



Daffodil
International
University

Project (Industry) in International Affairs
HooH – An Innovative Tourism Guide Web App

Submitted By

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APPROVAL

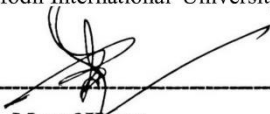
This Internship (Industrial) titled on "**Project (Industry) in International Affairs**", submitted by **Shaikot Kundu Akash (ID: 201-35-3009)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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DECLARATION

I specifically declare that **Dr. Imran Mahmud**, Associate Professor and head of the software Engineering Department at Daffodil International University has been supervising me on this project. I declare that this project is my original work for the degree of B.Sc. in Software Engineering which is under the industrial Project category of our final year project and not this project or its entirety have been submitted for credit toward another degree at thus or any other university.

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ACKNOWLEDGEMENT

Firstly, I give thanks to GOD for making me qualified and finish this project effectively. Additionally, I want to thank **Dr. Imran Mahmud**, Head of the department and Associate Professor, who is my supervisor. Also, exceedingly thankful of him for his professional, solid, and insightful advice and support.

I'd like to convey my appreciation to everyone who provided valuable advice that helped me with my project. It would not be possible to complete the project successfully without their enthusiastic involvement and input. I would like to use this chance to express gratitude to all of the teachers in the Department of Software Engineering for their assistance.

Company Details

Company Name: International Affairs, DIU

Project: HooH – An Innovative Tourism Guide Web App

Office: Daffodil International University, International Affairs

Location: Daffodil Smart City (DSC) I/A-Office, Birulia, Savar, Dhaka- 1216

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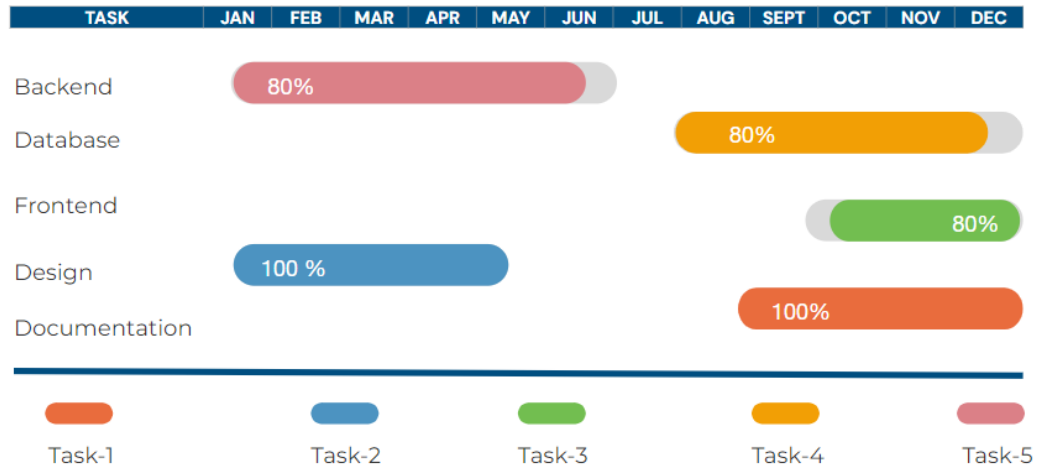
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My Role:

As a Full-stack Developer Intern at Daffodil International University's International Affairs, I contribute to developing a global connective web app for personalized tour management. My role involves research, design, and innovative technology integration, significantly enhancing the HOOH web app and its services.

Work Activities

PROJECT PROGRESS - GANTT CHART



Each of the project tasks' progress is shown in this Gantt chart. The database is 80% finished, the frontend is just getting started, and the backend is 80% finished. The documentation is 100% finished, and the design task is 100% finished. Every task is planned for a certain number of months.

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Chapter 1 Introduction

As a Full-stack Developer Intern at Daffodil International University's International Affairs, I actively engage in this diverse role.

Focus includes researching, designing, and developing a new global connective web app dedicated to managing tours in our country, allowing individuals to tailor their own experiences. Enhancing this tour management web app with innovative technologies. Contribute significantly to the HOOH team, playing a key role in developing the HOOH web app and related services.

1.1 Project Overview

Tourism web apps are available in Everywhere, but there is a lack of official website in local area or in our country to guide people who wants to tour by their Choice. Through HOOH, Travelers are able to look for volunteers and services to facilitate tours of historical sites in Bangladesh. Volunteers who are willing to serve as tour guides for Travelers can apply here with proof of their employment history.

1.1.1 Proposed System

“HOOH A Tourism Website” serves as an online platform where:

- Provide a smooth trip planning system for visits to Bangladesh's historical sites.
- Promote communication between tourists and local volunteers to provide tailored tour advice.
- Make sure that guests are given knowledgeable, real tours by volunteer local guides.

1.2 Project Purpose

- Boost visitors' experiences in Bangladesh by offering a convenient way to schedule trips to historical sites.
- Establish a connection between visitors and local volunteers who can provide tailored tour guidance.
- Give volunteers the chance to share their expertise and familiarity with the area, ensuring that visitors receive genuine and knowledgeable tours.

- Provide travelers with an intuitive booking system so they can plan tours, reserve guides, and obtain essential services with ease.

The goal of the project is presented here in the first chapter, with a high focus on the platform of tourism management (HOOH) services. By addressing a significant gap in the online tourism service sector, this platform aims to provide travelers with a seamless way to schedule trips to historical sites in Bangladesh. It connects visitors with local volunteers who offer tailored tour guidance, promoting local expertise and ensuring authentic experiences. Moreover, the platform simplifies the booking process, allowing travelers to plan tours, reserve guides, and access essential services with ease, thereby significantly enhancing the overall visitor experience.

Chapter 2 System Analysis

The chapter two, analysis about feasibility of the project. There will have functional requirements and system requirement as well.

2.1 Feasibility Analysis

Feasibility of Technology:

- The functionality of website is for booking and registering can be put into practice by using standard web technologies.
- The trending new and standard web development tools can support the creation of the platform.

Operational-Feasibility:

This system which is proposed that would be the valuable for Travelers. Wherever, this project fulfilled the requirement. By the practical aspect all the requirements are feasible.

- The website ensures the booking process for travelers as well as the registration for the guider and user individually.
- The website is accessible easily for both traveler and guider for their booking and registration purpose.

So, this project is feasible technically and operationally which utilize a prepared available tools and effective solution.

2.2 Functional Requirements

Table 1 : Sign-Up

FR 1	Sign-Up
Description	Travelers first need to register themselves by using their name, email, phone, and password.
Stakeholder	User, Super Admin, Volunteer

Table 2 : Login

FR 2	Log-In
Description	Travelers and volunteers must login to their registered email and password to access the system.
Stakeholder	User, Super Admin, Volunteer

Table 3: Update Profile

FR 3	Update Profile
Description	Travelers and volunteers can update their personal information including name, email, phone, address, and profile picture.
Stakeholder	User, Volunteer

Table 4: Add Travel Data

FR 4	Add Travel Data
Description	Travelers can add travel-related data such as destination, dates, and preferences.
Stakeholder	Supper Super Admin

Table 5: Update Travel Data

FR 5	Update Travel Data
Description	Super Admin can update previously entered travel data.
Stakeholder	Super Admin

Table 6: Add Volunteers

FR 6	Add Volunteers
Description	Super Admin can add and manage volunteer information.
Stakeholder	Super Admin

Table 7: Add Bangladesh Blog

FR 7	Add Bangladesh Blog
Description	Super Admin can add blog posts related to travel experiences in Bangladesh.
Stakeholder	Super Admin

Table 8: Manage Booking

FR 8	Manage Booking
Description	Volunteer can manage their travel bookings, including cancellations and modifications.
Stakeholder	Volunteer

Table 9: Choose Travel Destination

FR 9	Choose Travel Destination
Description	Travelers can select their travel destination from a list of available options.
Stakeholder	User

Table 10: Select Travel Category

FR 10	Select Travel Category
Description	Travelers can select the category of travel such as adventure, leisure, or cultural.
Stakeholder	User

Table 11: Choose Duration and Budgets

FR 11	Choose Duration and Budgets
Description	Travelers can set their travel duration and budget preferences.
Stakeholder	User

Table 12: View Volunteer Profile

FR 12	View Volunteer Profile
Description	Travelers can view the profiles of available volunteers.
Stakeholder	User

Table 13: Choose Matched Volunteer

FR 13	Choose Matched Volunteer
Description	Travelers can choose a volunteer that matches their requirements for the trip.
Stakeholder	User

Table 14: Book Volunteer

FR 14	Book Volunteer
Description	Travelers can book a volunteer for their travel needs.
Stakeholder	User

Table 15: Add Reviews

FR 15	Add Reviews
Description	Travelers can add reviews for their travel experiences and volunteers.
Stakeholder	User

Table 16: View Reviews

FR 16	View Reviews
Description	Travelers and volunteers can view reviews left by others.
Stakeholder	User, Volunteer

Table 17: Watch Bangladesh Blog

FR 17	Watch Bangladesh Blog
Description	Travelers can read and watch blog posts and videos related to travel experiences in Bangladesh.
Stakeholder	User

Table 18: View Contact Information

FR 18	View Contact Information
Description	Travelers can view contact information for support and inquiries.
Stakeholder	User

Table 19: Access AI Chatbot

FR 18	Access AI Chatbot
Description	Travelers can access an AI chatbot for assistance and inquiries.
Stakeholder	User

2.3 System Requirements

Technology: Web browser on PC or Mobile Phone.

2.4 Non-Functional Requirements

Table 20: Accessibility

NFR 1	Accessibility
Description	Wherever the Internet is available the system should be accessible.
Priority	High

Table 21: Availability

NFR 2	Availability
Description	The service for twenty-four/ seven hours for everyone can get the access and services.
Stakeholder	High

Table 22: Maintenance

NFR 3	Maintenance
Description	The system is ready to support, change and enhance.
Stakeholder	High

Table 23: Accuracy

NFR 4	Accuracy
Description	The system's every data is secured and easily accessible accurately within a second it will response for Travelers need.
Stakeholder	High

2.5 Performance

- All the services will not interrupt the system.
- By opening any web browser this can be run as the site is web based.
- The website may take some time for loading initially which is depended on the internet connection.
- Based on the hardware and software the performance may depends.

Finally, I can say, this project is technically and operationally feasible with detailed functional requirement and non-functional requirement which defines the system perfectly.

Chapter 3 System Design

To fully grasp the project, utilize case diagrams, activity diagrams, sequence diagrams, and ER diagrams surround the system design in chapter 3.

3.1 Development Model

3.1.1 Use Case Diagram

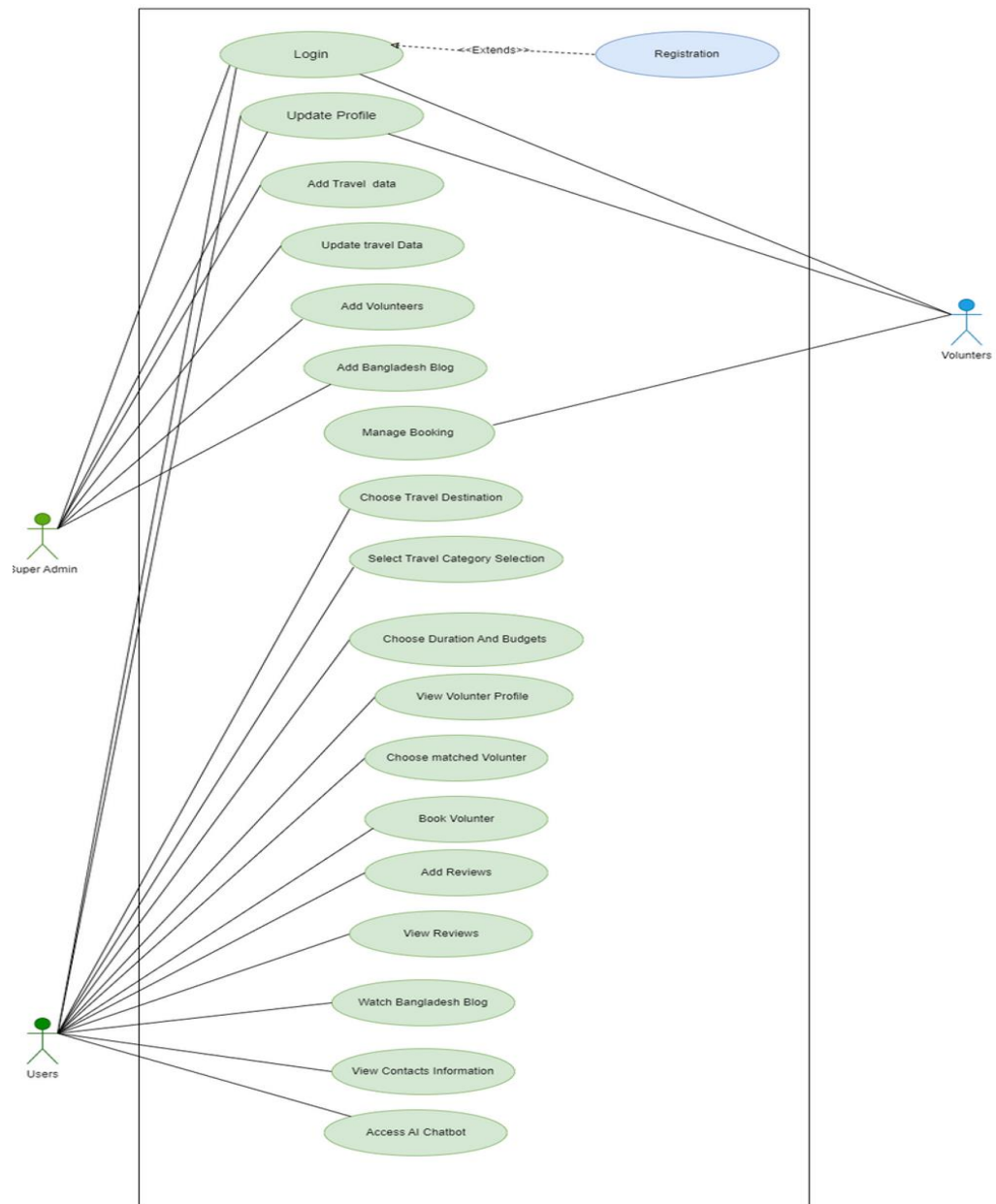


Figure 1: Use Case

3.2 Use Case Descriptions

Table 24: Sign-Up

Use Case	Sign-Up	
Goal	Enable successful sign-up for both Travelers and volunteers and super-Super Admin on the website - HOOH	
Preconditions	User Super Admin and Need to offer a valid phone Number & email, and volunteer must enter their NID number to sign-up to HOOH.	
Success End Condition	Travelers fulfill the requirements for signing up on the website- HOOH	
Failed End Condition	• Travelers email is incorrect • Invalid phone Number	
Primary Actors:	Super Admin, User, Volunteer	
Secondary Actors:	NOT APPLICABLE	
Factor	Select "Sign-Up"	
Summary/Primary Success Scenario	Step	Action
	1	Select Sign-Up
	2	Enter an accepted email
	3	HOOH sends an email notification on Travelers email account.
	4	Input the valid email for sign up
	5	Receive a confirmation Sign-up Done pop up
Differential Flows	6	The "Log-In" page is displayed to the traveler.
	Step	Branched Process
	1	The email is not received by the user.
	2	To finish the "Sign-Up" procedure once more, go back to the "Sign Up" page.
	3	Email is invalid
Quality Requirements	4	Enter the proper email address to continue and finish the "Sign-Up" procedure.
	Step	Requirement
	2	The user has to enter a working phone number and email address.

