



FPT UNIVERSITY

Capstone Project Document

Travel With Locals

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Ext Supervisor	
Capstone Project code	TWL

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Chapter 1. Introduction

1.1 Purpose

This chapter provide an overview of the capstone project. It includes the project and team information, the idea of project, the problem, the overview of similar existing solutions. From that point, we will make our proposal to solve the problem and overview our expected system.

1.2 Project Information

Project information	
Project name	Travel with Locals
Project code	TWL
Team name	Ant man
Product type	Web application

1.3 Team Information

Supervisor:

Full name	Phone number	Email	Title
Đào Trọng Duy	0983204196	DuyDT@fe.edu.vn	Supervisor

Members:

No	Full name	Student ID	Phone number	Email	Role
1	Phạm Tùng Dương	SE05022	0389673685	DuongPTSE05022@fpt.edu.vn	Leader
2	Trần Hoàng Long	SE04935	0969449743	LongTHSE04935@fpt.edu.vn	Member
3	Nguyễn Gia Đăng	SE05100	0522705486	DangNGSE05100@fpt.edu.vn	Member
4	Nguyễn Đức Dũng	SE05558	0911780948	DungNDSE05558@fpt.edu.vn	Member
5	Hoàng Hải	SE05793	0357132244	HaiHSE05793@fpt.edu.vn	Member

1.4 Background

Nowadays, in the world of internet, wealthy and multimedia, travel demand is dramatically increasing globally. In scope of Viet Nam, traveling is always stated as a key economic sector with high support from government and contribute approximately 6% to GDP. In fact, statistics show that foreign tourist to Viet Nam grows rapidly in recent year.

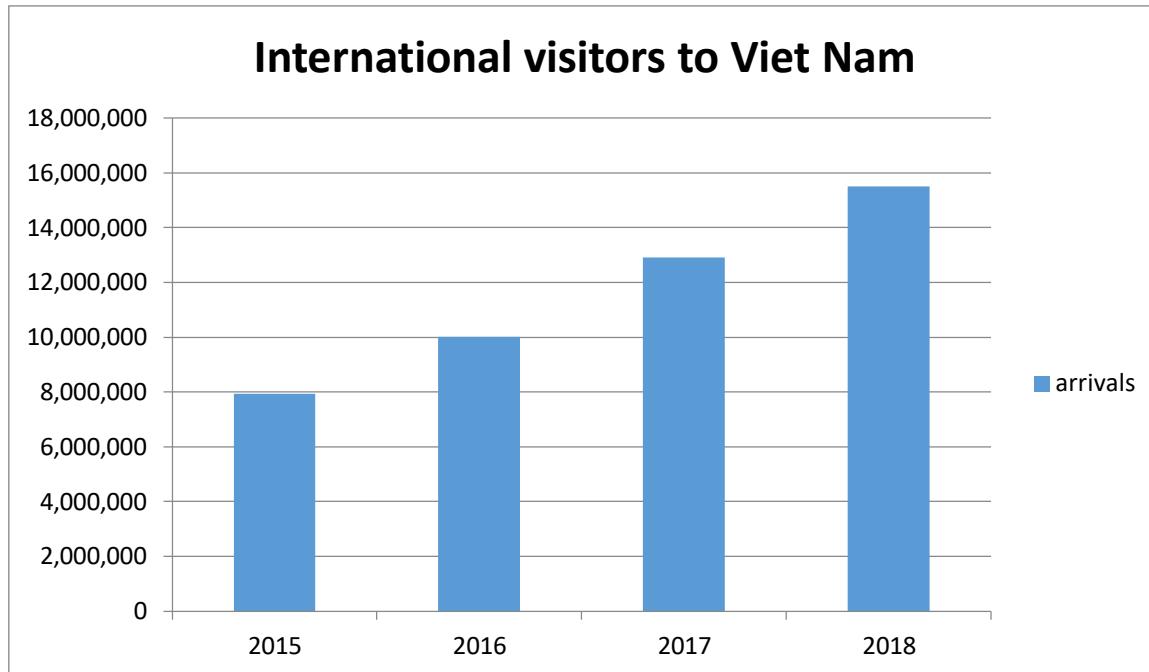
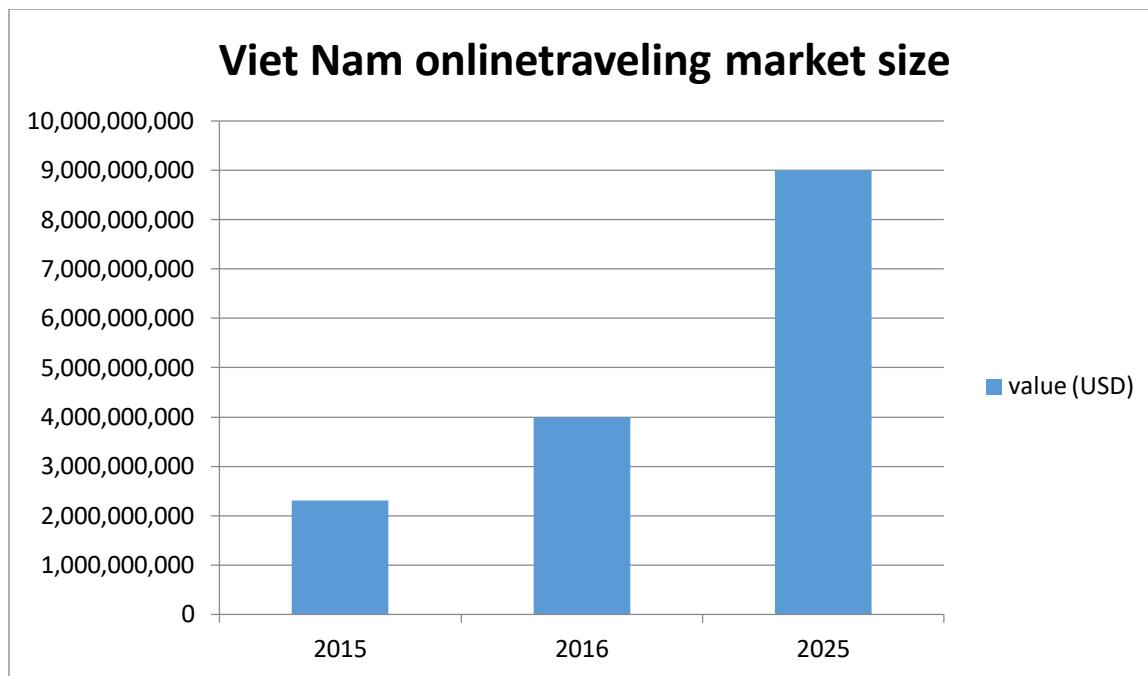


Figure 1-1. Number of International visitors to Viet Name (source: <http://vietnamtourism.gov.vn>)

In that hasten development, there is a tourism-personalizing trend is booming. Tourism-personalizing have characteristics like searching for information on personal devices, self booking, travelers tend to look for personalized experience rather than tours designed by tourist companies. As Vietnam National Administration of Tourism reports, in 2018, only 30% of travelers booked traditional tour, and 70% travelers booking travel services online. Trekksoft also shows that 75% of 18-34 years old travelers booking travel services online.



1-1. Viet Nam online traveling market size (source: VTV24)

Catching up on this trend, dozens of hotel, hostel, flight, car booking services emerge to satisfy customer like Traveloka, Agoda, Booking, Luxstay. But one important factor – guiders, have not been regarded enough. When these travelers come to a foreign city, they need someone those help them communicate, shopping, explore local culture... . And yet there is no traditional tourist company has provided private guiders service alone. Therefore, our team has an idea that travelers can find their guiders like they find their hotel, flight or car. That is a system that connects travelers and guiders, helps travelers quickly find a native take them go around explore their destination, a system that completes the chain of self travel services.

1.5 Literature Review

In the field of looking guiders, there are few websites/applications provide solution:

- inspitrip.com

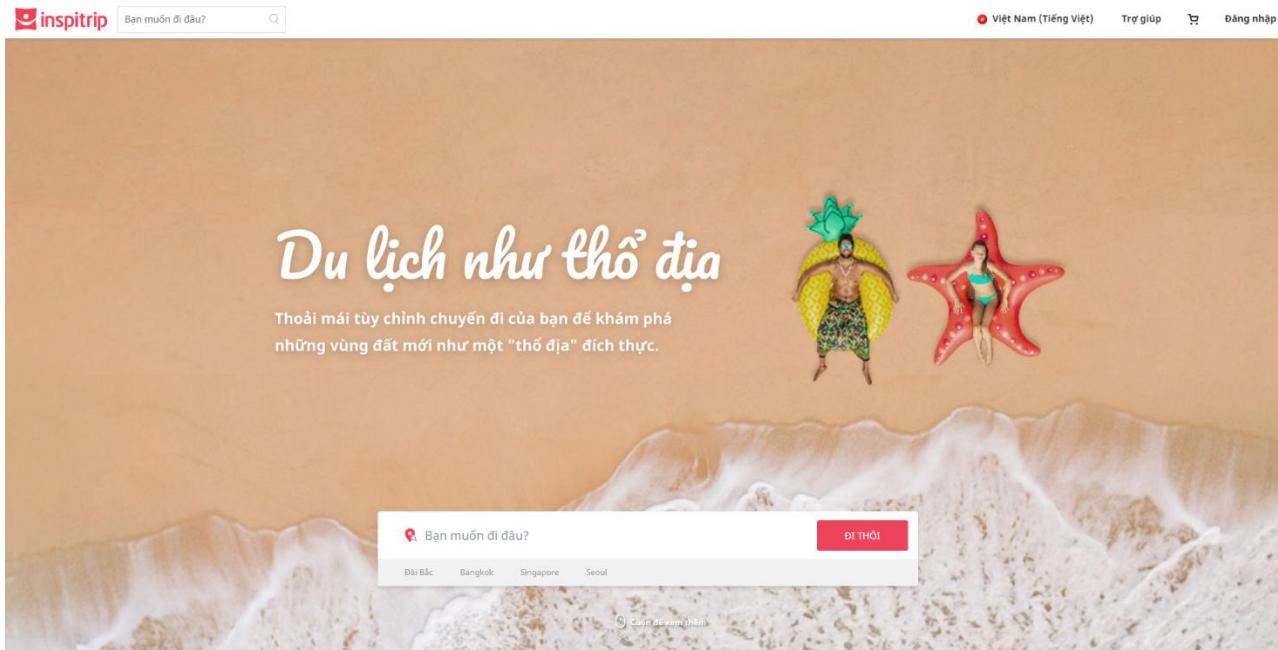


Figure 1-2. inspitrip.com

- Advantages
 - Useful and innumerable travel information.
 - A lot of small tours that cheaper compare to other website.
- Disadvantages
 - Over advertising.
 - Unable to customize tour.
 - Unable to pick, communicate to guider.

- [showaround.com](#)

Figure 1-6. showaround.com

- Advantages
 - Large network of guider, easy to become a guider.
 - Function and interface focus on guider.
- Disadvantages
 - Not provide clear about what traveler would take.
 - Guider verification is not carefully in term of legal and identification.

● [withlocals.com](#)



Explore Withlocals

All of our tours and activities are: • Private • Personalized • With the local of your choice



Figure 1-7. withlocals.com

- Advantages
 - Tour attached with guider.
 - Transparent information and process.
 - Able to customize tour.
 - Mobile app supported.
- Disadvantages
 - No direct contact with guiders before payment.
 - Not target on Viet Nam market.

1.6 Proposal System

1.6.1 Ideas

The idea of our team is to create a website to connect travelers and our local guiders, focus on quality of guiders as well as detail information of destination.

- **Travelers** are able to:
 - Explore trips, destinations and guiders on website deeply, easily with reasonable price.
 - Communicate to guiders in real time.
 - Book and pay for their trips on website.
 - Review and rating guiders after trips.
- **The guiders** are able to:
 - Complete their background.
 - Design their trips and present them on website.
 - Manage booking request.
 - Review their travelers.

1.6.2 System group functions

The TWG system has the following roles and main functions:

- **Guest**
 - Guiders registration
 - Travelers registration
 - View list of Guiders
 - View post information of Guiders
 - Search for Guiders
 - Search for posts
- **Traveler:**
 - Login/logout
 - Manage profile
 - Save favorite posts
 - Communicate with Guiders
 - Book trips
 - Pay for their trips
 - Manage their trips
 - Cancel their trips
 - Review and rate after trips
 - Receive notification

- **Guider**
 - Login/logout
 - Manage profile
 - Add and manage trips information
 - Communicate with Travelers
 - Cancel booked trips
 - Manage trips
 - Review travelers
 - View revenues by month
 - Receive notification

- **Admin**
 - Login/logout
 - Manage accounts
 - Manage posts of Guiders
 - View, hide comments
 - Manage Guiders documentation
 - View statistics of revenue and trip booking activity

1.6.3 Out of scope

- Pay to Guiders: TWL not take responsibility to pay to Guiders automatically, that function should be assigned to another accounting system.

TÀI LIỆU THAM KHẢO

[1] vietnamtourism.gov.vn

[2] Phạm Thị Thúy Nguyệt Trường Đại học Khoa học Xã hội và Nhân văn, ĐHQG-HCM: Xu hướng du lịch cá nhân hóa – tiền đề phát triển và khuyến nghị chiến lược

[3] tripadvisor.com

Chapter 2: Software Project Management Plan

2.1 Purpose

The purpose of this chapter is to describe the project organization, process model, team organization and project management plan.

2.2 Milestones and deliverables

No	Milestone	Delivery Date	Deliverables	Delivery Location
1	Project start	9/9/2019	Report to Supervisor ideal and basis business analysis.	Supervisor
2	Analyze business, determine scope & plan schedule	11/09/2019	Introduction report, use case list	Supervisor
3	Initial Requirement Specification & System architecture	15/09/2019	SRS document, mockup design, technology stack.	Supervisor
4	Review sprint 1	10/10/2019	Basic function and screen design and testing.	Supervisor
5	Review sprint 2	31/10/2019	Base functions and screen design and testing.	Supervisor
6	Review sprint 3	21/11/2019	Demo main flow and completed test cases	Supervisor
7	Review sprint 4	6/12/2019	Demo fully project functionalities and test report	Supervisor
8	Complete documentation	13/12/2019	Send updated documentation and edit according to comments.	Supervisor
9	Project close	19/12/2019	Closing project	FU Project

				council
10	Project defense	27/12/2019		FU Project council

2.2 Project Organization

2.2.1 Software Process Model

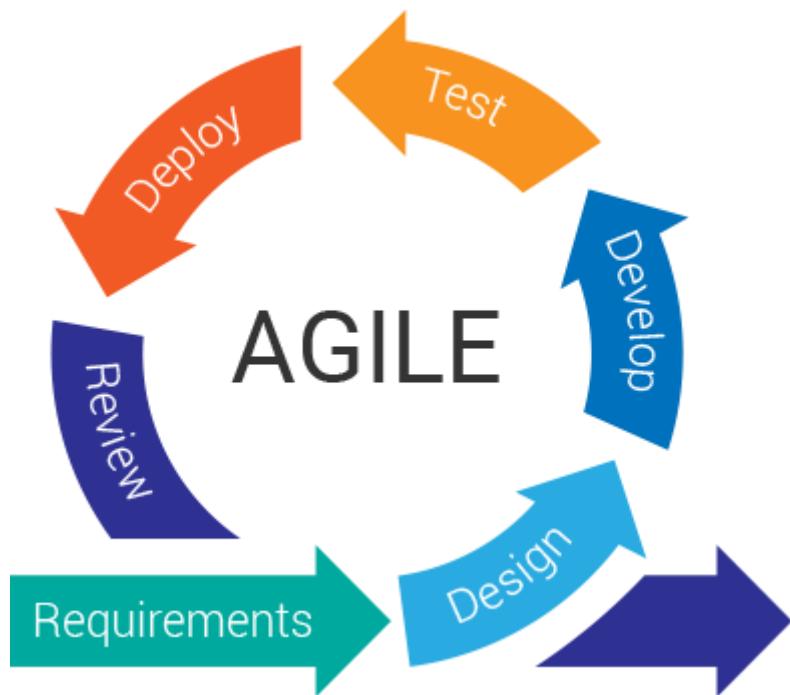


Figure 0-1. Agile process model

(source: <https://softgainz.com/>)

About the Agile model

The Agile model is a combination of iterative and incremental processes focus on adaptability and customer satisfaction by rapid delivery of working software product. Agile method breaks the product into small incremental builds. These builds are provided in iterations.

Each iteration typically lasts from about one to three weeks. Every iteration involves cross functional teams working simultaneously on various area like:

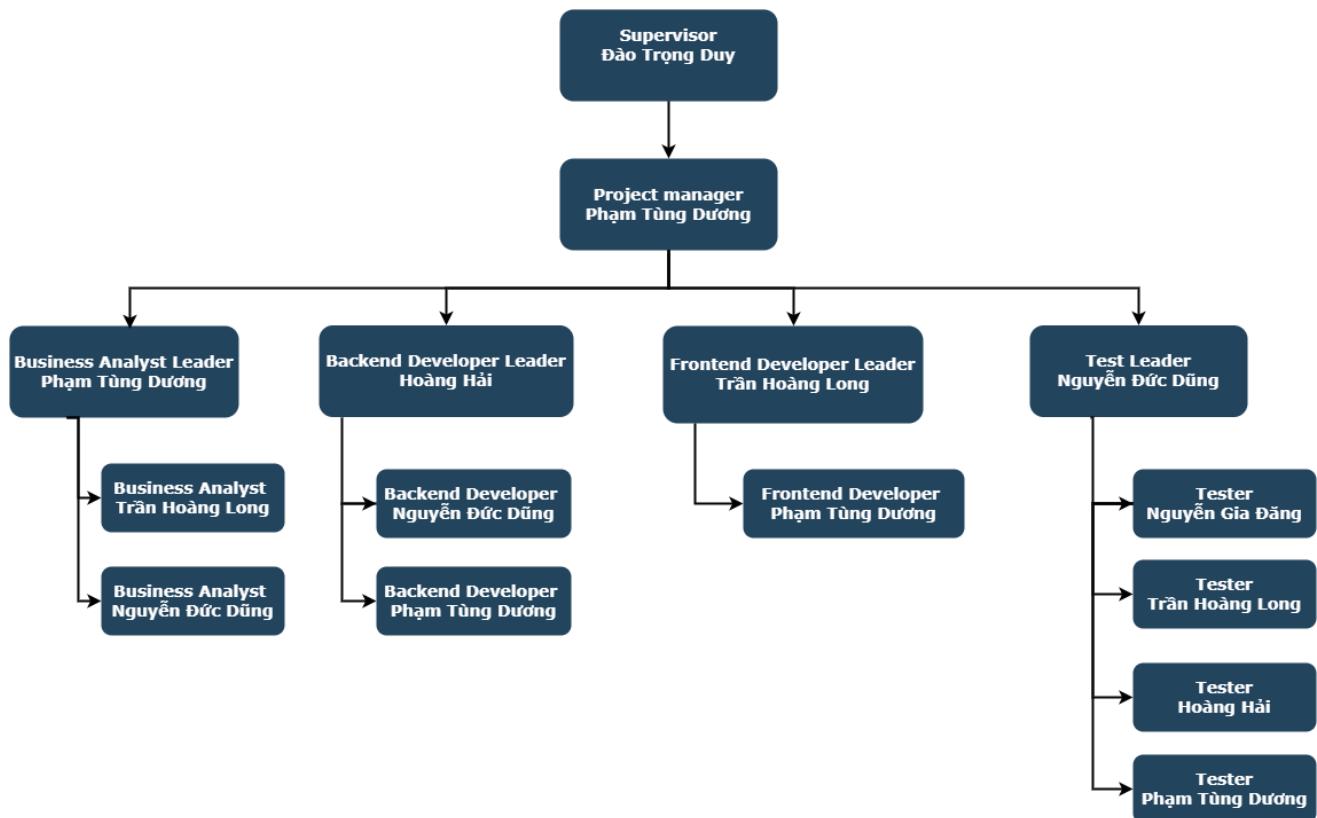
- **Planning**
- **Requirements Analysis**
- **Design**
- **Coding**
- **Unit testing**
- **Acceptance testing**

(Refers: tutorialspoint.com)

Agile Model – Pros and Cons

Advantages	Disadvantages
<ul style="list-style-type: none">• Increased cost saving• Increased team accountability• Easy to accommodate changes• Transparency and project visibility	<ul style="list-style-type: none">• Lack of clarity cause of inexperience• Not easy to understand and manage• Need advanced skill team member• Hard to estimate deliverables in iteration

2.2.2 Organization Structure



2.2.3 Roles and responsibilities

Roles	Name	Responsibilities
Project Manager	Phạm Tùng Dương	<ul style="list-style-type: none"> Initial ideas, manage communication, make decision. Assigning task with responsibilities to each member. Manage schedule, handle risk and tackle. Review word stick team with plan.
Business analyst team		
BA Leader	Phạm Tùng Dương	<ul style="list-style-type: none"> Define scope and create SRS template. Define details of use cases.
BA #1	Trần Hoàng Long	<ul style="list-style-type: none"> Interview and analyze physical business. Design UI from the requirements.
BA #2	Nguyễn Đức Dũng	<ul style="list-style-type: none"> Collect and analyze digital business. Define and analyze requirements.
Developer		
Frontend developer	<ul style="list-style-type: none"> Trần Hoàng Long Phạm Tùng Dương 	<ul style="list-style-type: none"> From the requirement, designing and coding frontend Research and implement UX for frontend system
Backend	<ul style="list-style-type: none"> Hoàng Hải 	<ul style="list-style-type: none"> Research and implement API

developer	• Nguyễn Đức Dũng • Phạm Tùng Dương	• Develop server-side web application
Tester		
Test leader	Nguyễn Đức Dũng	• Create template testing document • Define test strategy and create test plan • Create test cases
Tester 1	Hoàng Hải	• Implement test case and log defect
Tester 2	Trần Hoàng Long	• Implement test case and log defect
Tester 3	Nguyễn Gia Đăng	• Implement test case and log defect
Tester 4	Phạm Tùng Dương	• Implement test case and log defect

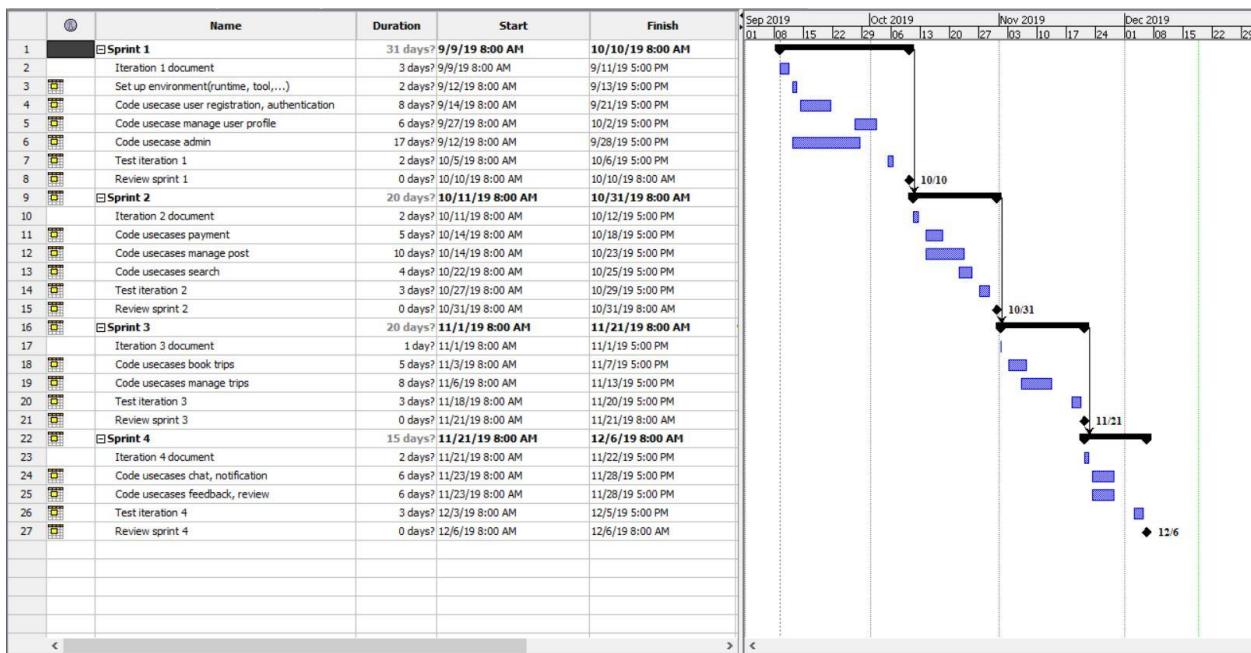
2.2.4 Tools and techniques

IDEs	Visual Studio Code, IntelliJ
Project management tools	Asana, ProjectLibre
Document tools	Microsoft Office
UML tools	Draw.io
Design tools	Figma.com
Testing tools	Postman, Swagger
Communication tools	Skype, Facebook, Phone
Deployment server	Postgresql, MongoDB
Database management tools	pgAdmin4, MongoDB Compass
Source code version control	Github
File management tools	Google Drive

2.3 Project Management Plan

2.3.1 Project schedule

We use ProjectLibre for project management. Project has **4 sprints**. Each iteration of development cycle take about 15 days. Refer to “findGuider.pod”



2.3.2 Meeting minutes

Within 15 weeks from 9/9/2019 to 13/12/2019, team has meeting with supervisor 15 times on every Thursday. Meeting minutes are written for any meeting. The following template is used:

Project	Travel with Locals	Date of meeting	17/10/2019
Secretary	Phạm Tùng Dương	Location	Hòa Lạc, room 403L Alpha building
Attendance			
Đàm Trọng Duy _ supervisor Phạm Tùng Dương Hoàng Hải Trần Hoàng Long Nguyễn Đức Dũng Nguyễn Gia Đăng			
Absent			
Objectives			
1. Review công việc tuần trước 2. Nêu ra các khó khăn gặp phải 3. Thông nhất một số nghiệp vụ 4. Phân chia công việc tuần tiếp theo			

Meeting content			
No	Issue	Assignee	Solution
1	Review công việc tuần vừa qua	All team	
2	Thời gian phản hồi của Guider	Phạm Tùng Dương	Trong vòng 5 tiếng sau khi Traveler book
3	Unit test cho repository coverage < 50%	Hoàng Hải	Viết DB connection riêng cho unit test
4			
5			

2.4.3 Risk management plan

Issue management

No	Name Issue	Solution
I1	Conflict among members	The project manager has to find out the root that caused the problem. Give solution among choices: team meeting, individual meeting, consulting supervisor, team building...
I2	A member is absent	Always have a emergency backup plan, re-assign task to recover pending workload, have a post-accident action.
I3	Members is over confident	Keep transparency of project progress, say that team was behind the plan if necessary.
I4	Team member lack of skills needed for project	Team member help each other combine self learning. Re assign if necessary

Risk management

No	Risk description	Category	Root cause	Avoidance plan	Impact

R1	Poor defining scope, ambiguous definition	Scope	Poor business analysis	Team meeting, consult supervisor, investigate solution of similar system	High
R2	Low motivation among team member	Organizational	The work is at a standstill	Create team building activity	High
R3	Have a technical block path or unfixable bug	Technical	Lacking experience of technical.	Consult supervisor, find alternative technology	High
R4	Requirement changed while project is being processed	Scope	Different opinion between team member while implementing	Team meeting and consult supervisor to consider change.	Medium
R5	Team member misunderstands requirement	Scope	Poor communicate process	discuss with BA, read requirement specification carefully	Low
R6	Fail for estimating iteration time	Time	Lacking of predict work process	Working overtime to keep up work	Medium

Risk probability and impact

Probability	High		R6	R2
	Medium	R5	R4	R1
	Low			R3
		Low	Medium	High
	Impact			

The probability and impact of occurrence for each identified risk will be assessed by the project manager using the following approach:

- **Probability:**
 - High – Greater than 70% probability of occurrence.
 - Medium – Between 30% and 70% probability of occurrence.
 - Low – Below 30% probability of occurrence.
- **Impact**
 - High – Risk that has the potential greatly impact project cost, schedule or performance.
 - Medium - Risk that has the potential to slightly impact project cost, schedule or performance.
 - Low - Risk that has relatively little impact project cost, schedule or performance.

