

North South University
Department of Electrical & Computer Engineering

**Sample Document of
Travel Geeks Master
A Website For Complete Tour Package**

COURSE: Software Engineering CSE(327).4
FACULTY: A K M Bahalul Haque

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GitHub Public Repository: <https://github.com/Shanto2378/travel-geeks.git>

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1.1 Project Description

Project Overview

Travel Geeks Master would be a project that is being planned to keep in mind all the requirements one might be needing during a tour. Not only people of our country but also tourists of other countries come to visit us and they had to face issues with hotel reservation, tour guide, transportation, and other stuff. With a view to solving those issues, we are trying to come up with something which is at the same time helpful for the people who deal with such issues and are concerned about customer satisfaction with the best possible service. Travel geeks master would be a website where people all across the world can book their hotels of their desired district along with a tour guide. Booking through this website will also help them to get an extra discount on the hotel reservation and along with the guide, we will provide a transportation system, and all the responsibilities of the place will be taken care of by the tour guide. The user will also get the chance to rate their experience and communicate with the admins of the website regarding any issues.

Purpose of the project

We live in a country enriched with great natural beauty as well as with much historical interest. Travel enthusiast people are so fond of traveling all across the beautiful places and there is a season every year when there is a rush of people in the tourist spots. It causes great trouble for the people and especially for those who are not from our country. To solve these issues our view was to come up with a complete project where they can solve their travel-related issues under one single website. Apart from this people have to pay high at every step during the tourist season. So such issues need to be solved.

There is also a business point of view behind this project. People will have to pay more and they still don't get their desired service. So if they would pay that extra amount and get the trouble-free service from us then both the users and the creators of the website will be benefited. And thus a business can grow depending on it.

Goals of The Project

Bangladesh tourism sector is a sector of scope and every year from this sector Bangladesh collects a great revenue. So this whole sector should be more organized and this can be a great place for people who are working in the new sectors and projects as an entrepreneur.

Since Bangladesh is experiencing great development and almost a huge amount of business is being conducted online so this can be a potential sector and opportunity with a great purpose.

Scope of The Work

As I have already stated that Bangladesh is a place of amazing tourist spots and it has a great scope in this field, country earning a good amount of revenue so at the first place we can see the sector is a really feasible one. At the same time nowadays people are more into comfort and hassle free life so they are also looking for something which would be convenient for them to have a great travel experience so we can assume that this work has an amazing scope if we can update the features as per the necessity and we can maintain our quality of best services.

The Context of the Work

Here is an overall system architectural view of the whole process of work-

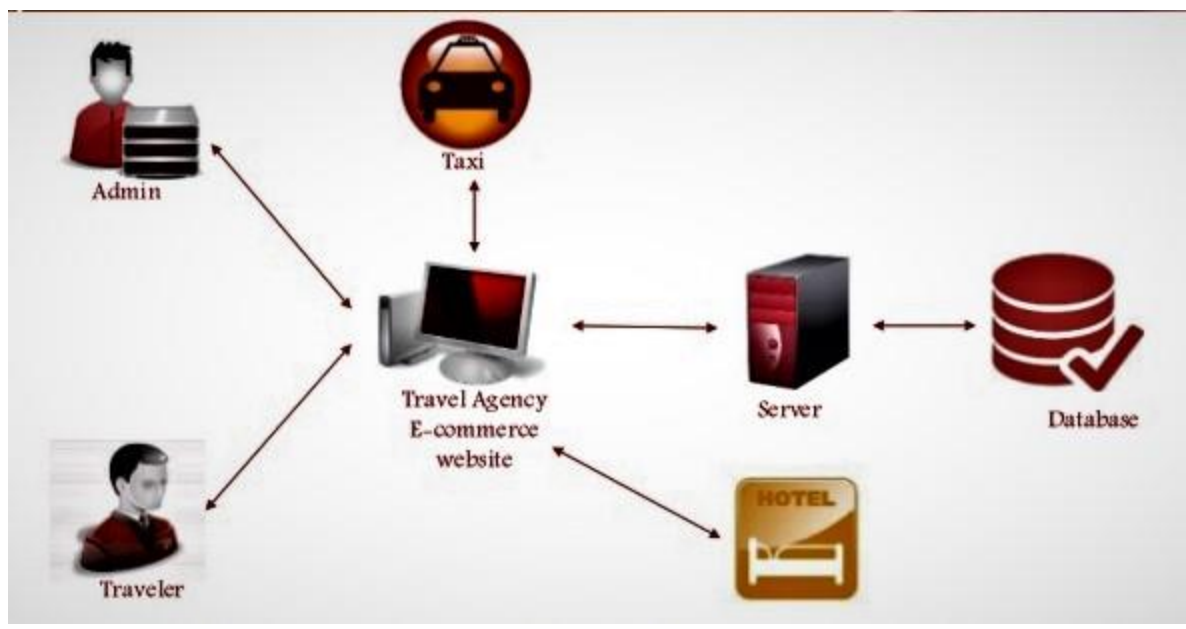


Figure: An overview of the whole system

From the attached picture we can be considered as a structural view of our system. Here we can see the stakeholders, how they are connected to each other and hoe the whole process connects different user ends.

1.2 Stakeholders

The stakeholders of this project are Traveler, Hotel, Guide and Admin.

Here **Traveler** are the people for whom the whole project has been designed. They will be the main users who has the functionality of sign up and log in to the website. after that they have the option to choose their preferred hotel and book the hotel they can also hire the guides and contract to the admin.

The second stakeholders are our **hotels**. So the hotel page contains the hotel details and the details are being monitored by the admin.

The third stakeholder of this project are the **guides**. They can get hired by the travelers and they can also connect to the travelers.

The final stakeholders are our **admin**. **Admin** will be monitoring the hotel reservations and they can also get access to the database and the other pages.

1.3 System Requirements

System requirements are the requirements which are being collected for the stakeholders in natural language for their understanding that what will be the goal of our project, what is their role in the project.

User Requirements

Here the users are our traveler, guides and hotels. So the main requirement of our users are to take the services. For travelers their requirements are to book the hotel according to their choice and avail the special offers for using booking through our website. They can also take the service of hiring the guides per their preferred district and they require to have the functionality of contracting with the admin for any kind of issues.

For hotels the requirements would be to get all the important booking information from the user end and act as per their requirement if there is any suitable vacancy in the hotel. The hotel should also have the access to the admin for the policy issues and handling the customers.

Guide can see who has hired them and also can contract with them for the hiring purpose. Guide would also have the access to contract with the admin for any kind of issues regarding the system and booking.

System Requirement

System requirements are two types functional and non-functional. For the functional requirements it covers all the non-functional requirements for example the privacy policy, cost, maintenance, customer satisfaction and so on. To avail this website an user have to have a the chrome or any kind of browser and that all they will be needing. Then through creating an account to access to the website and get all the features.

Modules of Travel and Tour Management System

Traveler management

- Sign Up
- Login
- Hotel Reservation
- Guide Hire
- Tourist website visit

Hotel Management

- Get the reservation details from users
- Manage the reservation process

Guide Management

- Sign Up
- Log in
- Get connected with the travel through hire process

Admin

- Login
- Manage the hole process
- Hotel Reservation management

Package Module

User can go throughout the process can see the available hotels, special discount, can find the map of our office location. User can see the offers of the hotels for selecting them as per their requirements. They can also see the guide and hire them accordingly.