Table 25: Log-In

Use Case	Login	
Objective	Make it possible for volunteers, travelers, and super-admin to access the website.	
Preconditions	Travelers must have valid login credentials (username and password).	
Success End Condition	- Travelers enter incorrect credentials. - Travelers do not have an active account.	
Failed End Condition	The user's password, phone number, or both don't match the credentials that are saved.	
Primary Actors:	Travelers, Volunteers, Super Admin	
Secondary Actors:	NOT APPLICABLE	
Trigger	User clicks on “Login” button.	
Description/ Main Success Scenario	Step	Action
	1	Click on “Login”
	2	Input valid username and password
	3	Click on “Submit” button
	4	System verifies the credentials, If credentials are valid, user is redirected to their dashboard/homepage.
Alternative Flows	Step	Branching Action
	3a	Credentials are incorrect
	3a1	System displays an error message "Invalid username or password"
	3a2	User does not have an account
Qualitative Standards	Step	Requirement
	2	Travelers should input valid login credentials

Table 26: Update Profile

Use Case	Update Profile	
Goal	Allow Travelers to update their personal profile information.	
Preconditions	User must be logged in.	
Success End Condition	User's profile is successfully updated.	
Failed End Condition	• User inputs invalid data. • System error prevents profile update.	
Primary Actors:	Travelers, Volunteers, Super Admin	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to the “Update Profile” section.	
Summary/Primary Success Scenario	Step	Action
	1	The traveler selects "Update Profile."
	2	Update profile information
	3	User clicks “Save”
	4	System saves the updated information
	5	System confirms update success
Alternative Flows	Step	Branching Action
	3a	User inputs invalid data
	3a1	System displays an error message "Invalid data"
	4a	System fails to save information
	4a1	System displays an error message "Update failed"
Quality Requirements	Step	Requirement
	2	Input data with validation

Table 27: Add Travel Data

Use Case	Add Travel Data	
Goal	Allow Travelers to add their travel details	
Preconditions	User must be logged in.	
Success End Condition	Travel data is successfully added.	
Failed End Condition	• User inputs invalid travel data. • System error prevents adding travel data	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Add Travel Data” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Add Travel Data”
	2	User inputs travel data
	3	User clicks “Save”
	4	System saves the travel data
	5	System confirms travel data addition success
Alternative Flows	Step	Branching Action
	3a	User inputs invalid travel data
	3a1	System displays an error message "Invalid travel data"
	4a	System fails to save travel data
	4a1	System displays an error message "Addition failed"
Quality Requirements	Step	Requirement
	2	Input data with validation

Table 28: Update Travel Data

Use Case	Update Travel Data	
Goal	Allow Travelers to update their travel details.	
Preconditions	User must be logged in	
Success End Condition	Travel data is successfully updated.	
Failed End Condition	• User inputs invalid travel data. • System error prevents updating travel data.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Update Travel Data” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Update Travel Data”
	2	User updates travel data
	3	User clicks “Save”
	4	System saves the updated travel data
	5	System confirms travel data update success
Alternative Flows	Step	Branching Action
	3a	User inputs invalid travel data
	3a1	System displays an error message "Invalid travel data"
	4a	System fails to save updated travel data
	4a1	System displays an error message "Update failed"
Quality Requirements	Step	Requirement
	2	Input data with validation

Table 29: Add Volunteers

Use Case	Add Volunteers	
Goal	Allow super-admin to add volunteer information.	
Preconditions	Super-admin needs to log in.	
End Condition of Success	Volunteer information successfully added.	
Inadequate Final State	• Super-admin inputs invalid volunteer data. • System error prevents adding volunteer data.	
Primary Actors:	Super Admin	
Secondary Actors:	NOT APPLICABLE	
Trigger	Super-admin navigates to “Add Volunteers” section.	
Description/ Main Success Scenario	Step	Action
	1	Super-admin navigates to “Add Volunteers”
	2	Super-admin inputs volunteer information
	3	Super-admin clicks “Save”
	4	System saves the volunteer information
	5	System confirms volunteer addition success
Alternative Flows	Steps	Branched Process
	1	Super-admin inputs invalid volunteer information
	2	System displays an error message "Invalid volunteer information"
	3	System fails to save volunteer information
	4	System displays an error message "Addition failed"
Quality Requirements	Step	Requirement
	1	Input data with validation

Table 30: Add Bangladesh Blog

Use Case	Add Bangladesh Blog	
Goal	Allow Travelers and super-admin to add blog posts about Bangladesh.	
Preconditions	User or super-admin must be logged in.	
Success End Condition	Blog post is successfully added.	
Failed End Condition	• User or super-admin inputs invalid blog data. • System error prevents adding blog post.	
Primary Actors:	Travelers, Super Admin	
Secondary Actors:	NOT APPLICABLE	
Trigger	User or super-admin navigates to “Add Bangladesh Blog” section.	
Description/ Main Success Scenario	Step	Action
	1	User or super-admin navigates to “Add Bangladesh Blog”
	2	User or super-admin inputs blog post data
	3	User or super-admin clicks “Save”
	4	System saves the blog post
	5	System confirms blog post addition success
Alternative Flows	Step	Branching Action
	3a	User or super-admin inputs invalid blog data
	3a1	System displays an error message "Invalid blog data"
	4a	System fails to save blog post
	4a1	System displays an error message "Addition failed"
Quality Requirements	Step	Requirement
	2	Input data with validation

Table 31: Manage Booking

Use Case	Manage Booking	
Goal	Enable Travelers to manage their bookings, including viewing, editing, and cancelling bookings.	
Preconditions	Travelers must be logged in to the website.	
Success End Condition	Travelers successfully manage their bookings.	
Failed End Condition	- Travelers are unable to view or modify bookings due to system errors. - Travelers input incorrect information while editing booking details.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Manage Booking” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Manage Booking”
	2	System displays a list of user’s bookings
	3	User selects a booking to view details
	4	User can choose to edit or cancel the booking
	5	If editing, user updates the booking details
	6	System saves the updated booking details
	7	If cancelling, user confirms the cancellation
	8	System cancels the booking
Alternative Flows	Step	Branching Action
	5a	User inputs invalid booking details
	5a1	System displays an error message "Invalid booking details"
	8a	System fails to cancel the booking
	8a1	System displays an error message "Booking cancellation failed"
Quality Requirements	Step	Requirement
	5	Input data with validation

Table 32: Choose Travel Destination

Use Case	Choose Travel Destination	
Goal	Allow Travelers to choose a travel destination.	
Preconditions	User must be logged in.	
Success End Condition	Travel destination is successfully chosen.	
Failed End Condition	• User inputs invalid destination data. • System error prevents choosing destination.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Choose Travel Destination” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Choose Travel Destination”
	2	User selects a destination from the list
	3	User confirms the selection
	4	System saves the chosen destination
	5	System confirms destination selection success
Alternative Flows	Step	Branching Action
	2a	User inputs invalid destination data
	2a1	System displays an error message "Invalid destination data"
	4a	System fails to save chosen destination
	4a1	System displays an error message "Selection failed"
Quality Requirements	Step	Requirement
	1	Input data with validation

Table 33: Select Travel Category

Use Case	Select Travel Category	
Goal	Allow Travelers to select a travel category.	
Preconditions	User must be logged in.	
Success End Condition	Travel category is successfully selected.	
Failed End Condition	• User inputs invalid category data. • System error prevents selecting category.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Select Travel Category” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Select Travel Category”
	2	User selects a category from the list
	3	User confirms the selection
	4	System saves the chosen category
	5	System confirms category selection success
Alternative Flows	Step	Branching Action
	2a	User inputs invalid category data
	2a1	System displays an error message "Invalid category data"
	4a	System fails to save chosen category
	4a1	System displays an error message "Selection failed"
Quality Requirements	Step	Requirement
	2	Input data with validation

Table 34: Choose Duration and Budgets

Use Case	Choose Duration and Budgets	
Goal	Allow Travelers to choose travel duration and budget.	
Priorities	The user has to be signed in.	
End of Success Condition	Travel duration and budget are successfully chosen.	
Failed End Condition	• User inputs invalid data. • System error prevents choosing duration and budget.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Choose Duration and Budgets” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Choose Duration and Budgets”
	2	User inputs travel duration and budget
	3	User confirms the inputs
	4	System saves the duration and budget
	5	System confirms duration and budget selection success
Alternative Flows	Step	Branching Action
	2a	User inputs invalid data
	2a1	System displays an error message "Invalid data"
	4a	System fails to save duration and budget
	4a1	System displays an error message "Selection failed"
Quality Requirements	Step	Requirement
	2	Input data with validation

Table 35: View Volunteer Profile

Use Case	View Volunteer Profile	
Goal	Allow Travelers to view volunteer profiles.	
Preconditions	User must be logged in.	
Success End Condition	Volunteer profiles are successfully displayed.	
Failed End Condition	System error prevents displaying profiles.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “View Volunteer Profile” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “View Volunteer Profile”
	2	System displays a list of volunteers
	3	User selects a volunteer profile to view
	4	System displays the selected volunteer profile
Alternative Flows	Step	Branching Action
	2a	System fails to display volunteer list
	2a1	System displays an error message "Unable to display volunteer list"
Quality Requirements	Step	Requirement
	1	System should reliably display volunteer profiles

Table 36: Choose Matched Volunteer

Use Case	Choose Matched Volunteer	
Goal	Allow Travelers to choose a volunteer that matches their requirements.	
Preconditions	A user's login is required.	
End of Success Condition	A matched volunteer successfully chosen	
Erroneous Final State	• No volunteers match user's requirements. • System error prevents choosing a matched volunteer.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Choose Matched Volunteer” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Choose Matched Volunteer”
	2	System displays a list of volunteers based on user’s requirements
	3	User selects a matched volunteer from the list
	4	System saves the matched volunteer selection
	5	System confirms the matched volunteer selection success
Alternative Flows	Step	Branching Action
	2a	No volunteers match user’s requirements
	2a1	System displays a message "No volunteers match your requirements"
	4a	System fails to save matched volunteer selection
	4a1	System displays an error message "Selection failed"
Quality Requirements	Step	Requirement
	2	System should accurately filter volunteers based on user’s requirements

Table 37: Book Volunteer

Use Case	Book Volunteer	
Goal	Allow Travelers to book a volunteer	
Preconditions	User must be logged in and have selected a matched volunteer.	
Success End Condition	Volunteer booking is successfully completed.	
Failed End Condition	• System error prevents booking. • Selected volunteer is unavailable.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Book Volunteer” section	
Summary/Primary Success Scenario	Step	Action
	1	User navigates for “Book Volunteer”
	2	System displays selected volunteer details
	3	User confirms the booking
	4	System saves the booking details
	5	System confirms booking success
Differential Flows	Step	Branched Process
	1	Selected volunteer unavailable
	2	System displays a message "Volunteer is unavailable"
	3	System fails to save booking details
	4	System displays an error message "Booking failed"
Quality Requirements	Step	Requirement
	2	System should accurately display the availability of the volunteer

Table 38: Add Reviews

Use Case	Add Reviews	
Goal	Allow Travelers to add reviews for volunteers.	
Preconditions	User must be logged in and have completed a booking with the volunteer.	
Success End Condition	Review is successfully added.	
Failed End Condition	• User inputs invalid review data. • System error prevents adding the review.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Add Reviews” section.	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “Add Reviews”
	2	User inputs review details
	3	User submits the review
	4	System saves the review details
	5	System confirms review addition success
Alternative Flows	Step	Branching Action
	3a	User inputs invalid review data
	3a1	System displays an error message "Invalid review data"
	4a	System fails to save review details
	4a1	System displays an error message "Addition failed"
Quality Requirements	Step	Requirement
	2	Input data with validation

Table 39: View Reviews

Use Case	View Reviews	
Goal	Allow Travelers to view reviews of volunteers.	
Preconditions	User must be logged in.	
Success End Condition	Reviews are successfully displayed.	
Failed End Condition	System error prevents displaying reviews.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “View Reviews” section	
Description/ Main Success Scenario	Step	Action
	1	User navigates to “View Reviews”
	2	System displays a list of reviews for volunteers
	3	User selects a review to view details
	4	System displays the selected review details
Alternative Flows	Step	Branching Action
	2a	System fails to display reviews
	2a1	System displays an error message "Unable to display reviews"
Quality Requirements	Step	Requirement
	1	System should reliably display reviews

Table 40: Watch Bangladesh Blog

Use Case	Watch Bangladesh Blog	
Goal	Allow Travelers to read and watch blog posts and videos related to travel experiences in Bangladesh.	
Priorities	A user's login is required.	
Success End Condition	Blog posts and videos are successfully displayed.	
Failed End Condition	- System error prevents displaying blog posts or videos.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to "Watch Bangladesh Blog" section	
Description/ Main Success Scenario	Step	Action
	1	User navigates to "Watch Bangladesh Blog"
	2	System displays a list of blog posts and videos related to travel experiences in Bangladesh
Differential Flows	Step	Branched Process
	1	System fails for display blog posts / videos.
	2	System displays an error message "Unable to display blog posts or videos"
Quality Requirements	Step	Requirement
	1	System should reliably display blog posts and videos.

Table 41: View Contact Information

Use Case	View Contact Information	
Goal	Allow Travelers to view contact information for support and inquiries.	
Preconditions	User must be logged in.	
Success End Condition	Contact information is successfully displayed.	
Failed End Condition	- System error prevents displaying contact information.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to "View Contact Information" section	
Description/ Main Success Scenario	Step	Action
	1	User navigates to "View Contact Information"
	2	System displays contact information for support and inquiries
Alternative Flows	Step	Branching Action
	2a	System fails to display contact information
	2a1	System displays an error message "Unable to display contact information"
Quality Requirements	Step	Requirement
	1	System should reliably display contact information

Table 42: Access AI Chatbot

Use Case	Access AI Chatbot	
Goal	Allow Travelers to access and interact with the AI chatbot for assistance.	
Preconditions	User need to login.	
Success End Condition	User successfully interacts with out from the AI chatbot and receives assistance.	
Failed End Condition	• System error prevents accessing the chatbot. • Chatbot fails to provide relevant assistance.	
Primary Actors:	Travelers	
Secondary Actors:	NOT APPLICABLE	
Trigger	User navigates to “Access AI Chatbot” section.	
Description / Main Success Scenario	Step	Action
	1	User navigates to “Access AI Chatbot”
	2	User types a query or request
	3	Chatbot processes the input and provides a response
	4	User receives relevant assistance from the chatbot
Alternative Flows	Step	Branching Action
	3a	Chatbot fails to understand the query
	3a1	Chatbot requests clarification or provides a general response
	4a	Chatbot fails to provide relevant assistance
	4a1	User is directed to contact human support for further assistance
Quality Requirements	Step	Requirement
	3	Chatbot should accurately process user queries and provide relevant responses