Closing Risk

Risk should be closed in these cases:

- When time of a risk happening is over.
- When the scope of a project is amended, and a risk become avoided.
- When the risk is solved.

2.4.4 Communication plan

Member information

No	Name	Position	Contact information
1	Đào Trọng Duy	Supervisor	DuyDT@fe.edu.vn 0983204196
2	Phạm Tùng Dương	Project manager	DuongPTSE05022@fpt.edu.vn 0389673685
3	Trần Hoàng Long	Developer	LongTHSE04935@fpt.edu.vn 0969449743
4	Nguyễn Gia Đăng	Tester	DangNGSE05100@fpt.edu.vn 0522705486
5	Nguyễn Đức Dũng	Developer	DungNDSE05558@fpt.edu.vn 0911780948
6	Hoàng Hải	Developer	HaiHSE05793@fpt.edu.vn 0357132244

Project report and meeting

No	Activity	Stakeholder	Time	Description
1	Weekly report	• Supervisor • Team member	Thursday	• Report state of project • Review status base on week report • Plan for next week
2	Daily meeting	• Team member	Daily	• Review status of working task

Project communication

No	Communication type	Description
1	Weekly meeting	We spend one day a week for meeting with supervisor to report, review and find solution for the project.
2	Working in group offline	Every week, we meet on Tuesday and Sunday to exchange idea, information and
3	Communication channel	Our main communication is face to face meeting, Facebook messenger, Skype

2.4.5 Coding convention

The following coding conventions provide an overall look at the code. They help project to improve readability, maintenance abilities and code more easily

No	Style	Implementation component
1	React/jsx	Web application
2	Java(spring)	Backend

Chapter 3: Software Requirements Specification

3.1 Purpose

This chapter outline use case to clarify how user interact with system, functional and non-functional of our system. It includes the business process flow diagram, state transition, and use case detailed description of this system. All members will work base on the information provide on this chapter.

3.2 User Requirement Specification

3.2.1 System overview

Keyword explanation

Term	Definition
Guest	a person using TWL system without a registered account
Traveler	a person using TWL system with a registered account as Traveler, Traveler go to TWL website to find a Guider
Guider	a person using TWL system to create post, introduce themselves to Traveler
Post	a page that contain information of a trip including location, duration, agenda, included services, fee, brief title, detail description, introduce video, images
Trip	services which Guider promises to provide to Traveler in specific times and places. In TWL website, a booked trip have 4 status: WAITING, ONGOING, FINISHED, CANCELLED
WAITING	status mark that a booked trip have not been accepted by Guider
ONGOING	status mark that a booked trip have been accepted by Guider
FINISHED	status mark that a booked trip have taken place
CANCELLED	status mark that a booked trip have been cancelled by Guider or Traveler

TWL Website:

- **Guest:** Guest is a person using TWL system without a registered account.
 - Guiders registration
 - Travelers registration
 - View list of Guiders
 - View post information of Guiders
 - Search for Guiders
 - Search for posts

- **Traveler:** Traveler is a person using TWL system with a registered account to contact with Guider, Traveler has all functions of Guest
 - Login/logout
 - Manage profile
 - Save favorite posts
 - Communicate with Guiders
 - Book trips
 - Pay for their trips
 - Manage their trips
 - Cancel their trips
 - Review and rate after trips
 - Receive notification
- **Guider:** Guider is a person using TWL system to create posts for Traveler browse, Guider has all functions of Guest
 - Login/logout
 - Manage profile
 - Add and manage trips information
 - Communicate with Travelers
 - Cancel booked trips
 - Manage trips
 - Review travelers
 - View revenues
 - Receive notification

TWL Administrator Website:

- **Admin** Administrator is a person or an organization using TWL Administration Website to create and manage everything of Traveler, Guider.
 - Management member account
 - View statistics
 - Login/logout
 - View, hide comment
 - Manage guiders credentials document

3.3 System Requirement Specification

User Interfaces

- Text in system is written in English.

- All error occurring and exception handling will be catch and display for user with friendly messages.

Hardware Interfaces

- The System must run over the internet, all the hardware shall require to connect the internet will be the hardware interface for the system. E.g. Modem, Ethernet Cross-cable, ...

Software Interfaces

- The system run on any platform/operating system that support Chrome browser.

Communication Protocols

- The website is communicated with web service by Http request.

3.4 Functional Requirement

3.4.1 Use case diagram

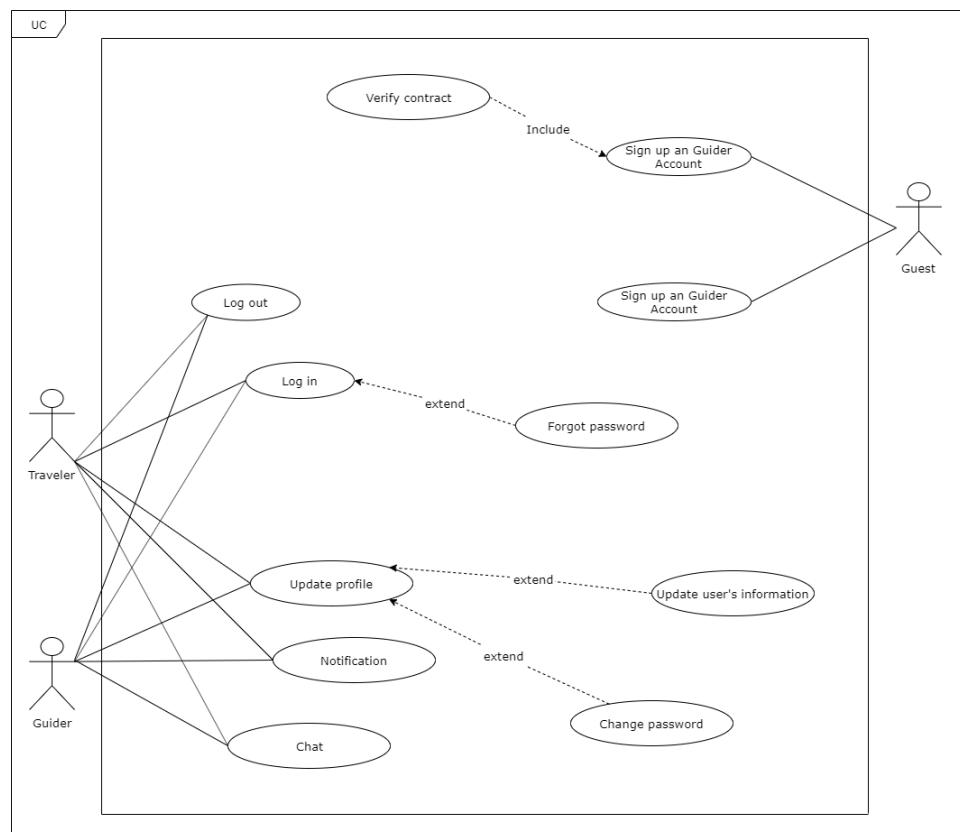


Figure 3-1. Use case of General function

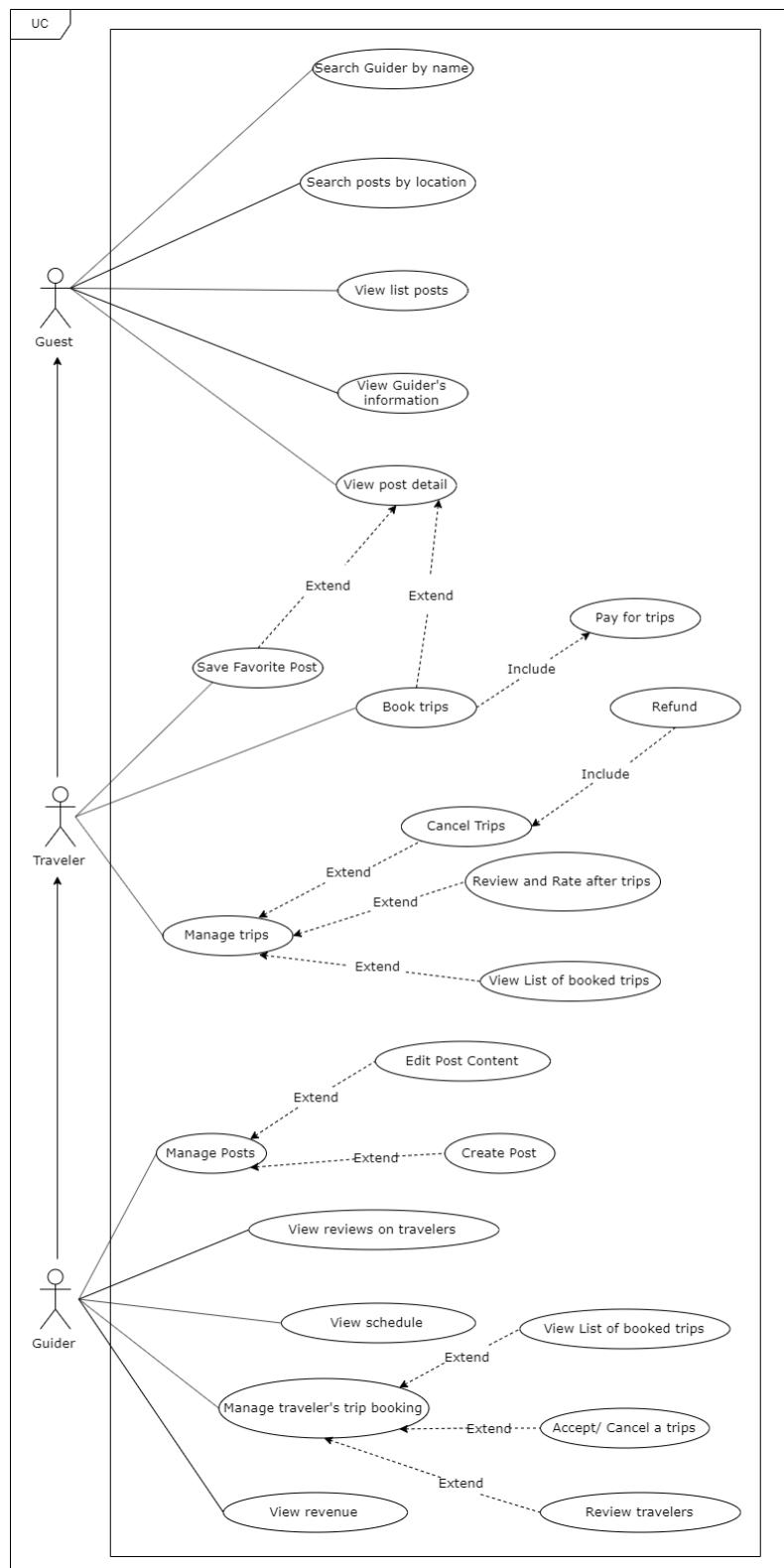


Figure 3-2. Use case of Traveler and Guider function

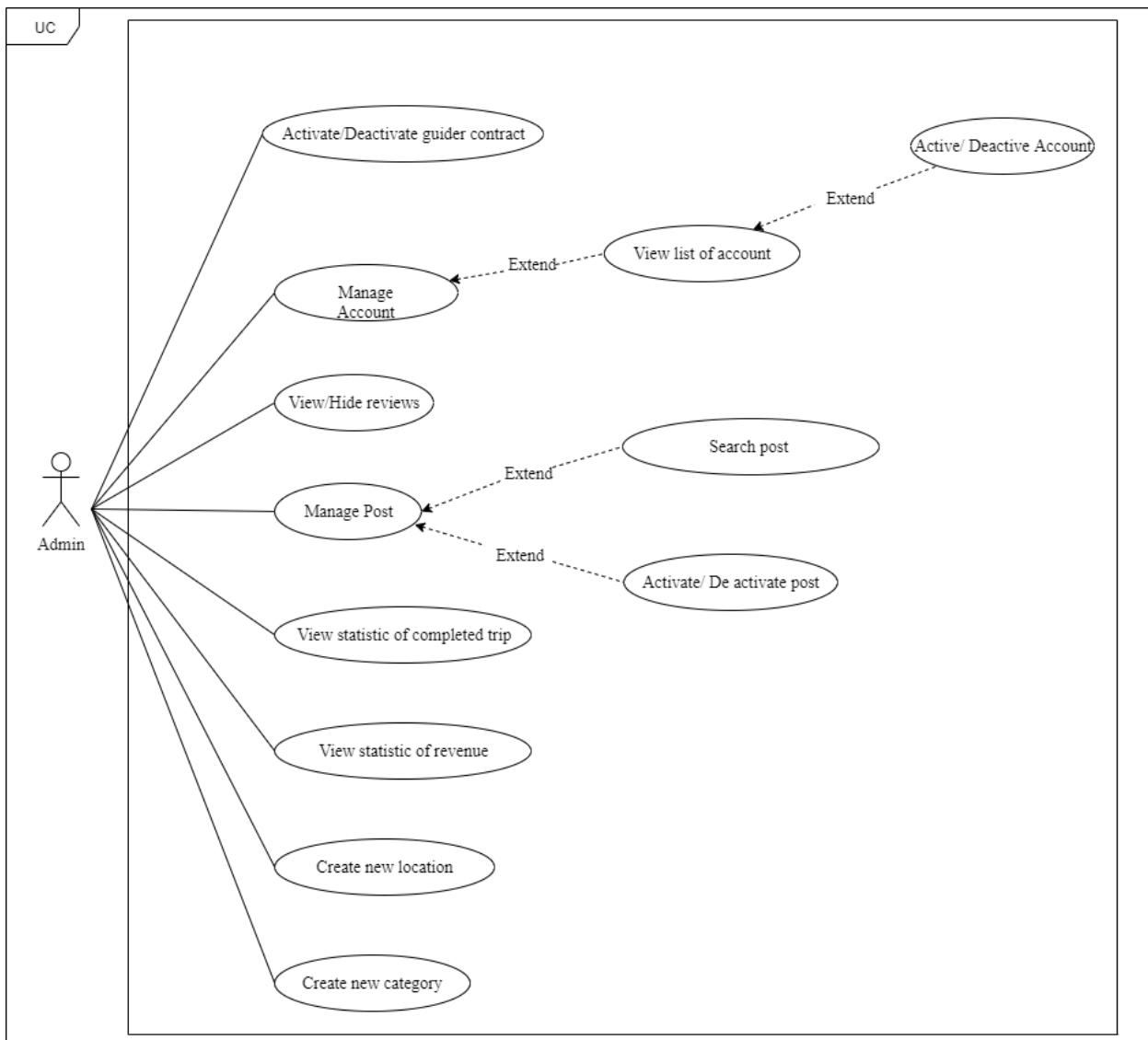


Figure 3-3. Use case of Admin function

3.4.2 Use case list

Use case No.	Function	Actor
UC-01	Sign up an traveler account	Guest
UC-02	Sign up an guider account	
UC-03	Forgot password	Traveler, Guider
UC-04	Log in	Guider, Traveler, Admin
UC-05	Receive Notification	Guider, Traveler
UC-06	Search for guiders	Guest, Guider, Traveler

UC-07	Search for post	
UC-08	View list of post of one guider	
UC-09	View list of post of one category	
UC-10	View detail of one post	
UC-11	Change password	
UC-12	Log out	Guider, Traveler, Admin
UC-13	Add post	
UC-14	Edit post content	
UC-15	Edit guider profile	
UC-16	View list of booked trip	
UC-17	Chat with traveler	
UC-18	Manage trip	Guider
UC-19	View reviews on requesting travelers	
UC-20	Accept/Cancel a trip	
UC-21	View trip schedule	
UC-22	Review travelers	
UC-23	View statistic of revenue	
UC-24	Edit traveler profile	
UC-25	Chat with guider	
UC-26	Book a trip	
UC-27	Make payment	
UC-28	View list of booked trip	Traveler
UC-29	Cancel a trip	
UC-30	Review and rate after trip	
UC-31	Save favorite post	
UC-32	Accept/Deactivate guider contract	
UC-33	View/Hide reviews	
UC-34	View list of Account	
UC-35	Active/ Deactivate Account	
UC-36	Create new location	
UC-37	Create new category	Admin
UC-38	Search post	
UC-39	Active/ De activate Post	
UC-40	View statistic of total completed trip	
UC-41	View statistic of total revenue	

3.4.3 Business rule repository

3.4.3.1 Business Rules:

No	Description
BR-01	Each account name is the only one
BR-02	One account could only be assigned to only one role
BR-03	Guiders after registration have to wait response from
BR-04	Guider only be able to log in to TWL website after their contract verified
BR-05	Only Guider can create posts
BR-06	Only Traveler can book trips
BR-07	Guider payment is assigned to other department
BR-08	Traveler must submit all required information to be able to book trips
BR-09	Maximum number of people join in trip is 8 people
BR-10	Fee for a child equals 50% fee of one adult
BR-11	Traveler must confirm all term and policy before make payment to TWL system
BR-12	Guider can review Traveler after finish their trips
BR-13	Traveler can review Guider after finish their trips
BR-14	Traveler's review on Guider can not be modified
BR-15	All Guider's accepted trip can not have any intersection in time
BR-16	When Guider cancel an accepted trip, Guider contribution point will be reduced, TWL system will refund 100% fee to Traveler
BR-17	Traveler that cancel a booked trip 24 hours after beginning time of that trip will not be refunded at all
BR-18	Traveler that cancel a booked trip 24 hours before begin time of that trip will be refunded 100% fee
BR-19	TWL take 10% on total fee of a finished trip
BR-20	Every hour TWL system will automatically refuse trip that do not be accepted within past 5 hours, Traveler will be refunded 100% fee
BR-21	Every day TWL system will automatically check all finished trips in the day before to update Guider's contribution point
BR-22	Every month TWL system will automatically check number of trips completed in month of Guiders to bonus or reduce Guider's contribution point

3.4.3.2 Validation Rules:

No	Description
BL-01	The field cannot be empty
BL-02	Password must be at least 8 characters
BL-03	Email must have format xxxx@xxx.xxx.xx
BL-04	Traveler can not book trips in the past date

BL-05	All Guider's accepted trip can not have any intersection in time
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3.4.4 Use cases Specifications

3.4.2.1 Sign up a traveler account



Use case – UC-01 – Specification			
Use case No.	UC-01	Use case version	V1.3
Use case name	Sign up a traveler account		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	Guest	Secondary actor	N/A
Description	Allows Guest to register a new traveler account then they can use the privileges of traveler, which include: booking trips, payment for trip, review and rate after trip, manage trips,...		
Pre-condition	Guest visits the website		
Post-condition	Register successfully, a new traveler account has been created on the system, you can use as a traveler and have travelers' access rights		
Trigger	Click on button “Sign up” on the top-right of website then select “Traveler” and fill information, click on button “Join With Local”		

Main flow:

No	Actor events	System respond
1	Click on button “Sign Up” on the top-right of website	
2		Show form register
3	Select “Traveler” at Drop down list in the middle of form register Guest fills “User name”, “Password”, “Re password”, “Email” Click on button “Join With Locals” below Drop down list	
4		<ul style="list-style-type: none"> Show pop-up “Please, click the link in the email we send you to complete sign up” Redirect to home page

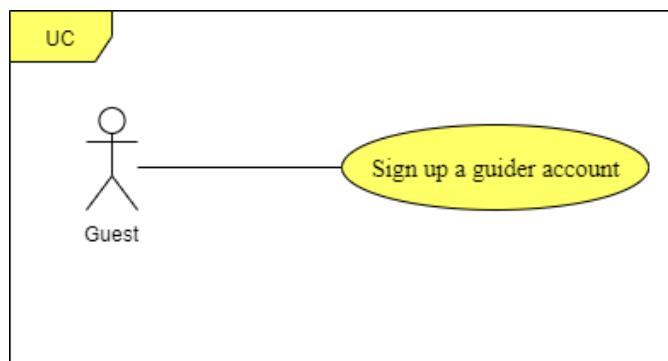
Alternative flow: N/A

Exception flow:

No	Exception flow
1	A message “User name has been used, please choose another name!!!” is displayed when user name has existed.

Business Rules: [BL-01](#), [BL-02](#), [BL-03](#), [BR-01](#), [BR-02](#)

3.4.2.2 Sign up a guider account



Use case – UC-02 – Specification

Use case No.	UC-02	Use case version	V1.3
Use case name	Sign up a guider account		
Author	Nguyen Gia Dang		

Date	10/9/2019	Priority	Medium
Primary actor	Guest	Secondary actor	N/A
Description	Allows Guest to register a new guider account then they can use the privileges of a guide, which include: create a post, accept/cancel request booking from travelers, edit post, manage trip,...		
Pre-condition	Guest visits the website		
Post-condition	Register successfully, a new traveler account has been created on the system		
Trigger	Click on button "Sign up" on the top-right of website then select "Guider" and fill information, click on button "Join With Local"		

Main flow:

N o	Actor events	System respond
1	Click on button "Sign Up" on the top-right of website	
2		Show form register
3	Select "Guider" at Drop down list in the middle of form register Guest fills "User name", "Password", "Re password", "Email" Click on button "Join With Locals" below Drop down list	
4		Redirect to create contract page
5	Fill "Full name", "Hometown", "Address", "Identity card number", "Issued date", "Nationality", "Birth", "Issued State". Upload image in field "Identity Card", "Tour Guide License", "Foreign languages Certificate". Read Term and Condition then click on "I agree all terms and conditions". Click on "Submit" button.	
6		Show pop-up "We have

		received your request. We will contact you soon via your email”
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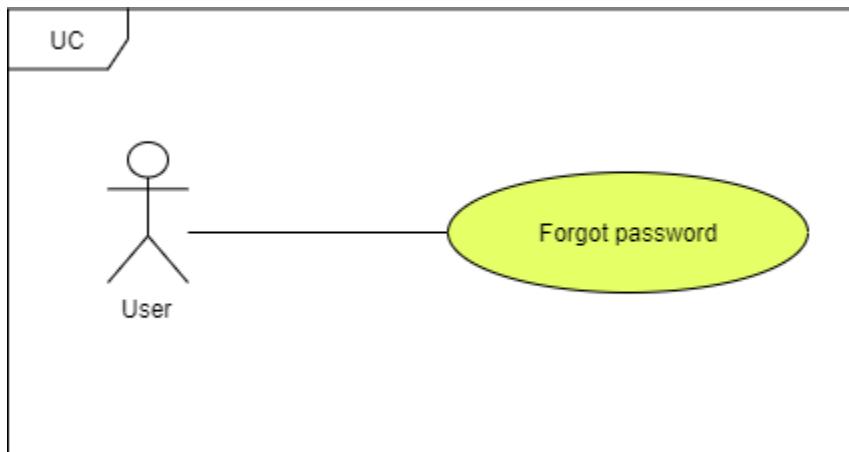
Alternative flow: N/A

Exception flow:

No	Exception flow
1	A message “Account name has existed, please choose another name!!!” is displayed when your name or password was incorrect.

Business Rules: [BL-01](#), [BL-02](#), [BL-03](#), [BR-01](#), [BR-02](#), [BR-04](#)

3.4.2.3 Forgot password



Use case – UC-03 – Specification			
Use case No.	UC-03	Use case version	V1.3
Use case name	Forgot password		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	User (Traveler, Guider)	Secondary actor	N/A
Description	Allows users to reset passwords again when they have forgotten or lost passwords. Users need to have basic account information to be able to reset the password, which include: phone number		
Pre-condition	User visits the website		
Post-condition	Successful password reset, new password will be saved to the website		
Trigger			

Main flow:

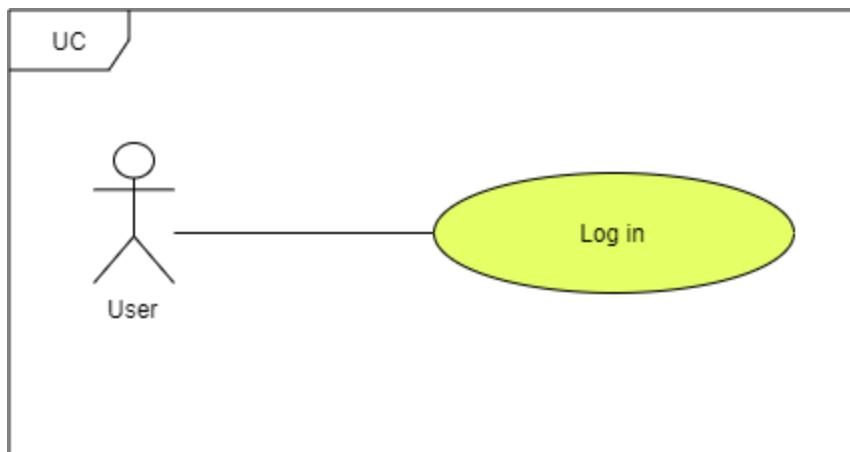
No	Actor events	System respond
1	Click on button "Login" on the top-right of website	
2		Show form Login
3	Click on link "Forgot password" at the bottom	
4		Show form Forgot password
5	Fill "Email" Click "Send new password"	
6		Show message "Check your new password in your email". Redirect to Login page

Alternative flow: N/A**Exception flow:**

No	Exception flow
1	A message "Email not found, please enter the email you use for registration" is displayed when your name or password was incorrect.