Search Module

Through this module user can search our location as well as the hotel location, tourist spot and so on as it is connecting to the google map.

Hardware Requirement

- Processor: Intel i5
- Disk space: 111 GB
- Memory: 8 GB
- Internet Connection

Software Requirement

- Windows 10 or Windows or higher versions of OS
- Any Latest Web Browser. (Preferably, Google chrome)
- For Server, IIS 7 or greater with .NET Framework 4 or above.
- HTML, CSS and Bootstrap for User Interface.
- JavaScript for client side scripting.
- Asp.net with C# as a programming language and Visual Studio as an IDE.

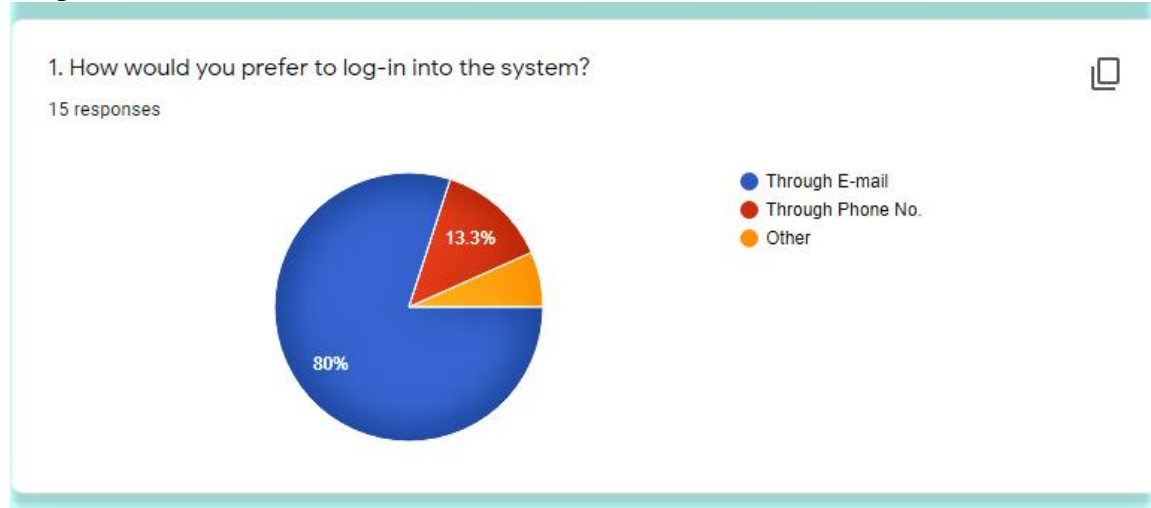
Requirement Analysis

Survey Questions (users): <https://forms.gle/VJk7i3tQ1BnjRuQHA>

1. How would you prefer to log-in into the system?

- Through email
- Through phone no.
- Others

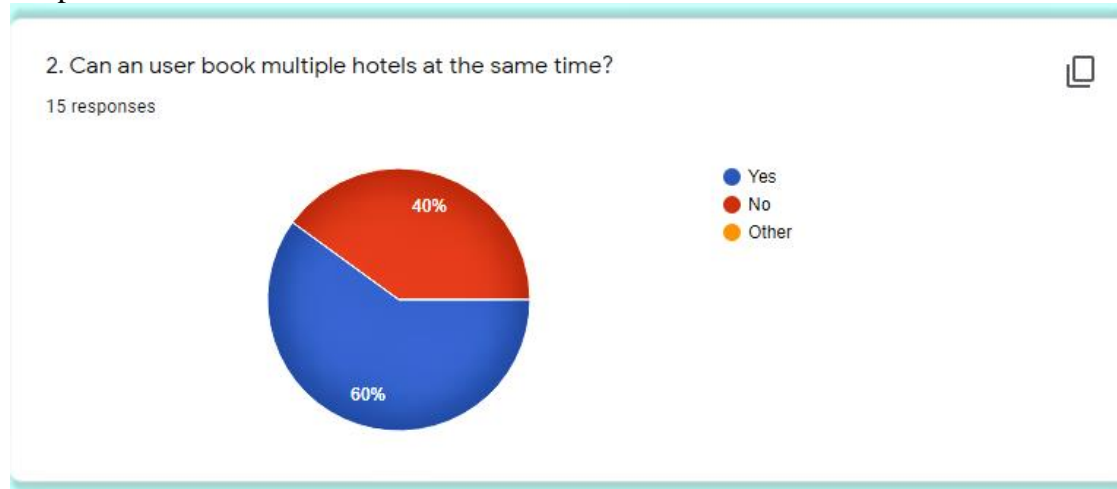
Responses Scenario-



2. Can a user book multiple hotels at the same time?

- Yes
- No
- Others

Response scenario-

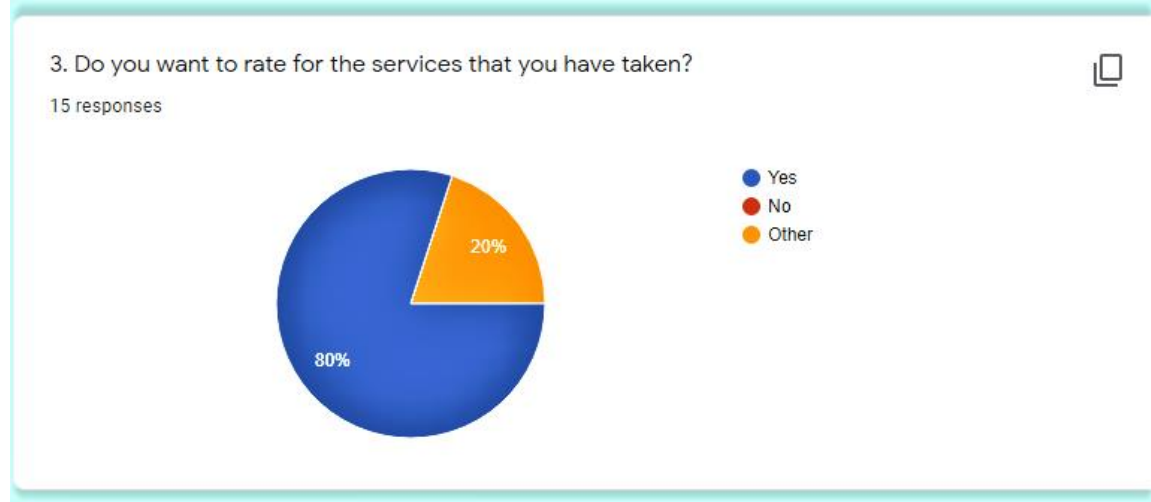


3. Do you want to rate for the services that you have taken?

- Yes

- No
- Others

Response scenario-



4. Which facilities would you require to see before booking a hotel?

- Text Field

Response scenario-

4. Which facilities would you require to see before booking a hotel?

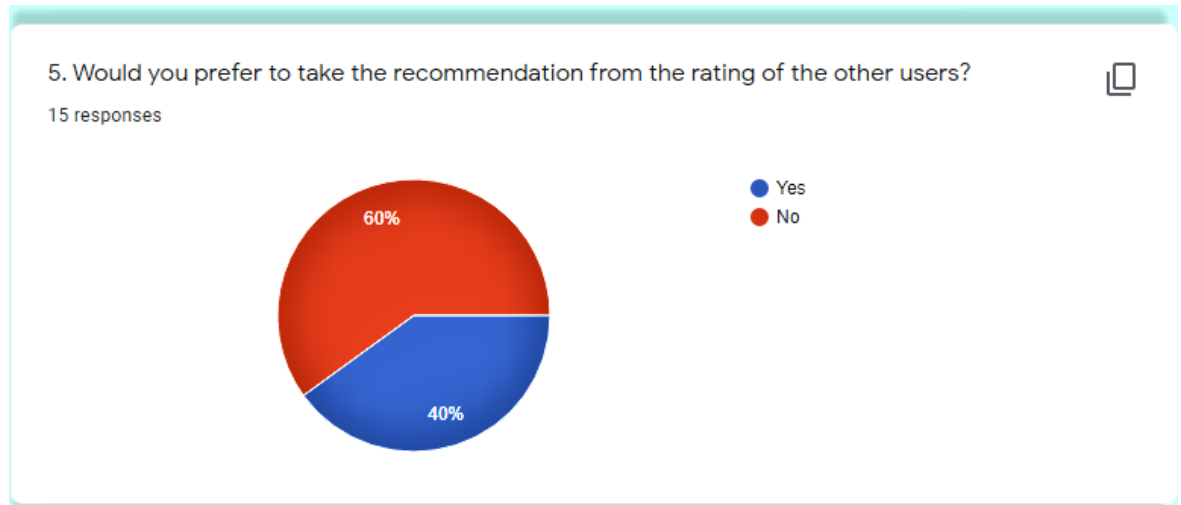
15 responses

Interior and room service
details about hotel rooms, food menu and price, comparison of prices
pricepoint and food
Adequate safety
Clean environment
Security and Food
Cleanliness of the place
Comfortable bed and clean washroom
Healthy food

5. Would you prefer to take the recommendation from the rating of the other users?

- Yes
- No

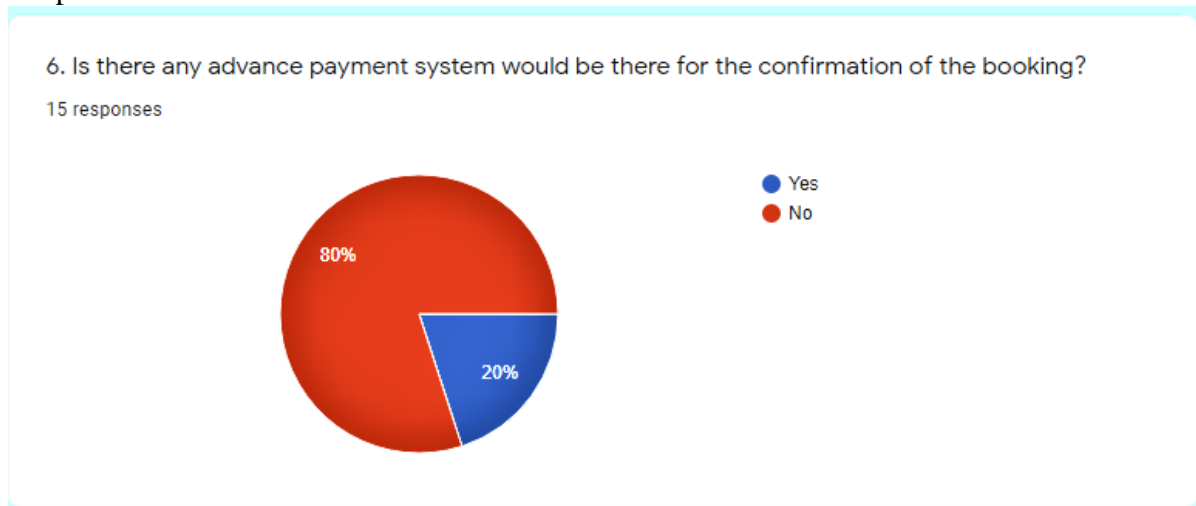