3.3 Activity Diagram

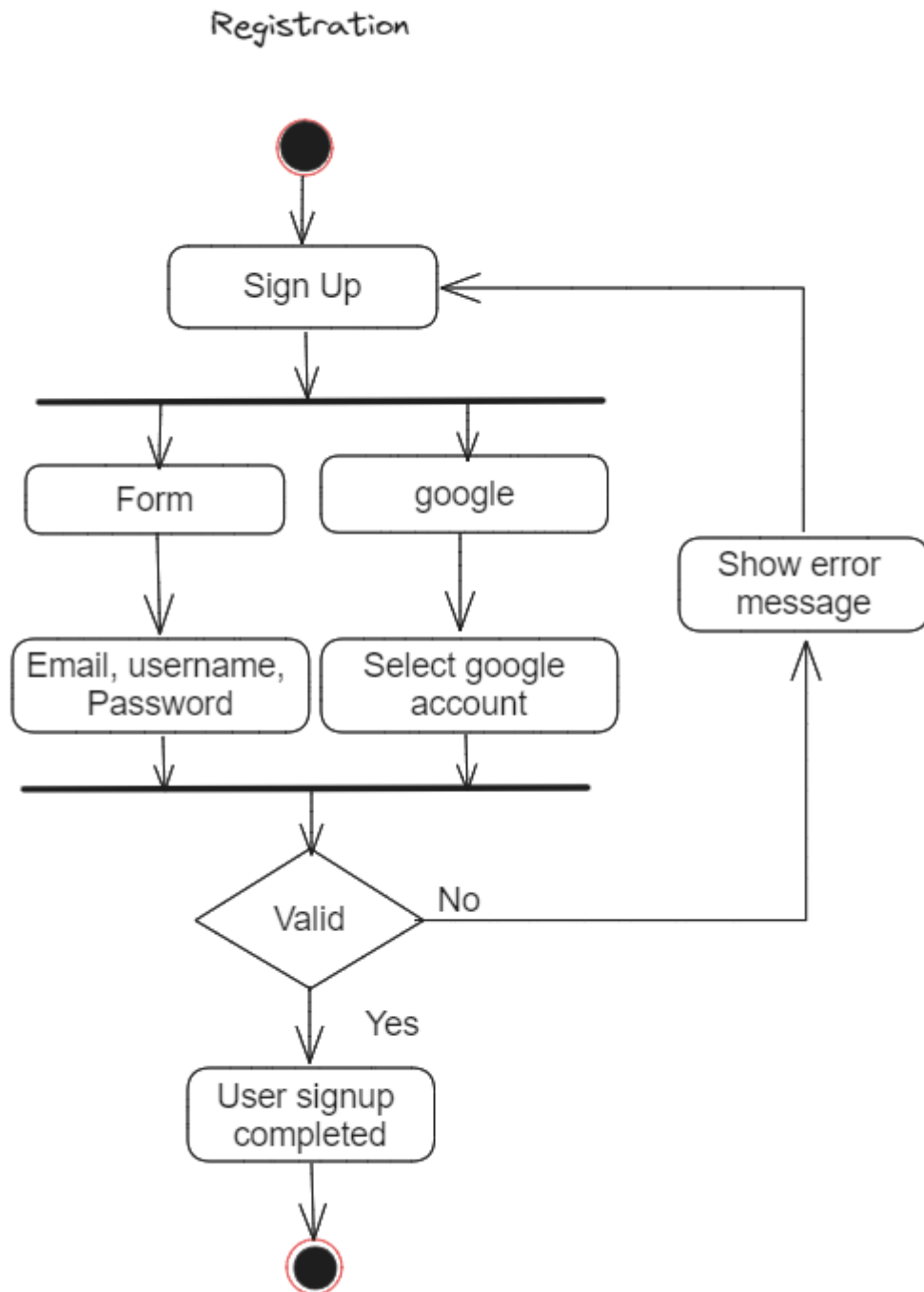


Figure 2: Activity Diagram for Sign Up

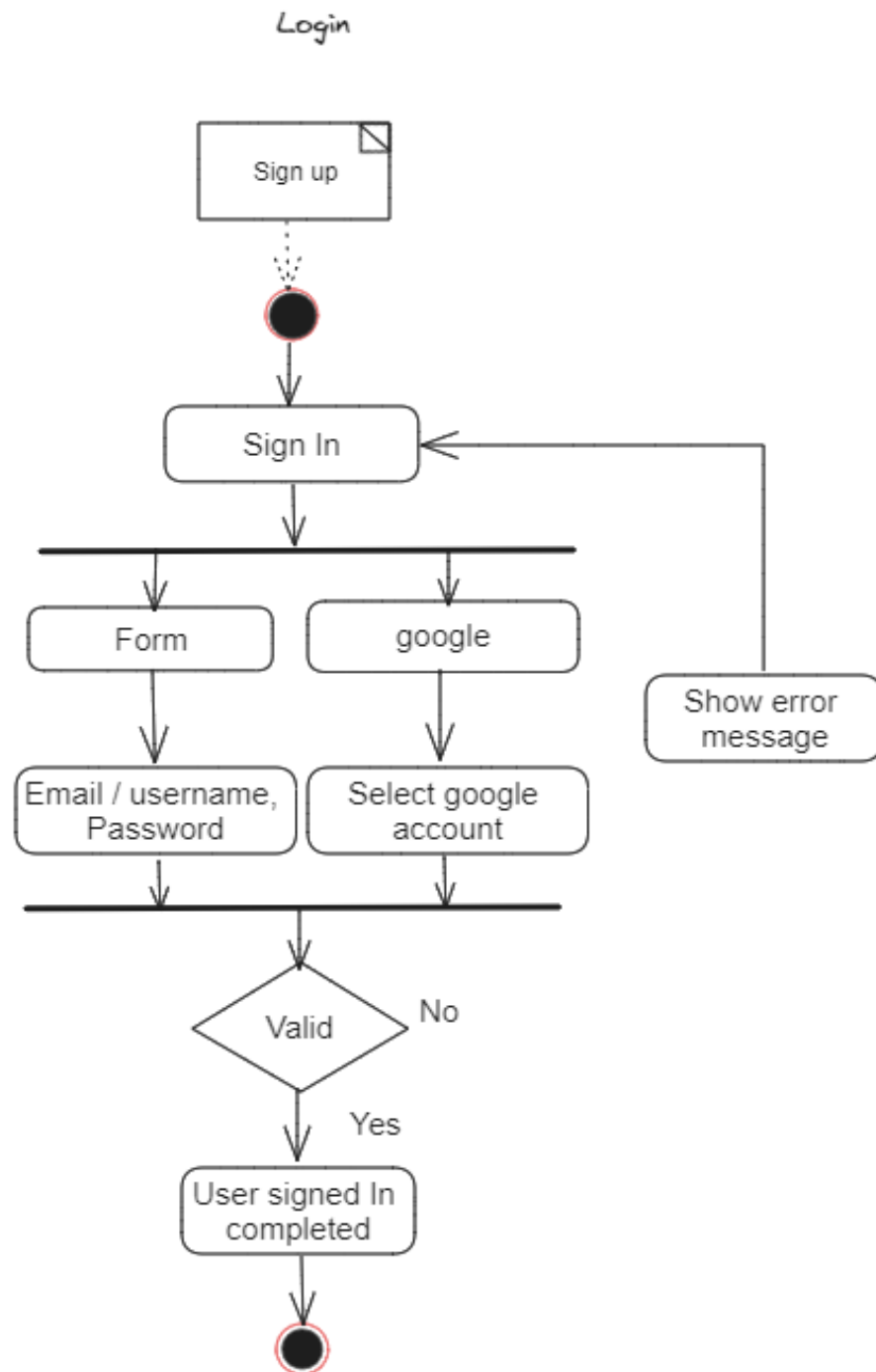


Figure 3: Activity Diagram for Log-In

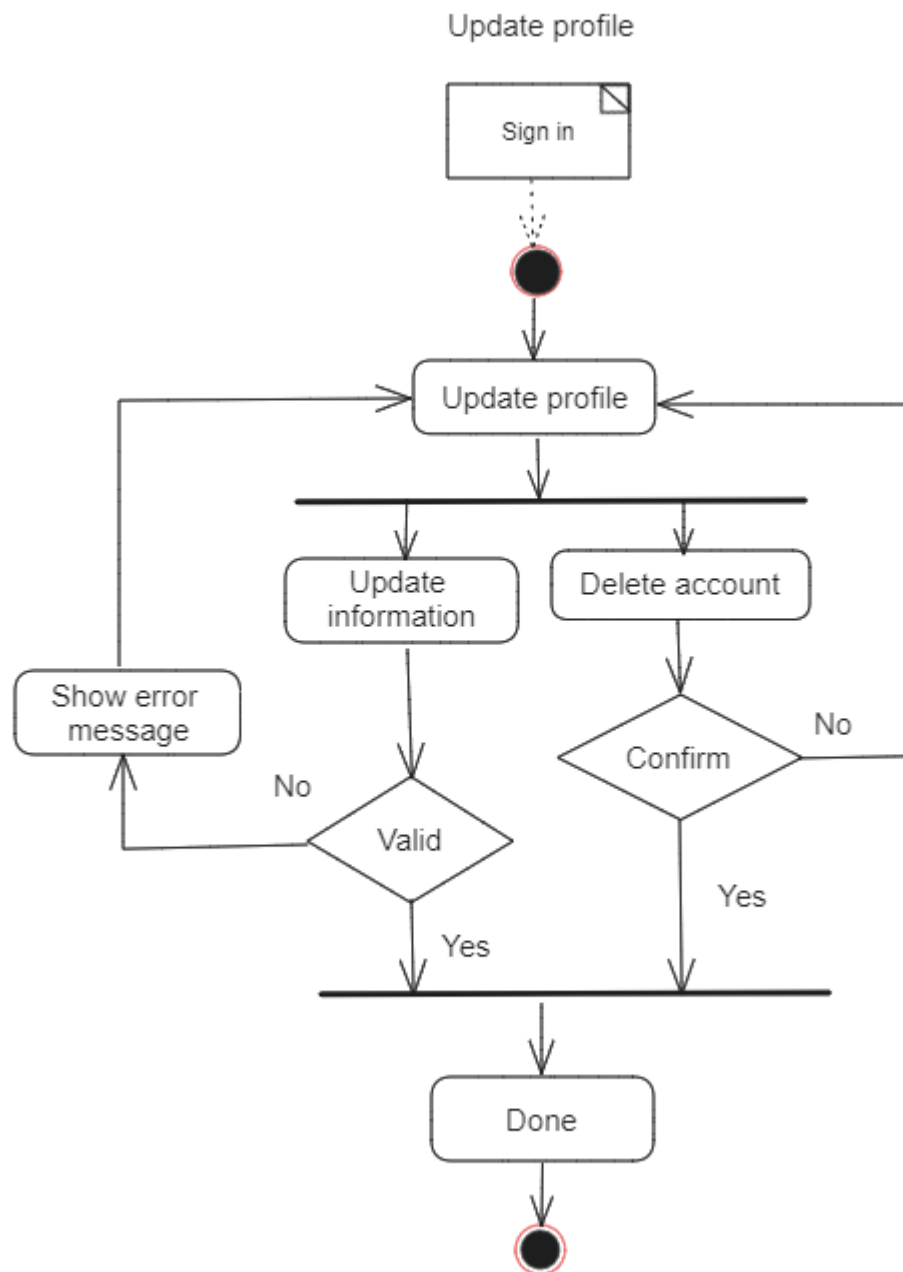


Figure 4: Activity Diagram for Update Profile

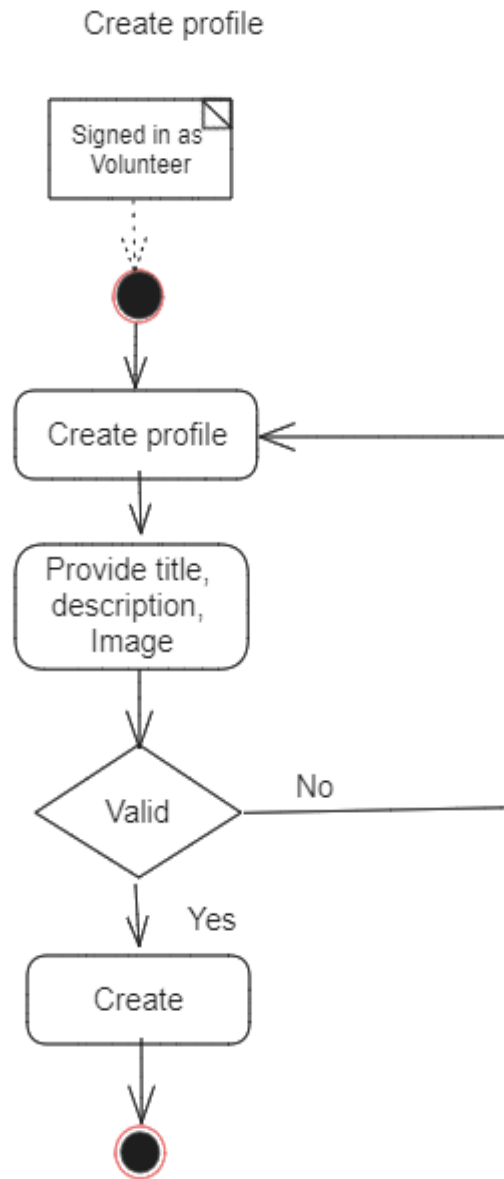


Figure 5: Activity Diagram for Create Profile

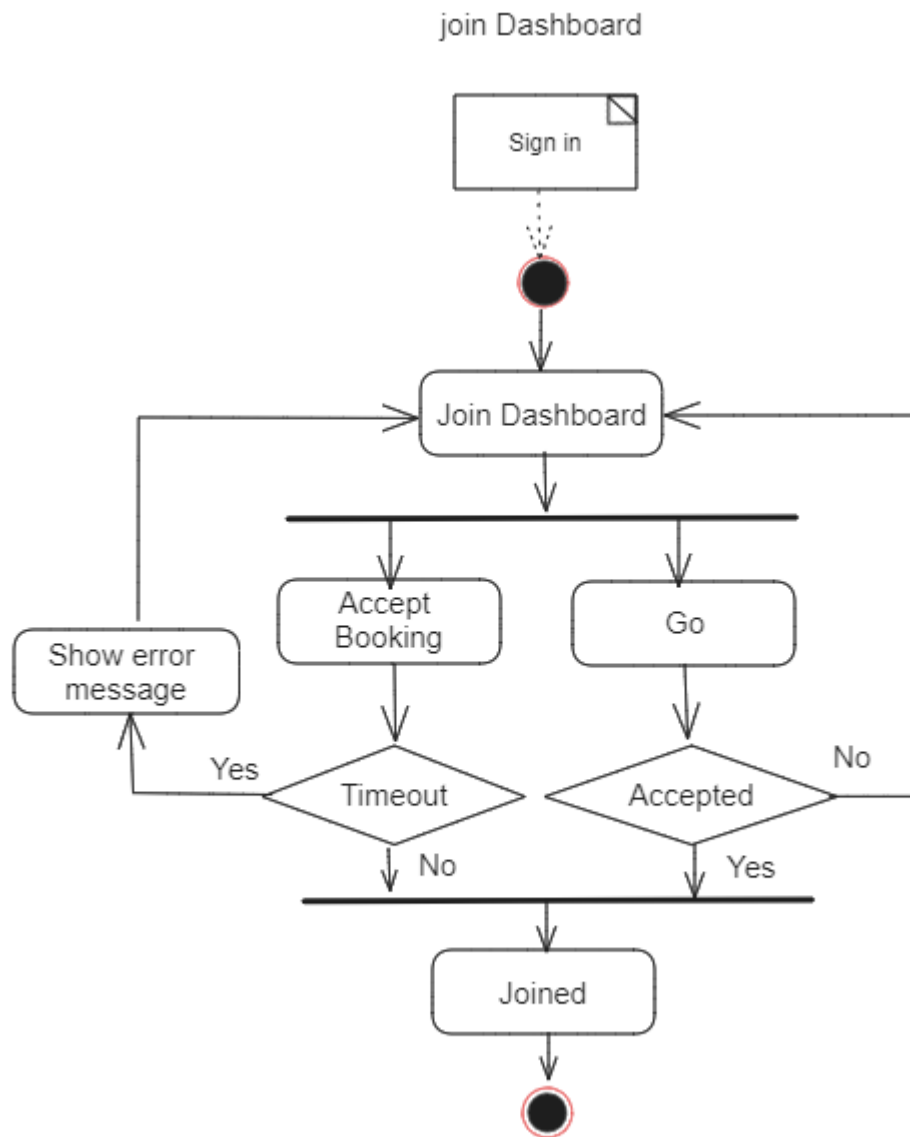


Figure 6: Activity Diagram for Join Dashboard

Assign volunteer to the project

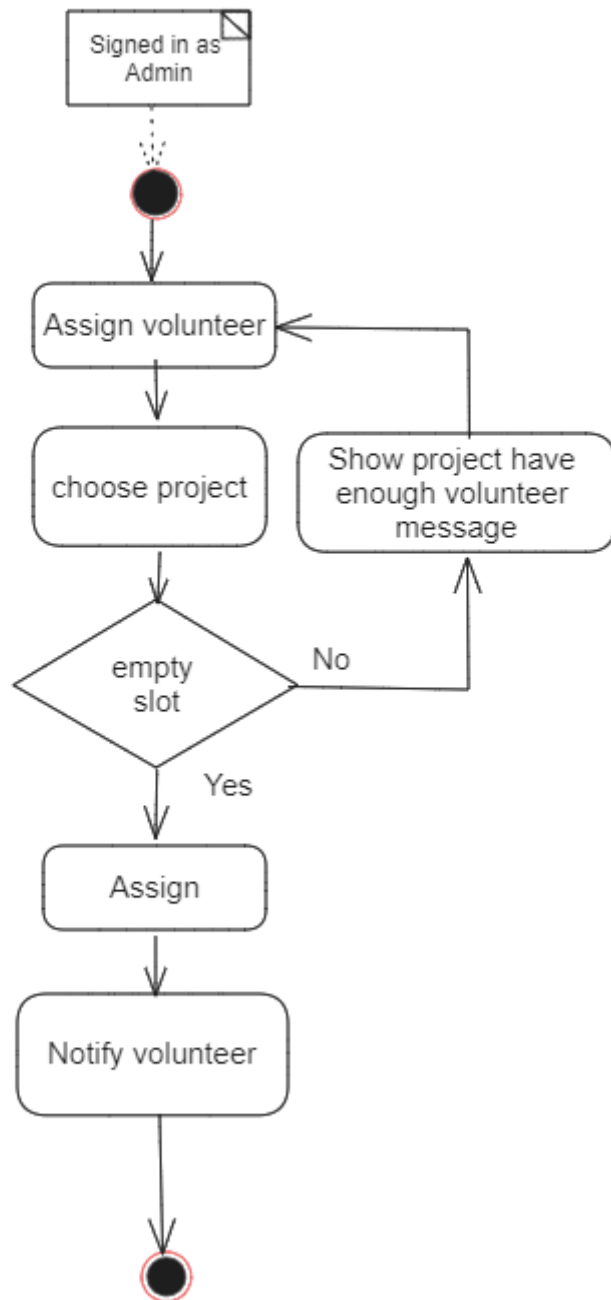


Figure 7: Assign Volunteer to the Project

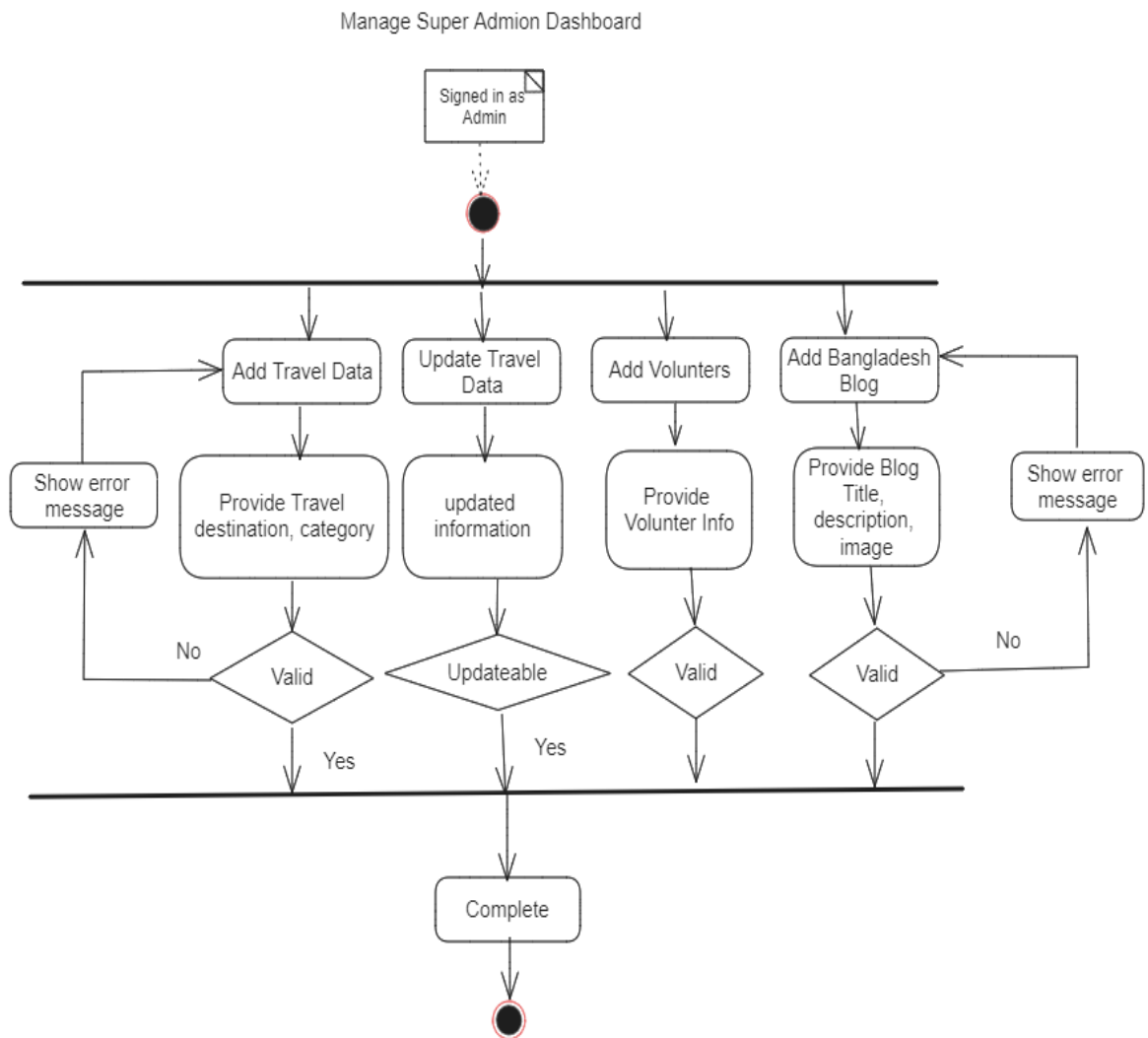


Figure 8: Activity Diagram for Manage Super Admin Dashboard

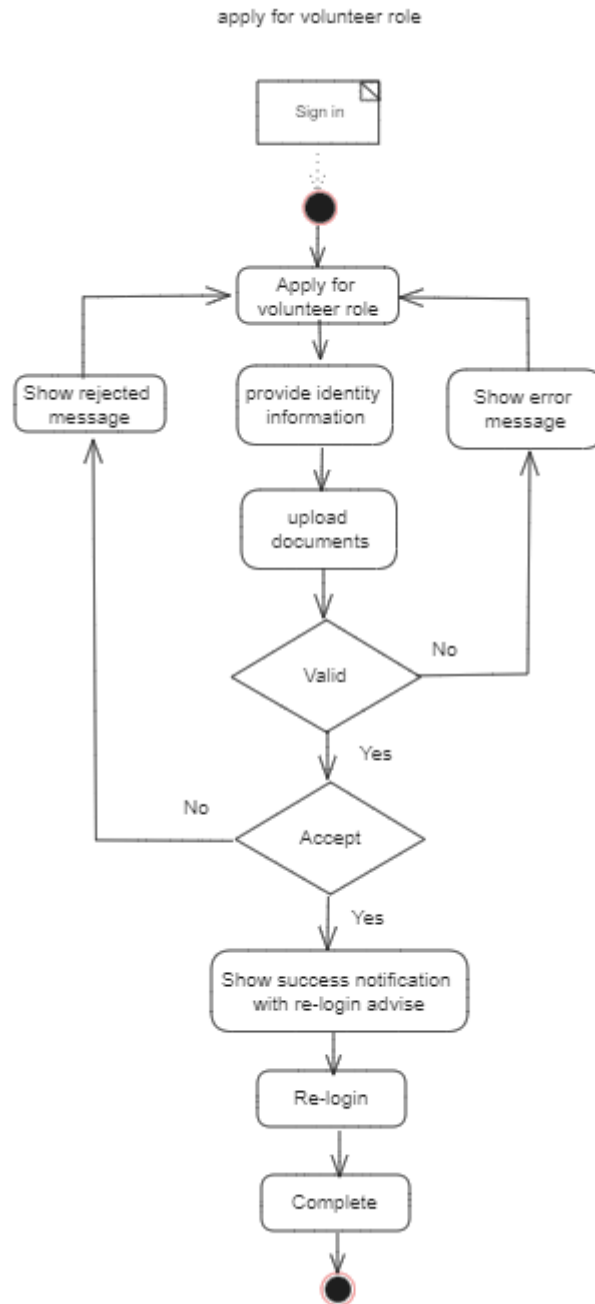


Figure 9: Activity Diagram for Volunteer Role

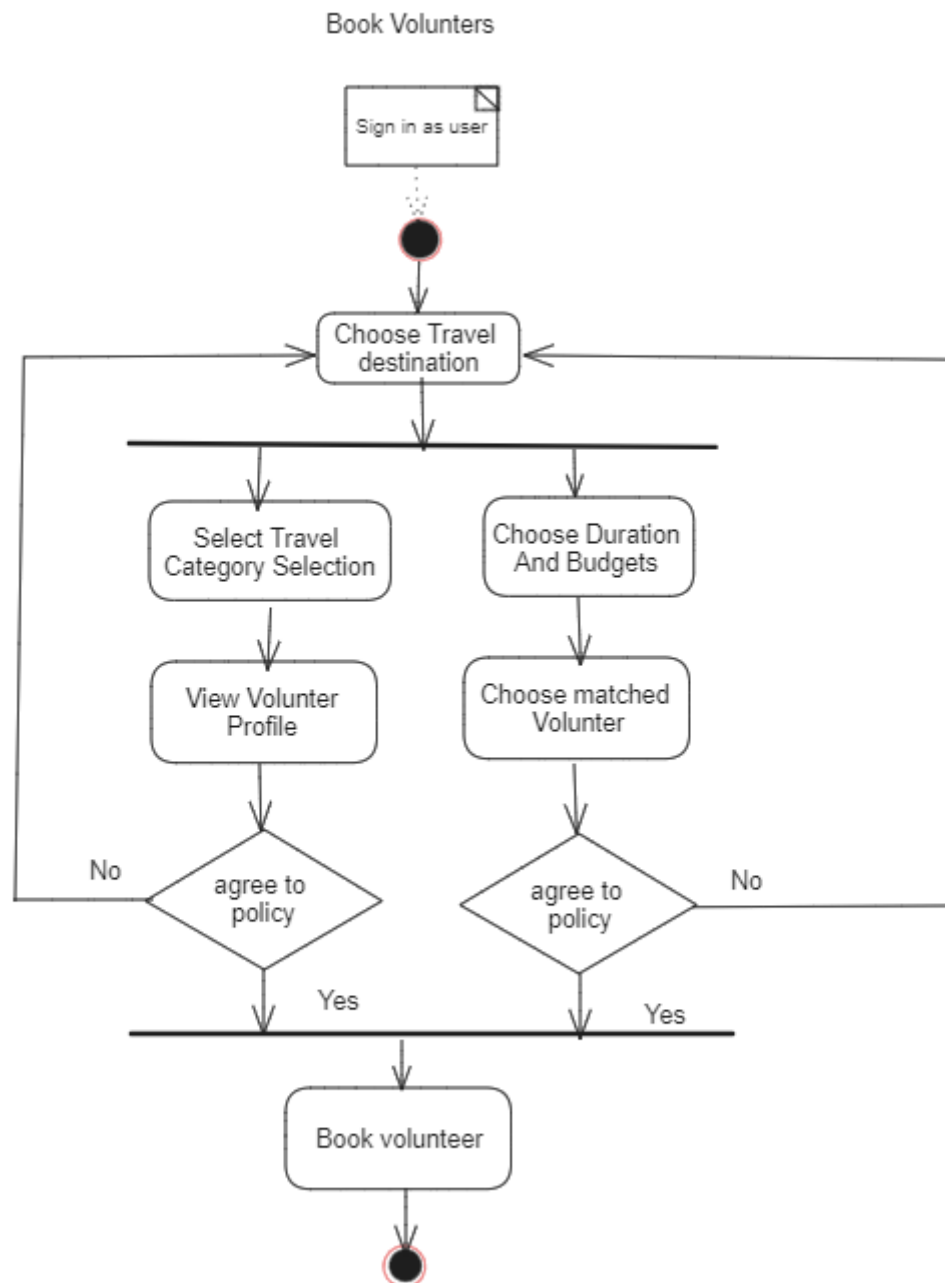


Figure 10: Activity Diagram for Book Volunteer



Figure 11: Activity Diagram for View Reviews

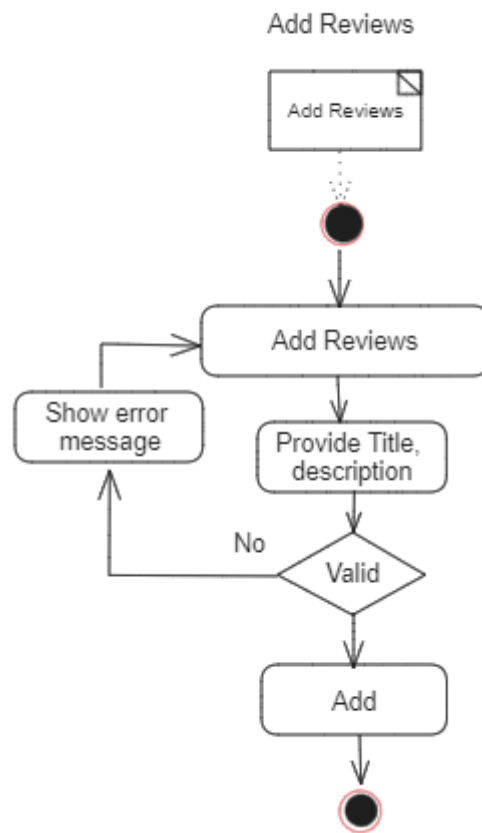


Figure 12: Activity Diagram for Add Reviews

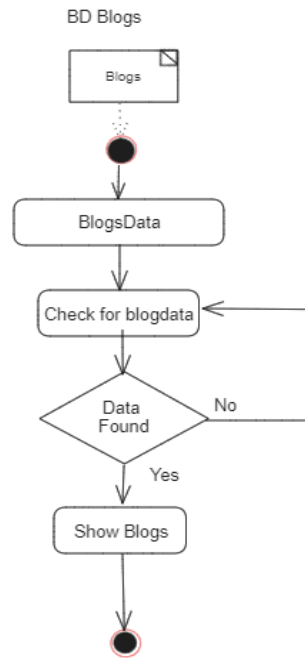


Figure 13: Activity Diagram for BD Blogs

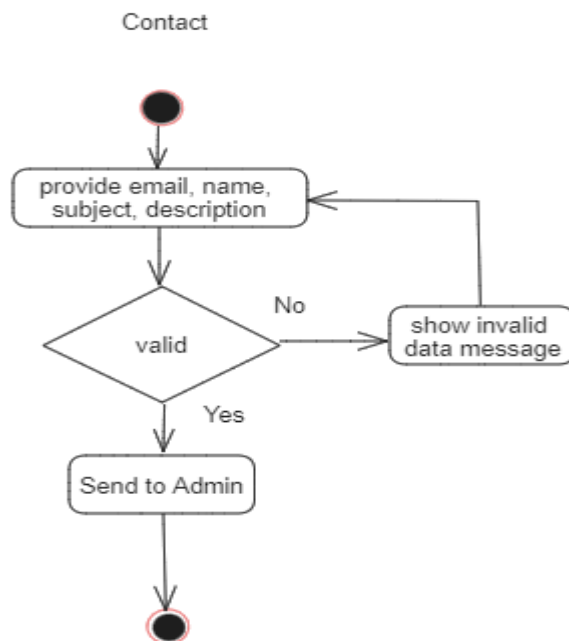


Figure 14: Activity Diagram for Contacts

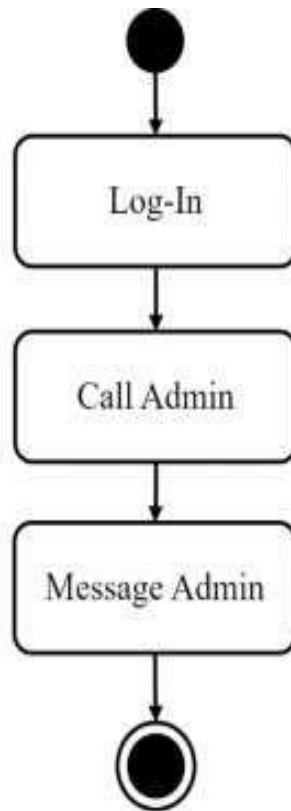


Figure 15: Activity Diagram for Contact Super Admin