Business Rules: [BL-01](#), [BL-03](#)

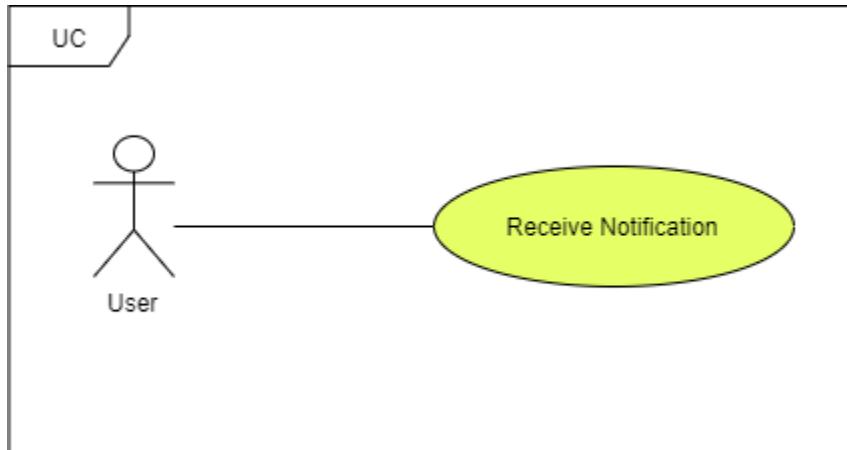
3.4.2.4 Login



Use case – UC-04 – Specification			
Use case No.	UC-04	Use case version	V1.3
Use case name	● Login		
Author	Nguyen Gia Dang		
Date	11/9/2019	Priority	Medium
Primary actor	User(Traveler, Guider, Admin)	Secondary actor	N/A
Description	Allows Guest login to website, when they login to website they can use function with their account. If they are a traveler, they can use the function of traveler and guider can use the function of guider		
Pre-condition	Guest visits the website		
Post-condition	Guest login to system and they can use website with many functions		
Trigger	Click on button “Login” on the top-right of website then fill information and click on button “Login”		
Main flow:			
No	Actor events	System respond	
1	Click on button “Login” on the top-right of website		
2		Show form Login	
3	Fill the email and password to the textbox at the middle of the screen Click on button “Login” below the textbox		
4		Redirect to home page	
Alternative flow: N/A			

Exception flow:

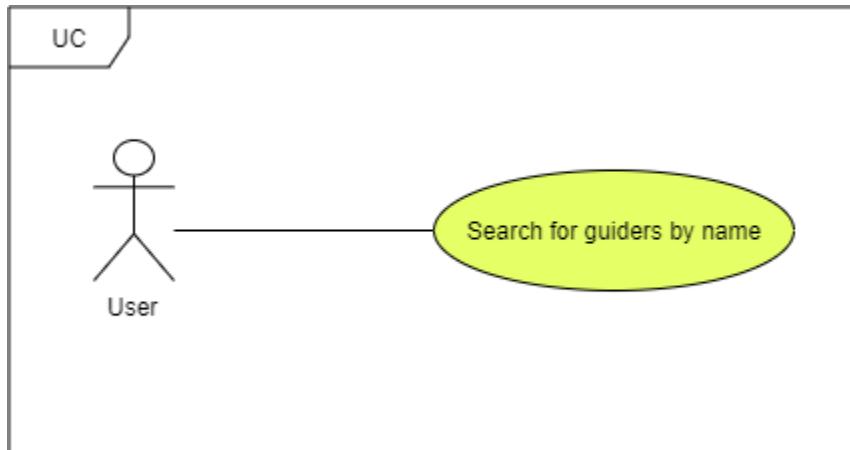
No	Exception flow
1	A message “Your name or password was incorrect, please enter again!!!” is displayed when your name or password was incorrect.

Business Rules: [BL-01](#)**3.4.2.5 Receive Notification****Use case – UC-05 – Specification**

Use case No.	UC-05	Use case version	V1.3
Use case name	Receive Notification		
Author	Nguyen Gia Dang		
Date	20/11/2019	Priority	Medium
Primary actor	User(Guider, Traveler)	Secondary actor	N/A
Description	Allows user receive notification, there are many types of notifications, which include: message notification, trip notification, notification of admin, ...		
Pre-condition	User has logged in to the website		
Post-condition	Notifications are displayed to users		
Trigger			
Main flow: N/A Alternative flow: N/A Exception flow: N/A			

Business Rules: N/A

3.4.2.6 Search for guiders



Use case – UC-06 – Specification			
Use case No.	UC-06	Use case version	V1.3
Use case name	Search for guiders by name		
Author	Nguyen Gia Dang		
Date	11/10/2019	Priority	Medium
Primary actor	User(All actors)	Secondary actor	N/A
Description	Allow Users to search information of posts by their name (a post acts like an agenda of trip, which include: the place/location going to be visited, time,...)		
Pre-condition	User visits the website		
Post-condition	Information of guiders which are matched keywords is displayed to users such as name and a picture of guider.		
Trigger	Click on Search bar on the top left of website and select “Guider”		

Main flow:

No	Actor events	System respond
1	Fill the location name to the textbox on search bar then select “Guiders” and then button “Search”	
2		Display information of all Guiders which account name or full name contains entered keywords

Alternative flow: N/A

Exception flow:

No	Exception flow
1	A message “Sorry we did not find the name of your search” is displayed when there is no post which is matched entered location name.

Business Rules: N/A

3.4.2.7 Search for post



Use case – UC-07 – Specification

Use case No.	UC-07	Use case version	V1.3
Use case name	Search posts by location name		
Author	Nguyen Gia Dang		
Date	11/10/2019	Priority	Medium
Primary actor	User(All actors)	Secondary actor	N/A
Description	Allow Users to search information of posts by their locations/places (a post acts like an agenda of trip, which include: the place/location going to be visited, time,..)		
Pre-condition	User visits the website		
Post-condition	Information of posts which are matched keywords is displayed to users such as post title, description, duration, fee/price - fee		
Trigger	Click on Search bar on the top left of website and select “location”		

Main flow:

No	Actor events	System respond
1	Fill the location name to the textbox on search bar then select “Location” and	

	then button “Search”	
2		Display information of all posts which have location match entered location name

Alternative flow: N/A

Exception flow:

No	Exception flow
1	A message “Sorry we did not find any trip within location you want” is displayed when there is no post which is matched entered location name.

Business Rules: N/A

3.4.2.8 View list of post of one guider



Use case – UC-08 – Specification			
Use case No.	UC-08	Use case version	V1.3
Use case name	View list of post of one guider		
Author	Nguyen Gia Dang		
Date	12/10/2019	Priority	Medium
Primary actor	User(All actors)	Secondary actor	N/A
Description	Allows User to view list post of selected guider		
Pre-condition	User visits the website and login		
Post-condition	Display list post of one guider (all post, some simple information: post title, post image, fee...)		
Trigger	Click on a guider you want to see list post of them		

Main flow:

No	Actor events	System respond
1	Click on a guider you want to see list post of them	
2		<p>Display all post of guider you want to see, including some simple information of each post:</p> <ul style="list-style-type: none"> • Post title • Post image • Post description • See rate of post • Name of guider • Fee ...

Alternative flow: N/A**Exception flow:** N/A**Business Rules:** N/A**3.4.2.9 View list of post of one category****Use case – UC-09 – Specification**

Use case No.	UC-09	Use case version	V1.3
Use case name	View list of post of one category		
Author	Nguyen Gia Dang		
Date	12/9/2019	Priority	Medium
Primary actor	User(All actors)	Secondary actor	N/A

Description	Allows User to view list post of selected category
Pre-condition	User visits the website and login
Post-condition	Display list post of one category (all post, some simple information: post title, post image, fee...)
Trigger	Click on a category you want to see list post of them

Main flow:

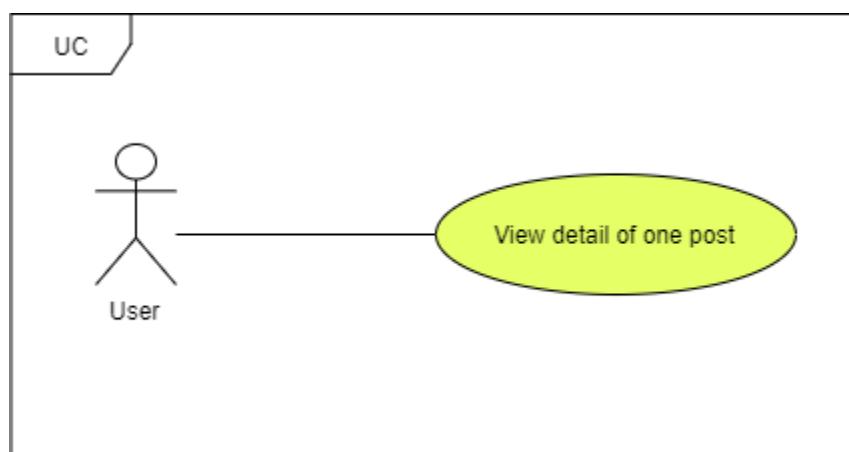
No	Actor events	System respond
1	Click on a category you want to see list post of them	
2		<p>Display all post of category you want to see, including some simple information of each post:</p> <ul style="list-style-type: none"> • Post title • Post image • Post description • See rate of post • Name of guider • Fee ...

Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.10 View details of one post



Use case – UC-10 – Specification

Use case No.	UC-10	Use case version	V1.3
Use case name	View details of one post		

Author	Nguyen Gia Dang		
Date	10/10/2019	Priority	Medium
Primary actor	User(All actors)	Secondary actor	N/A
Description	Allows User to view information of selected post		
Pre-condition	User visits the website		
Post-condition	Display all information of selected post (include: post title, post description, fee, duration,...)		
Trigger	Click on a post		

Main flow:

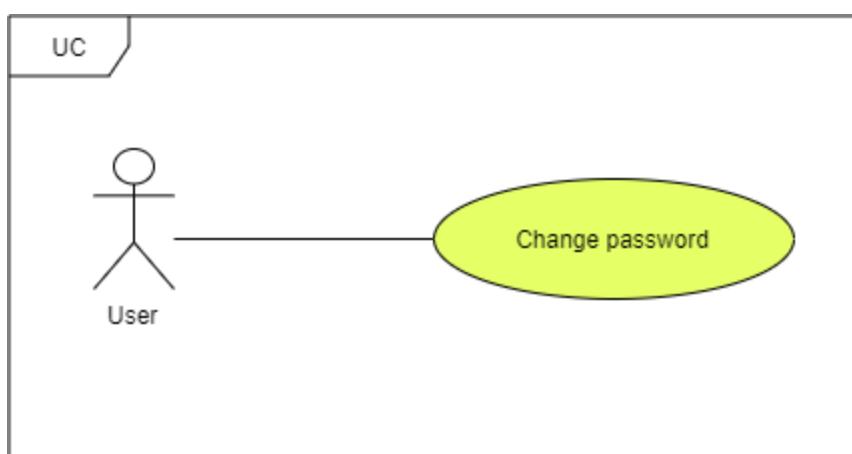
No	Actor events	System respond
1	Click on a post	
2		<p>Display information of selected post, including:</p> <ul style="list-style-type: none"> Post title Post image, video Post description Fee Duration See review, rate of post

Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.11 Change password



Use case – UC-11 – Specification

Use case No.	UC-11	Use case version	V1.3
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Use case name	Change password		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	User (Traveler, Guider)	Secondary actor	N/A
Description	Allows users change their account password		
Pre-condition	User visits the website and login		
Post-condition	User password is updated		
Trigger	Click on avatar menu at the top-right of website then select item "Change password" in the Menu Selected		

Main flow:

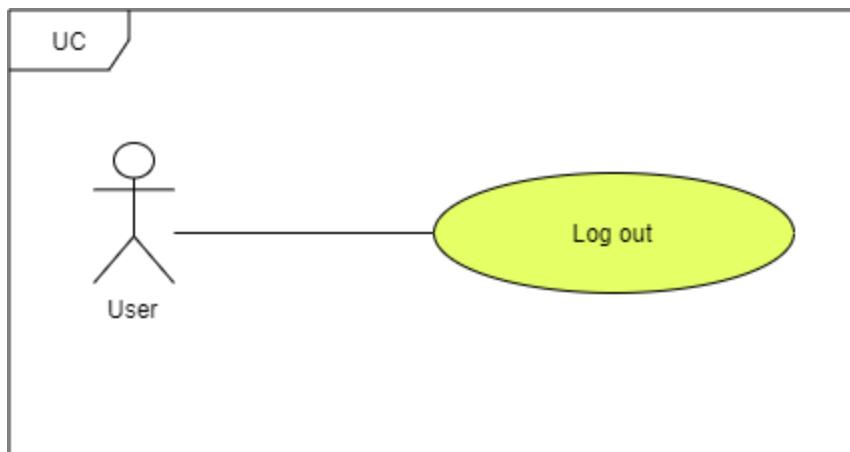
N o	Actor events	System respond
1	Click on avatar menu at the top-right of website	
2		Display menu selected
3	Select item "Change password" in the Menu Selected	
4		Redirect to Change password page
5	Fill text box "old password", "new password", "confirm new password" Click "Submit"	
6		Show message "Your password has been changed successfully"

Alternative flow: N/A

Exception flow: N/A

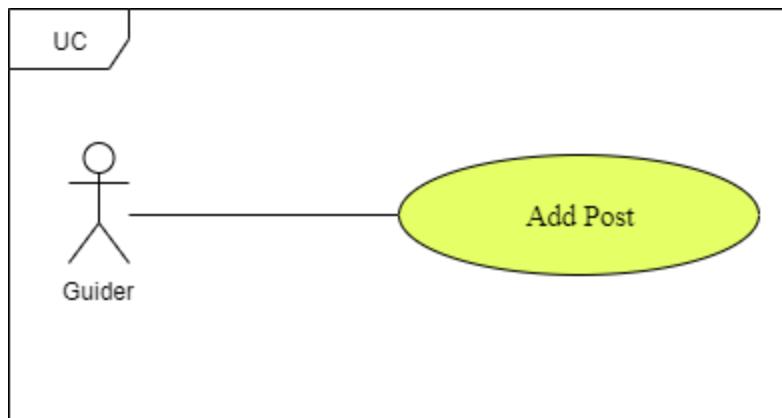
Business Rules: N/A

3.4.2.12 Log out



Use case – UC-12 – Specification					
Use case No.	UC-12	Use case version	V1.3		
Use case name	Log out				
Author	Nguyen Gia Dang				
Date	9/9/2019	Priority	Medium		
Primary actor	User (Traveler, Guider, Admin)	Secondary actor	N/A		
Description	Allows user log out of website				
Pre-condition	User visits the website and login				
Post-condition	Log out of website				
Trigger	Click on avatar menu at the top-right of website then select item “Log out” is the last item in the Menu Selected				
Main flow:					
No	Actor events	System respond			
1	Click on avatar menu at the top-right of website				
2		Display menu selected			
3	Select item “Log out” is the last item in the Menu Selected				
4		Log out account from the website			
Alternative flow: N/A					
Exception flow: N/A					
Business Rules: N/A					

3.4.2.13 Add Post



Use case – UC-13 – Specification

Use case No.	UC-13	Use case version	V1.3
Use case name	Add post		
Author	Nguyen Gia Dang		
Date	10/10/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider add a new post to website, in the new post have information of the trip, which include: name of trip, trip schedule, fee, duration of trip, description ...		
Pre-condition	Guider visit website and login		
Post-condition	A new post has been created and saved in the website then user can see that post and book the trip		
Trigger	Click on Avatar Menu, select item “Manage Post” Select the post want to edit then click on button “Edit” and edit information, click on button “Save” to save information		

Main flow:

No	Actor events	System respond
1	Click on button Avatar Menu on the top-right of website	
2		Show menu item to selection
3	Click on item “Add Post”	
4		Redirect to Add Post page
5	Edit information on textbox then click on button “Create”	

6		Saved the new information of post on website and show popup “Create successfully”
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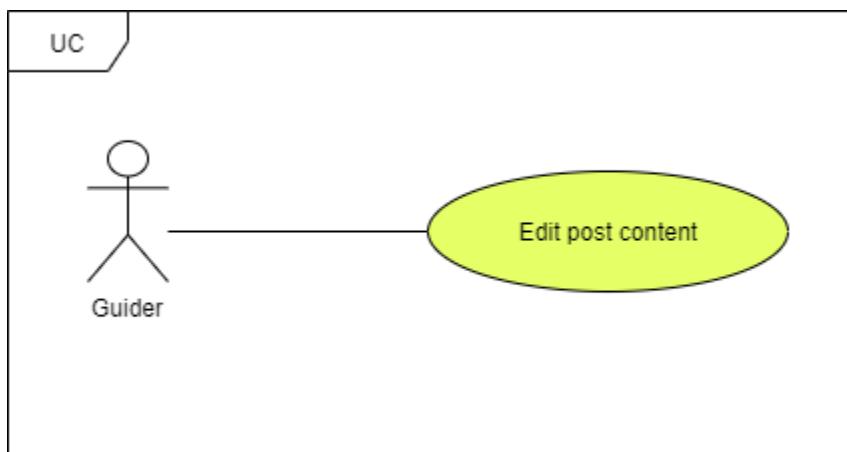
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

Business Rules: [BL-01, BR-05](#)

3.4.2.14 Edit Post Content



Use case – UC-14 – Specification

Use case No.	UC-14	Use case version	V1.3
Use case name	Edit Post Content		
Author	Nguyen Gia Dang		
Date	10/10/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider edit their post, they can edit all information, which include: post title, post image, video, duration, schedule,...		
Pre-condition	Guider visit website and login		
Post-condition	The new information saved after edit selected post		
Trigger	Click on Avatar Menu, select item “Manage Post” Select the post want to edit then click on button “Edit” and edit information, click on button “Save” to save information		

Main flow:

No	Actor events	System respond
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1	Click on button Avatar Menu on the top-right of website	
2		Show menu item to selection
3	Click on item “Manage Post”	
4		Redirect to Manage Post page Show view list post
5	Select the post want to edit	
6		Redirect to Detail Post Page Display all information of the post, which include: title, fee, description, duration,...
7	Click on button “Edit” to edit post	
8		Reload page and display information on each textbox
9	Edit information on textbox then click on button “Save”	
10		Saved the new information of post on website and show popup “Saved successfully”

Extension flow: N/A

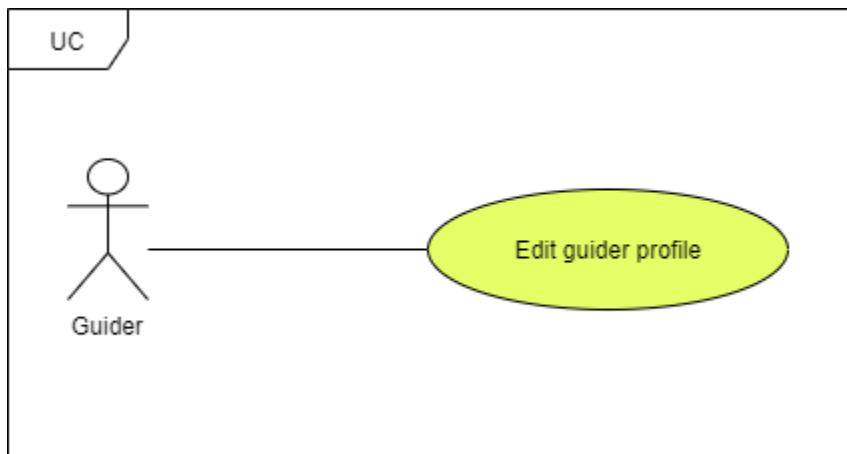
Alternative flow: N/A

Exception flow:

No	Exception flow
1	If Traveler don't have any post, display message “You don't have any post, Please create the first post”

Business Rules: [BL-01](#)

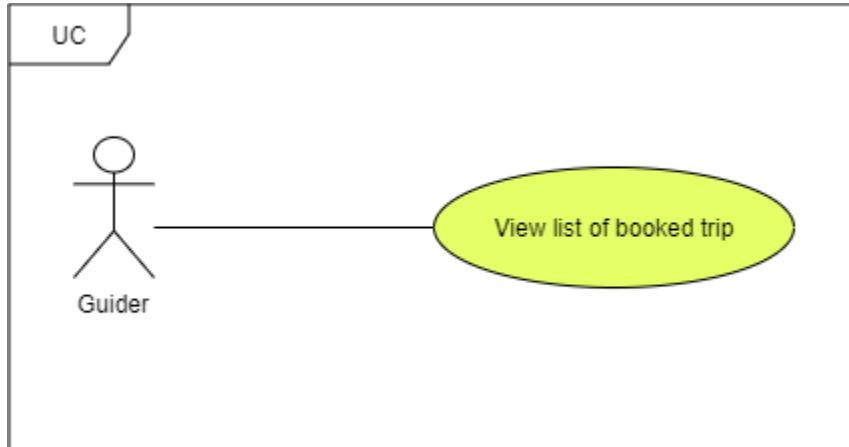
3.4.2.15 Edit guider profile



Use case – UC-15 – Specification			
Use case No.	UC-15	Use case version	V1.3
Use case name	Edit guider profile		
Author	Nguyen Gia Dang		
Date	9/10/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows Guider edit their profile, they can edit all information, which include: name, address, date of birth, phone number,...		
Pre-condition	Guider visit website and login		
Post-condition	The new information saved after edit Profile		
Trigger	Click on Avatar Menu, select item “Edit Profile” Edit information of profile then click on button “Save” to save information		
Main flow:			
No	Actor events	System respond	
1	Click on button Avatar Menu on the top-right of website		
2		Show menu item to selection	
3	Click on item “Edit Profile”		
4		Redirect to Profile page Display all information in profile	
5	Edit information on textbox then click on button “Save”		
6		Saved the new information of profile and show popup “Saved successfully”	

Extension flow: N/A
Alternative flow: N/A
Exception flow: N/A
Business Rules: [BL-01](#)

3.4.2.16 View list of booked trips



Use case – UC-16 – Specification

Use case No.	UC-16	Use case version	V1.3
Use case name	View list of booked trips		
Author	Nguyen Gia Dang		
Date	31/10/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider view list of booked trip, they can see all trip was booked and some simple information of trip, which include: traveler name, start day, fee,...		
Pre-condition	Guider visit website and login		
Post-condition	Display all trip was booked and some simple information of each trips		
Trigger	Click on button “Booking” in navigation bar on top then click on category “Ongoing”		

Main flow:

No	Actor events	System respond
1	Click on button “Booking” in navigation bar on top	

2		Redirect to Manage Page Display all trip on category “Waiting”
3	Click on category “Ongoing”	
4		Display all trip was booked

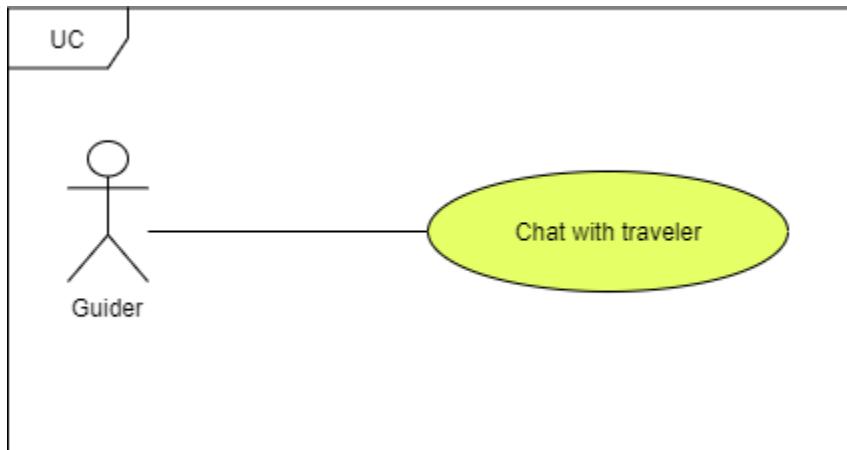
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.17 Chat with traveler



Use case – UC-17 – Specification

Use case No.	UC-17	Use case version	V1.3
Use case name	Chat with traveler		
Author	Nguyen Gia Dang		
Date	21/11/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider to chat with Traveler, they can exchange trip information and answer the question from traveler		
Pre-condition	Guider visits the website and login		
Post-condition	Redirect to Chat page and guider can talk with traveler		
Trigger	Click on button “Message” in the left of the button “Manage” Write for traveler on the textbox then click on button “Send” next to the textbox		
Main flow:			

No	Actor events	System respond
1	Click on button “Message” in navigation bar on top	
2		Redirect to Chat Page Display form Chat
3	Write messages for Traveler on the textbox at the middle-bottom of website then click on button “Send” next to the textbox	
4		The website send message for traveler

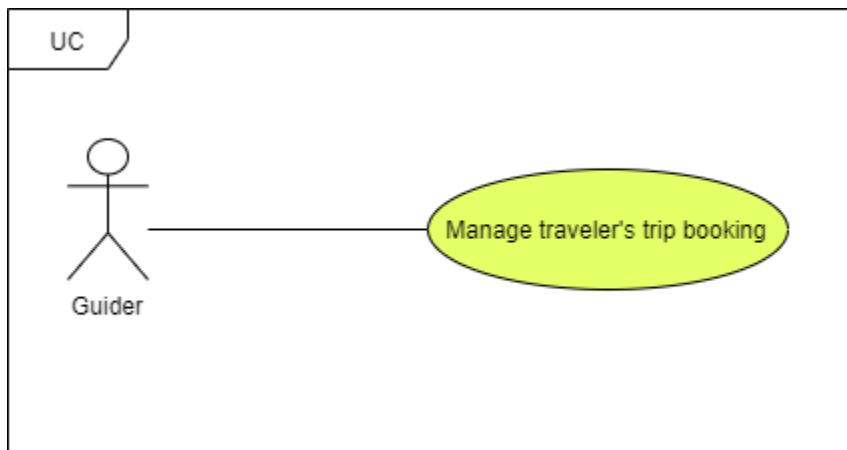
Alternative flow: N/A

Exception flow:

No	Exception flow
1	If you didn't have any previous conversations then click the button “Message”, display message: “You haven't received any messages yet”

Business Rules: N/A

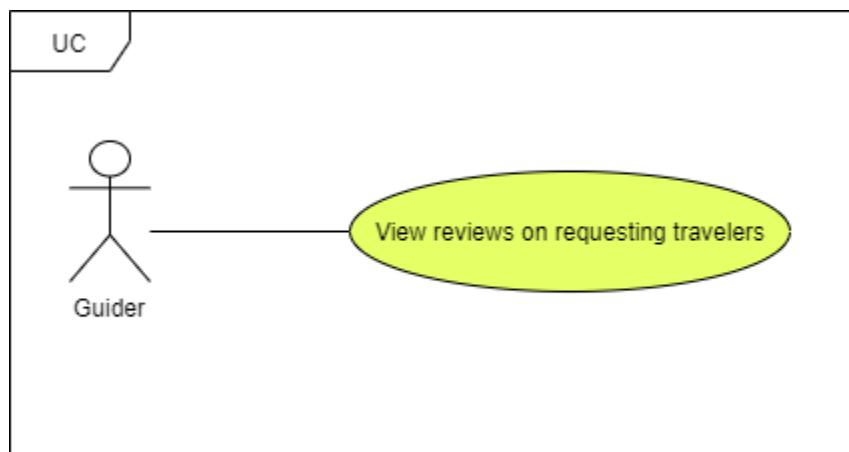
3.4.2.18 Manage trip



Use case – UC-18 – Specification			
Use case No.	UC-18	Use case version	V1.3
Use case name	Manage traveler's trip booking		
Author	Nguyen Gia Dang		
Date	31/10/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A

Description	Allows guider manage list of booked trip, they can see all trip was booked and some simple information of trip, which include: traveler name, start day, fee,..
Pre-condition	Guider visit website and login
Post-condition	Display all trip was booked and divide on each category, which include: waiting, ongoing, finished, canceled
Trigger	Click on button “Booking” in navigation bar on top
Main flow:	
No	Actor events
1	Click on button “Bookings” in the navigation bar on top
2	<p>Redirect to Manage Trip Page</p> <p>Display all trip divide on each category, which include:</p> <ul style="list-style-type: none"> • Waiting: trips was request but didn't accept/cancel • Ongoing: trips was accepted • Finished: trips was finished • Canceled: trips was canceled
Extension flow: N/A	
Alternative flow: N/A	
Exception flow: N/A	
Business Rules: N/A	

3.4.2.19 View reviews on requesting travelers



Use case – UC-19 – Specification			
Use case No.	UC-19	Use case version	V1.3
Use case name	View reviews on requesting travelers		
Author	Nguyen Gia Dang		
Date	31/10/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider view review on travelers, they can improve the trip from the review on traveler		
Pre-condition	Traveler booked trips in posts of Guider		
Post-condition	Display the review from traveler		
Trigger	Click on button “Booking” in navigation bar on top then click on Traveler		

Main flow:

No	Actor events	System respond
1	Click on button “Bookings” in the navigation bar on top	
2		Redirect to Manage Trip Page
3	Click on Traveler’s name in one item in the list of booked trips	
4		Redirect to Traveler page Show all reviews on Traveler

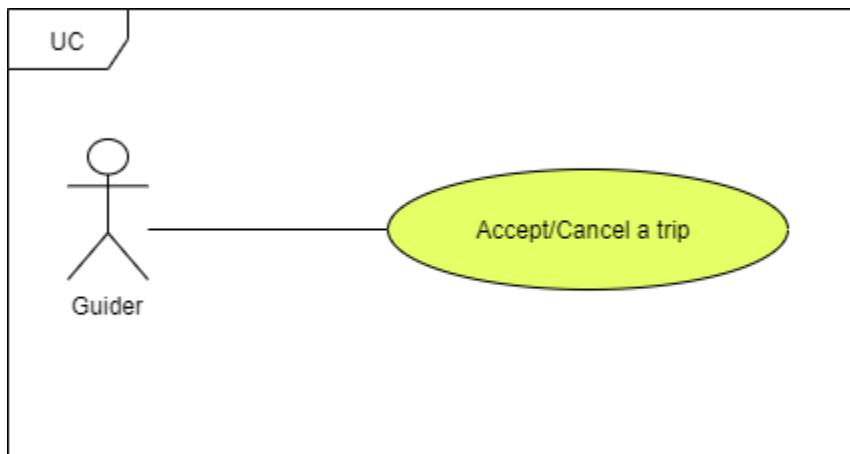
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.20 Accept/Cancel a trip



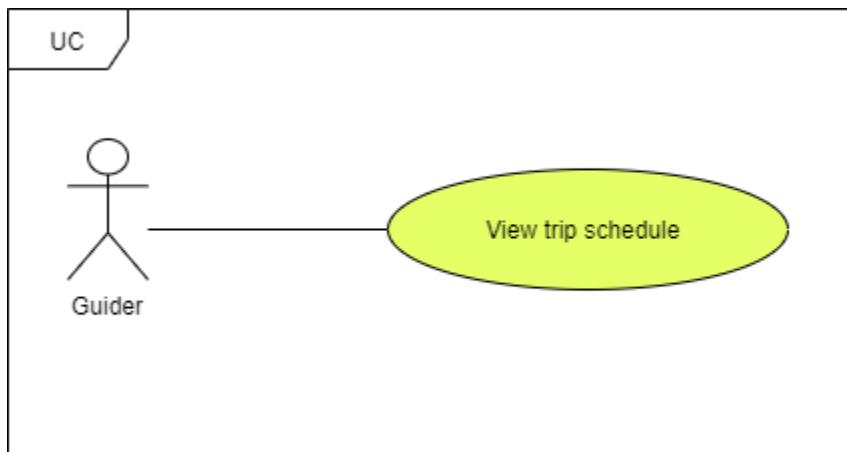
Use case – UC-20 – Specification			
Use case No.	UC-20	Use case version	V1.3
Use case name	Accept/Cancel a trip		
Author	Nguyen Gia Dang		
Date	31/10/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows Guider accept or cancel request booking from traveler, guider have time to check request. If they can guide that trip, they can accept request and vice versa		
Pre-condition	Guider visit website and login		
Post-condition	The website save the request after accept/ cancel trip to manager trip by category “ongoing” or “canceled”		
Trigger	Click on button “Booking” in navigation bar on top then click on button “Accept” or “Cancel” to accept/cancel request		

Main flow:

No	Actor events	System respond
1	Click on button “Bookings” in the navigation bar on top	
2	Choose “Waiting”	Redirect to Manage Trip Page
		Show all waiting booked trips
3	click on button “Accept” or “Cancel” next to each item of waiting booked trips list to accept/cancel books	
4		The request was accepted then go to category “Ongoing” if click on button

		<p>“Accept” The request was canceled then go to category “Canceled” if click on button “Cancel”</p>				
Extension flow: N/A						
Alternative flow: N/A						
Exception flow:						
<table border="1"> <thead> <tr> <th>No</th> <th>Exception flow</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>If Guider didn't have any request booking, display message “You don't have any request”</td> </tr> </tbody> </table> Business Rules: BR-16 , BR-17 , BR-15			No	Exception flow	1	If Guider didn't have any request booking, display message “You don't have any request”
No	Exception flow					
1	If Guider didn't have any request booking, display message “You don't have any request”					

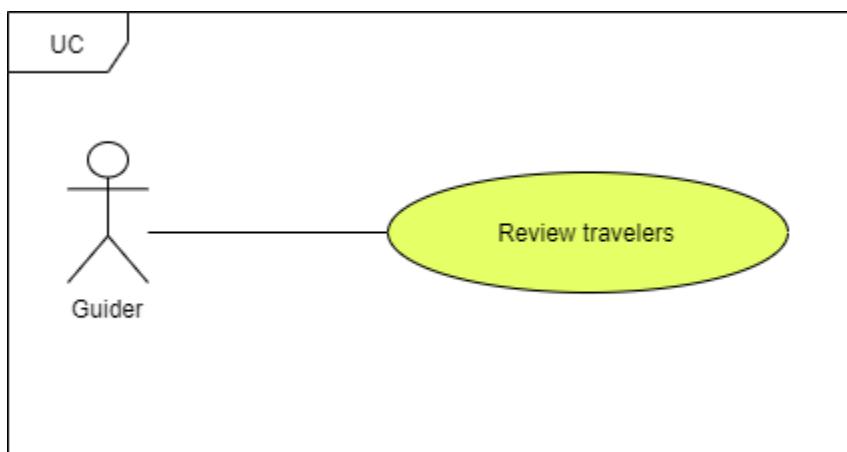
3.4.2.21 View trip schedule



Use case – UC-21 – Specification			
Use case No.	UC-21	Use case version	V1.3
Use case name	View trip schedule		
Author	Nguyen Gia Dang		
Date	1/11/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider view schedule of trips by month		
Pre-condition	Guider visits the website and login		
Post-condition	Display the schedule of the trip in chosen month		
Trigger	Click on a post at Home Page		

Main flow:

No	Actor events	System respond
1	Click on button Avatar Menu on the top-right of website	
2		Show menu item to selection
3	Click on item "Schedule"	
4		Redirect to Schedule page Display all trips in arranged in current week

Alternative flow: N/A**Exception flow:** N/A**Business Rules:** N/A**3.4.2.22 Review traveler****Use case – UC-22 – Specification**

Use case No.	UC-22	Use case version	V1.3
Use case name	Review traveler		
Author	Nguyen Gia Dang		
Date	14/11/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider review and rate traveler after finished trip, they can tell something they feel about traveler when going with them		

Pre-condition	Guider finish trip and visit, login on website
Post-condition	The review and rate was saved on the profile of traveler
Trigger	Click on button “Booking” in navigation bar on top then click on category “Finished” and click on button “Review” at the trip you want to review

Main flow:

No	Actor events	System respond
1	Click on button “Booking” in navigation bar on top	
2		Redirect to Manage Trip Page
3	Click on category “Finished”	
4		Display all trips on category “Finished”
5	Click on button “Review” at the trip you want to review	
6		Display evaluation box
7	Enter your review in the textbox and evaluate the quality of the trip by giving the appropriate number of stars. Click button “Add comment”	
8		The website saved the Review and rate on profile of traveler Display message box “Comment Success”

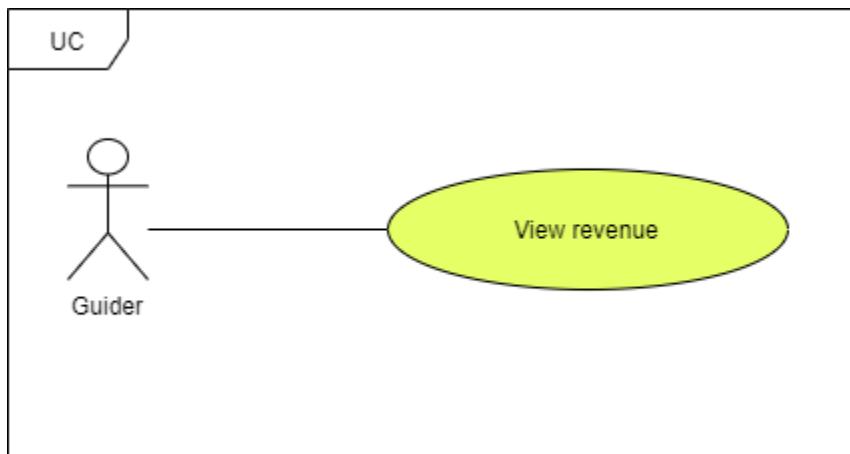
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

Business Rules: [BL-01, BR-12](#)

3.4.2.23 View revenue



Use case – UC-23 – Specification			
Use case No.	UC-23	Use case version	V1.3
Use case name	View revenue		
Author	Nguyen Gia Dang		
Date	14/11/2019	Priority	Medium
Primary actor	Guider	Secondary actor	N/A
Description	Allows guider view revenue of trips in the past then they will see the evolution of them		
Pre-condition	Guider login on website		
Post-condition	Display the revenue of the number of trips in the past		
Trigger	Click on button Avatar Menu on the top-right of website top then click on item “Your income”		

Main flow:

No	Actor events	System respond
1	Click on button Avatar Menu on the top-right of website	
2		Show menu item to selection
3	Click on item “Your income”	
4		Redirect to Revenue page Display all trips in arranged in current week

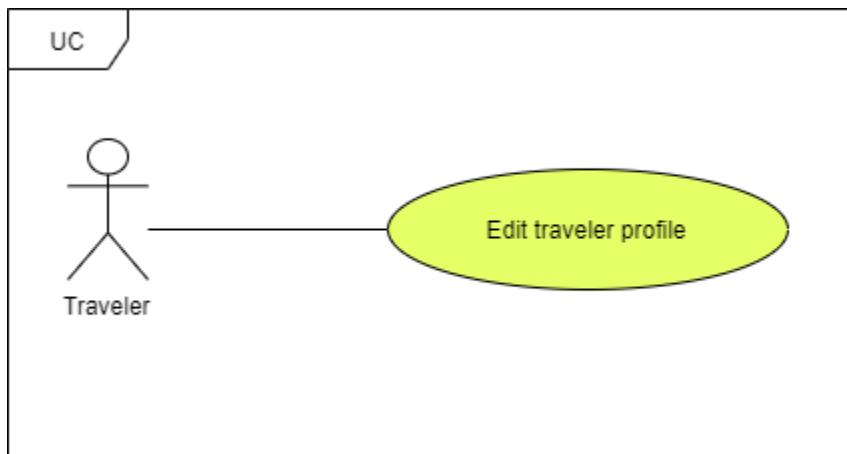
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.24 Edit traveler profile



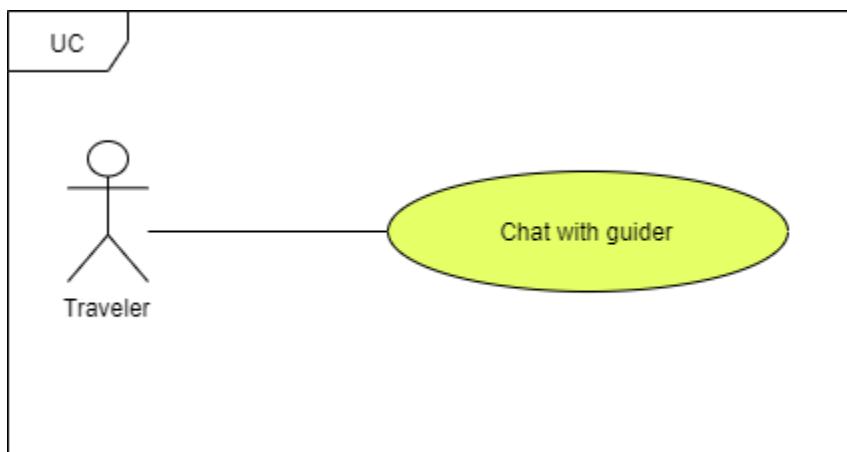
Use case – UC-25 – Specification			
Use case No.	UC-25	Use case version	V1.3
Use case name	Edit traveler profile		
Author	Nguyen Gia Dang		
Date	14/11/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows traveler edit their profile, they can edit all information, which include: name, address, date of birth, phone number,...		
Pre-condition	Traveler visit website and login		
Post-condition	The new information saved after edit Profile		
Trigger	Click on Avatar Menu, select item “Edit Profile” Edit information of profile then click on button “Save” to save information		

Main flow:

No	Actor events	System respond
1	Click on button Avatar Menu on the top-right of website	
2		Show menu item to selection
3	Click on item “Edit Profile”	
4		Redirect to Profile page Display all information in profile
5	Edit information on textbox then click on button “Save”	
6		Saved the new information of profile to

		website and show popup “Saved successfully”	
Extension flow: N/A			
Alternative flow: N/A			
Exception flow: N/A			
Business Rules: BL-01			

3.4.2.25 Chat with guider



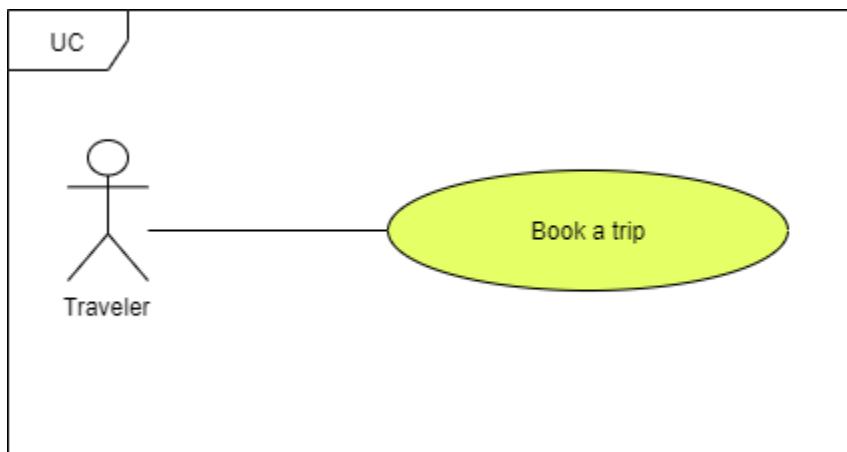
Use case – UC-25 – Specification			
Use case No.	UC-25	Use case version	V1.3
Use case name	Chat with guider		
Author	Nguyen Gia Dang		
Date	21/11/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows Traveler to chat with Guider, they can exchange trip information and ask the question to Guider		
Pre-condition	Traveler visits the website and login		
Post-condition	Redirect to Chat page and Traveler can chat with Guider		
Trigger	Click on button “Booking” in navigation bar on top Write for guider on the textbox then click on button “Send” next to the textbox		

Main flow:

No	Actor events	System respond
1	Click on button “Booking” in	

	navigation bar on top	
2		Redirect to Chat Page Display list of Chat history
3	Click on a conversation	
4		Show chat form
5	Write messages for Guider on the textbox at the middle-bottom of website then click on button "Send" next to the textbox	
6		The website send message for Guider
Alternative flow: N/A Exception flow: N/A Business Rules: N/A		

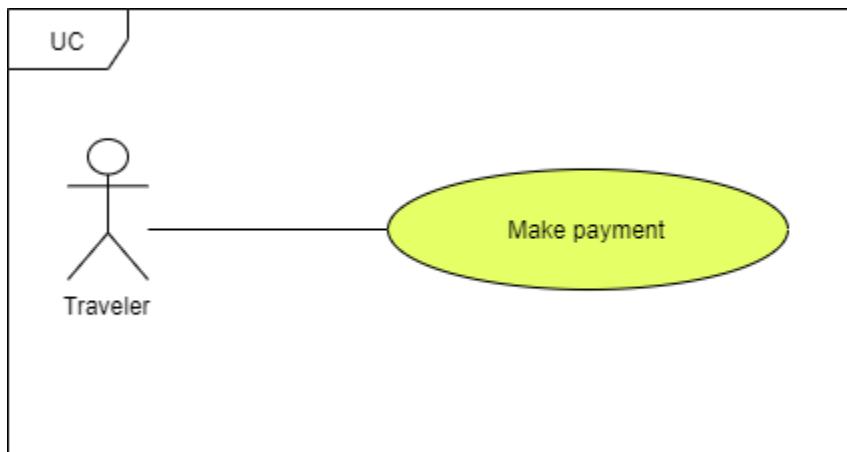
3.4.2.26 Book a trip



Use case – UC-26 – Specification			
Use case No.	UC-26	Use case version	V1.3
Use case name	Book a trip		
Author	Nguyen Gia Dang		
Date	30/10/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows Traveler to order trip, they can book a guider to guide the trip for them on the time they order		
Pre-condition	Traveler visit website and login		
Post-condition	Send request booking trip to guiders then wait the response from		

	guider
Trigger	Click on a post then click on button “Contact me” Select the time and the number of people on the trip then click on button “Book Now” Fill the information on the form then click on button “Book”
Main flow:	
No	Actor events
1	Click on a post
2	
3	Click on button “Come and Join me”
4	
5	Select the time and the number of people on the trip then click on button “Book Now”
6	
7	Fill all information and click on button “Book”
8	
9	Choose the Payment methods and click on button “Book”
10	
Extension flow: N/A	
Alternative flow: N/A	
Exception flow: N/A	
Business Rules: BR-15 , BR-06 , BR-07 , BR-08 , BR-09	

3.4.2.27 Make Payment



Use case – UC-27 – Specification

Use case No.	UC-27	Use case version	V1.3
Use case name	Make payment		
Author	Nguyen Gia Dang		
Date	1/11/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows Traveler connect with Paypal		
Pre-condition	Traveler book in Book page		
Post-condition	They can connect with Paypal for Online Payment		
Trigger	Click on button "Paypal"		

Main flow:

No	Actor events	System respond
1	Click on button "Paypal"	
2		Redirect to Paypal login page
3	Complete payment on Paypal	
4		Redirect to Book page Show message "Transaction succeed"

Extension flow: N/A

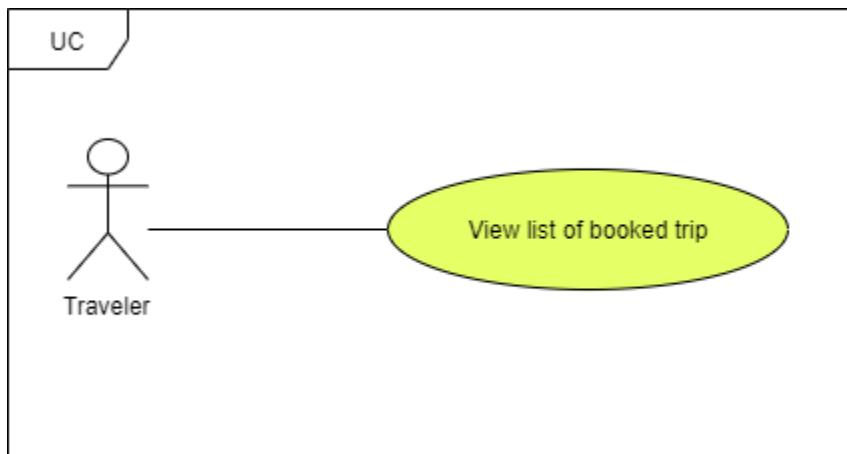
Alternative flow: N/A

Exception flow:

No	Exception flow
1	If your account paypal not right you can connect with paypal, display message "Your account is incorrect" and turn back to login

Business Rules: N/A

3.4.2.28 View list of booked trip



Use case – UC-28 – Specification

Use case No.	UC-28	Use case version	V1.3
Use case name	View list of booked trip		
Author	Nguyen Gia Dang		
Date	1/11/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows Traveler view list of booked trip, they can see all trip was booked and some simple information of trip, which include: name, start day, fee,...		
Pre-condition	Traveler visit website and login		
Post-condition	Display all trip was booked and some simple information of each trips		
Trigger	Click on button “Manage” in the left of avatar menu then click on category “Ongoing”		

Main flow:

No	Actor events	System respond
1	Click on button “Manage” in the left of avatar menu	
2		Redirect to Manage Page Display all trip on category “Waiting”
3	Click on category “Ongoing”	
4		Display all trip was booked

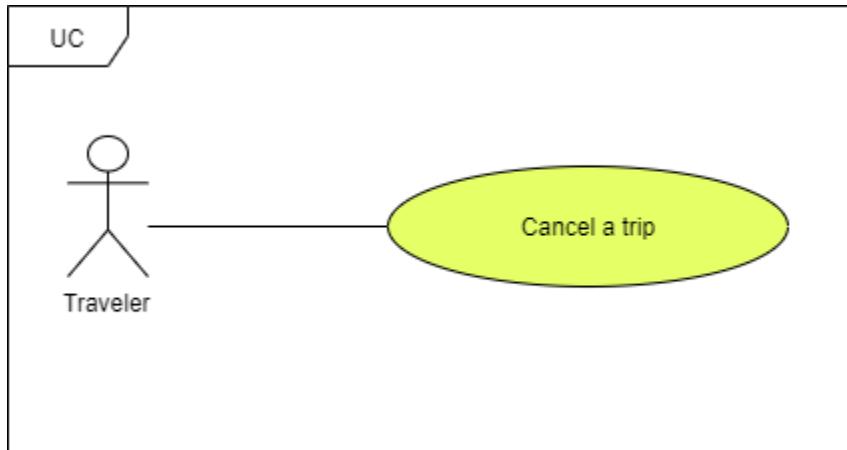
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.29 Cancel a trip



Use case – UC-29 – Specification

Use case No.	UC-29	Use case version	V1.3
Use case name	Cancel a trip		
Author	Nguyen Gia Dang		
Date	2/11/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows Traveler cancel request booking to guider. If the traveler maybe busy before the trip takes place they can cancel the trip		
Pre-condition	Traveler visit website and login		
Post-condition	The website save the request after cancel trip to manager trip by category “canceled”		
Trigger	Click on button “Manage” in the left of avatar menu then click on button “Cancel” to cancel trip		

Main flow:

No	Actor events	System respond
1	Click on button “Manage” in the left of avatar menu	
2		Redirect to Manage Page Display all trip on category “Waiting”
3	click on button “Cancel” to cancel before the trip takes place	

4		The trip was canceled then go to category "Canceled"
Extension flow: N/A		
Alternative flow: N/A		
Exception flow: N/A		
Business Rules: BR-10, BR-11		

3.4.2.30 Review and rate after trip



Use case – UC-30 – Specification			
Use case No.	UC-30	Use case version	V1.3
Use case name	Review and rate after trip		
Author	Nguyen Gia Dang		
Date	2/11/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows Traveler review and rate guider after finished trip, they can tell something they feel about guider when going with them on the trip		
Pre-condition	Traveler finish trip and visit, login on website		
Post-condition	The review and rate was saved on the profile of guider		
Trigger	Click on button “Bookings” in the left of avatar menu then click on category “Finished” and click on button “Review” at the trip you want to review		
Main flow:			
No	Actor events	System respond	

1	Click on button “Bookings” in the left of avatar menu	
2		Redirect to Manage Page Display all trip on category “Waiting”
3	Click on category “Finished”	
4		Display all trip on category “Finished”
5	Click on button “Review” at the trip you want to review	
6		Display evaluation board
7	Enter your review in the textbox and evaluate the quality of the trip by giving the appropriate number of stars. Click button “Add comment” after review	
8		The website saved the Review and rate on profile of guider Display message box “Comment Success”

Extension flow: N/A
Alternative flow: N/A
Exception flow: N/A
Business Rules: [BR-13, BR-14](#)