Response scenario-



6. Is there any advance payment system would be there for the confirmation of the booking?

- Yes
- No

Response Scenario-



7. What are the information you (as a user) would prefer to know about a guide for the security purpose?

- Text field

Response scenario-

7. What are the information you (as an user) would prefer to know about a guide for the security purpose?

15 responses

Guide's full information(Full address, Birthday certificate copy, NID/ passport copy)

everything that would be required for security purpose

name, phone no, address

Previous experience and background information

Background information

His name, precious experience, background record, reviews

Previous ratings, background information

Previous experience, reviews, recommendations

Background information and previous ratings

Survey Questions Guide: <https://forms.gle/on9LqSpGbYp1KrZD9>

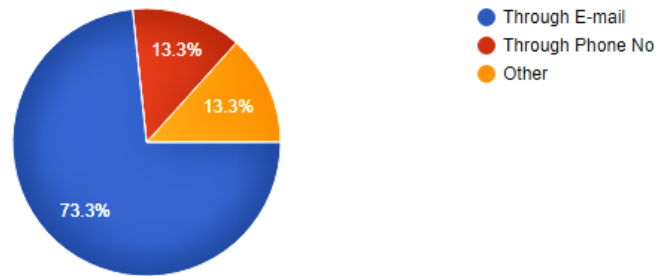
1. How would you log-in into the system?

- Through email
- Through phone no.
- Others

Response scenario-

1. How would you prefer to login into the system?

15 responses



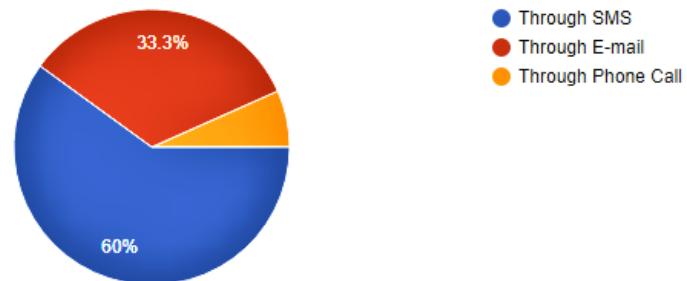
2. How would you prefer to get notified if any user want to take your service?

- Through SMS
- Through email
- Through Phone call

Response scenario-

2. How would you prefer to get notified if any user want to take your service?

15 responses



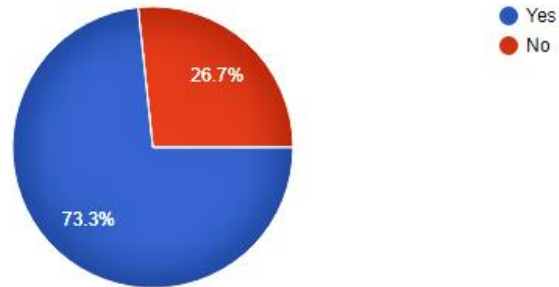
3. Do you want to rate for the customer you have served for?

- Yes
- No

Response scenario-

3. Do you want to rate for the customer you have served for?

15 responses



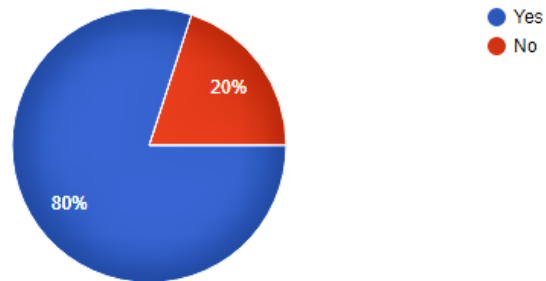
4. Do you want to get any advance payment to confirm your service?