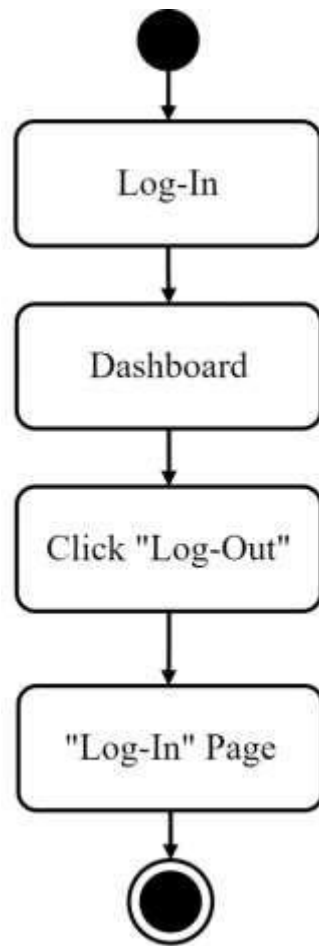


Figure 16: Activity Diagram for Log-Out

3.4 Sequence Diagram

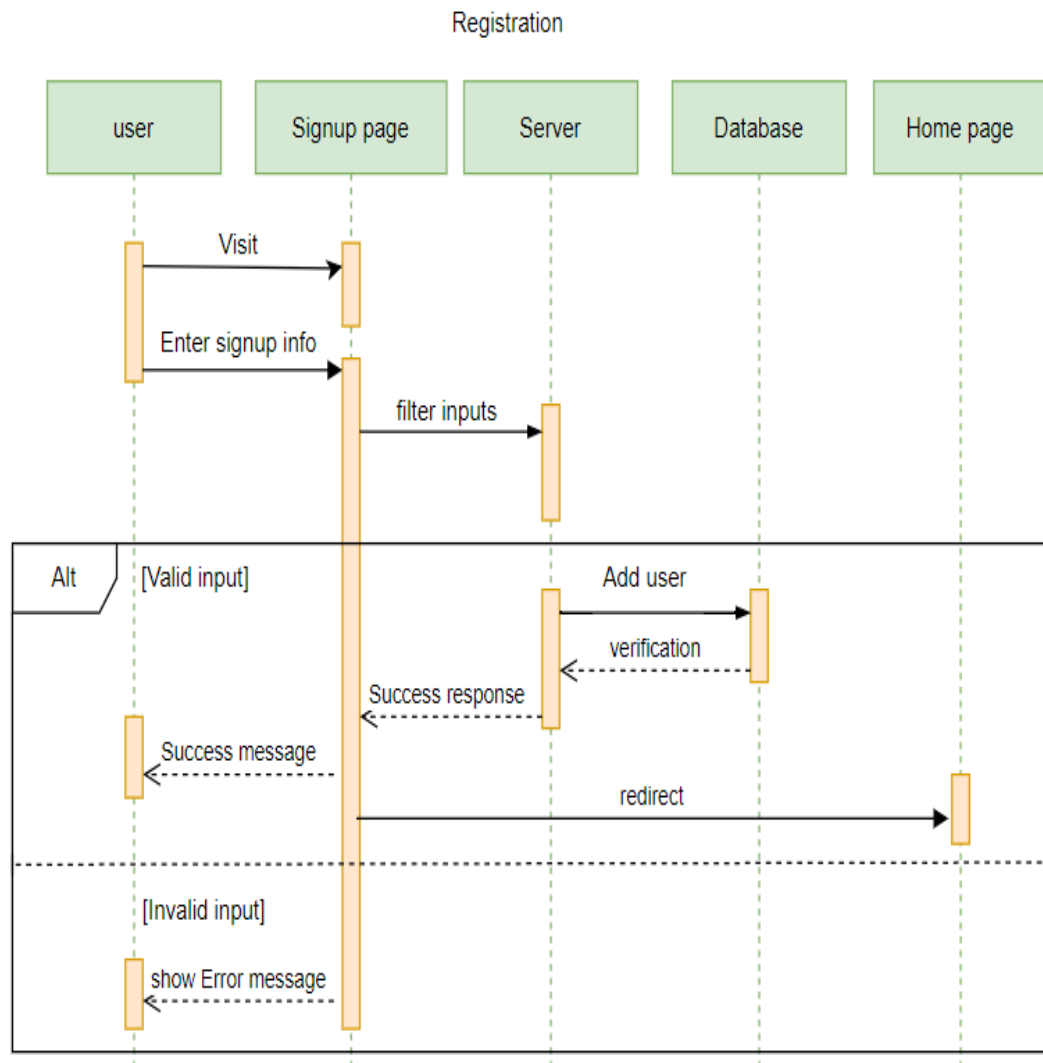


Figure 17: Sequence Diagram for Sign-Up

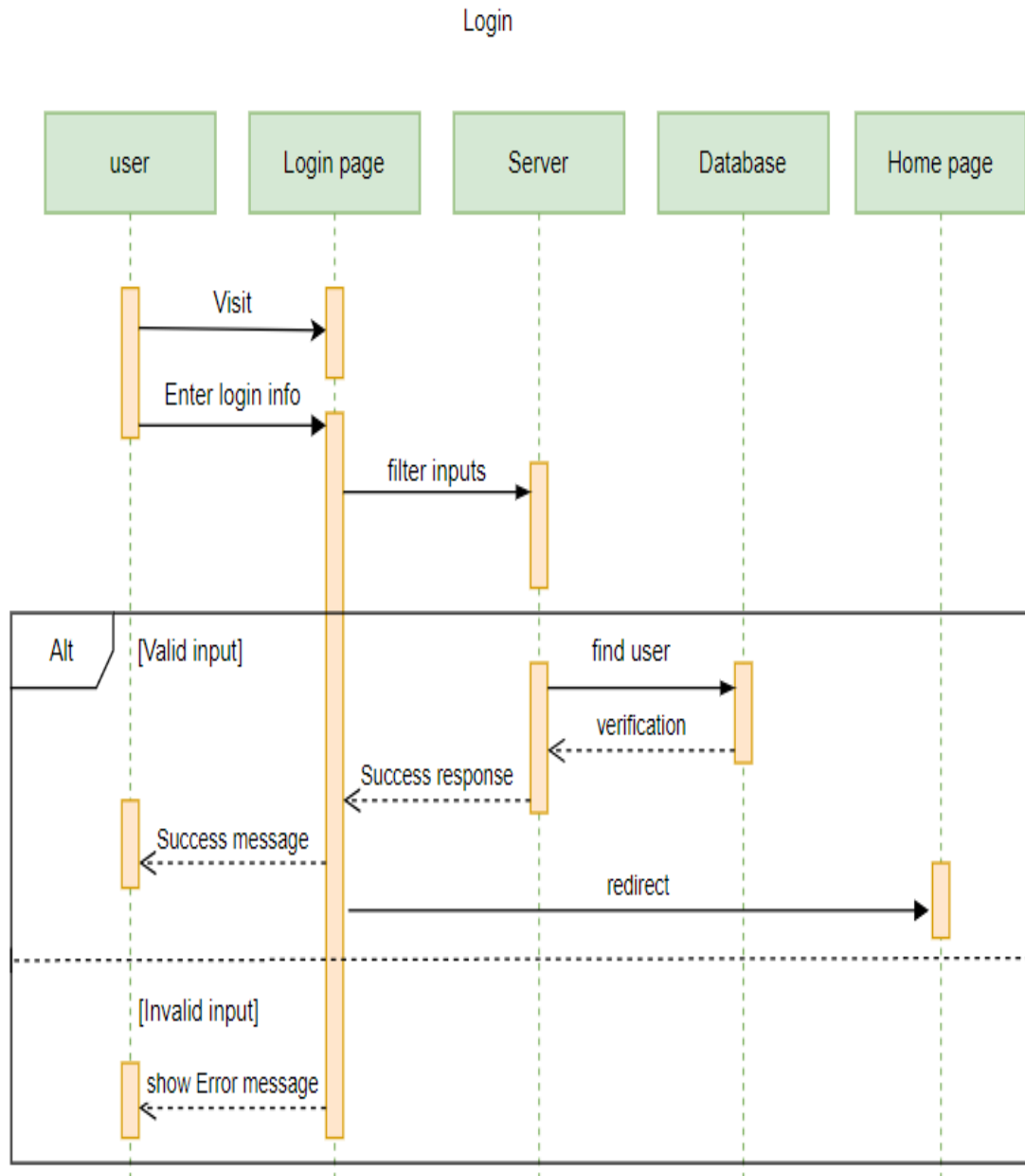


Figure 18: Sequence Diagram for Log-In

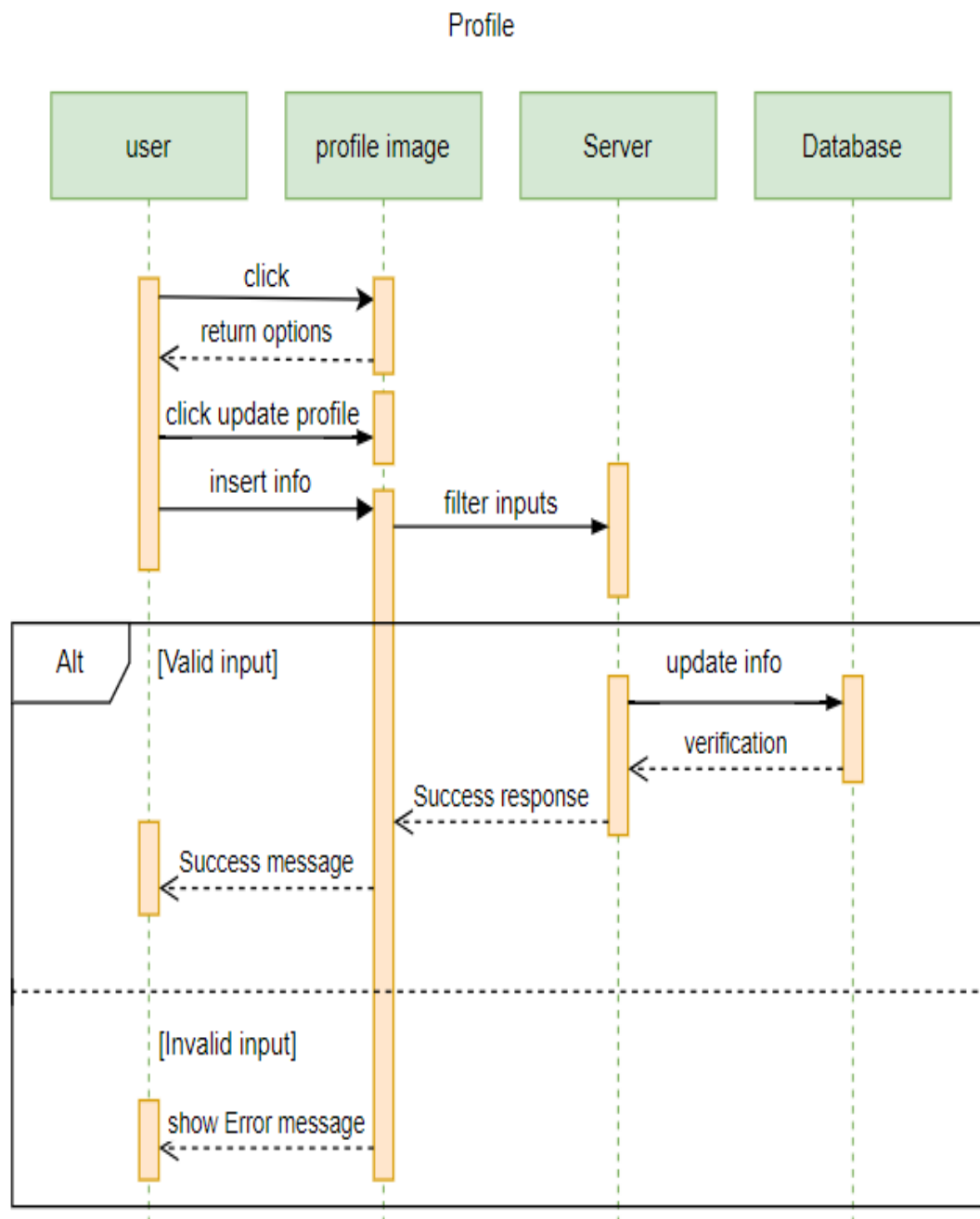


Figure 19: Sequence Diagram for Update Profile

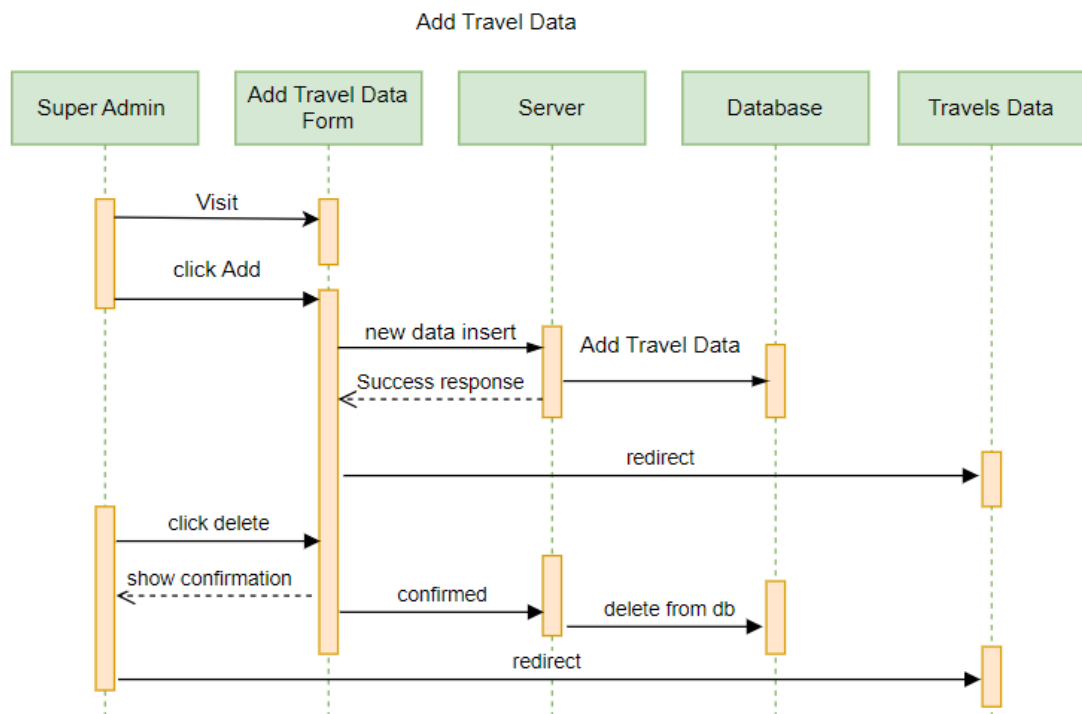


Figure 3.4.4: Sequence Diagram for Add Travel Data

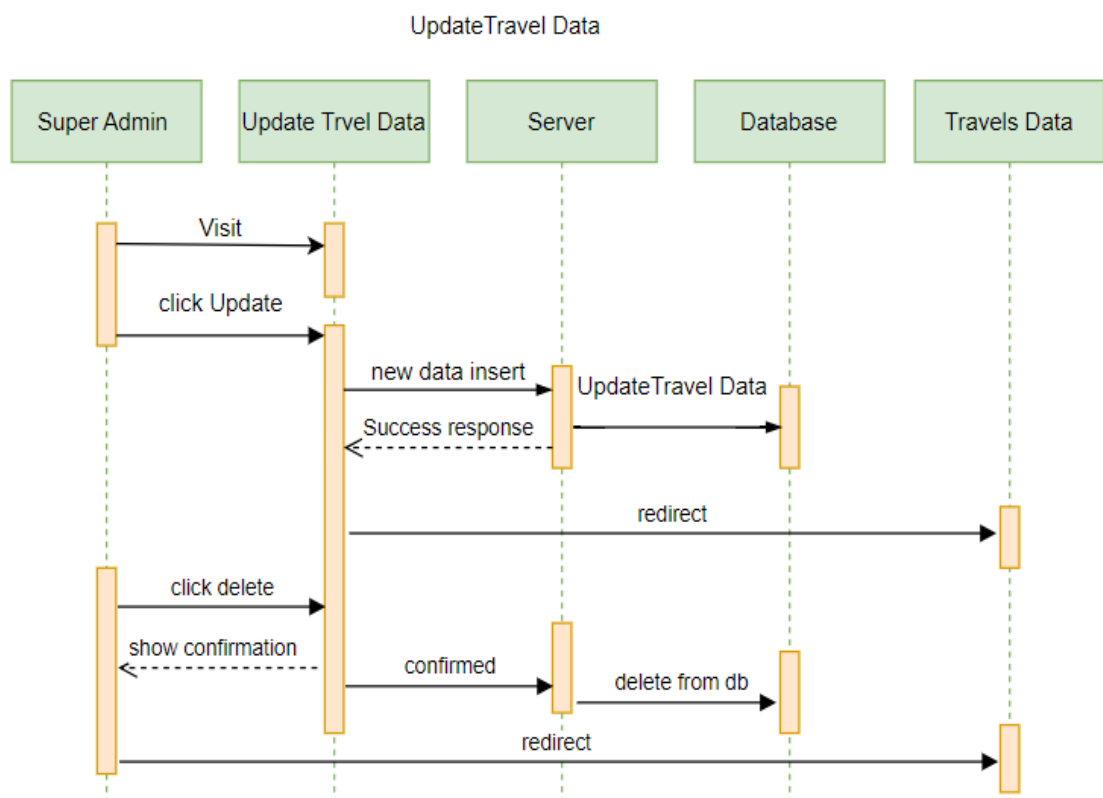


Figure 20: Sequence Diagram for Update Travel Data

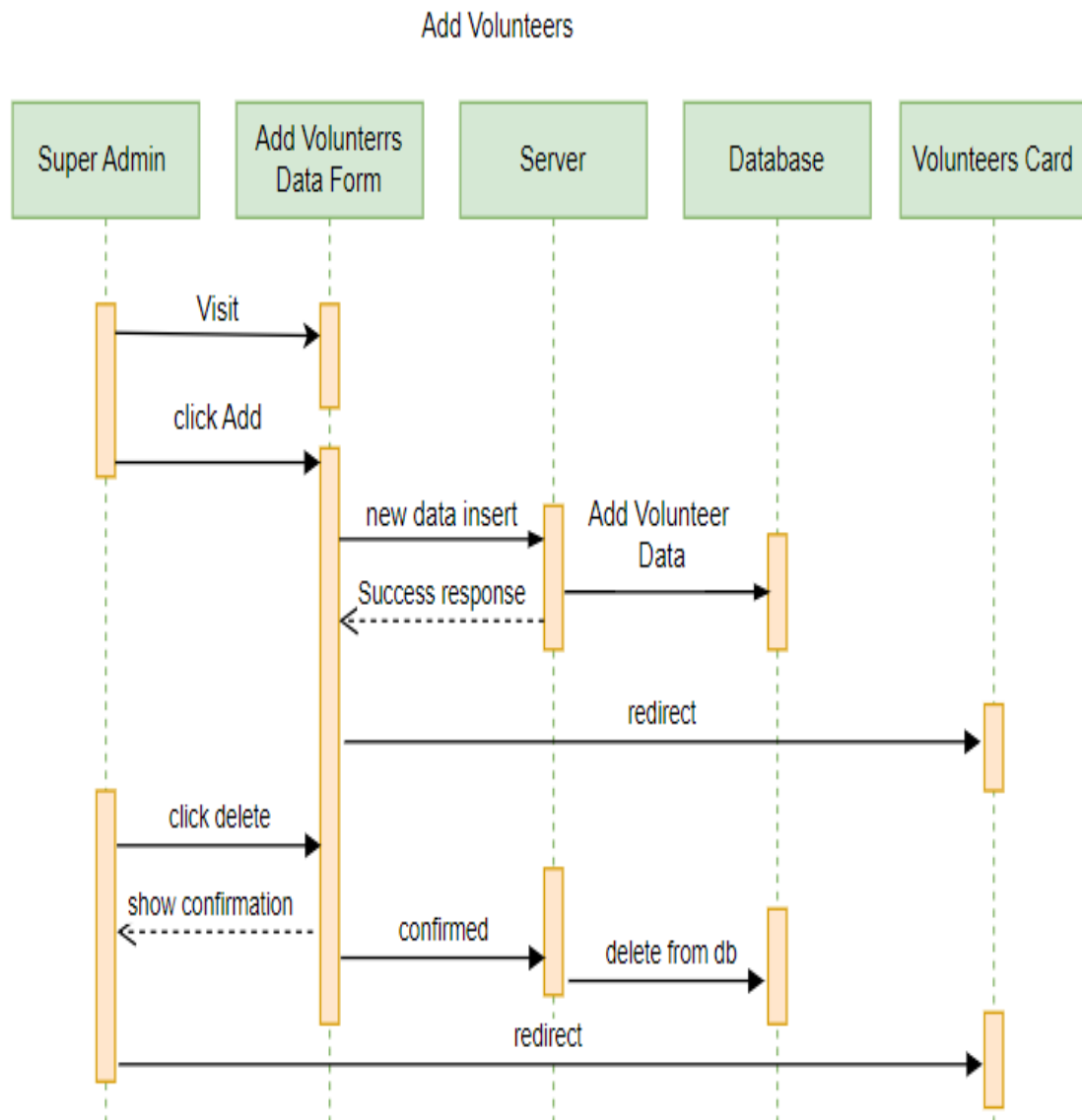


Figure 21: Sequence Diagram for Add Volunteers

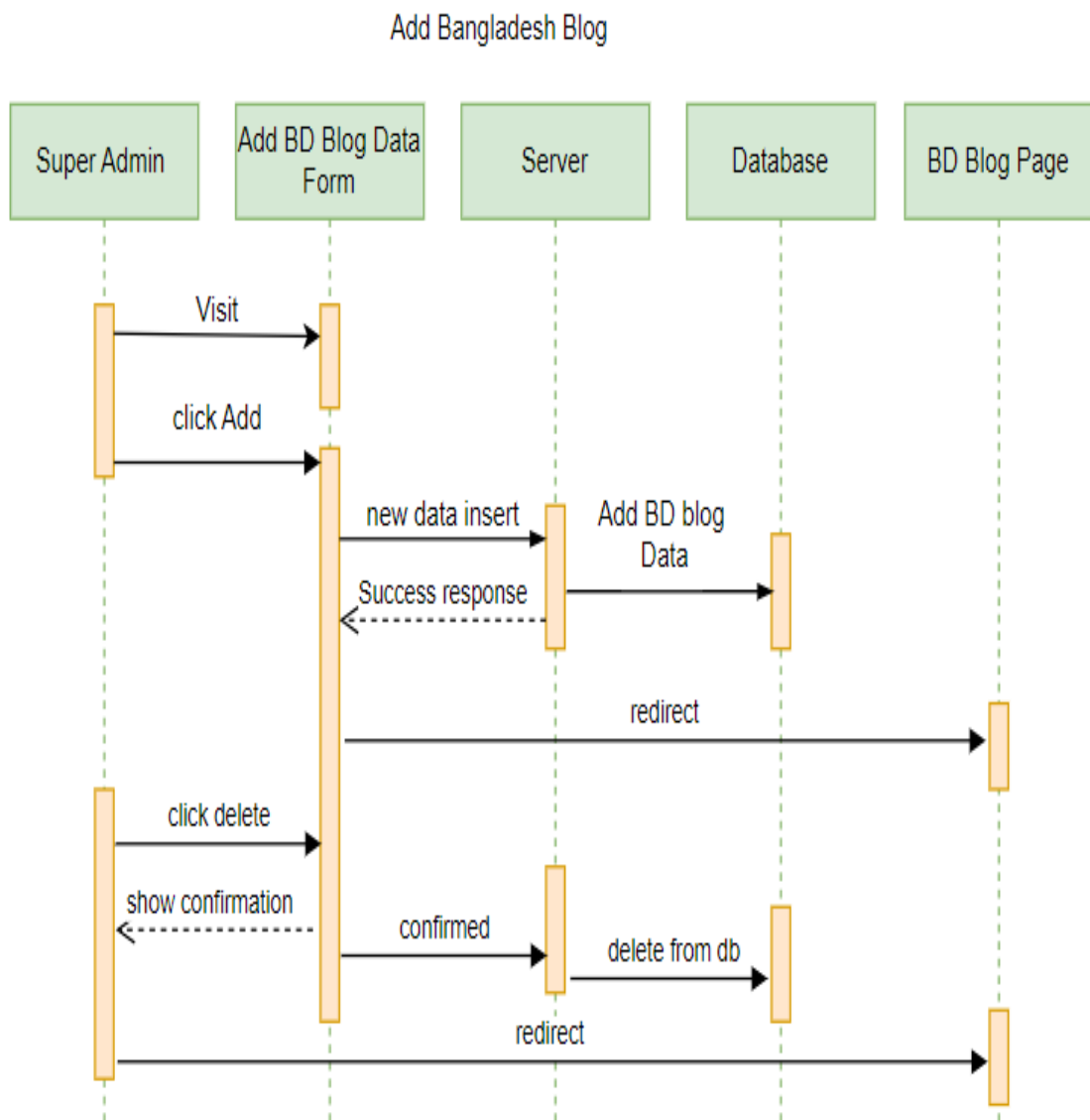


Figure 22: Sequence Diagram for Add Bangladesh Blog

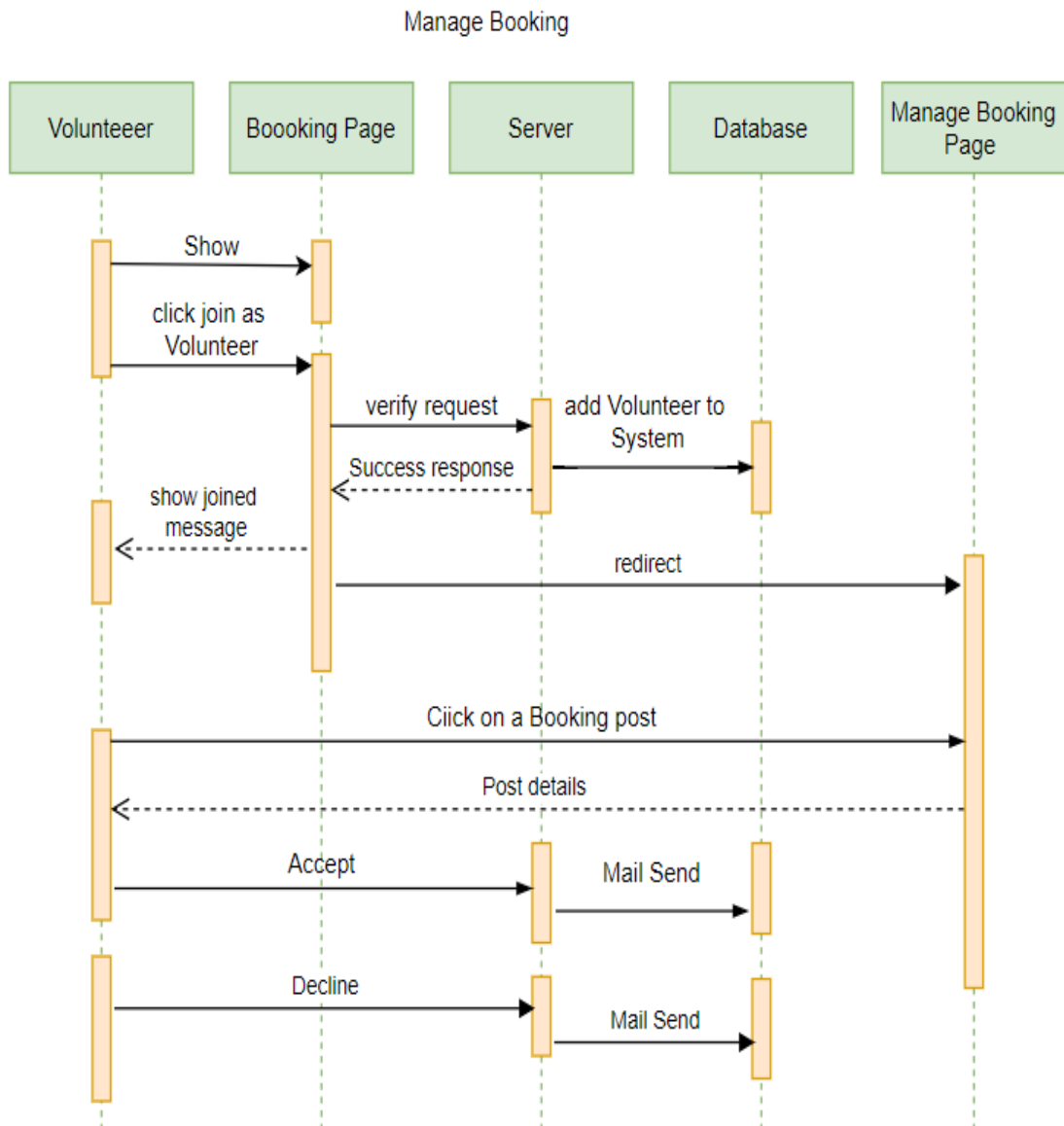


Figure 23: Sequence Diagram for Manage Appointments

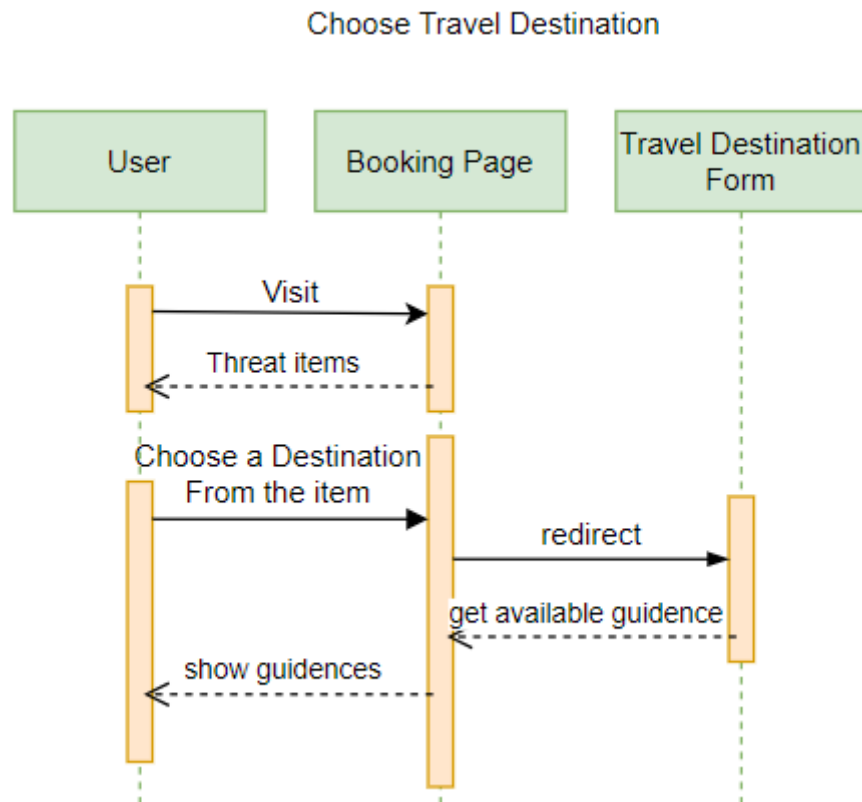


Figure 24: Sequence Diagram for Choose Travel Destination

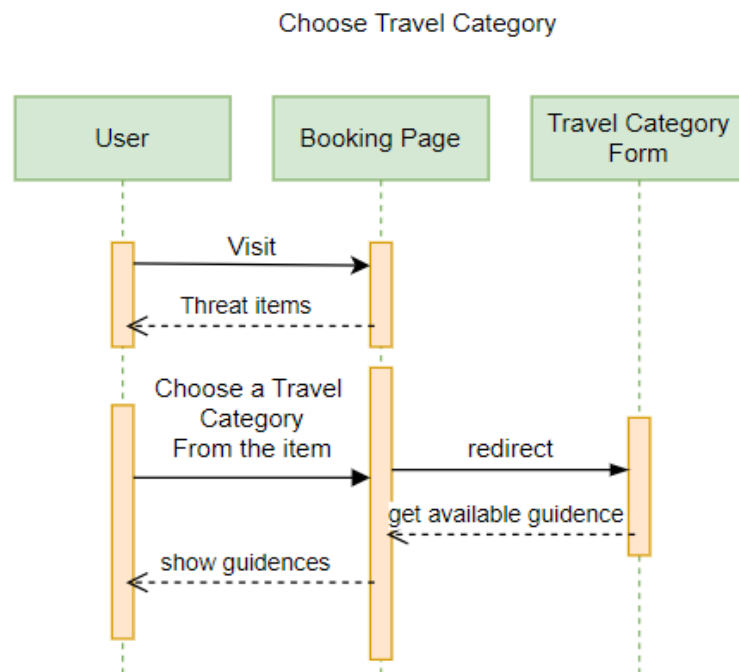


Figure 25: Sequence Diagram for Choose Travel Category

Choose Duration and Budgets

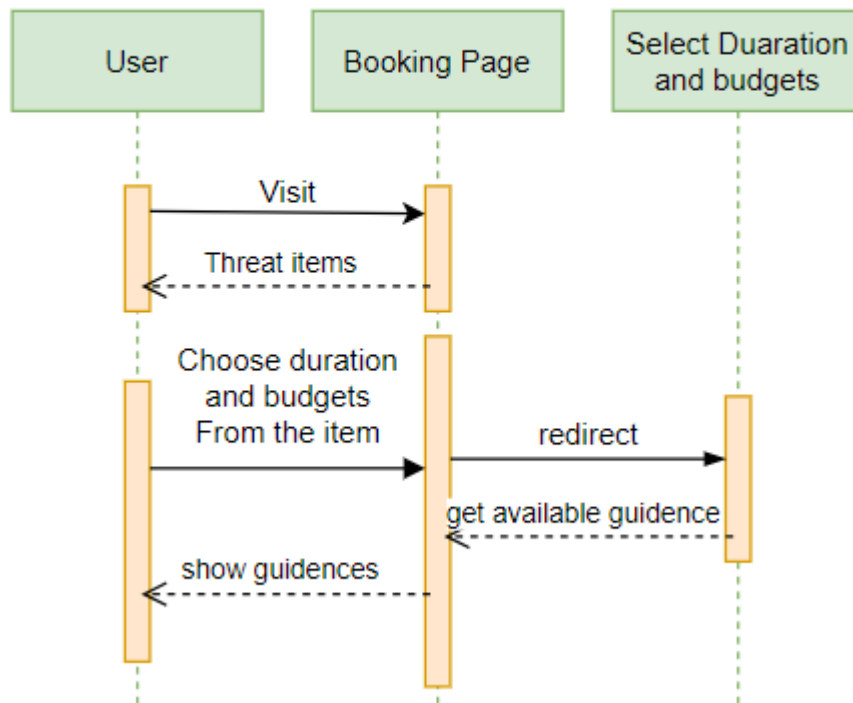


Figure 26: Sequence Diagram for Choose duration & budgets

View Volunteer Profile

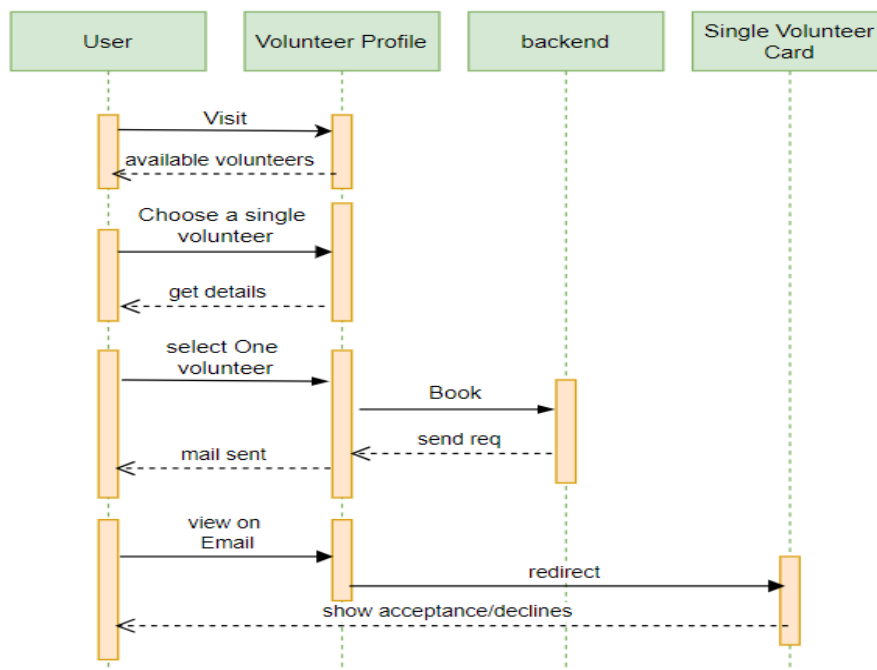