3.4.2.31 Save favorite post



Use case – UC-31 – Specification

Use case No.	UC-31	Use case version	V1.3
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Use case name	Save favorite post		
Author	Nguyen Gia Dang		
Date	1/11/2019	Priority	Medium
Primary actor	Traveler	Secondary actor	N/A
Description	Allows traveler to get notification from Guider		
Pre-condition	Traveler visit website and logged in and click on a post		
Post-condition	Post is save to Traveler's favorite posts		
Trigger	Click on heart icon on top of Post		

Main flow:

No	Actor events	System respond
1	Click on heart icon on top of Post	
2		Heart icon turn red

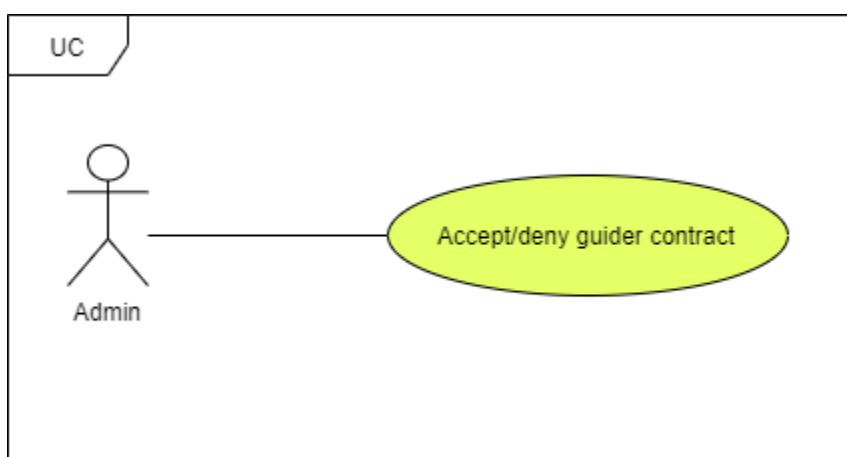
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.32 Accept/ deactivate guider contract

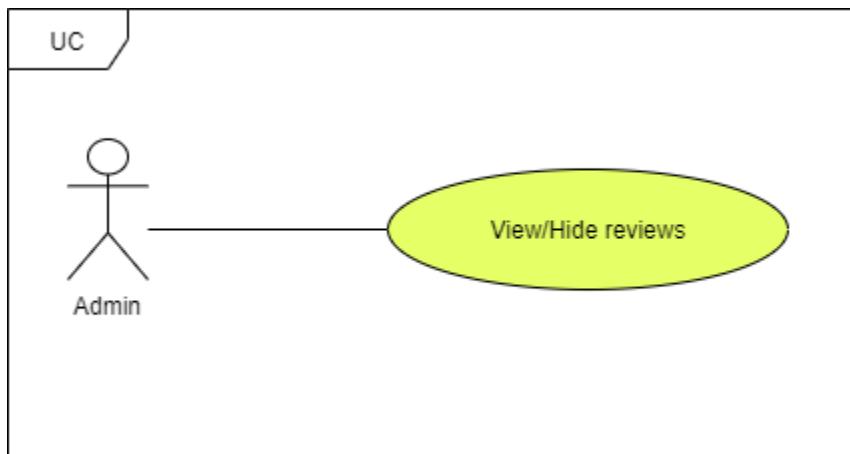


Use case – UC-32 – Specification

Use case No.	UC-32	Use case version	V1.3
Use case name	Accept/ deactivate guider contract		
Author	Nguyen Gia Dang		
Date	11/9/2019	Priority	Medium

Primary actor	Admin	Secondary actor	N/A															
Description	Allows admin accept or deny guider contract, they check the information of account when guider create guider contract. If the guide is suitable for the job, the admin will accept the contract and vice versa																	
Pre-condition	Admin logged in																	
Post-condition	Guider contract was accepted or deactivate after admin check information of guider																	
Trigger	Click on "Contract" button on navigation bar on top																	
<p>Main flow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>Actor events</th> <th>System respond</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Click on "Contract" button on navigation bar on top</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>Show list of contracts</td> </tr> <tr> <td>3</td> <td>Click on "Activate" or "Deactivate" button next to each item</td> <td></td> </tr> <tr> <td>4</td> <td></td> <td>When Admin click on "Activate" show message "Activation succeed", disable "Activate" button When Admin click on "Deactivate" show message "Deactivation succeed", disable "Deactivate" button</td> </tr> </tbody> </table> <p>Extension flow: N/A Alternative flow: N/A Exception flow: N/A Business Rules: N/A</p>				No	Actor events	System respond	1	Click on "Contract" button on navigation bar on top		2		Show list of contracts	3	Click on "Activate" or "Deactivate" button next to each item		4		When Admin click on "Activate" show message "Activation succeed", disable "Activate" button When Admin click on "Deactivate" show message "Deactivation succeed", disable "Deactivate" button
No	Actor events	System respond																
1	Click on "Contract" button on navigation bar on top																	
2		Show list of contracts																
3	Click on "Activate" or "Deactivate" button next to each item																	
4		When Admin click on "Activate" show message "Activation succeed", disable "Activate" button When Admin click on "Deactivate" show message "Deactivation succeed", disable "Deactivate" button																

3.4.2.33 View and hide review



Use case – UC-33 – Specification			
Use case No.	UC-33	Use case version	V1.3
Use case name	View and hide review		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	Admin	Secondary actor	N/A
Description	Allows admin view and hide review. If the review has inappropriate or false words about the trips, users can send feedback to the admin. Admin will check the review and conclude that it will hide or keep that review		
Pre-condition	Admin visits the website and login		
Post-condition	The review will be hidden after the admin use that function		
Trigger			

Main flow:

No	Actor events	System respond
1	Click on "Contract" button on navigation bar on top	
2		Show list of contracts
3	Click on "Activate" or "Deactivate" button next to each item	
4		When Admin click on "Activate" show message "Activation succeed", disable "Activate" button When Admin click on "Deactivate"

		show message "Deactivation succeed", disable "Deactivate" button	
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Alternative flow: N/A

Exception flow: N/A

Business Rules: N/A

3.4.2.34 View list of account



Use case – UC-34 – Specification

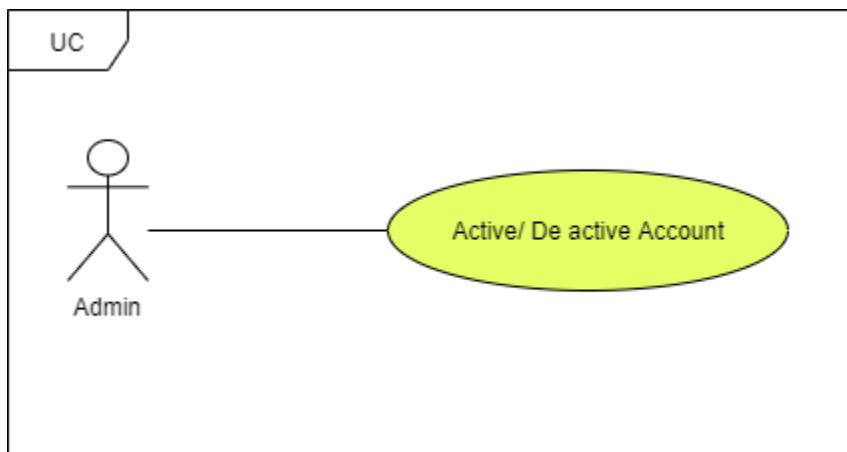
Use case No.	UC-34	Use case version	V1.3
Use case name	View list of account		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	Admin	Secondary actor	N/A
Description	Allows Admin view list of account, some information of account, which include: account name, status of account (active, de active)		
Pre-condition	Admin visit website and login		
Post-condition	Display list of account and functions of account control		
Trigger	Click on button "Manage Account" in the menu bar at the middle of website		

Main flow:

No	Actor events	System respond
1	Click on button "Manage Account" in the menu bar at the middle of website	
2		Display all account and functions, which include: reset password, active, de active.

Extension flow: N/A
Alternative flow: N/A
Exception flow: N/A
Business Rules: N/A

3.4.2.35 Activate/ Deactivate account



Use case – UC-35 – Specification

Use case No.	UC-35	Use case version	V1.3
Use case name	Active/ De active account		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	Admin	Secondary actor	N/A
Description	Allows Admin to active or de active account when the admin sees the account violating the website's rules admin can de active account and active again		
Pre-condition	Admin visit website and login		
Post-condition	Account will be locked and reopened when admin use that functions		
Trigger	Click on button “Manage Account” in the menu bar at the middle of website Then click on button “De active” or “Active” next to the account select		

Main flow:

No	Actor events	System respond
----	--------------	----------------

1	Click on button “Manage Account” in the menu bar at the middle of website	
2		Display all account and functions, which include: reset password, active, de active.
3	Click on button “De active” or “Active” next to the account selected	
4		Account was locked and save to the website then show popup “Account has been locked successfully” Account was reopened and save to the website then show popup “Account has been activated successfully”

Extension flow: N/A

Alternative flow: N/A

Exception flow:

No	Exception flow
1	Admin can't active account if it is not locked

Business Rules: N/A

3.4.2.36 Create new location



Use case – UC-36 – Specification			
Use case No.	UC-36	Use case version	V1.3
Use case name	Create new location		
Author	Nguyen Gia Dang		

Date	10/9/2019	Priority	Medium
Primary actor	Admin	Secondary actor	N/A
Description	Allows Admin create a new location when that location is included to exploit tourism, guider at that location can create a new post to guide the traveler to visit and have a perfect trip at that location		
Pre-condition	Admin visit website and login		
Post-condition	The new location was created and saved to website, user can use that location		
Trigger	Click on button “Create a new location” then fill information in the textbox and click on button “Save”		

Main flow:

No	Actor events	System respond
1	Click on button “Create a new location” next to button “Manage Account”	
2		Display form create new location
3	Fill all information on the textbox and click on button “Save” at the right – bottom of form	
4		Check the information in textbox Saved the new information on website and display popup “Saved successfully”

Extension flow: N/A

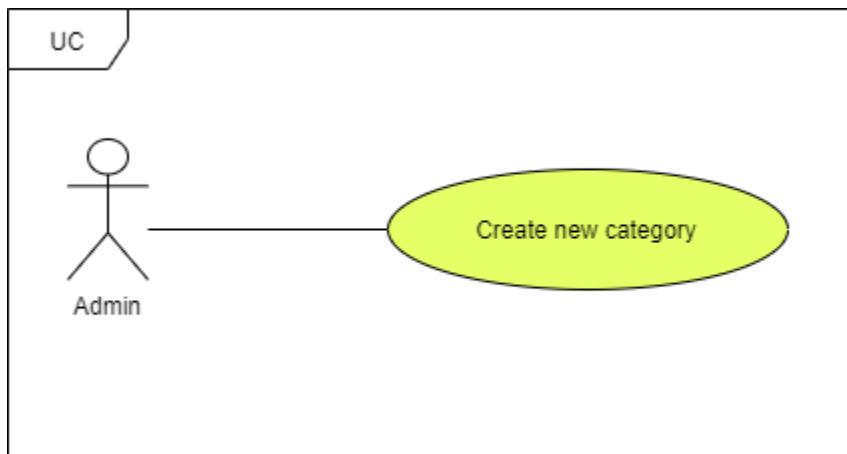
Alternative flow: N/A

Exception flow:

No	Exception flow
1	If the textboxes are not filled in correctly then you will not be able to save the information and display message “Please enter enough information”

Business Rules: [BL-01](#)

3.4.2.37 Create new category



Use case – UC-37 – Specification			
Use case No.	UC-37	Use case version	V1.3
Use case name	Create new category		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	Admin	Secondary actor	N/A
Description	Allows Admin create a new category, admin can create more categories when there are have new types of travel, guider can use that new category on the post, it can make website cool and more prominent		
Pre-condition	Admin visit website and login		
Post-condition	The new category was created and saved to website, user can use that category on the post		
Trigger	Click on button “Create a new category” then fill information in the textbox and click on button “Save”		

Main flow:

No	Actor events	System respond
1	Click on button “Create a new location” next to button “Create a new location”	
2		Display form create new category
3	Fill all information on the textbox and click on button “Save” at the right – bottom of form	
4		Check the information in textbox Saved the new category on website and display popup “Saved successfully”

Extension flow: N/A

Alternative flow: N/A

Exception flow:

No	Exception flow
1	If the textboxes are not filled in correctly then you will not be able to save the information and display message “Please enter enough information”

Business Rules: [BL-01](#)

3.4.2.38 Search post



Use case – UC-38 – Specification

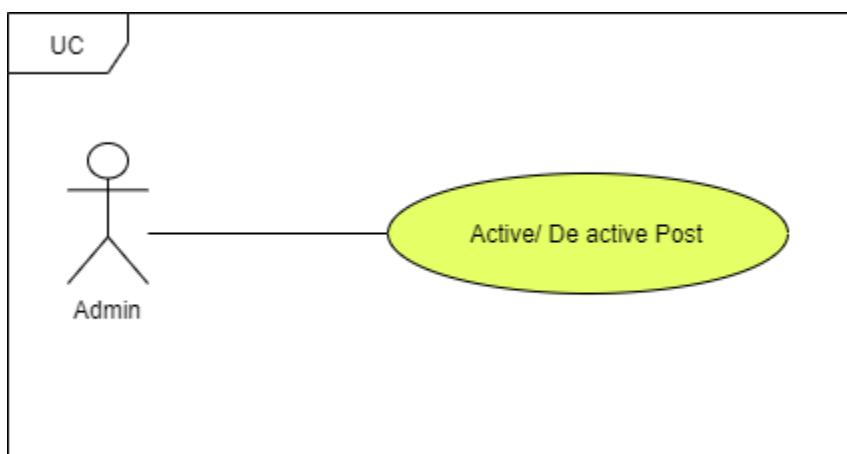
Use case No.	UC-38	Use case version	V1.3
Use case name	Search post		
Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	Admin	Secondary actor	N/A
Description	Allows Admin view list of post, some information of post, which include: post name, status of post (active, de active), author, date of writing		
Pre-condition	Admin visit website and login		
Post-condition	Display list of post and simple information of post which are matched the keyword		
Trigger	Click on button “Manage Post” in the menu bar at the left of button “Manage Account” then fill account name on textbox and click on button “Search”		

Main flow:

No	Actor events	System respond
1	Click on button “Manage Post” in the menu bar at the left of button “Manage Account”	
2		Display all posts on the website
3	Fill account name on textbox below the menu bar and click on button “Search” next to the textbox	
4		The website search all post of the account name fill on the textbox then display all account that have been searched

Extension flow: N/A**Alternative flow:** N/A**Exception flow:**

No	Exception flow
1	If there are no post of Account name searched, display message “There are no post like that Account name”

Business Rules: N/A**3.4.2.39 Active/ De active Post****Use case – UC-39 – Specification**

Use case No.	UC-39	Use case version	V1.3
Use case name	Active/ De active Post		

Author	Nguyen Gia Dang		
Date	10/9/2019	Priority	Medium
Primary actor	Admin	Secondary actor	N/A
Description	Allows Admin active or de active post which it violates the website's rules and active again when the post was edited more suitable		
Pre-condition	Admin visit website and login		
Post-condition	The post will be active or de active after admin use this function		
Trigger	Click on button "Manage Post" in the menu bar		

Main flow:

No	Actor events	System respond
1	Click on button "Manage Post" in the menu bar	
2		Display all posts on the website
3	Click on button "Active" or "De active" at the end of each post to active or de active the selected post	
4		The post was locked and save to the website when click on button "De active" then show popup "The post has been locked successfully" The post was reopened and save to the website when click on button "Active" then show popup "The post has been activated successfully"

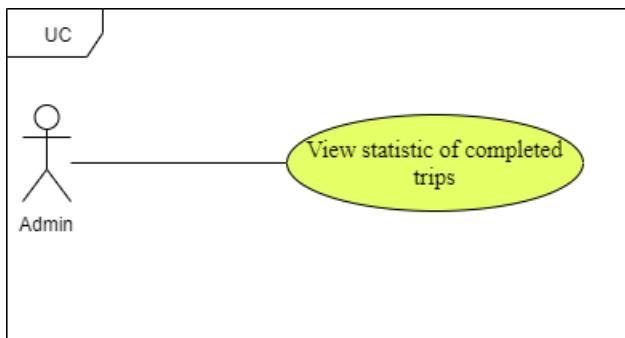
Extension flow: N/A

Alternative flow: N/A

Exception flow: N/A

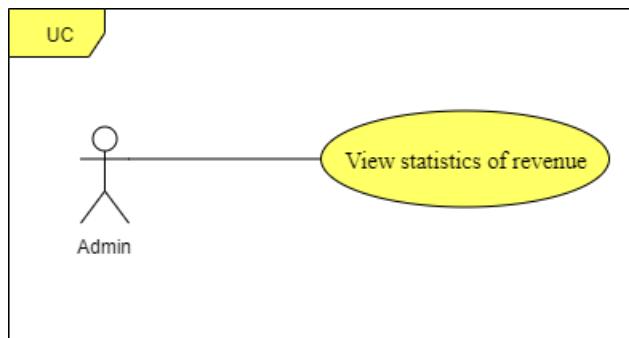
Business Rules: N/A

3.4.2.40 View statistic of completed trip



Use case – UC-40 – Specification					
Use case No.	UC-40	Use case version	V1.3		
Use case name	View statistic of completed trip				
Author	Nguyen Gia Dang				
Date	14/9/2019	Priority	Medium		
Primary actor	Admin	Secondary actor	N/A		
Description	Allows admin to view graph of completed trip then admin can know if the number of trips completed in the past period has increased or decreased, to provide recommendations for guiders and methods to increase the number of trips completed.				
Pre-condition	Admin visits the website and login				
Post-condition	Display the graph of completed trip				
Trigger	Click on button “View graph of completed trip” next to the button “Create new category” in the menu bar				
Main flow:					
No	Actor events	System respond			
1	Click on button “View graph of completed trip” next to the button “Create new category” in the menu bar				
2		Display the graph of completed trip			
Alternative flow: N/A					
Exception flow: N/A					
Business Rules: N/A					

3.4.2.41 View statistic of revenue



Use case – UC-41 – Specification					
Use case No.	UC-41	Use case version	V1.3		
Use case name	View statistic of revenue				
Author	Nguyen Gia Dang				
Date	14/9/2019	Priority	Medium		
Primary actor	Admin	Secondary actor	N/A		
Description	Allows admin to view graph of revenue then admin can know the revenue of the recent trips has increased or decreased, to provide recommendations for guiders and methods to increase the revenue				
Pre-condition	Admin visits the website and login				
Post-condition	Display the graph of revenue				
Trigger	Click on button “View graph of revenue” next to the button “View graph of completed trip” in the menu bar				
Main flow:					
No	Actor events	System respond			
1	Click on button “View graph of revenue” next to the button “View graph of completed trip” in the menu bar				
2		Display the graph of revenue			
Alternative flow: N/A					
Exception flow: N/A					
Business Rules: N/A					

3.5 Non-Functional Requirement

3.5.1 Usability

- TWL web interface is designed clearly, simply, monolithically and easy to get on.
- All the texts and messages are informed friendly and clearly with instruction.
- The steps are short and easy to use so that the user can interact without training.
- Links, buttons are easier clickable.
- Search box is wide enough for users to see what they have typed.

3.5.2 Security

- User account is secured by TWL system.
- User password is encrypted.
- Http request is secured by token.

3.5.3 Availability

- The website should be available anytime users want to use it.
- User can access everywhere from their computer with internet connection.

3.5.4 Performance

- TWL website load time is expected to less than 10 seconds in standard network environment.
- Response to user interact is expected to less than 5 seconds in standard network environment.

3.5.5 Maintainability

- The application use popular and reliable technology, that keep maintenance cost low.
- The application can be easy to extend new functionality.

Chapter 4: Software Design Description

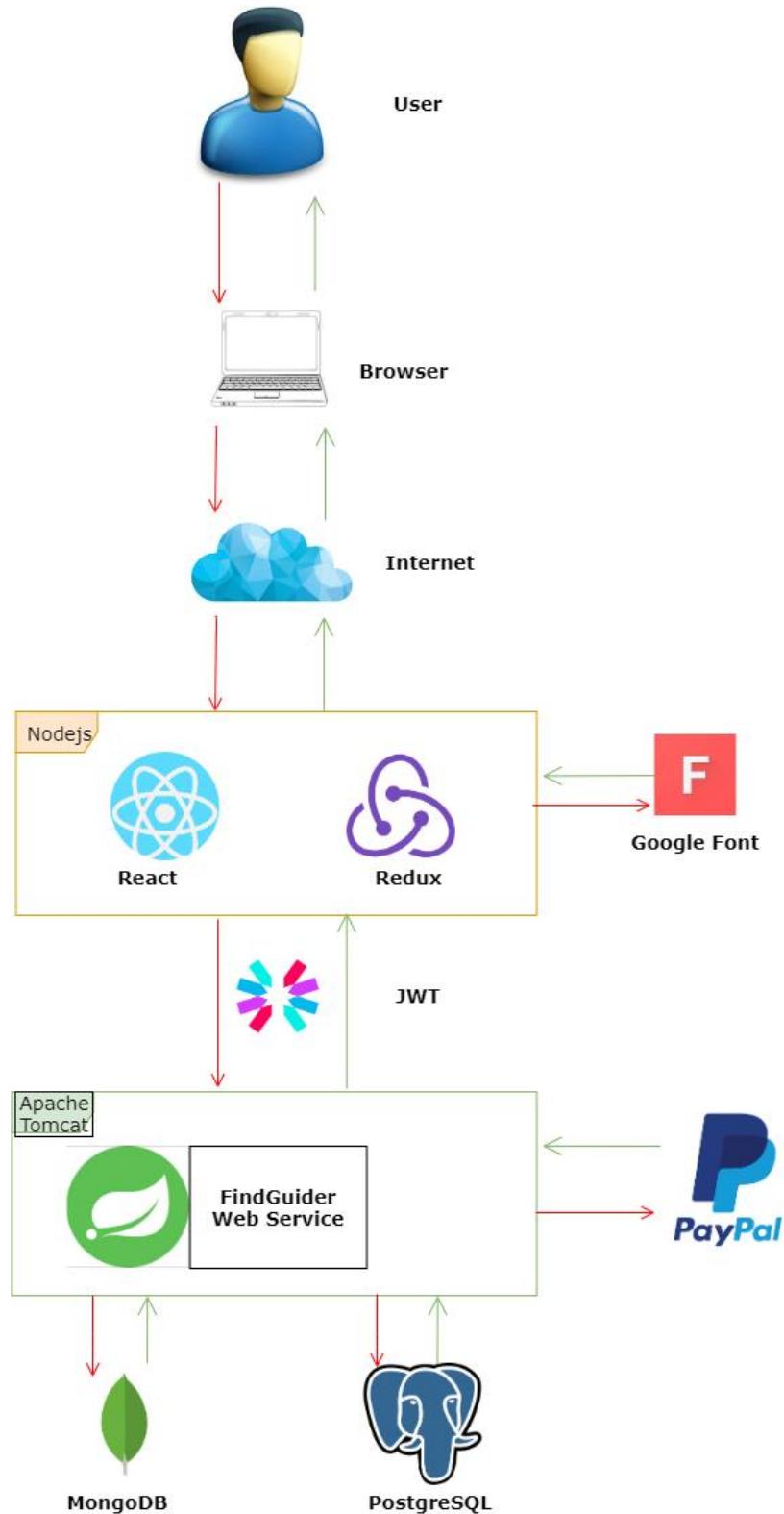
4.1 Purpose

The purpose of this chapter is showing the detail design of what the system architecture is, from the high-level design to detail design to detail design description for each section. This chapter consist of:

- Architecture overview
- Architecture design
- Database design
- Detailed design

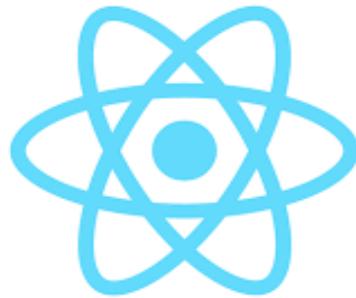
4.2 Architecture Overview

4.2.1 System architecture



4.2.2 System architecture explanation

React



React is an open-source JavaScript library used for building user interfaces specifically for single page applications. We use React to build our website user interface. It's come in handy when handling view layer for web and mobile apps. React allows us to create reusable UI components which mean extensive user interface.

Redux



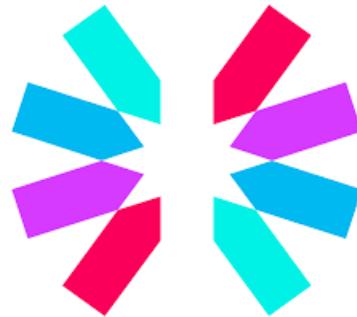
We use Redux to manage state of our web applications. Redux is an open-source JavaScript library for managing application state. Redux is a small library with a simple, limited API designed to be a predictable container for application state. It operates in a similar fashion to a reducing function, a functional programming concept.

Java Spring



The Spring framework is an application_framework and inversion_of_control container for the Java_platform. The framework's core features can be used by any Java application. We use Spring because Spring provide easy configuration and lifecycle management with tons of convenient annotations.

JWT



JSON Web Token (JWT) is an open standard (RC 7519) that defines a compact and self-contained way for securely transmitting information between parties as a JSON object. This information can be verified and trusted because it is digitally signed. We use JSON to secure authentication information between web services and other applications

PayPal



PayPal is a worldwide online payments system that supports online money transfers and serves as an electronic alternative to traditional paper methods like checks and money orders. We use PayPal as the main payment method for our system.