- Yes
- No

Response scenario-

4. Do you want to get any advance payment to confirm your service?

15 responses



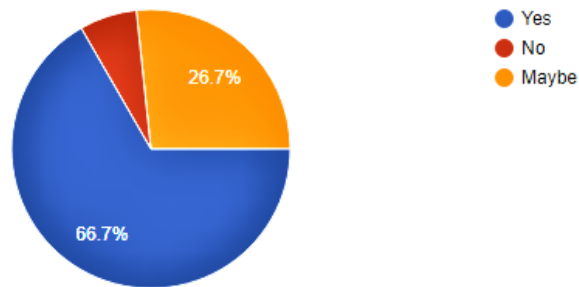
5. Do you agree to share all your personal information(relatable) that we would ask for?

- Yes
- No
- Maybe

Response scenario-

5. Do you agree to share all your personal information(relatable) that we would ask for?

15 responses



6. What are the information you (as a guide) would prefer to know about a user for the security purpose?

-Text field

6. What are the information you (as a guide) would prefer to know about an user for the security purpose?

15 responses

I would like know about the tourist's information (Account info. and NID)

Previous ratings and feedbacks

Prior feedbacks

Previous experience and ratings

Recommendations from previous experience

Personal information or prior ratings

Name, phone number and where to go.

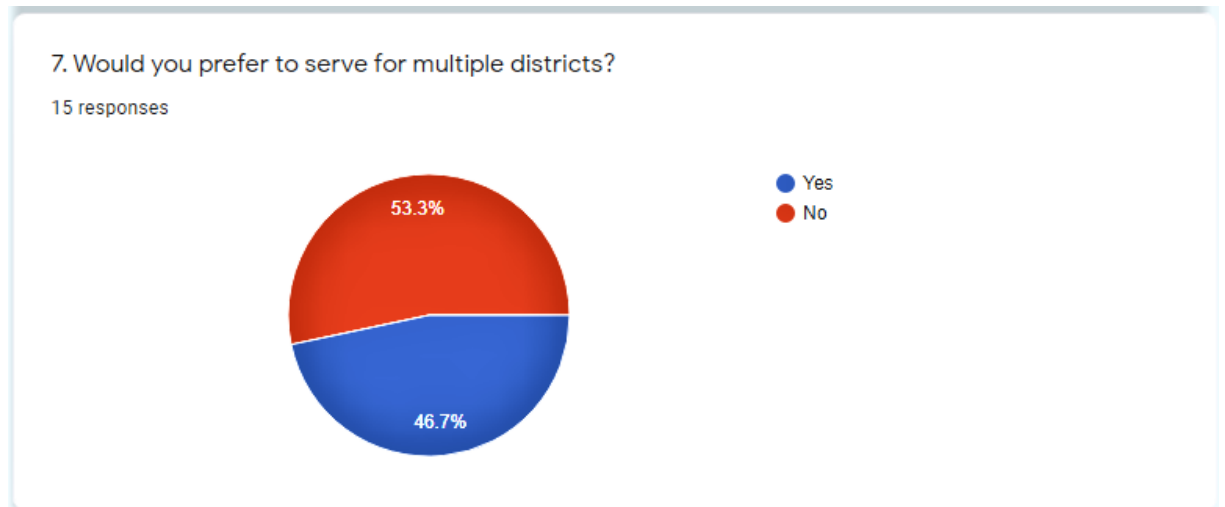
Name, and total people count.

Name, where to go.

7. Would you prefer to serve for multiple districts?

- Yes
- No

Response scenario-

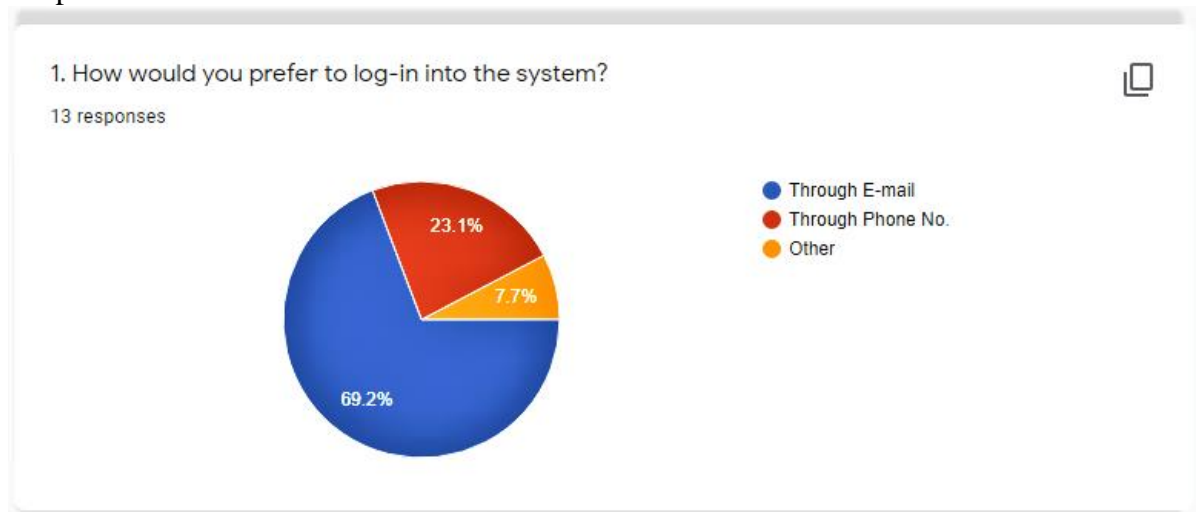


Survey question hotel: <https://forms.gle/tGDTTyinoR3mJUMLA>

1. How would you log-in into the system?

- Through email
- Through phone no.
- Others

Response scenario-



2. What information would you like to share with the users?

- Text field

Response scenario-

2. What information would you like to share with the users?

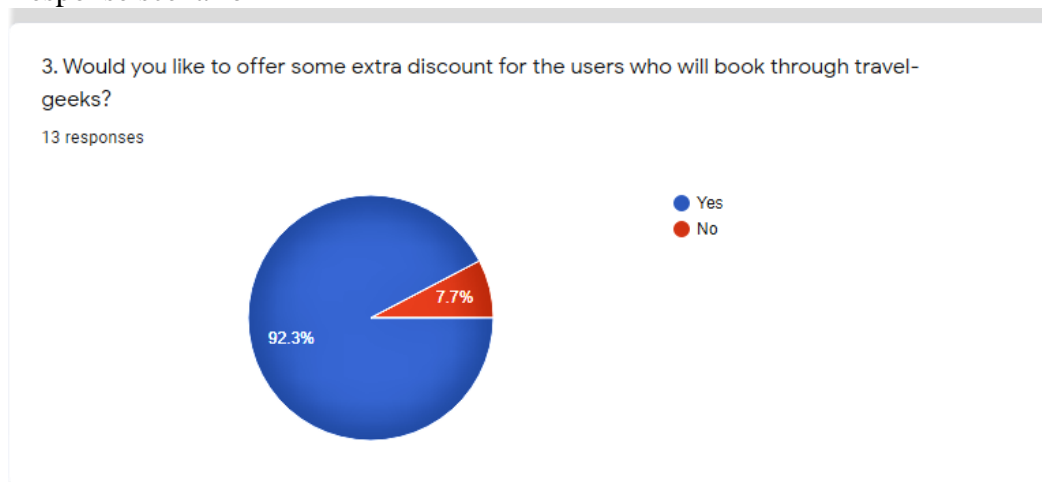
13 responses

- About our hotel, services and security
- Information that will present my hotel, like our special facilities, services and offerings etc.
- Services, facilities, advantages etc.
- Room facilities, food menu, special services etc.
- Anything that represents my hotel to them
- Nothing much
- Ok
- Yes
- Not sure