Figure 27: Sequence Diagram for View Volunteer Profile

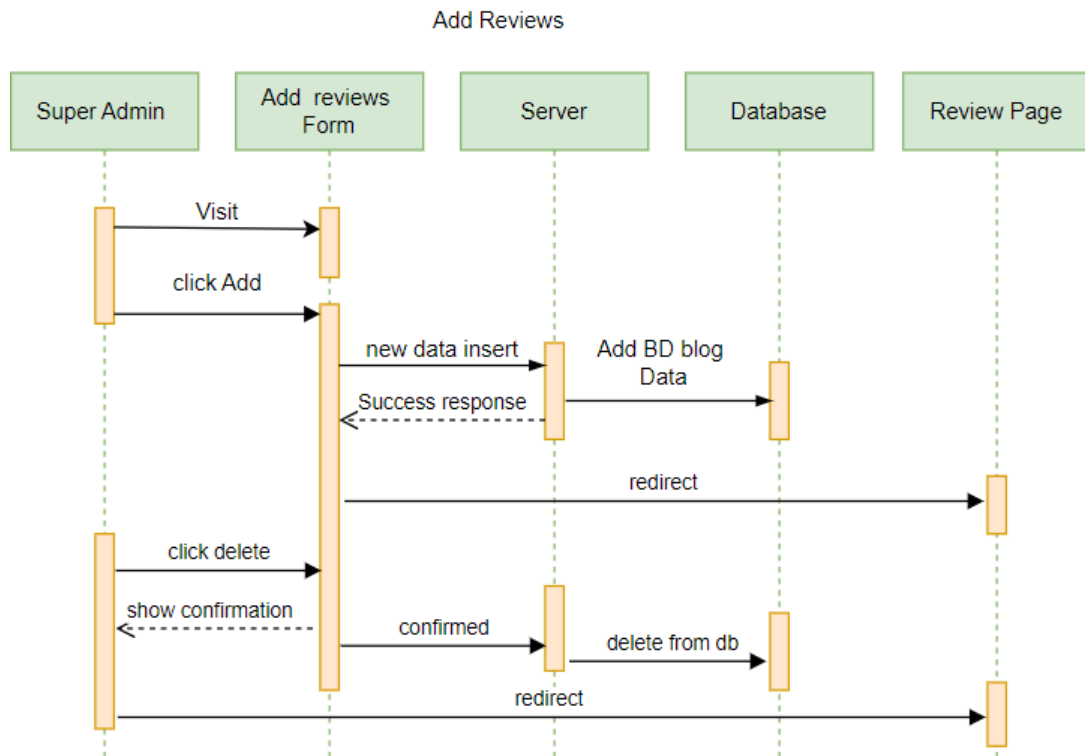


Figure 28: Sequence Diagram for Add Reviews

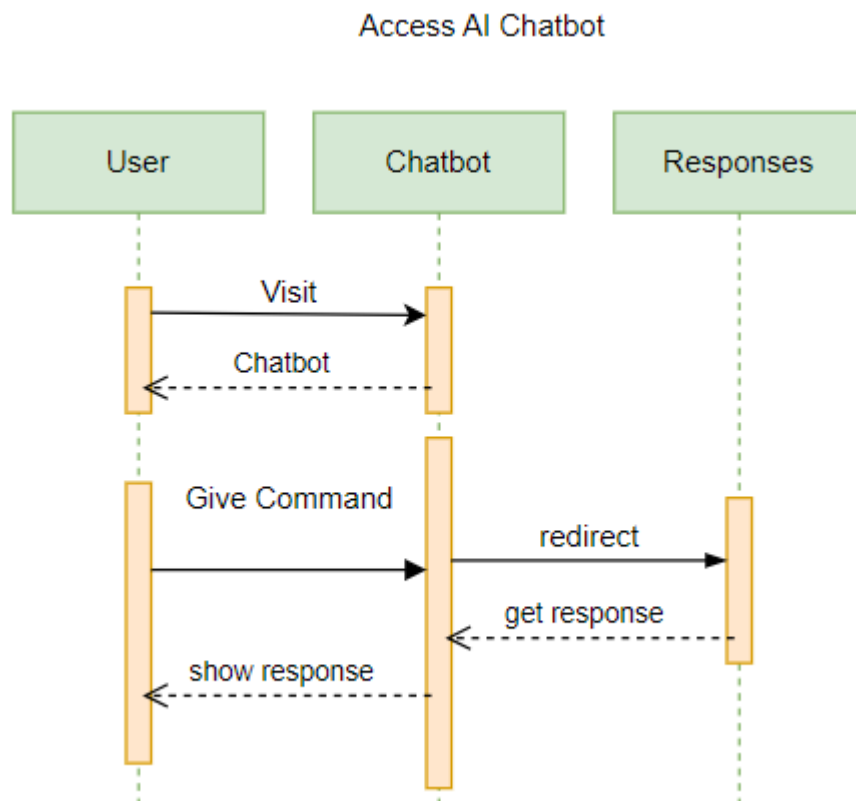
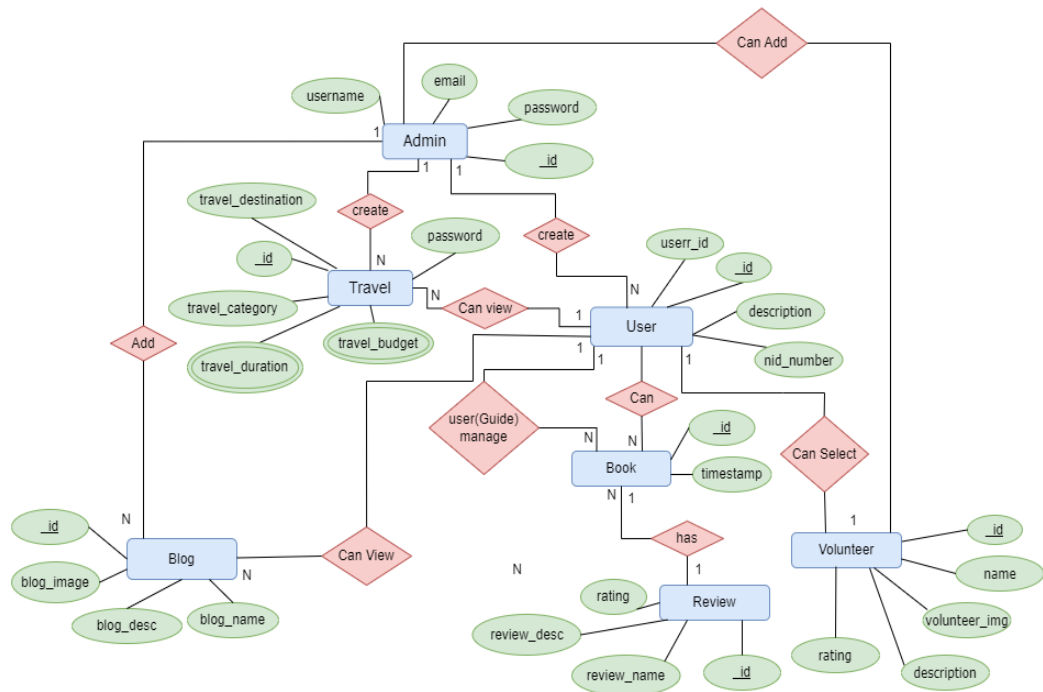


Figure 29: Sequence Diagram for Access AI Chat Bot

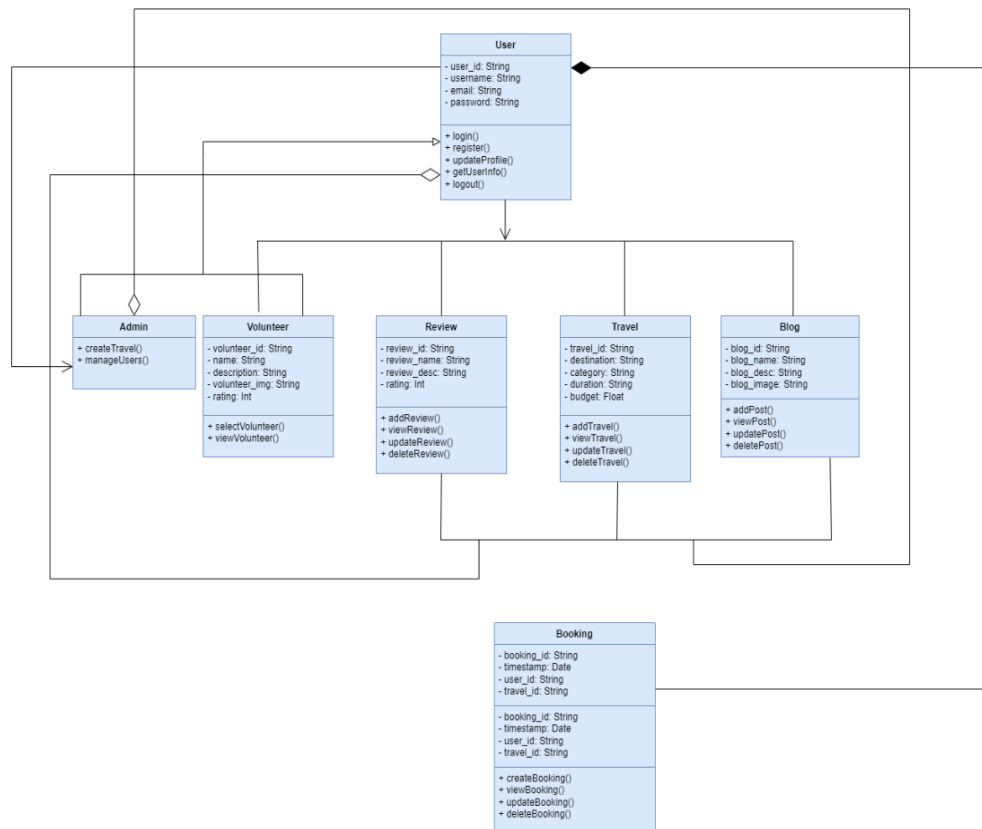
3.5 ER Diagram

Figure 30: ER Diagram



The chapter 3 provides a detailed of the project, it shows the relation among the entities in database.

3.6 Class Diagram



Chapter 4 Development tool & Technology

Chapter four, Hooh a tourism guide booking Website is discussed, where I used Visual Studio Code, HTML, TAILWIND CSS, JavaScript library of React for Frontend and for backend use of Node.js, Express.js for database used MONGODB - NoSQL.

4. 1 The environment for integrated development (IDE)

IDE: VS Code

4.2 Programming Language

TAILWIND CSS and JavaScript library of React.js for Frontend and backend use of Node.js, Express.js for database used MONGODB - NoSQL.

4.3 User interface Design

Figma for initial view and then in development I used TAILWIND CSS and JavaScript library of React.js for frontend.

4.4 Database

MONGODB - NoSQL

4.5 Build and host