PostgreSQL



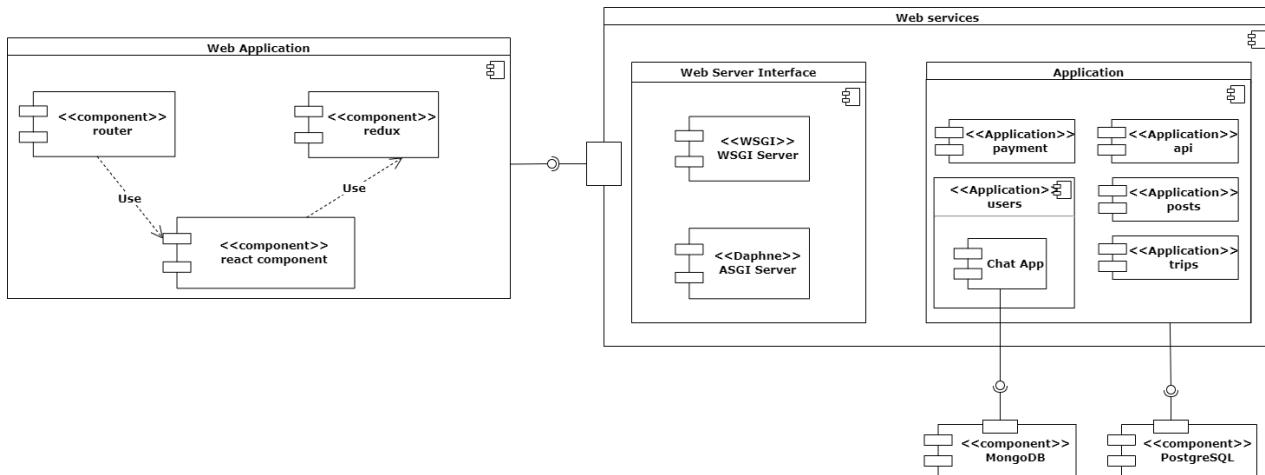
PostgreSQL is an advanced, enterprise class open source relational database that supports both SQL (relational) and JSON (non-relational) querying. It is a highly stable database management system with rich features and functions backed by more than 20 years of community development.

MongoDB



MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schema. We use MongoDB as database for real time task of TWL system.

4.2.3 Component diagram

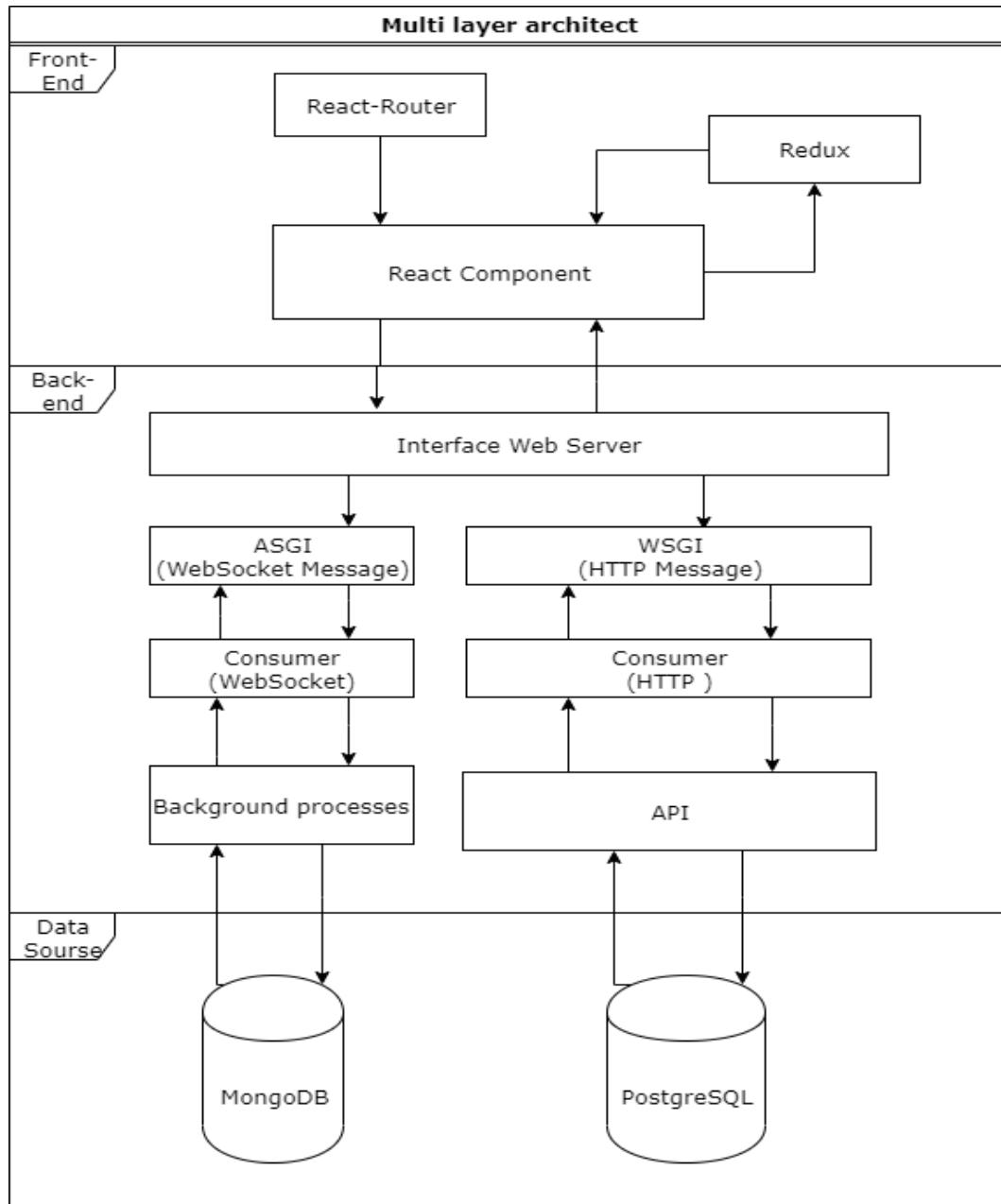


Explanation

Component	Module	Description
Web application	router	Manage route between pages, components in react.
	Redux	Manage application state for react.
	React Components	front end page in form of small component with each component take one responsibility as representing data, handling data change, making api call, It makes web application active and flexible.
Web service	WSGI Server	HTTP protocol server.
	ASGI Server	WebSocket protocol server.
	Api	Request routing application.
	Users	Retrieve and manage user utility.
	Post	Retrieve and manage posts.
	Trips	Retrieve and manage trips.
	Payment	Manage payment gate

PostgreSQL	PostgreSQL	Data storage.
MongoDB	MongoDB	Data storage.

4.3 Architecture Design

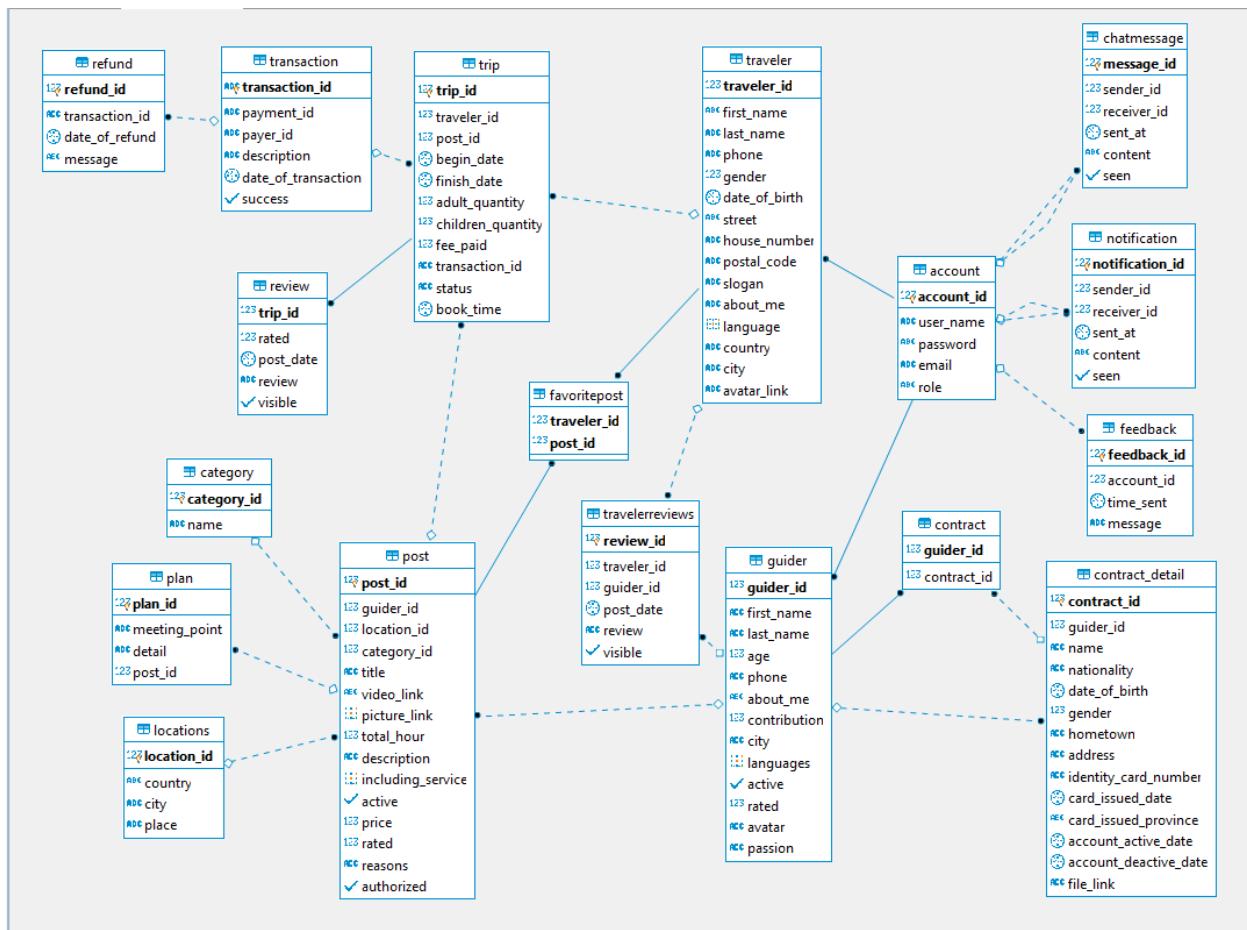


Explanation

Front-end	
React-router	React-router keeps the UI sync with the URL
Redux	Manage the state of web-application, manage the data to display and the way to respond to user action.
React Component	Component to build web-application.
Back-end	
ASGI (WebSocket Message)	WebSocket protocol server
WSGI (HTTP Message)	HTTP protocol server.
Consumer (WebSocket)	WebSocket consumer
Consumer (HTTP)	HTTP consumer
Background Processes	Run and manage background processes (Send, receive realtime message, notification,...)
API	Display the list of APIs
Data Source	
PostgreSQL	Database system.
MongoDB	Database system.

4.4 Detail Design

4.4.1 Database Design



Explanation

Symbol	Explanation
	Foreign key, optional, one to many relationship
	Foreign key, compulsory, one to one relationship

Account

No	Attribute	Type	Allo w	Constraints	Description

			null		
1	account_id	Integer	No	PK	
2	user_name	Character varying (255)	No	unique	
3	password	Character varying (255)	No		
4	email	Character varying (255)	No		
5	role	Character varying (31)	No		

Guider

No	Attribute	Type	Allow null	Constraints	Description
1	guider_id	Integer	No	FK	
2	first_name	Character varying (127)	No		
3	last_name	Character varying (127)	No		
4	age	Integer	No		
5	about_me	Character varying (255)	Yes		
6	contribution	Integer	No		
7	city	Character varying (127)	Yes		
8	languages	TEXT	No		
9	active	Boolean	No		
10	rated	Numeric	Yes		

11	avatar	TEXT	Yes		
12	passion	TEXT	Yes		

Locations

No	Attribute	Type	Allow null	Constraints	Description
1	location_id	Integer	No	PK	
2	country	Character varying (127)	No		
3	place	Character varying (127)	No		

ChatMessage

No	Attribute	Type	Allow null	Constraints	Description
1	message_id	Integer	No	PK	
2	sender_id	Integer	No		
3	receiver_id	Integer	No		
4	sent_at	Timestamp	No		
5	content	Character varying (511)	Yes		

Trip

No	Attribute	Type	Allow null	Constraints	Description
1	order_id	Bigint	No	PK	
2	traveler_id	Character varying	No		

		(127)			
3	guider_id	Character varying (127)	No		
4	post_id	Integer	No		
5	begin_date	Timestamp	No		
6	finish_date	Timestamp	No		
7	adult_quantity	Int	No		
8	children_quantity	Int	No		
9	fee_paid	Numeric(13,2)	No		
10	Status	Character varying (32)	No		
11	Transaction_id	Character varying (127)	Yes		
12	Book_time	Timestamp	No		

Post

No	Attribute	Type	Allow null	Constraints	Description
1	post_id	Bigint	No	PK	
2	guider_id	Integer	No	FK	
3	category_id	Integer	No	FK	
4	location_id	Integer	No	FK	
5	title	Character varying (127)	No		
6	video_link	TEXT	Yes		

7	picture_link	TEXT[]	Yes		
8	total_hour	Integer	No		
9	description	Character varying (511)	Yes		
10	including_service	TEXT[]	No		
11	active	Boolean	No		
12	fee	Numeric(13,2)	No		
13	rated	Numeric(5,1)	No		
14	authorized	Boolean	No		

Review

No	Attribute	Type	Allow null	Constraints	Description
1	trip_id	Bigint	No	FK	
2	visible	Boolean	No		
3	rated	Numeric(5,1)	No		
4	post_date	Timestamp	No		
5	review	TEXT	No		

Category

No	Attribute	Type	Allow null	Constraints	Description
1	category_id	Integer	No	PK	
2	name	Character varying (127)	No		

Plan

No	Attribute	Type	Allow null	Constraints	Description
1	plan_id	Bigint	No	PK	
2	meeting_point	Character varying (127)	No		
3	detail	TEXT	No		
4	post_id	Bigint	No	FK	

Transaction

No	Attribute	Type	Allow null	Constraints	Description
1	transaction_id	Character varying (127)	No	PK	
2	payment_id	Character varying (127)	No		
3	payer_id	Character varying (127)	No		
4	description	Character varying (255)	No		
5	date_of_transaction	Timestamp	No		
6	success	boolean	No		

Refund

No	Attribute	Type	Allow null	Constraints	Description
1	refund_id	Integer	No	PK	

2	transaction_id	Character varying (127)	No		
3	date_of_refund	Timestamp	No		
4	message	Character varying (255)	No		

Favorite Post

No	Attribute	Type	Allow null	Constraints	Description
01	traveler_id	integer	No		
02	post_id	integer	No		

Notification

No	Attribute	Type	Allow null	Constraints	Description
01	notification_id	integer	No	PK	
02	sender_id	integer	No		
03	receiver_id	integer	No		
04	send_ad	timestamp	No		
05	Content	character	No		
06	seen	boolean	No		

Traveler

No	Attribute	Type	Allow null	Constraints	Description
01	trveler_id	integer	No	PK	

02	first_name	character	No		
03	last_name	character	No		
04	phone	character	No		
05	gender	integer	No		
06	date_of_birth	timestamp	No		
07	street	character	No		
08	house_number	character	No		
09	postal_code	character	No		
10	slogan	character	No		
11	about_me	character	No		
12	language	character	No		
13	country	character	No		
14	city	character	No		
15	avata_link	character	No		

Traveler review

No	Attribute	Type	Allow null	Constraints	Description
01	review_id	integer	No	PK	
02	traveler_id	integer	No		
03	guider_id	integer	No		
04	post_date	timestamp	No		
05	review	character	No		

06	visible	boolean	No		
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Contract

No	Attribute	Type	Allow null	Constraints	Description
01	guider_id	integer	No	PK	
02	contract_id	integer	No		

Contract Detail

No	Attribute	Type	Allow null	Constraints	Description
01	contract_id	integer	No	PK	
02	guider_id	integer	No		
03	name	character	No		
04	nationality	character	No		
05	date_of_birth	timestamp	No		
06	gender	integer	No		
07	hometown	character	No		
08	address	character	No		
09	identify_card_number	character	No		
10	card_issued_date	timestamp	No		
11	card_issued_province	character	No		
12	account_active_date	timestamp	No		

13	account_deactive_date	timestamp	No		
14	file_link	character	No		

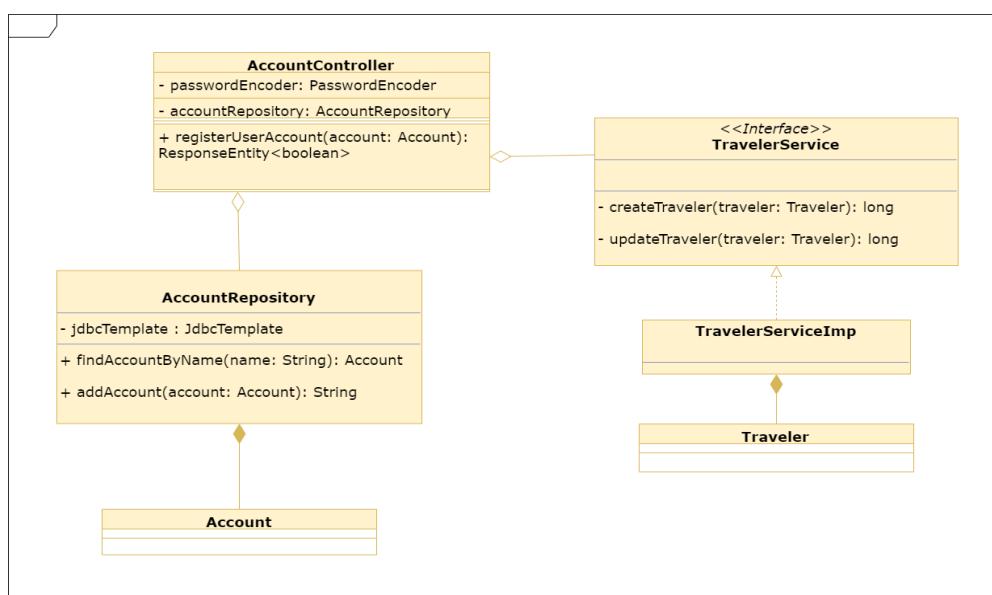
Feedback

No	Attribute	Type	Allow null	Constraints	Description
01	feedback_id	integer	No	PK	
02	account_id	integer	No		
03	time_sent	timestamp	No		
04	message	character	No		