3. Would you like to offer some extra discount for the users who will book through travel-geeks?

- Yes
- No

Response scenario-



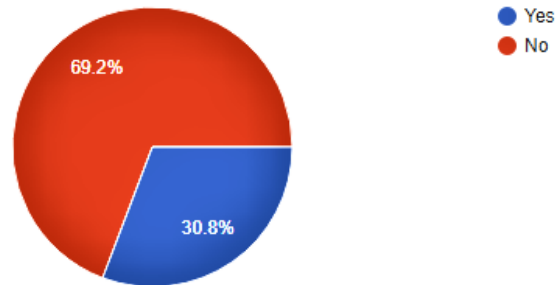
4. Would you prefer to share your transaction details with the admin panel?

- Yes
- No

Response scenario-

4. Would you prefer to share your transaction details with the admin panel?

13 responses



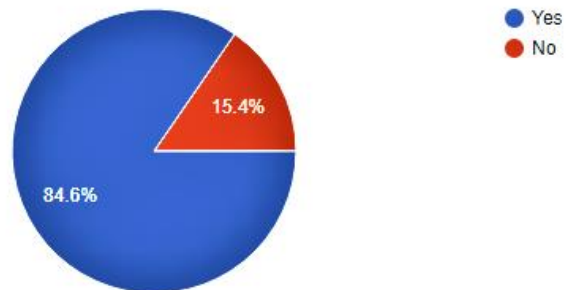
5. Would you allow us to compare your services and prices with the other hotels?

- Yes
- No

Response scenario-

5. Would you allow us to compare your services and prices with the other hotels?

13 responses



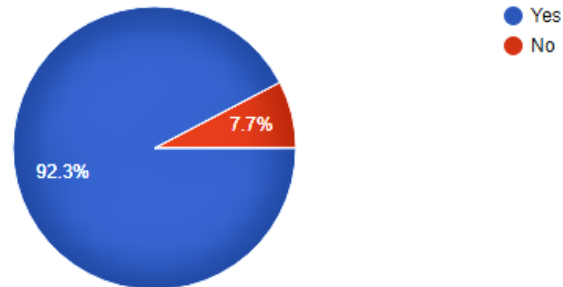
6. Do you prefer to receive any advance payment for the booking process?

- Yes
- No

Response scenario-

6. Do you prefer to receive any advance payment for the booking process?

13 responses



7. Would you like to offer some extra facilities to the users other than the facilities which are mentioned in the website? If yes, then what are those?

- Text field

Response scenario-

7. Would you like to offer some extra facilities to the users other than the facilities which are mentioned in the website? If yes then what are those?

13 responses

No

no

Yes, complementary breakfast/ dinner, extra discount etc.

Complimentary food, discount on dinner menu

Arranging tour transportation, guiding with information, discount on the food menu