For now, Hooh build in free site for now for frontend used NETLIFY and for backend used RENDER.

Chapter 5 System Testing

This Chapter five outlines the features for testing the website of HOOH.

5.1 Testing Features

5.1.1 Feature to be tested

1. Sign-Up.
2. Login
3. Update Profile
4. Add Travel Data
5. Update Travel Data
6. Add Volunteers
7. Add Bangladesh Blog
8. Delete Travelers
9. Volunteer Assignments

5.2 Examining Techniques

5.2.1 Test Methodology

- By hand HooH is examined.
- The acceptability of users is the basis.

5.2.2 Pass/Fail Standards

- Component Pass/Fail criteria: If the item satisfies the correct criterion, the test will indicate pass.
- Integration Pass/Fail criteria: If the item satisfies the correct architecture, the test will be marked as pass.
- System Pass/Fail criteria: If the item satisfies the appropriate functional and non-functional requirements, the test will be deemed successful.

5.2.3 Timetable for Testing

Table 43: Testing Schedule

Phase of Testing	Momentum	Proprietor
Test Strategy	One week	Shaikot Kundu Akash
Test Parameters	One week	Shaikot Kundu Akash
Test Team evaluations	One week	Shaikot Kundu Akash
Testing of Components	One week	Shaikot Kundu Akash
Testing of Integration	One week	Shaikot Kundu Akash
System Testing	One week	Shaikot Kundu Akash

5.3 Test Cases

Table 44: Sign-Up

Example of Test: 01			Name of Test Case: User SignUp		
Framework: Travel Volunteer Matching System			The Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Travelers register by providing their name, email, phone, and password.					
Prerequisites: The user's phone number and email address must be current.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Name: Void	Display the error message	An error message was shown.	Success	The user needs to supply a name
TC2	Email: invalid format	Display the error message	An error message was shown.	Success	The user needs to supply a valid email
TC3	phone: empty	Display the error message	An error message was shown.	Success	The user needs to supply a phone number
TC4	phone: invalid format	Display the error message	An error message was shown.	Success	The user needs to supply a valid phone number
TC5	Password: empty	Display the error message	An error message was shown.	Success	The user needs to supply a password
TC6	data validate for all fields	User registered successfully	User registered successfully	Success	User registration successful
Post-conditions: User is registered and can log in using provided credentials.					