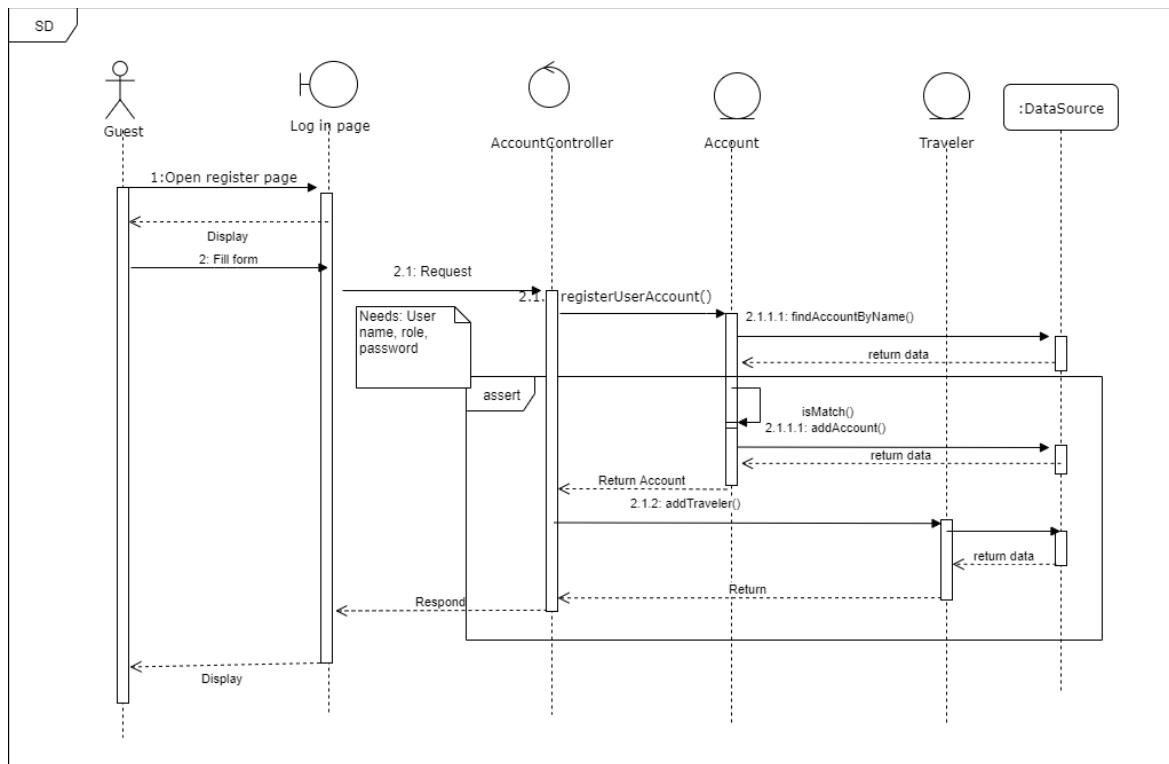
4.4.2 TWL web detail design

4.4.2.1 Sign up a traveler account

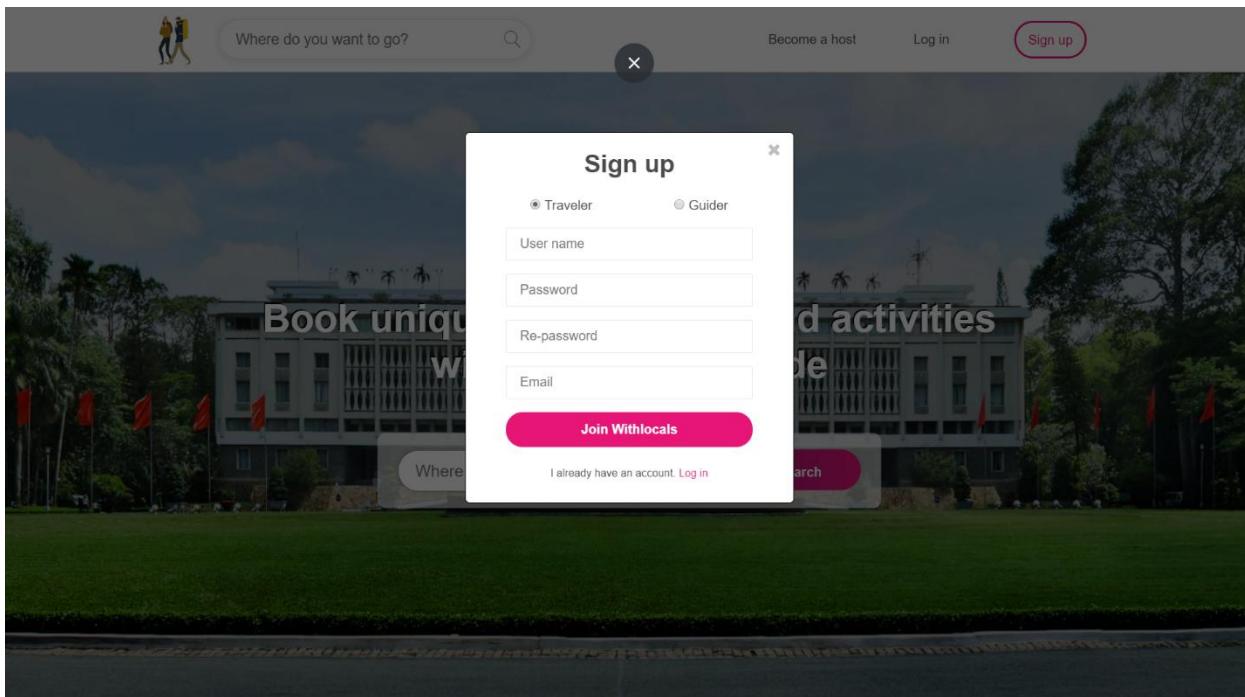
Class diagram



Sequence diagram

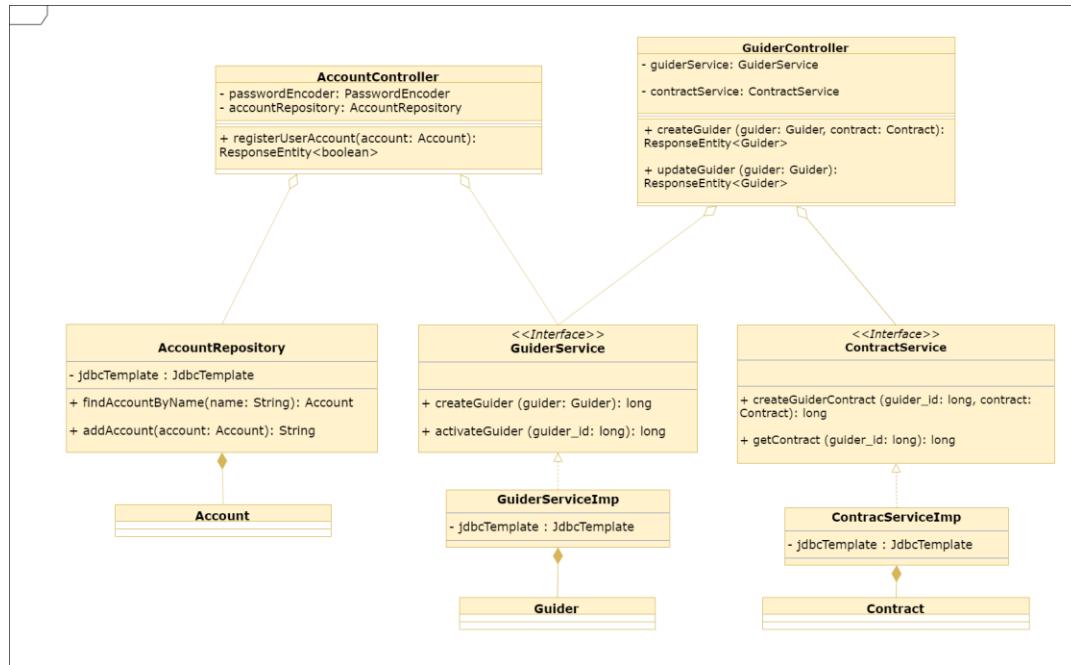


Screen design

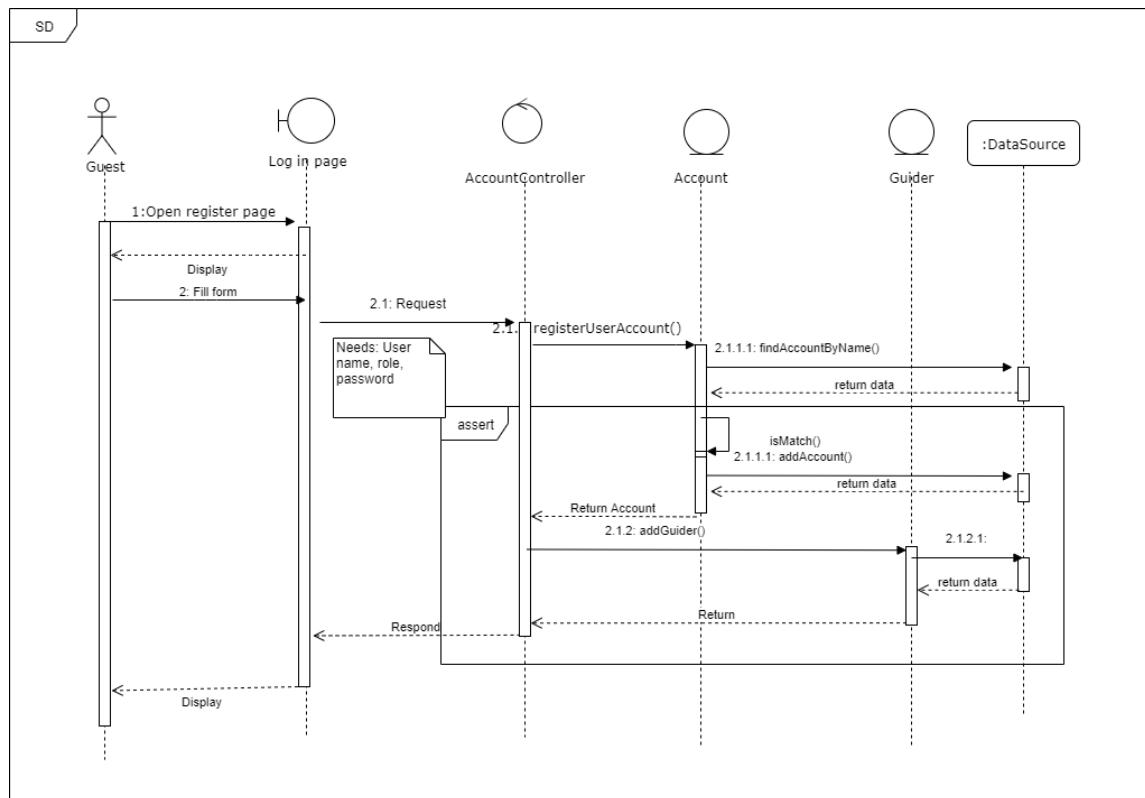


4.4.2.2 Sign up a guider account

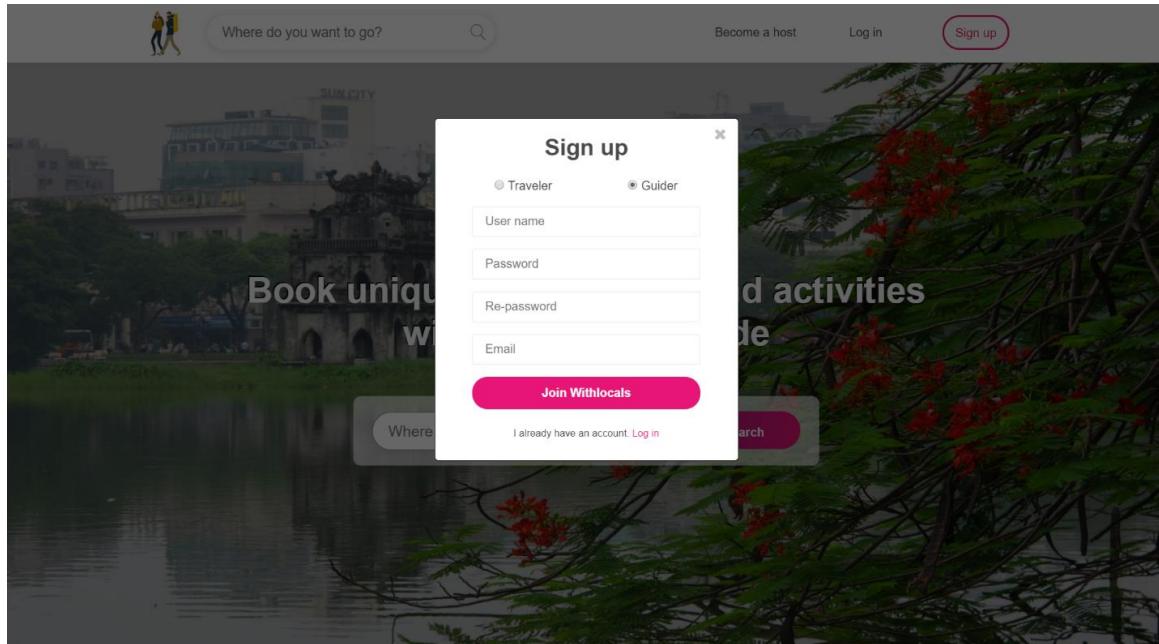
Class diagram



Sequence diagram

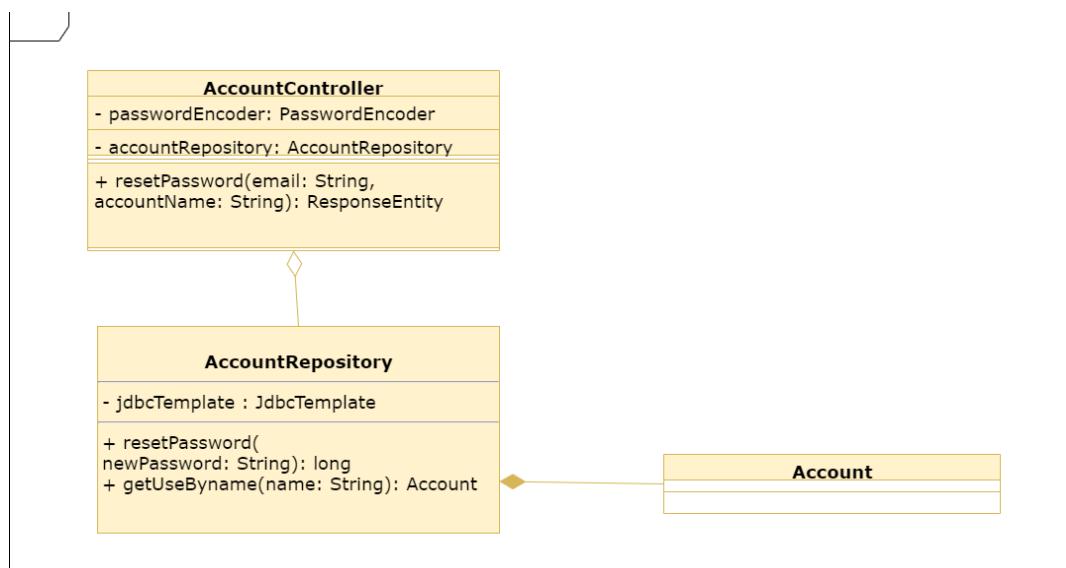


Screen design

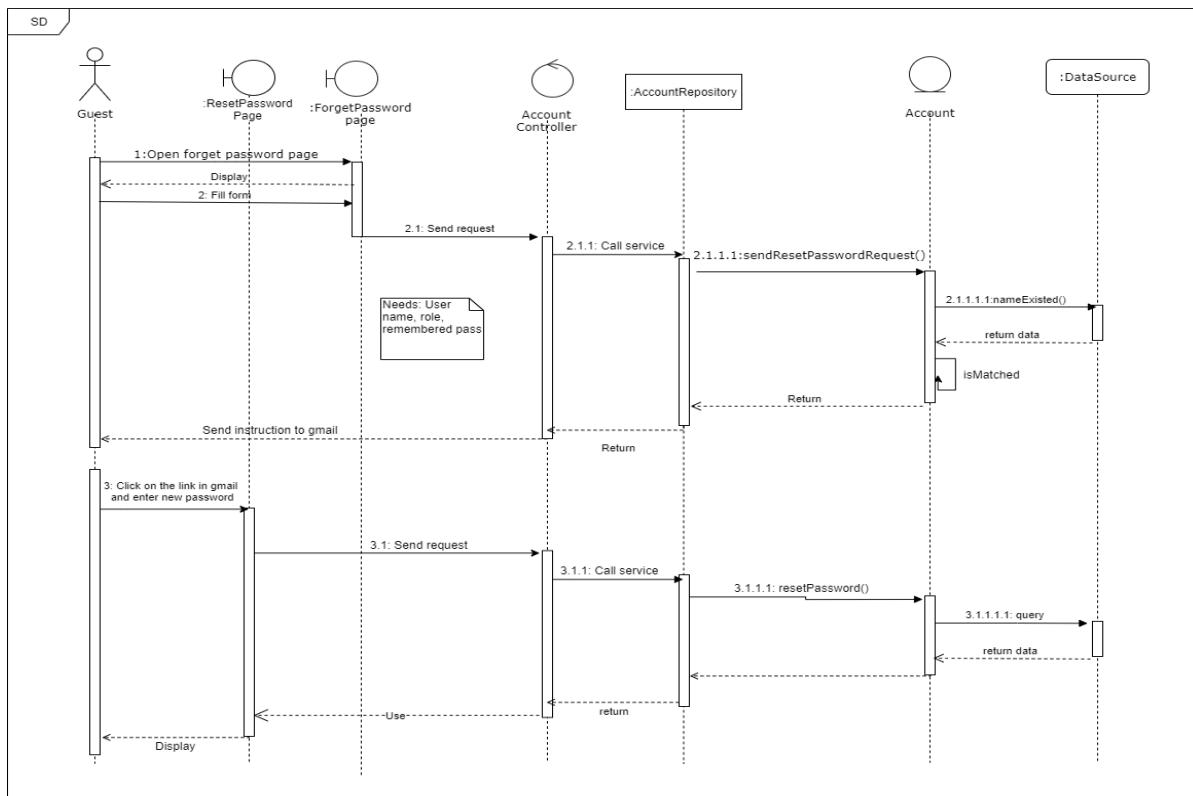


4.4.2.3 Forgot password

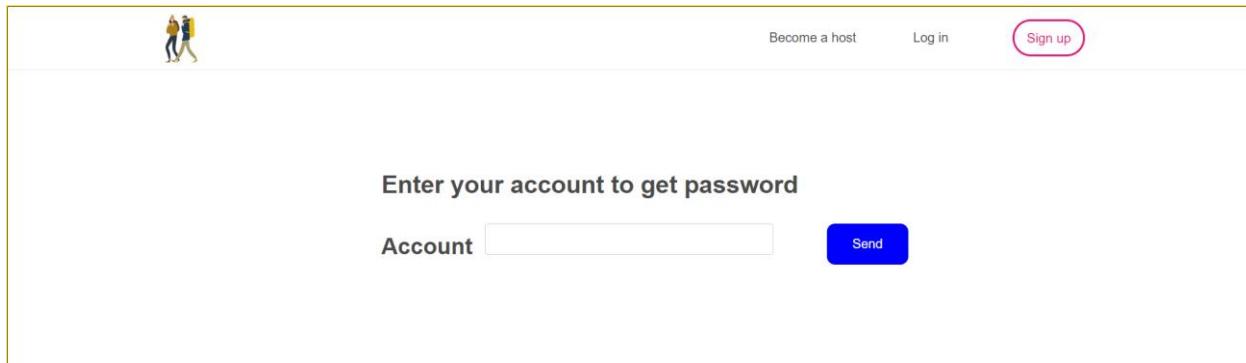
Class diagram



Sequence diagram

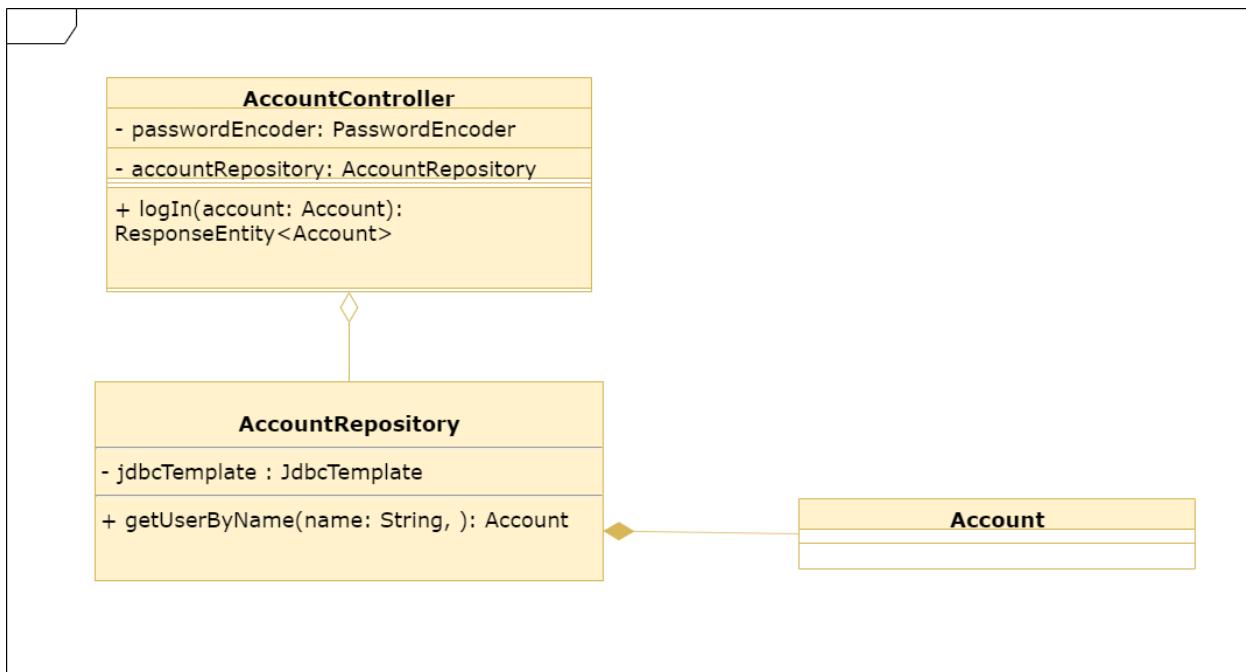


Screen design

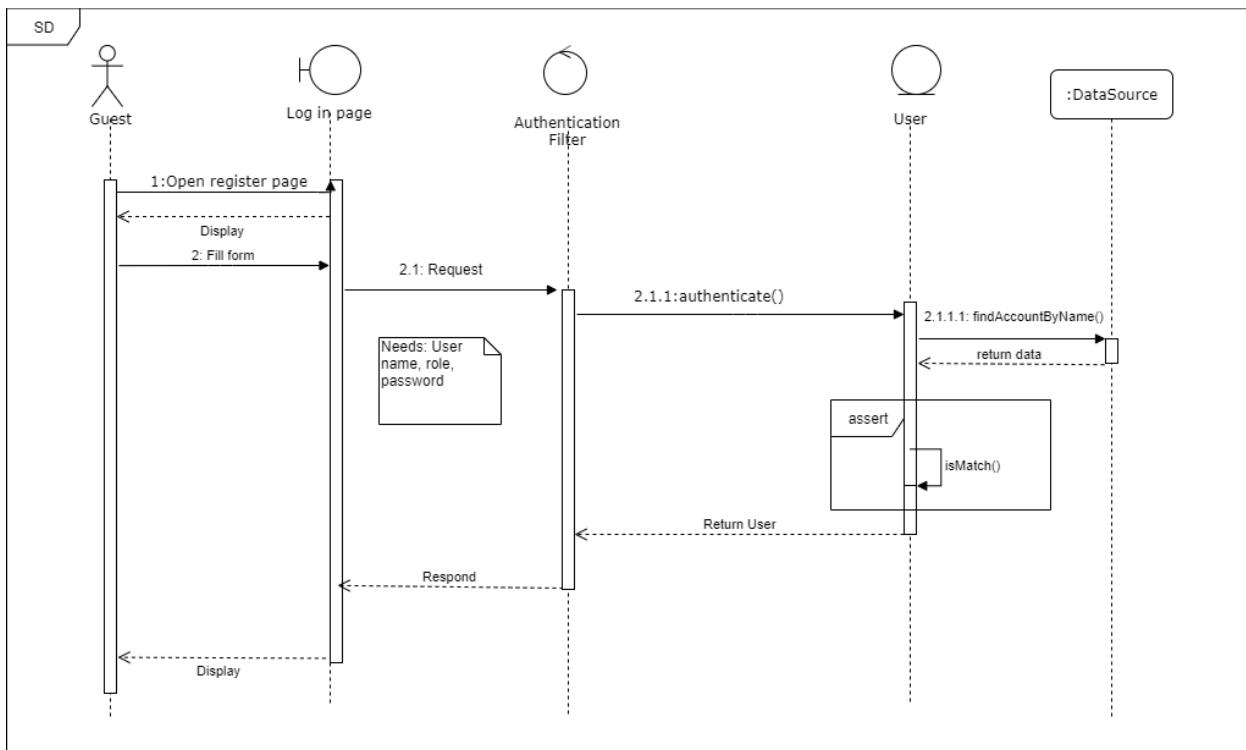


4.4.2.4 Log in

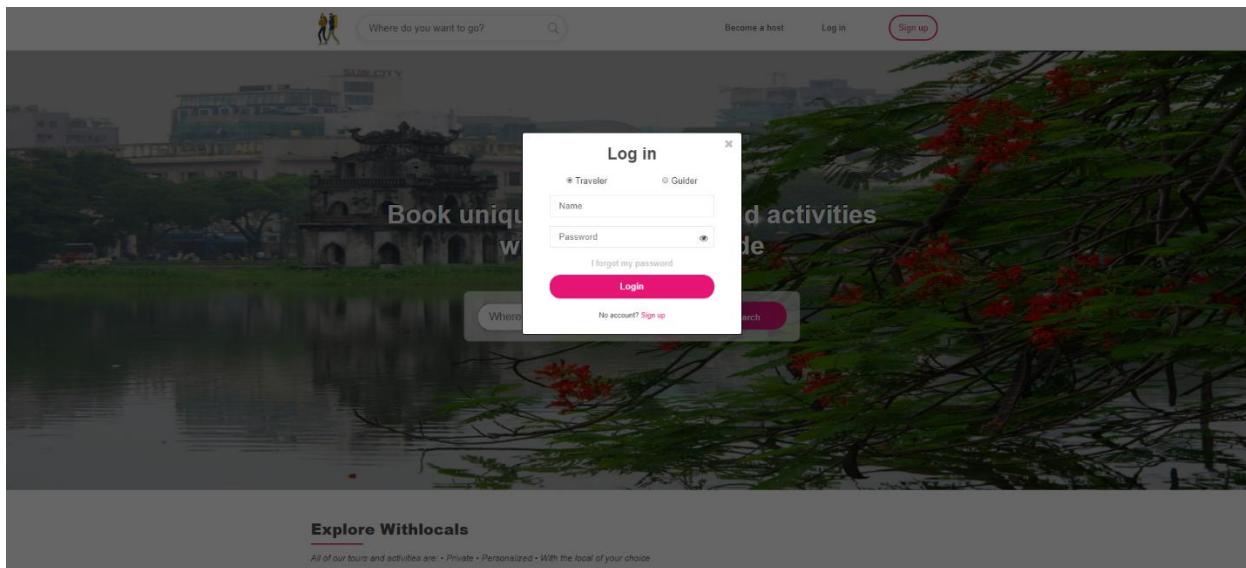
Class diagram



Sequence diagram

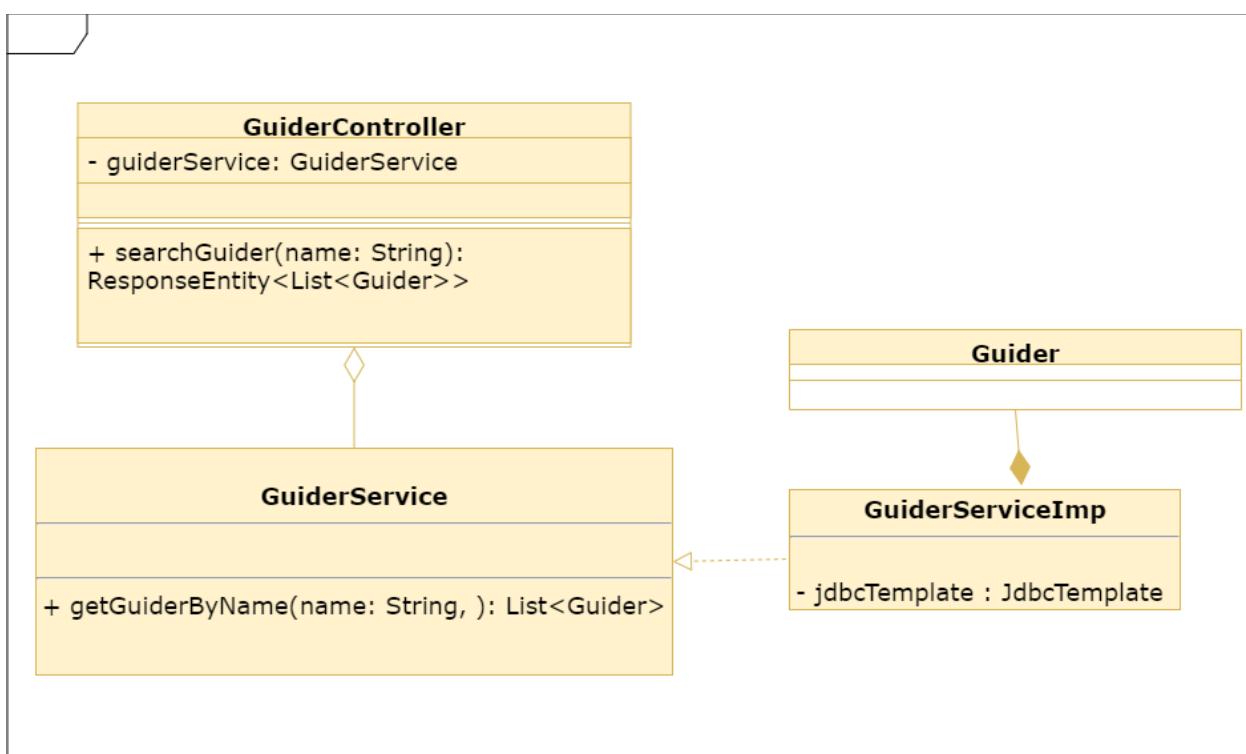


Screen design

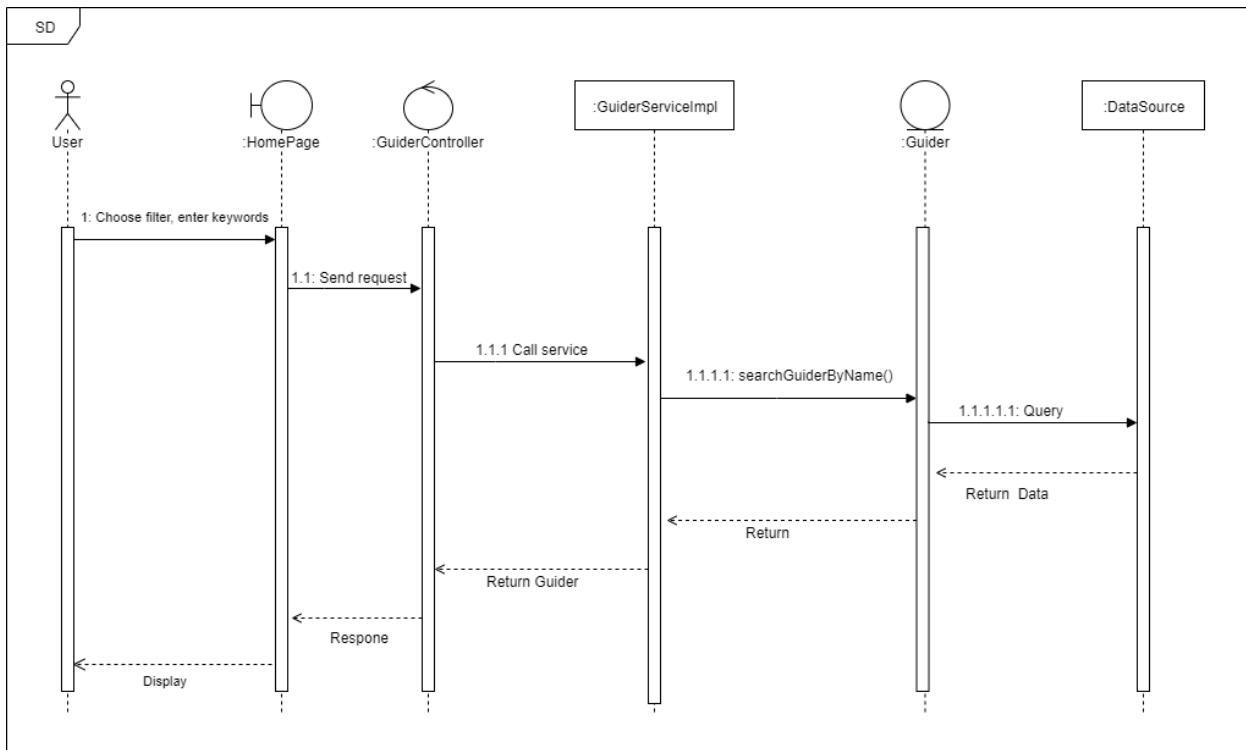