Complimentary Snacks, Arranging tour transportation

NO

transport and some discount

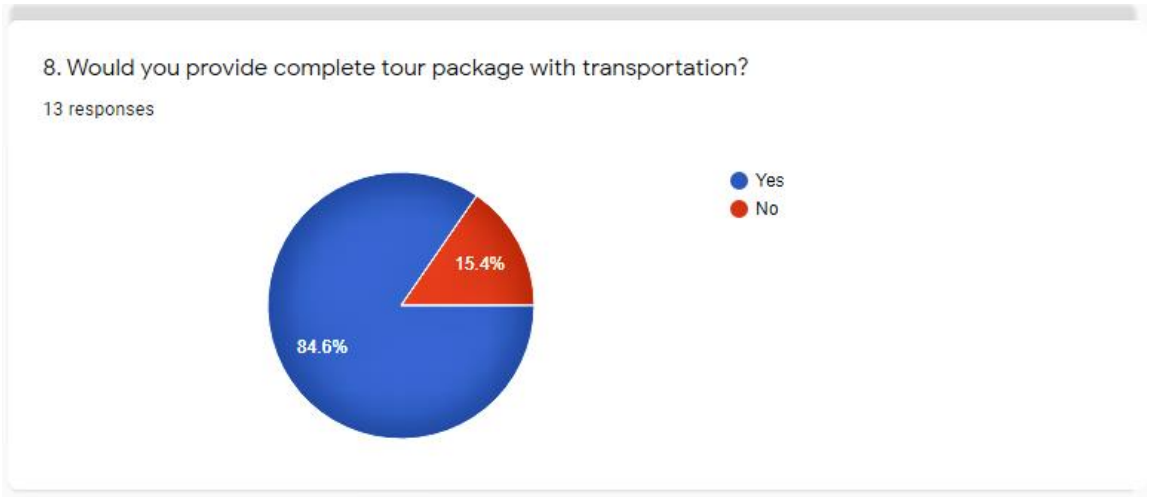
some discount

8. Would you provide complete tour package with transportation?

- Yes

- No

Response scenario-



Survey Forms

Users- <https://forms.gle/VJk7i3tQ1BnjRuQHA>

Diagrams of the System

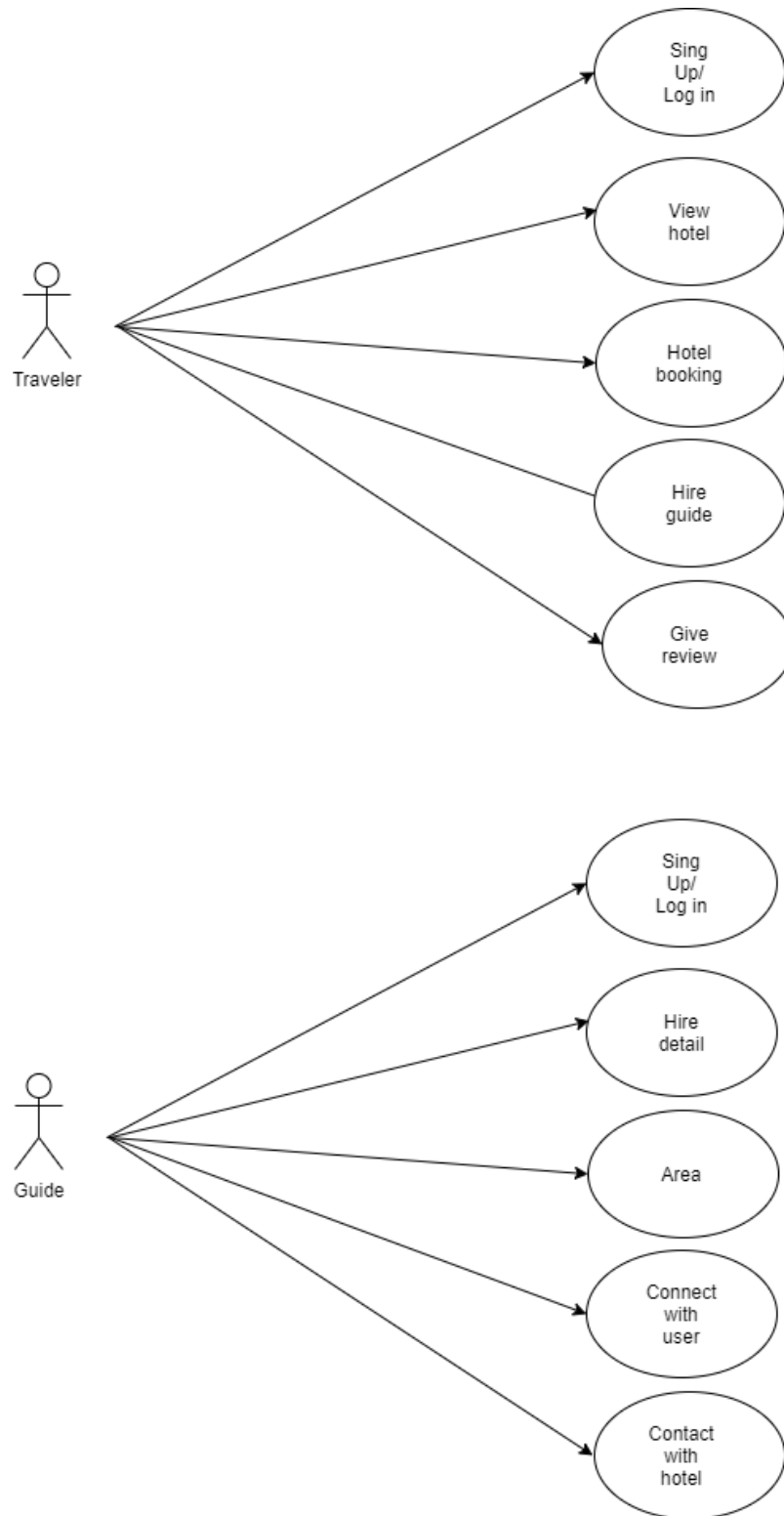


Figure: Use case Diagram of traveler and guide level

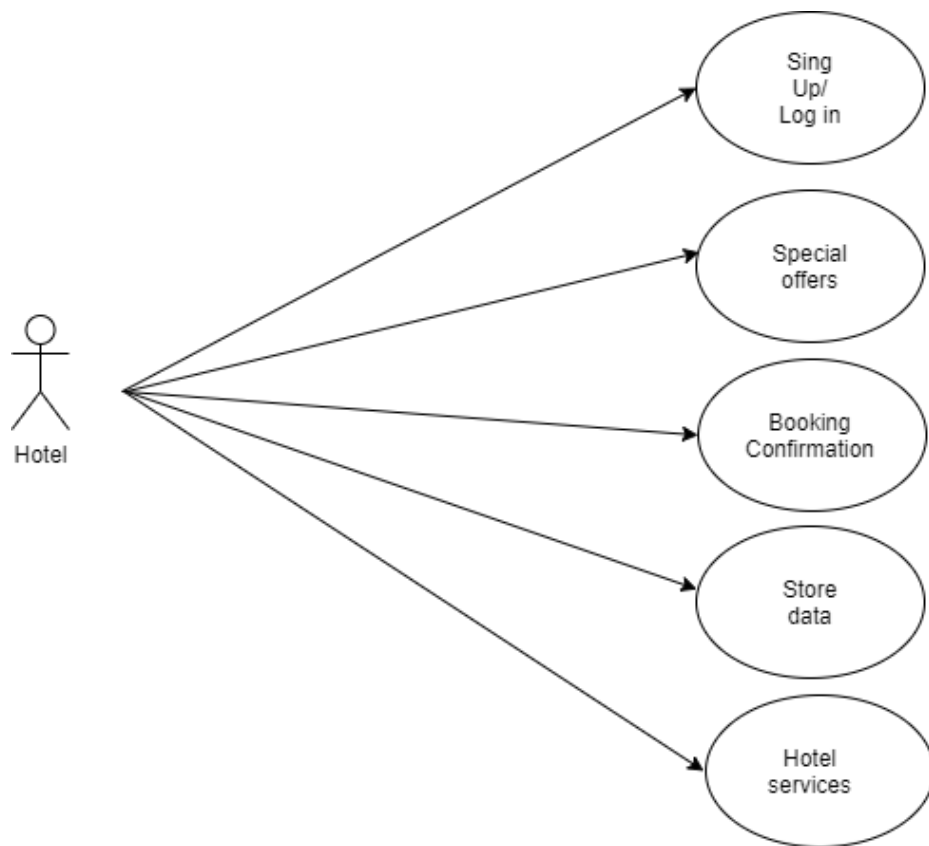


Figure: Use Case Diagram for Hotel level

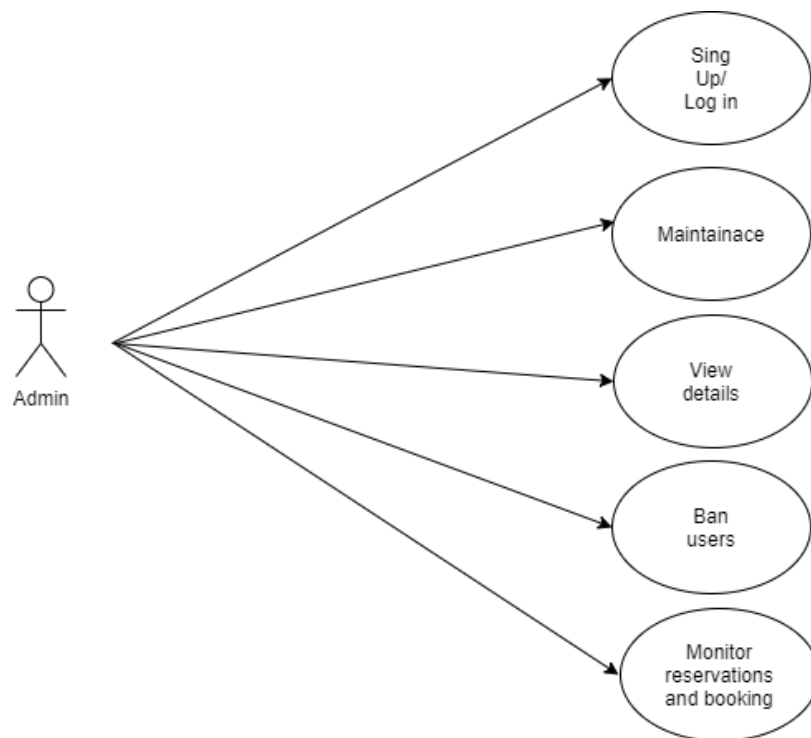


Figure: Use case diagram for admin level

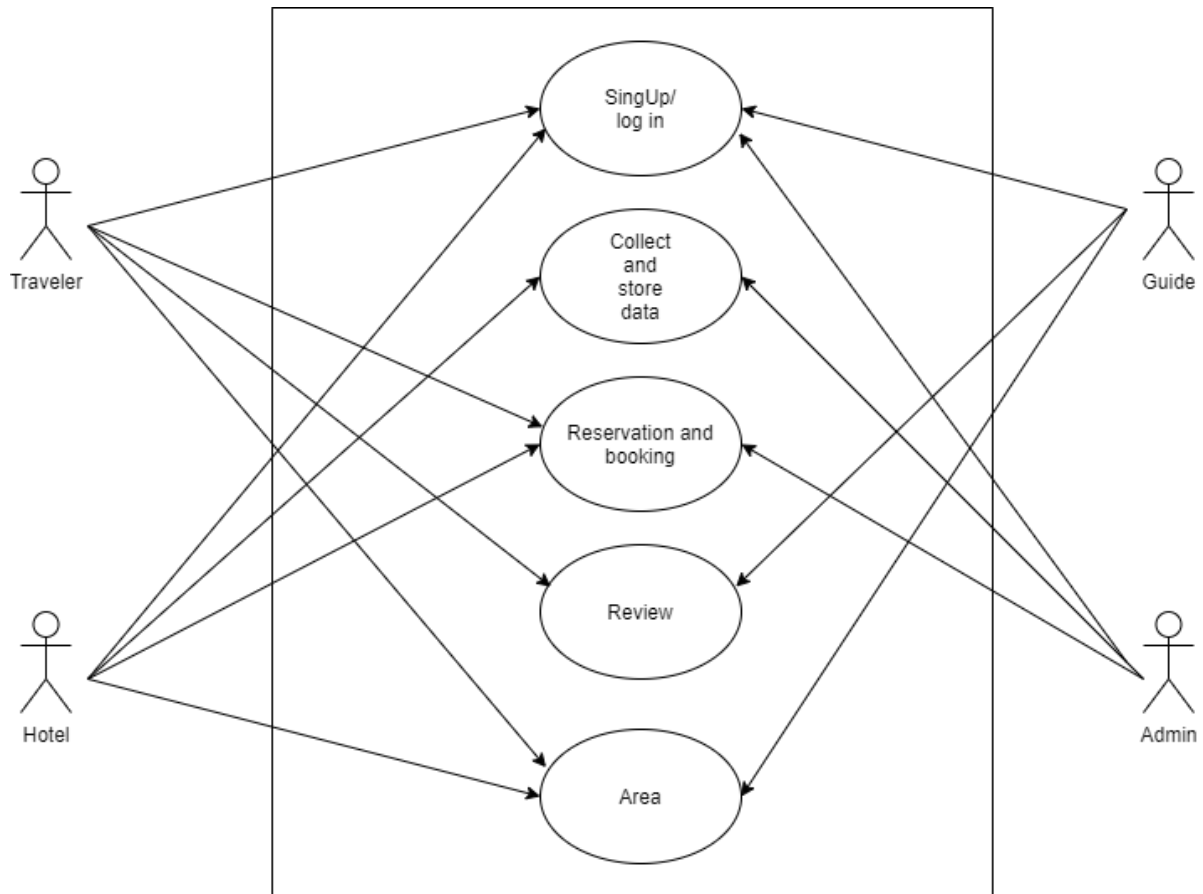


Figure: UML diagram

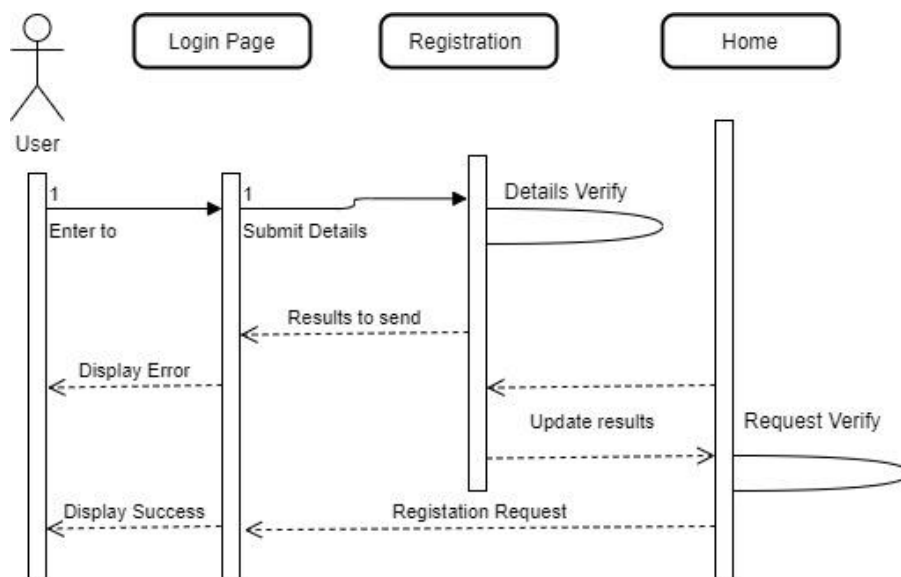


Figure: Sequence Diagram

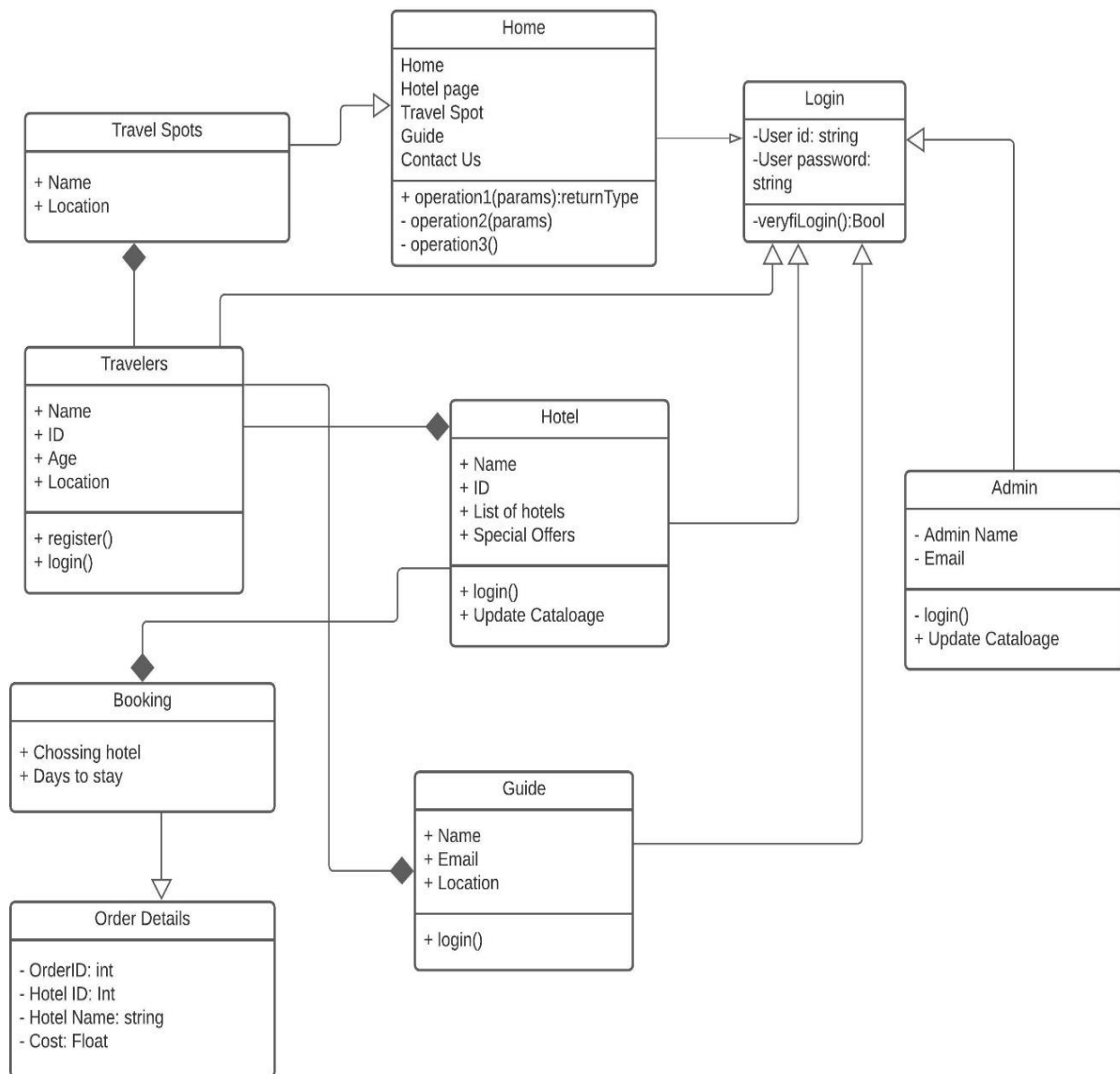


Figure: UML Class Diagram of the system

These diagram contains the basic relation between the stakeholders and the functionalities between each component. The use case diagram shows the stakeholders individual relationship and The UML class diagram we can get to know about attributes and methods.

1.4 Testing

Security Features

There are many security constraints one of the main security features is the one user cannot access to the whole system. People are given access to the system as per their role in the system. Some of the security features are-

- Admin are the one who can manage the whole system
- Every stakeholder is given access to the system according to their activities
- The user's information is secured in the database and there is a very minimal chance to get the data corrupted.

Coding Standard