Table 45: Login

Test Case: 02			Test Case Name: User Login		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Travelers and volunteers must log in using their registered email and password.					
Preconditions: User must be registered.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Email: empty	Display the error message	An error message was shown.	Success	The user needs to supply a n email
TC2	Email: not registered	Display the error message	An error message was shown.	Success	The user needs to supply a registered email
TC3	Passwor d: empty	Display the error message	An error message was shown.	Success	The user needs to supply a password
TC4	Valid email and password	User logged in successfully	User logged in successfully	Success	User login successful
Post-conditions: User is logged into the system.					

Table 46: Update Profile

Test Case: 03			Test Case Name: Update Profile		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Travelers and volunteers can update their personal information including name, email, phone, address, and profile picture.					
Preconditions: : User must be logged in.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Name: empty	Display the error message	An error message was shown.	Success	The user needs to supply a name
TC2	Email: invalid format	Display the error message	An error message was shown.	Success	The user needs to supply a valid email
TC3	Phone: empty	Display the error message	An error message was shown.	Success	The user needs to supply a phone number
TC4	Phone: invalid format	Display the error message	An error message was shown.	Success	The user needs to supply a valid phone number
TC5	Valid data for all fields	Profile updated successfully	Profile updated successfully	Success	Profile update successful
Post-conditions: User profile information is updated in the system.					

Table 47: Add Travel Data

Test Case: 04			Test Case Name: Add Travel Data		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Travelers can add travel-related data such as destination, dates, and preferences					
Preconditions: User must be logged in.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Destination: empty	Display the error message	An error message was shown.	Success	The user needs to supply a destination
TC2	Dates: invalid format	Display the error message	An error message was shown.	Success	User must provide valid dates
TC3	Preferences: empty	Display the error message	An error message was shown.	Success	User must provide preferences
TC4	Valid data for all fields	Travel data added successfully	Travel data added successfully	Success	Travel data addition successful
Post-conditions: Travel data is added to the user's profile.					

Table 48: Update Travel Data

Test Case: 05			Test Case Name: Update Travel Data		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Travelers can update previously entered travel data.					
Preconditions: User must be logged in					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Destination: empty	Display the error message	An error message was shown.	Success	The user needs to supply a destination
TC2	Dates: invalid format	Display the error message	Error message displayed	Success	User must provide valid dates
TC3	Prefere nces: empty	Display the error message	Error message displayed	Success	User must provide preferences
TC4	Valid data for all fields	Travel data updated successfully	Travel data updated successfully	Success	Travel data update successful
Post-conditions: Travel data is updated in the user's profile.					

Table 49: Add Volunteers

Test Case: 06			Test Case Name: Add Volunteers		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Super Admin can add and manage volunteer information.					
Preconditions: Super Admin must be logged in.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Volunteer Name: empty	Display the error message	An error message was shown.	Success	Need to offer a volunteer name
TC2	Volunteer Email: invalid	Display the error message	Error message displayed	Success	Need to offer a valid email
TC3	Volunteer Phone: invalid	Display the error message	Error message displayed	Success	Need to offer a valid phone number
TC4	Valid data for all fields	Volunteer added successfully	Volunteer added successfully	Success	Volunteer addition successful
Post-conditions: Volunteer is added to the system and can be viewed by Travelers.					

Table 50: Add Bangladesh Blog

Test Case: 07			Test Case Name: Add Bangladesh Blog		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Super Admin can add blog posts related to travel experiences in Bangladesh					
Preconditions: Super Admin must be logged in.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Blog Title: empty	Display the error message	An error message was shown.	Success	Need to offer a blog title
TC2	Blog Content: empty	Display the error message	Error message displayed	Success	Must provide blog content
TC3	Valid data for all fields	Blog added successfully	Blog added successfully	Success	Blog post addition successful
Post-conditions: Blog post is added and can be viewed by Travelers.					

Table 51: Delete Travelers

Test Case: 08			Test Case Name: Delete Travelers		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Super Admin can delete Travelers from the system.					
Preconditions: Super Admin must be logged in.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	User ID: invalid	Display the error message	An error message was shown.	Success	Need to offer a valid user ID
TC2	User ID: valid	User deleted successfully	User deleted successfully	Success	User deletion successful
Post-conditions: User is removed from the system.					

Table 52: Volunteer Assignments

Test Case: 09			Test Case Name: Volunteer Assignments		
System: Travel Volunteer Matching System			Subsystem: NOT APPLICABLE		
Designed by: Shaikot Kundu Akash			Design Date: 01-02-2024		
Executed by: Shaikot Kundu Akash			Execution Date: 01-02-2024		
Description: Super Admin can assign volunteers to specific locations or projects					
Preconditions: Super Admin must be logged in, volunteers and locations must be added.					
ID	Data	Expected Output	Actual Output	Test Status	Comment
TC1	Volunteer ID: invalid)	Display the error message	An error message was shown.	Success	Need to offer a blog title Need to offer a valid volunteer ID
TC2	Location ID: invalid	Display the error message	Error message displayed	Success	Need to offer a valid location ID
TC3	Valid volunteer and location	Assignment successful	Assignment successful	Success	Volunteer assignment successful
Post-conditions: Need to offer a valid volunteer ID					

The test cases refers that, it is fulfilling the proper requirement and maintain proper architecture and it's fulfilled the functional and non-functional requirement.

Chapter 6 User Manual

This chapter six shows the prototype with detailed landing page and all the functional activity.

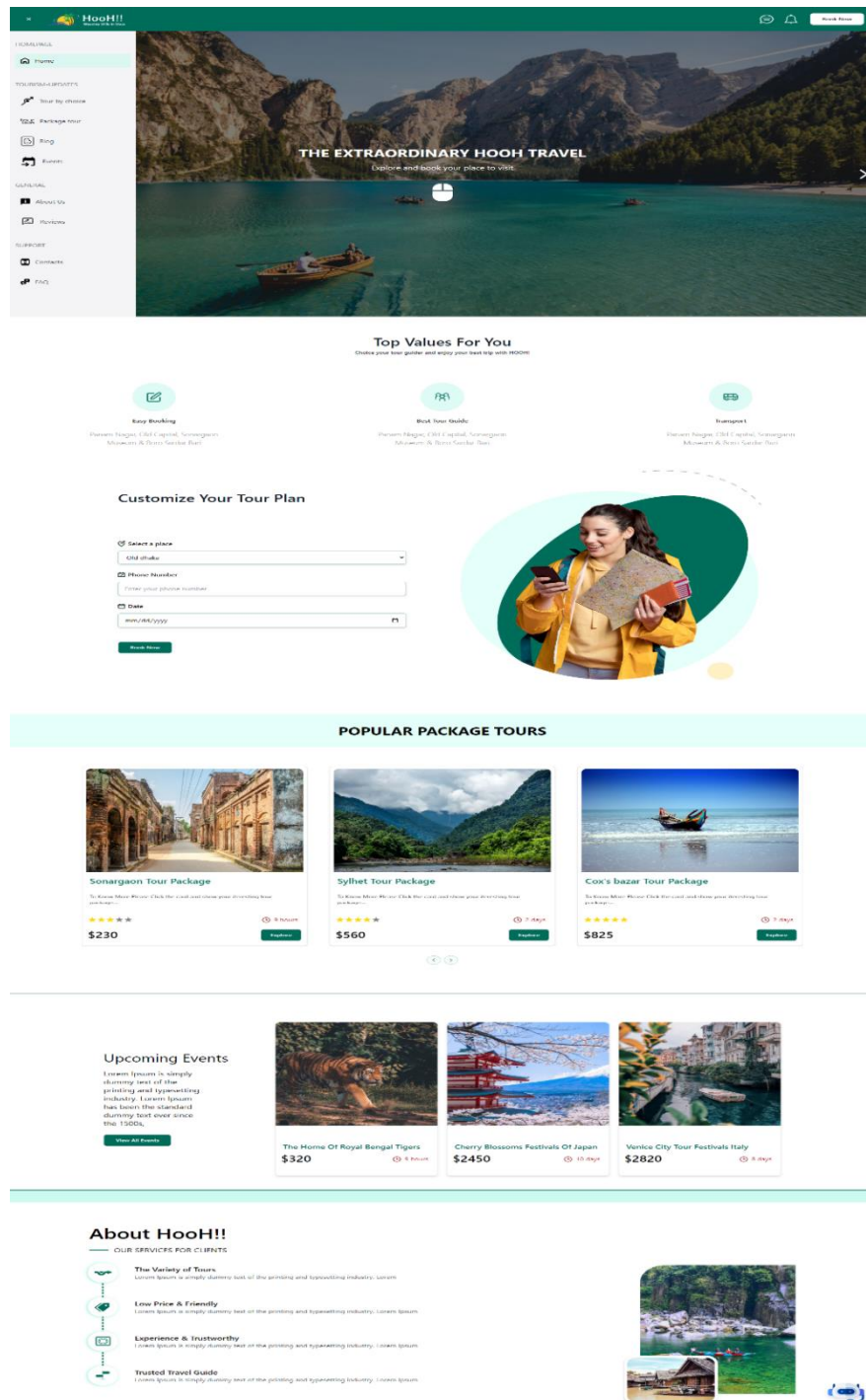


Figure 31: Home Page Overview



Sign Up

Figure 32: Sign Up



Sign IN

[Didn't Register?](#)

Figure 33: Login

 Select a place

Old dhaka

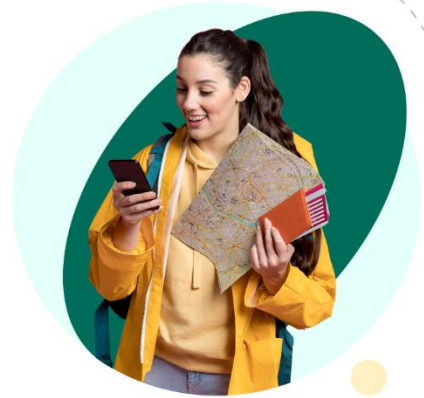
 Phone Number

Enter your phone number

 Date

05/22/2024

Book Now



After Clicking book now page it will go to the booking page and then user can make plan for tour.

Book Now

Welcome to Dhaka

Lorem ipsum is simply dummy text of the printing and typesetting industry.

About

Lorem ipsum is simply dummy text of the printing and typesetting industry. Lorem ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, it has survived not only five centuries.

[Read More](#)

- [Watch Video](#)
- [Most Visited city by the tourist](#)

[More options](#)

The places you can Visit In Dhaka

Transportation

Local Transport

Lorem ipsum is simply dummy text of the printing and typesetting industry.

[Volunteer assistance](#)

Private Car services

Lorem ipsum is simply dummy text of the printing and typesetting industry.

[Volunteer assistance](#)

Bike services

Lorem ipsum is simply dummy text of the printing and typesetting industry.

[Volunteer assistance](#)

Select Suitable Volunteer

John Doe
Hunt in English, English is Hindi, adept in communication & leadership.
★★★★★

Dave Doe
Hunt in English, English is Hindi, adept in communication & leadership.
★★★★★

Rayhan Doe
Hunt in English, English is Hindi, adept in communication & leadership.
★★★★★

Jack Doe
Hunt in English, English is Hindi, adept in communication & leadership.
★★★★★

Adrian Doe
Hunt in English, English is Hindi, adept in communication & leadership.
★★★★★

Trip Note

- Respect local customs and cultural norms during your tour.
- Follow safety guidelines provided by your guides and adhere to their instructions.
- Notify HOOH promptly of any changes or cancellations to your travel plans.
- Ensure punctuality for scheduled tours and activities.
- Take responsibility for personal belongings and valuables during the tour.
- Treat fellow travelers, guides, and locals with courtesy and respect.
- Abide by all local laws and regulations while exploring Dhaka city.
- Notify HOOH of any medical conditions or special requirements before booking.
- Refrain from engaging in any illegal or unethical activities during the tour.
- Understand and agree to any additional terms and conditions specific to individual tours or activities offered through HOOH.

☒ Agree with Terms and Conditions

Trip Weather

35 °C
Mainly clear
May 2024 Wednesday

Sunrise 05:10 AM	Sunset 06:37 PM
Wind 24 km/h	Humidity 45%
Rain 0 mm	Cloud cover 63%
	Poenda Libet 40°C
	Khosla 100.3°F 39°C

Total Cost - \$203.34

Select a place

Old dhaka

Date

05/24/2024

May 2024

Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

The places you can Visit in Dhaka







Figure 36: Select Date segment

Welcome to Dhaka

About

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, it has survived not only five centuries.

[Read More](#)

[Watch Video](#)

Most Visited city by the tourist

[More options](#)



Figure 37: Selected Location Details

Duration (hour)

2

Add Traveler

1

Select transport

Road

Transportation

Local Transports

Lorem Ipsum is simply dummy text of the printing and

Volunteer assistance

Private Car services

Lorem Ipsum is simply dummy text of the printing and

Volunteer assistance

Bike services

Lorem Ipsum is simply dummy text of the printing and

Volunteer assistance

Figure 38: Select Duration, Traveler and transport

Select Suitable Volunteer

John Doe

Fluent in Bangla, English & Hindi, adept in communication & leadership

★★★★★

Dave Doe

Fluent in Bangla, English & Hindi, adept in communication & leadership

★★★★★

Rayhan Doe

Fluent in Bangla, English & Hindi, adept in communication & leadership

★★★★★

Jack Doe

Fluent in Bangla, English & Hindi, adept in communication & leadership

★★★★★

Adrian Doe

Fluent in Bangla, English & Hindi, adept in communication & leadership

★★★★★

Figure 39: Select preferred Volunteer

Trip Note

- Respect local customs and cultural norms during your tour.
- Follow safety guidelines provided by tour guides and adhere to their instructions.
- Notify HOOH promptly of any changes or cancellations to your travel plans.
- Ensure punctuality for scheduled tours and activities.
- Take responsibility for personal belongings and valuables during the tour.
- Treat fellow travelers, guides, and locals with courtesy and respect.
- Abide by all local laws and regulations while exploring Dhaka city.
- Notify HOOH of any medical conditions or special requirements before booking.
- Refrain from engaging in any illegal or unethical activities during the tour.
- Understand and agree to any additional terms and conditions specific to individual tours or activities offered through HOOH.

☐ Agree with Terms and conditions

Trip Weather

Dhaka

35 °C

Overcast

May 2024 Wednesday

Sunrise 05:13 AM

Sunset 06:37 PM

Wind 2.6 km/h	Humidity 52%	Feels Like 40°C
Rain 0 mm	Cloud cover 83%	Pressure 1002.1 hPa

Total Cost -

\$203.34

Need help with Booking? [SEND US Message](#)

Continue >

Figure 40: Show Total Cost Of your service

HooH!!

David ▾

Booking Summary

Personal Information

Full Name: David Williams

Email: davidwilliams345@gmail.com

Phone: +88017823445678

Address: 1/11 Adabor, Mohammadpur, Dhaka

Tour Details

Tour Location: Dhaka City

Selected Destinations: Laalbag Fort, Sonargaon.
Dhaka University, Dhaka New market, Hatirjeel

Travel date: 12 April 2024

Duration: 1 Day (24 Hours)

Group size: 2 Persons

Transportation: Local transport

Tour Guide Details

Volunteer Name: Adam Lambert

Phone Number: +8801956246637

Email: adamlambert56@gmail.com

Total Tour Cost -

\$203.34

Cancel

Confirm Book

Figure 41: Booking Invoice

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The conclusion of the chapter six, It Includes the main activity of the website. Such as the registration process of the stakeholders and their action. And how to register as an volunteer to guide the traveler(user), also the booking system how will works for Travelers and send the mail to the system and the system how it will response everything is show as a prototype with some screenshots here.

Chapter 7 Conclusion

The chapter seven, the conclusion, HooH a tourism guide app for travelers will help and it will keep updating the website day by day for user preference.

7.1 Project Connection

<https://github.com/Developer-Shaikot/HooH.git>

7.2 Constraints

A tourism web app HooH when we decided to develop have faced some limitations, As a developer we need to keep adapt ourselves for technology advancement which I am doing as well and that could be the solution for me to overcome from this limitations.

7.3 Future Scope

For future HooH will Improve the functionality and the design for user preference. Nearly Future plans are:

- The proper design of UI/UX first for the Website- HOOH.
- New feature Implementation of promotional offers for better audience in website.

7.4 References

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