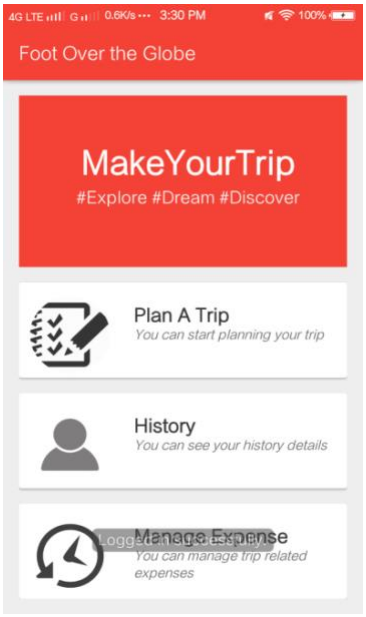


Fig3.4.2.(Make Your Trip)

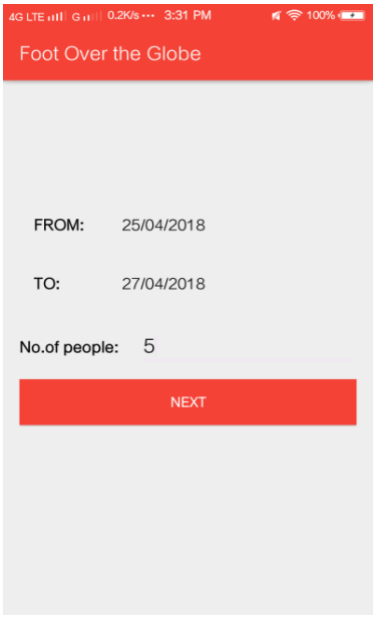


Fig3.4.3.(Date Selection)

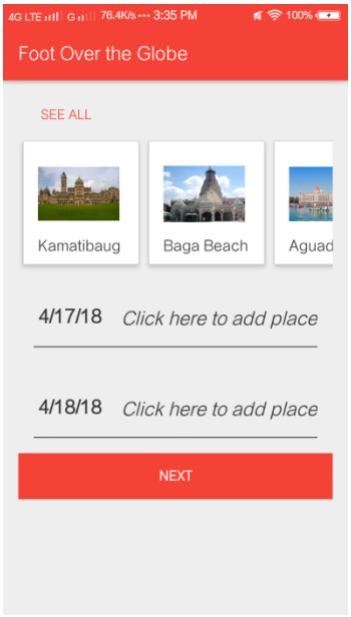


Fig3.4.4(Place Selection)

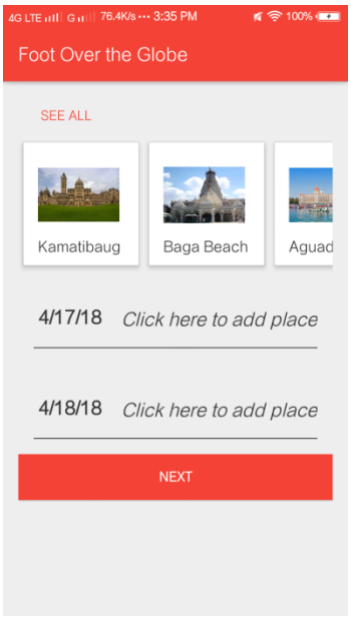


Fig3.4.5(Place Selection)

Fig3.4.6(Place Listing)

Fig3.4.7.(Internal Place Listing)

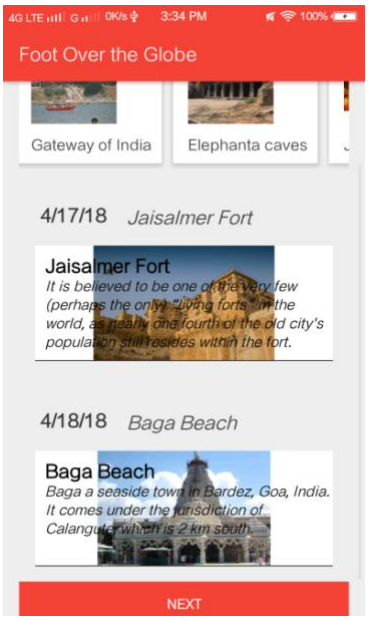


Fig3.4.8(Place Selected)