The coding standard provides the guideline for coding a module during development. When these standards are strictly followed the code becomes more readable and understandable making the process of debugging easy

The coding standard of front-end and back-end contains following specifications-

- There are buttons, text box, combo boxes, list etc.
- In the system sign-up facilities are available
- In system login facilities are available
- Authority to manage everything is given to the admin
- Specification of defining the variable

Test Cases

Test cases are being designed to understand the workflow of the system. It enables us to know that the application is working correctly as per the requirement and its detail features. This is a step by step procedure to be followed so that we can get to know about the features that the users will be facing in real time. The real purpose of software testing is to know the lackings and if there is any missing in the requirements. By performing it sequentially it doesn't miss any functionality. A better test case covers all the functionalities and our test case does following ones-

- Reproduce real time scenario
- Shows the logic flow coverage
- Expose the errors
- Reproduce the end user scenario
- Increase the logic coverage

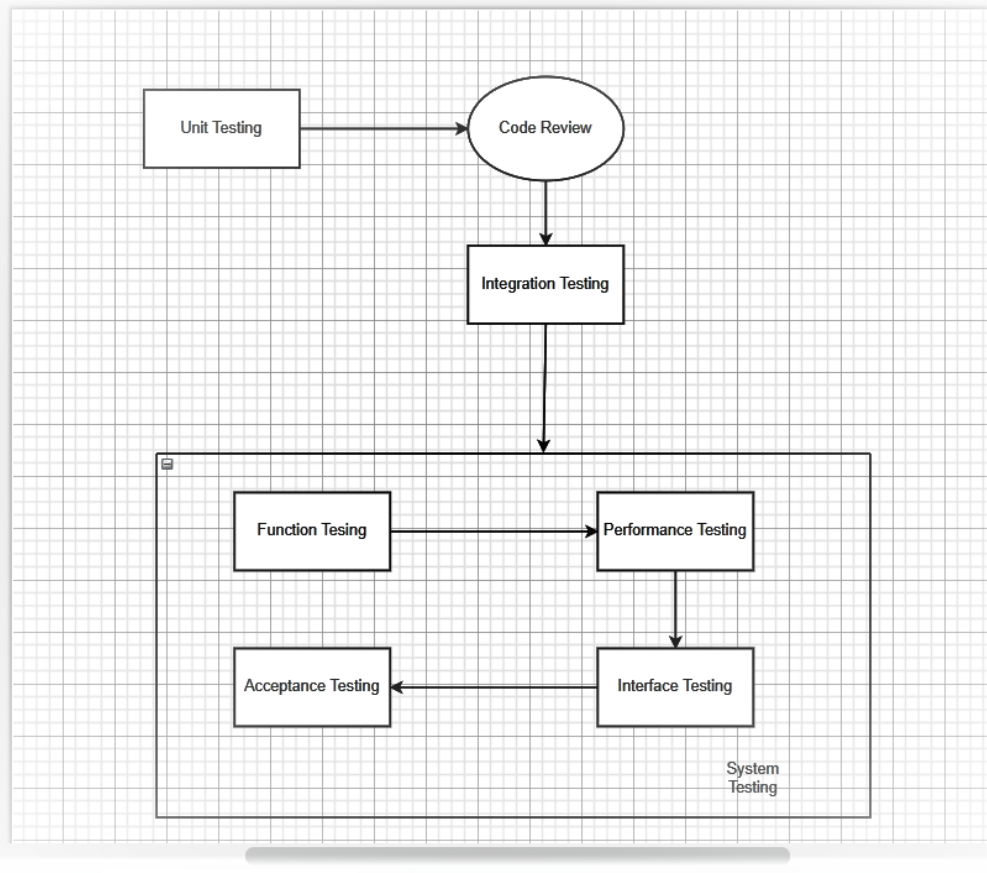


Figure: Test Case Scenario

Test Case For User Sign-in

Test Object	Test Condition	Expected Result	Actual Result
	Click Sign-in	Click Sign-in For the further form	As expected
	Enter Name	Enter name	As Expected
Signin	Enter Email	Enter Valid email otherwise show error	As Expected
	Enter password	Enter password	As expected
	Enter Confirm Password	Enter the correct password otherwise show error	A Expected

Test Case For User log-in

Test Object	Test Condition	Expected Result	Actual Result
	Click Log-in	Click Log-in	As expected
Log-in	Enter Correct email otherwise display error	Enter Correct email otherwise display error	As expected
	Enter Correct password otherwise display error	Enter Correct password otherwise display error	As expected
	Press Login Button and logged in to the main website	Press Login Button and logged in to the main website	As expected

Test Case For Guide log-in

Test Object	Test Condition	Expected Result	Actual Result
	Click Log-in	Click Log-in	As expected
Log-in	Enter Correct email otherwise display error	Enter Correct email otherwise display error	As expected
	Enter Correct password otherwise display error	Enter Correct password otherwise display error	As expected
	Press Login Button and logged in to the main website	Press Login Button and logged in to the main website	As expected

Test Cases For Guide Hiring

Test Object	Test Condition	Expected Result	Actual Result
	Enter the guide page	Enter the guide page	As expected
	See the available guide	See the available guide	As expected
Hire Guide	Connect with him and press hire button	Connect with him and press hire button	As expected
	Get the Form of hiring	Get the Form of hiring	As expected
	Download CV	Download CV	failed

Test Cases for Admin

Test Object	Test Condition	Expected Result	Actual Result
	Monitor the guide hiring	Monitor the guide hiring	Failed
Admin Monitoring	Monitor The hotel Hiring	Monitor The hotel Hiring	As Expected
	Connecting with user	Connecting with user	Failed