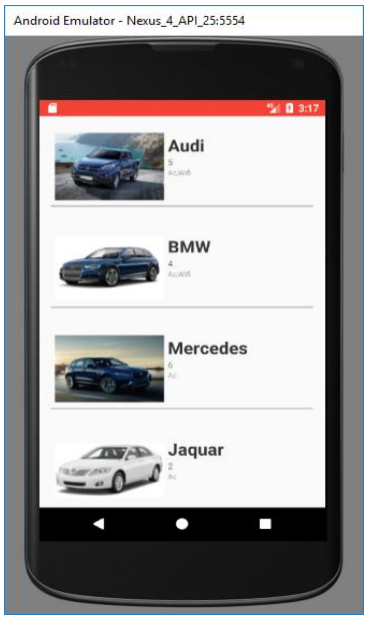


Fig3.4.9.(Car Selection)

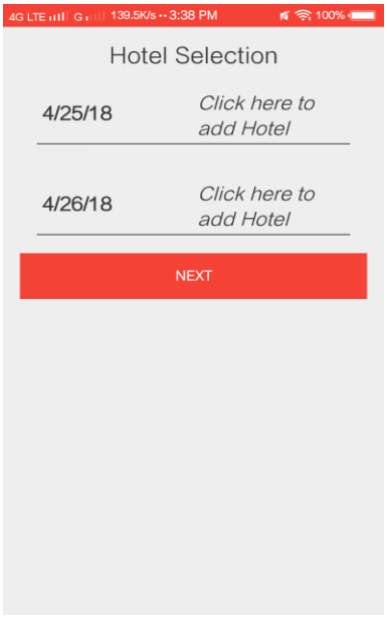


Fig3.4.10.(Hotel Selection)

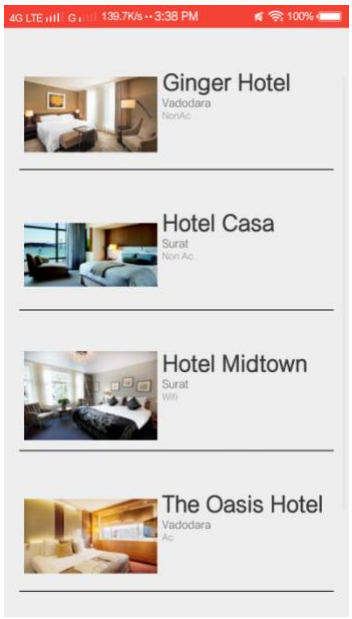


Fig3.4.11.(Hotel Listing)

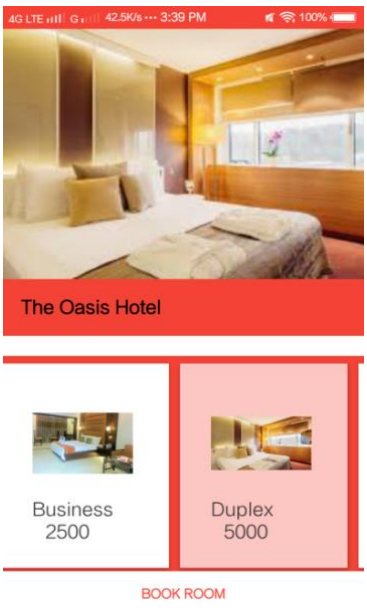


Fig3.4.12.(Room Detail)

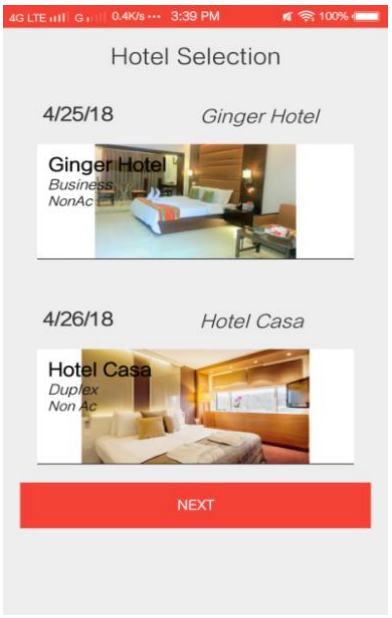


Fig3.4.13.(Hotel Selected)

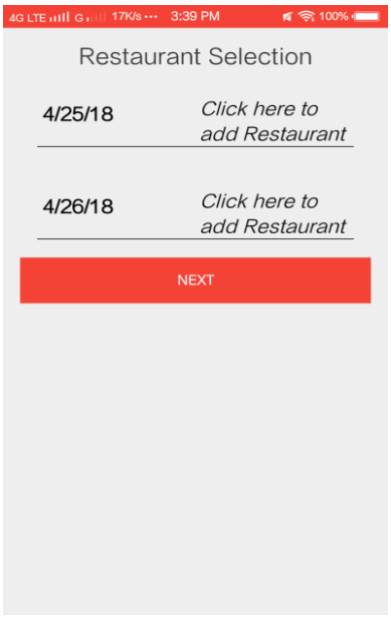


Fig3.4.14(Restaurant Selection)

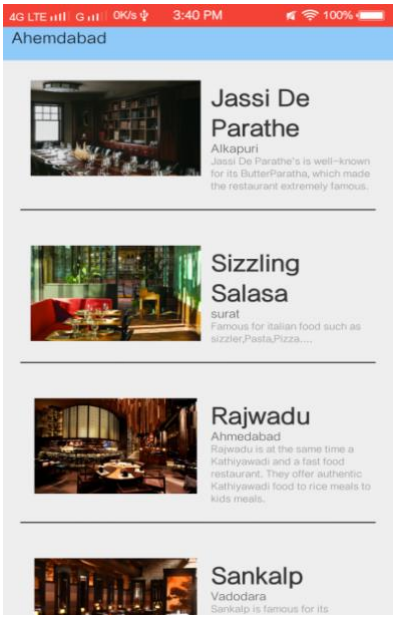


Fig3.4.15.(Restaurant Listing)

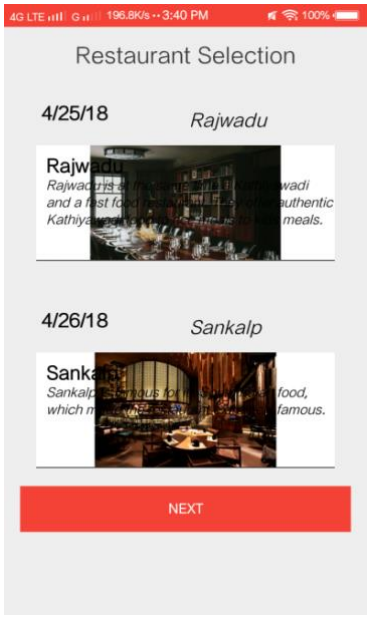


Fig3.4.16.(Restaurant Selected)

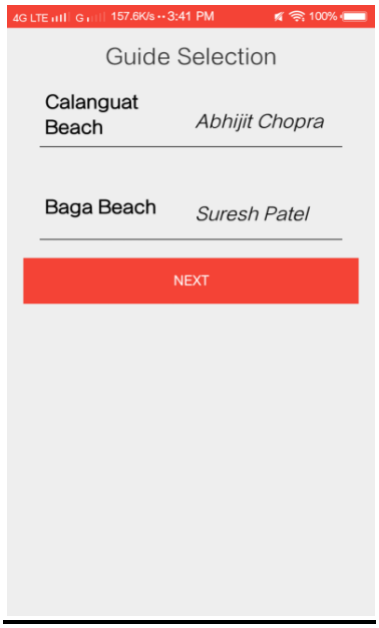


Fig3.4.17.(Guide Selection)

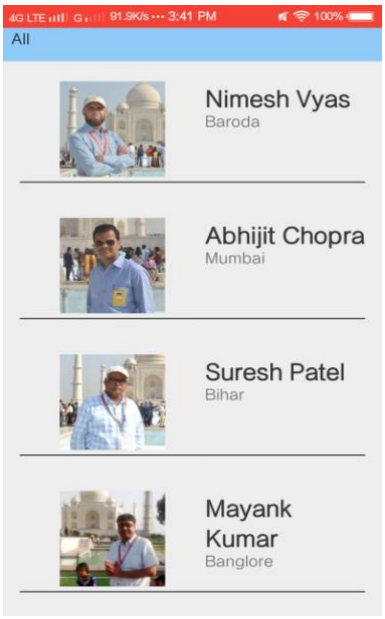


Fig3.4.18.(Guide Listing)

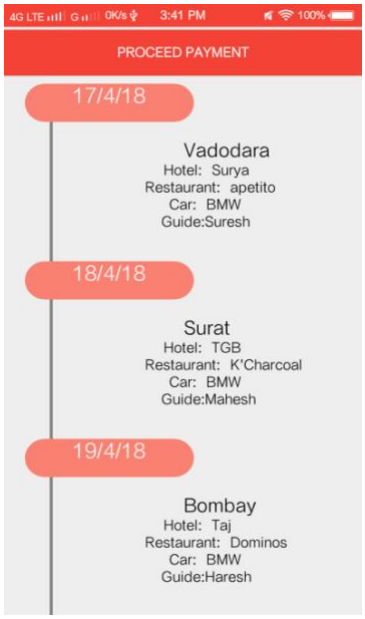


Fig3.4.19(Payment mode)

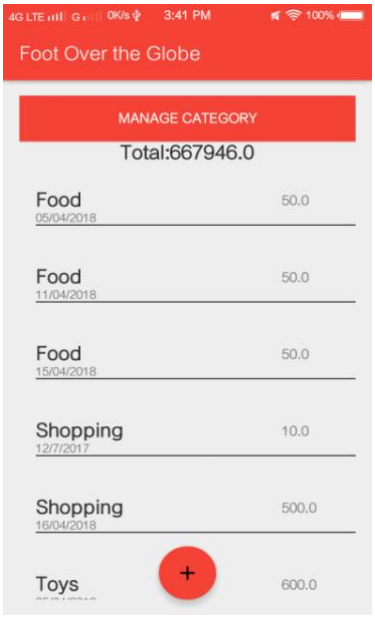


Fig3.4.20(ExpenseManager)

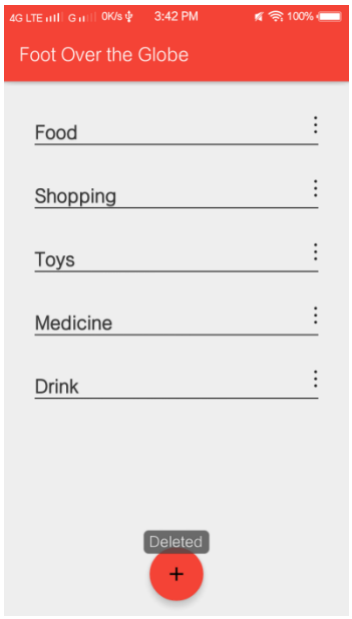


Fig3.4.21(Category List)

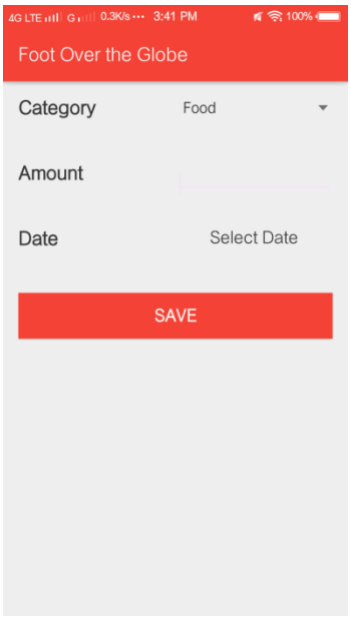


Fig3.4.22.(Save Expense)

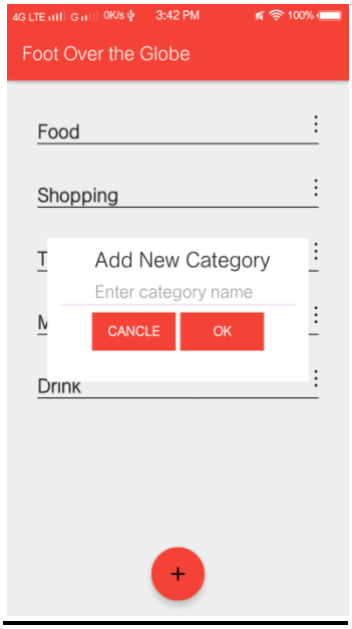


Fig3.4.23(Add Category)

4. SUMMARY

This application will let user to personalize and customize their trips by giving the best travel guides on all tourist places. User can use filters to customize results based on number of days of the trip, their current location, best time to visit, popular and offbeat locations and region where they want to travel. Explore from the variety of destinations across the world, add attractions, restaurants and book hotels and visualize a step-by-step day-wise travel plan in minutes with this application. User can find best ways (cheapest and fastest) to reach from one place to another.

4.1 Advantages of the System

- **Create custom Trip Plans:** This application helps you to personalize your travel itineraries to suit your interests, needs and budget.
- **Explore user generated itineraries**: Explore the travel itineraries created by travelers, edit or use them as your own itinerary template for your next trip.
- **Travel guide under one roof**: Get insider travel tips and the best tourist attractions, restaurants, things to do, best time to visit and local transport system of your chosen city from this application.
- **Book Hotels:** Choose from wide range of accommodation; pick your ideal hotel that suits your travel plan and budget. Book and add to your travel plan.
- **Share your plans and itineraries:** Share your itinerary and trip plans with friends, family and network.
- **Book Restaurant:** Choose from wide range of accommodation; pick your ideal restaurant that suits your travel plan and budget. Book and add to your travel plan.

4.2 Unique Features

- With the help of this application, every module related to travelling is available under one roof. No need to go here and there for different services.
- Helps you to personalize your travel itineraries to suit your interests, needs and budget.
- This application helps you find best ways (cheapest and fastest) to reach from one place to another.
- The registered users will be notified for the trips.
- All the services in one application are available for the users with the help of this system.
- In this project of ours, we are providing guide selection as per user choice.

4.3 Conclusion and Scope of Further Work

Conclusion

A smartest way to plan a trip, this application is for those who want to do D.I.Y. (Do it yourself) travel. The aim of the project is to ditch the time-consuming conventional ways of planning a vacation that involved browsing multiple websites, scribbling on excel sheets and talking to multiple sources before chalking out an itinerary. Extending support to travelers who want to personalize and customize their trips, it also integrates major elements of trip planning on one platform making it an easy and interesting task.

Scope of Further Work

In the future, we will add some more modules in our application to make our application more user friendly and convenient. We will also make our system interaction easy and efficient for betterment of the system.

Future modules are:

- **Payments:** For the future purpose, we would also be adding a payment module for the users.
- **Connect with smart watch:** In future, we would also provide facility of connecting application with smart watch. So that user can manage the application from their smart watch itself.

5. REFERENCES

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