4.4.2.5 Search for guiders by name

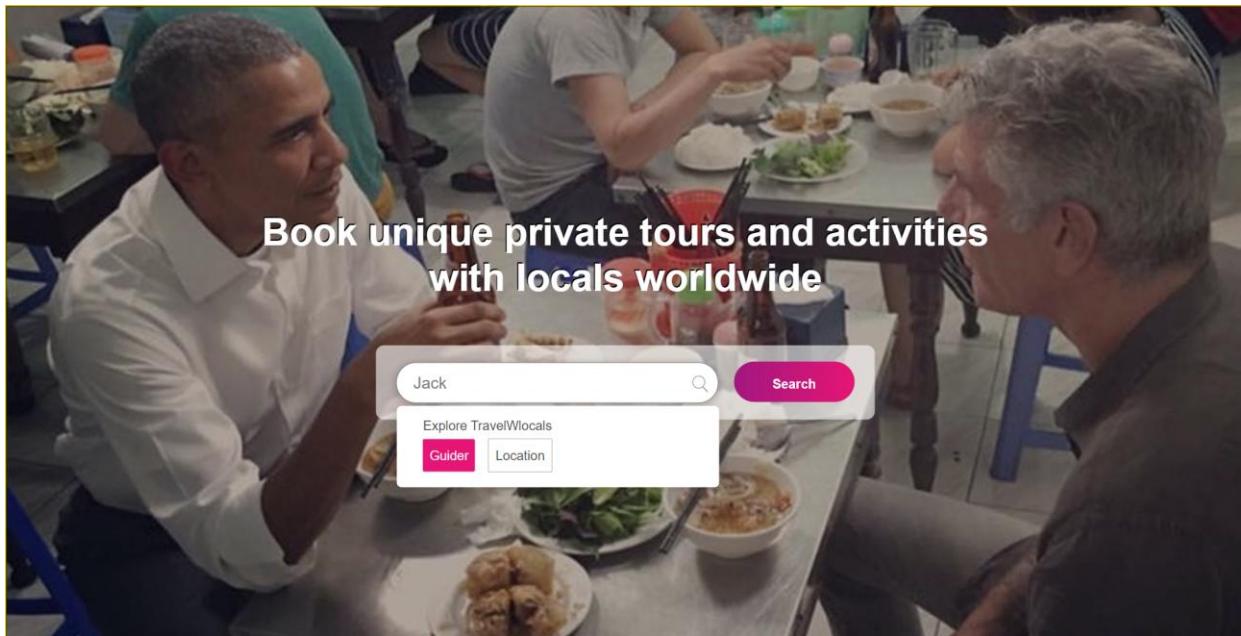
Class diagram



Sequence diagram

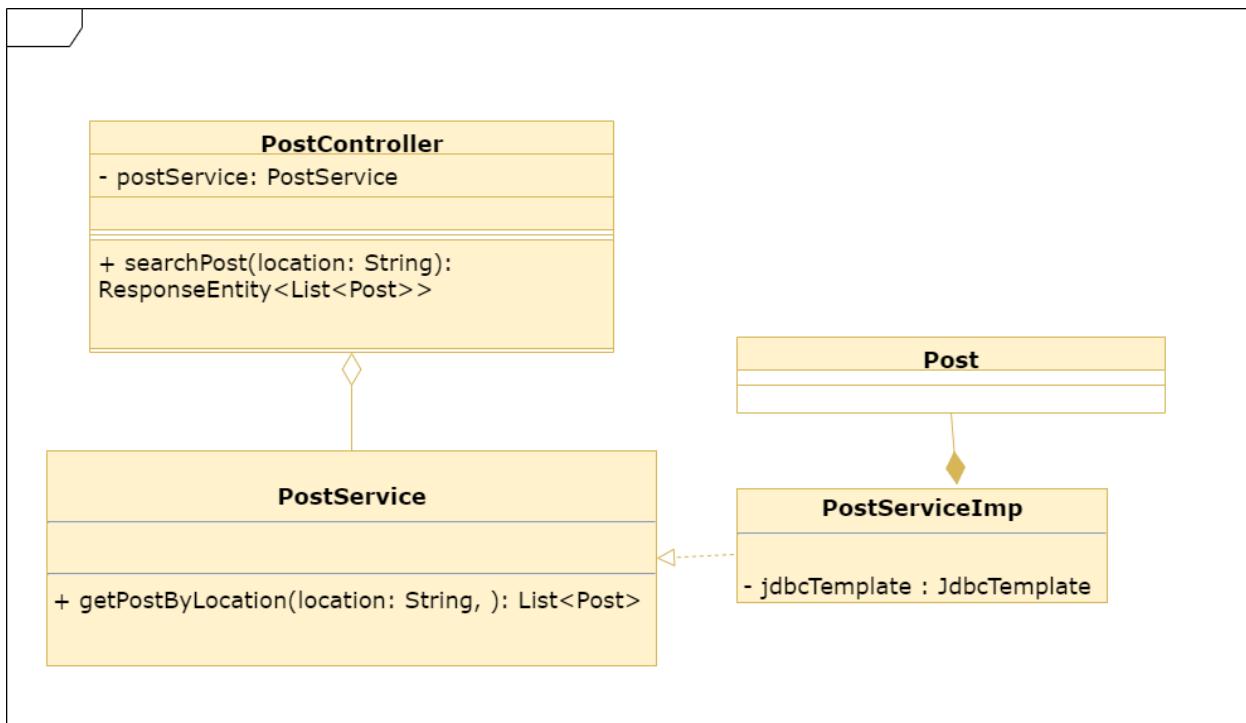


Screen design

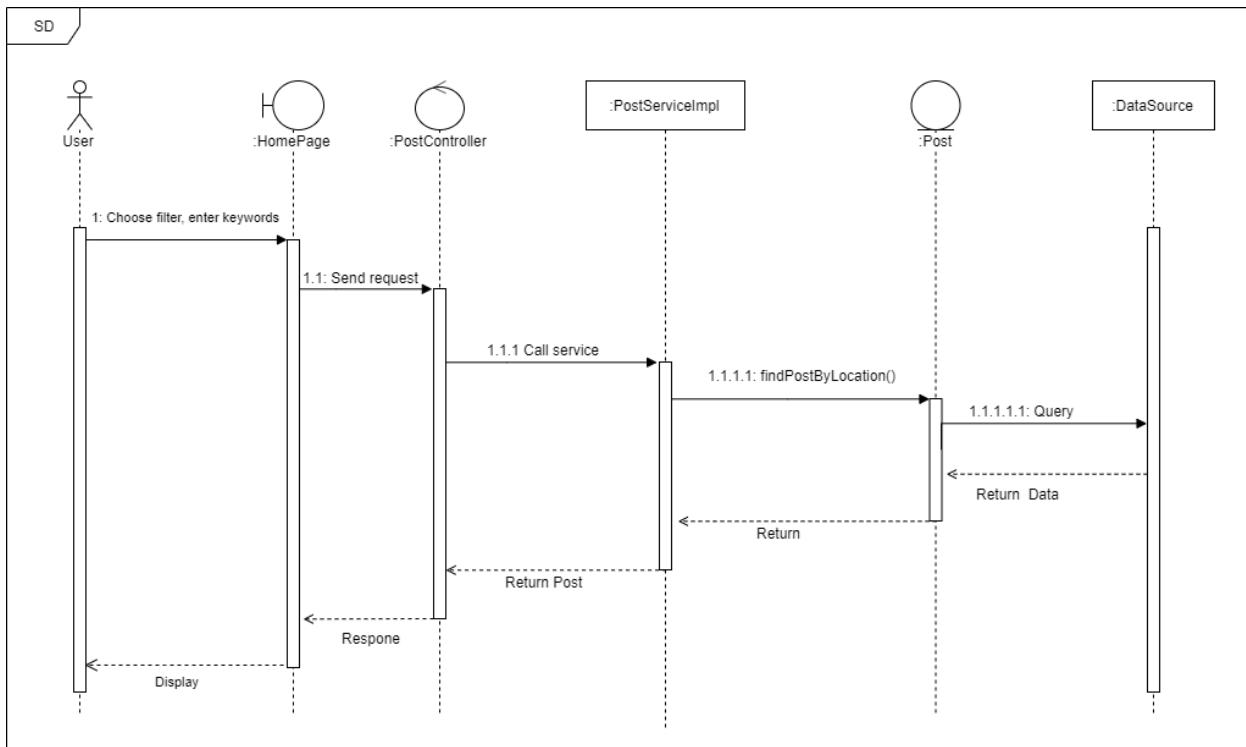


4.4.2.6 Search for post by locations

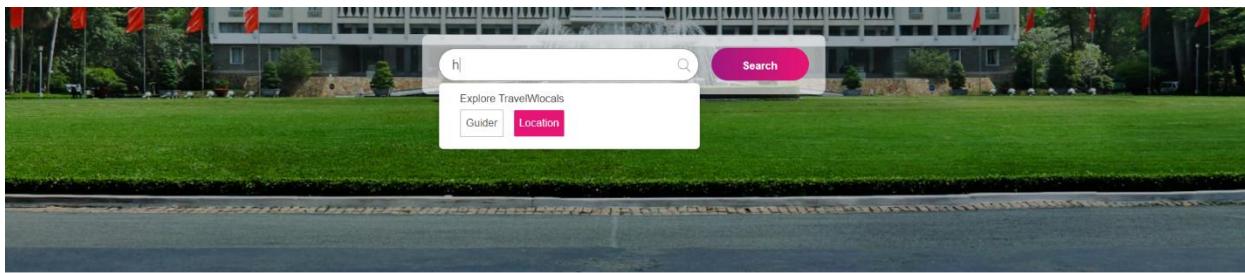
Class diagram



Sequence diagram

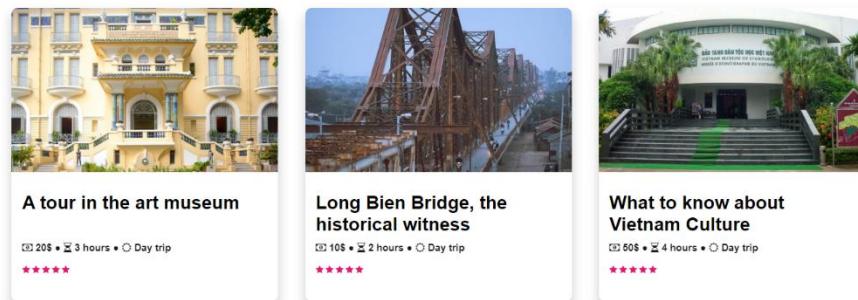


Screen design



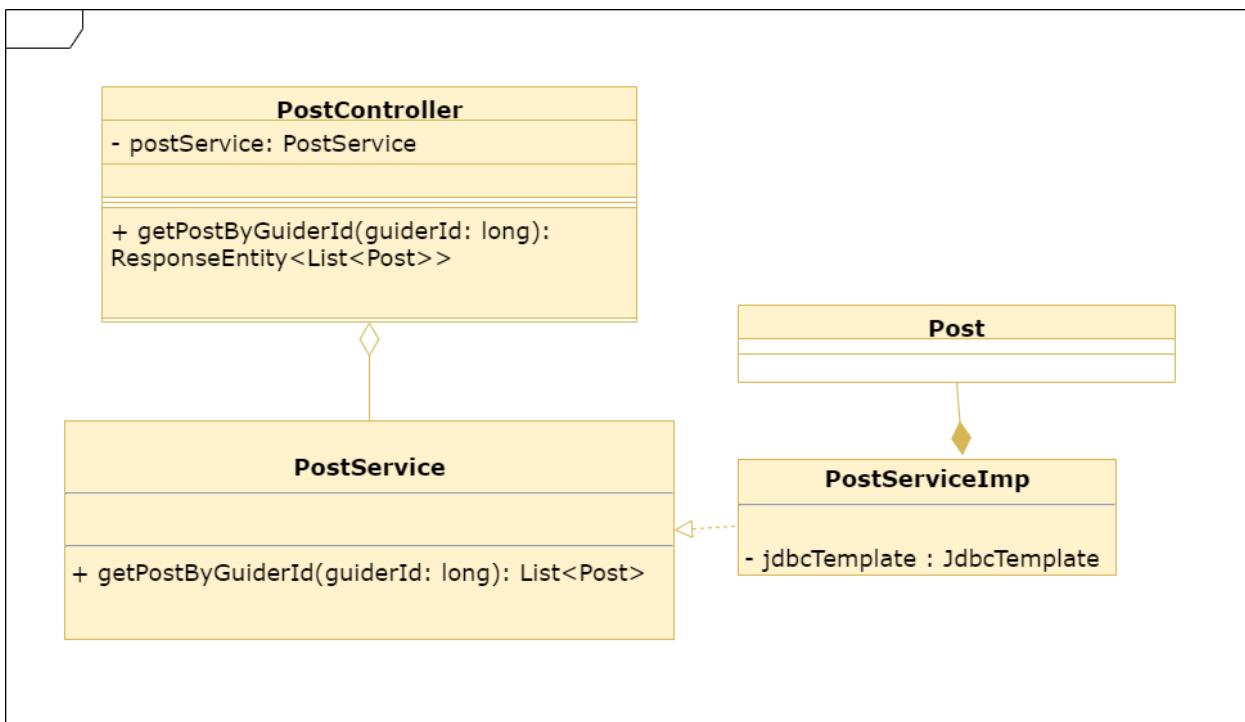
Search Results

All results related to 'h'

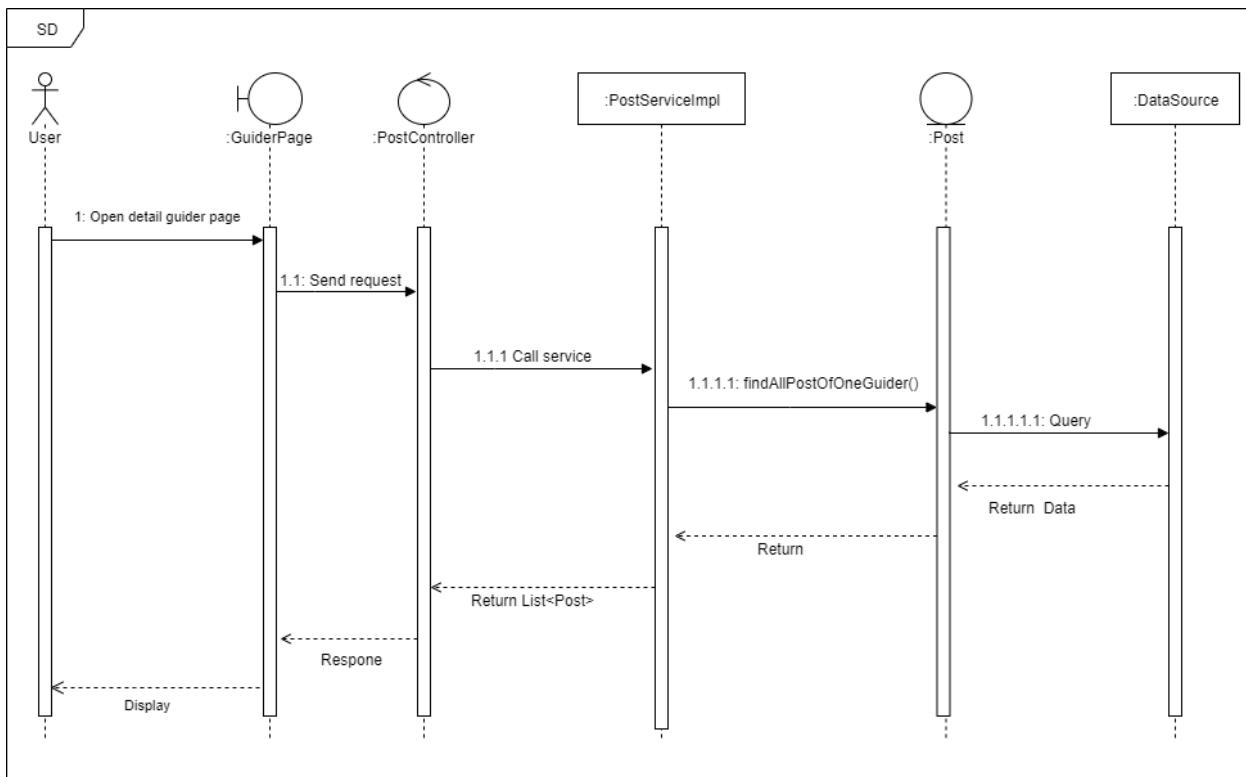


4.4.2.7 View list of post of one guider

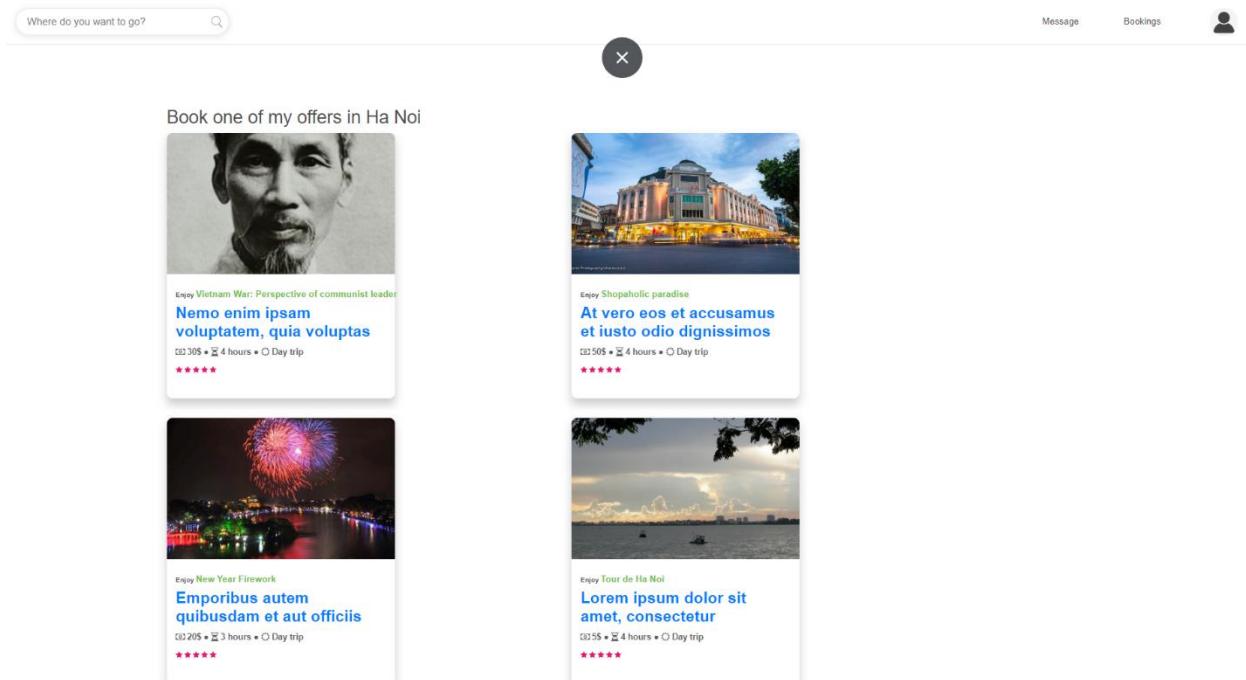
Class diagram



Sequence diagram

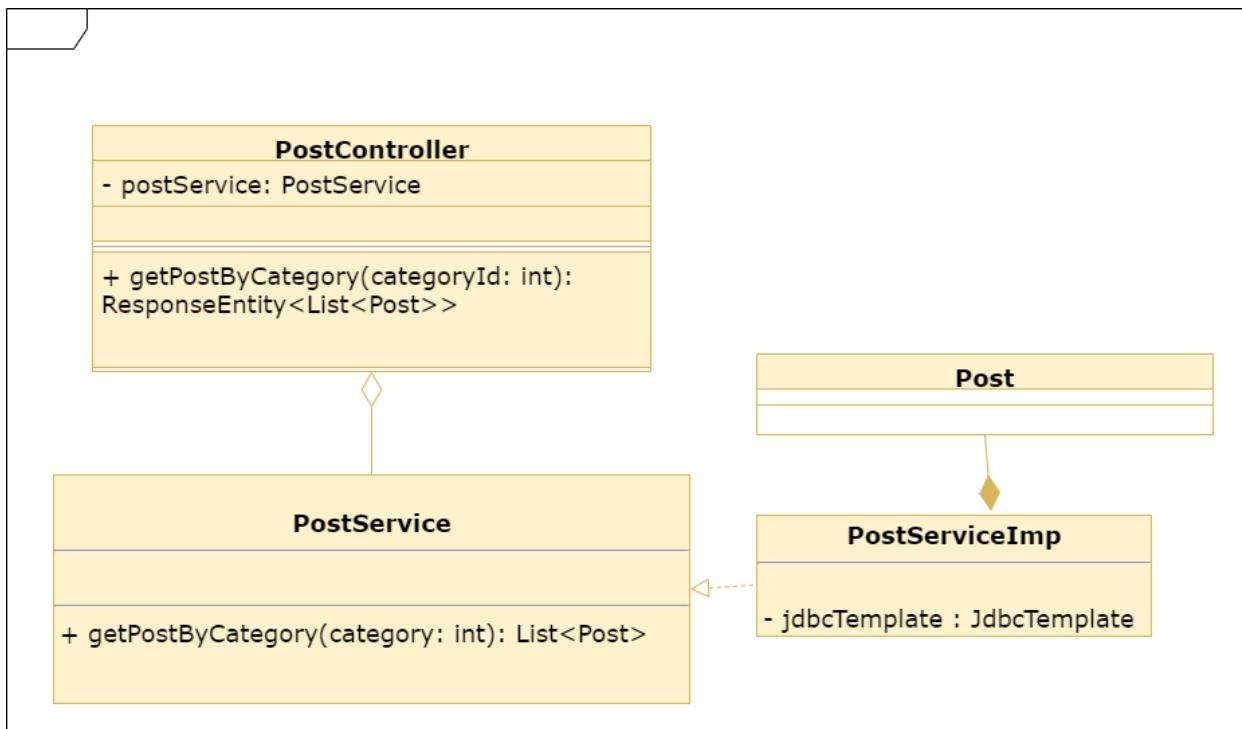


Screen design

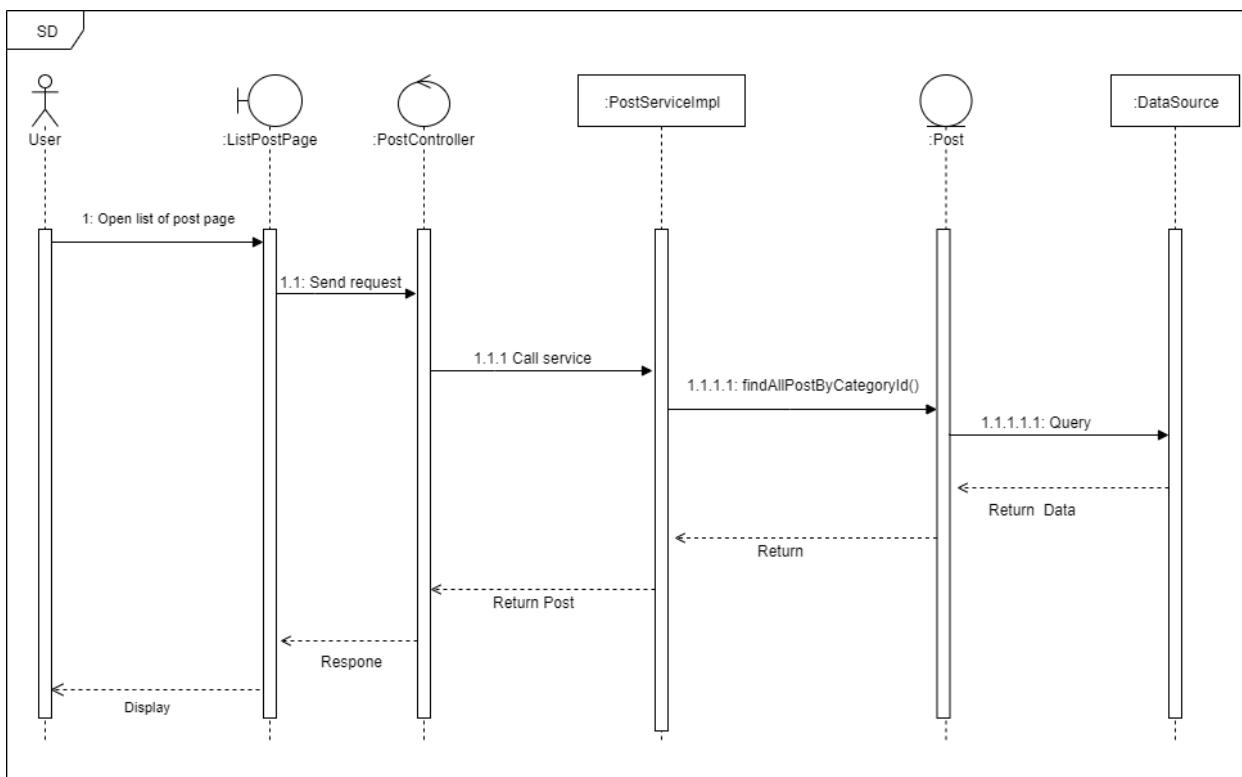


4.4.2.8 View list of post of one category

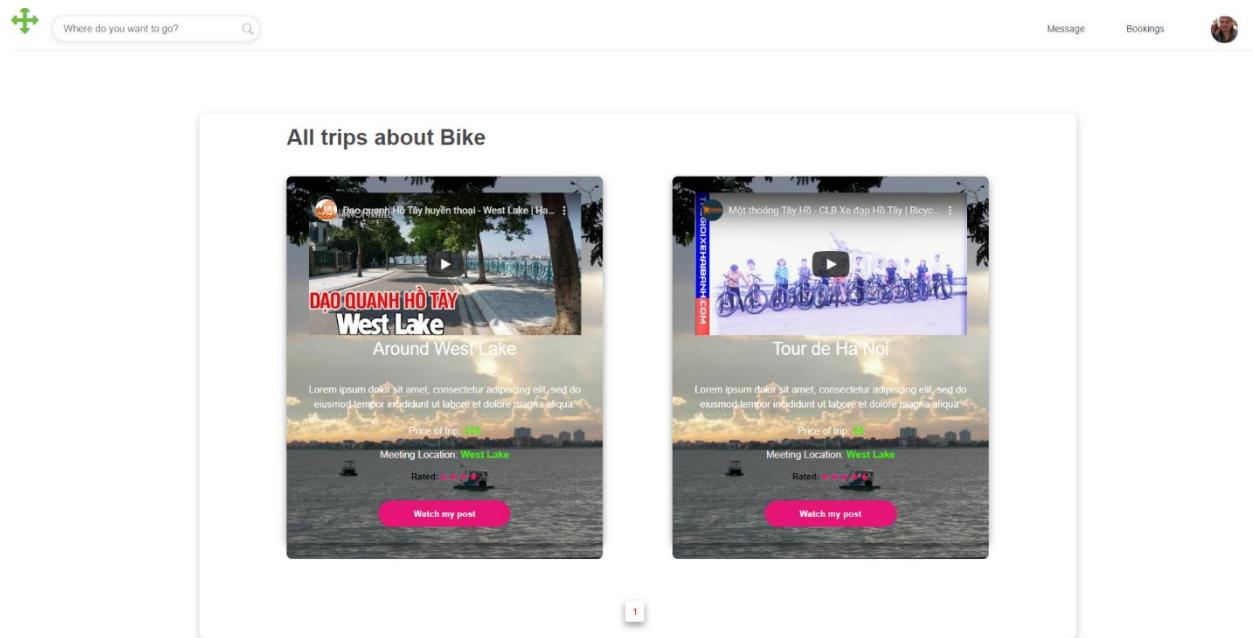
Class diagram



Sequence diagram

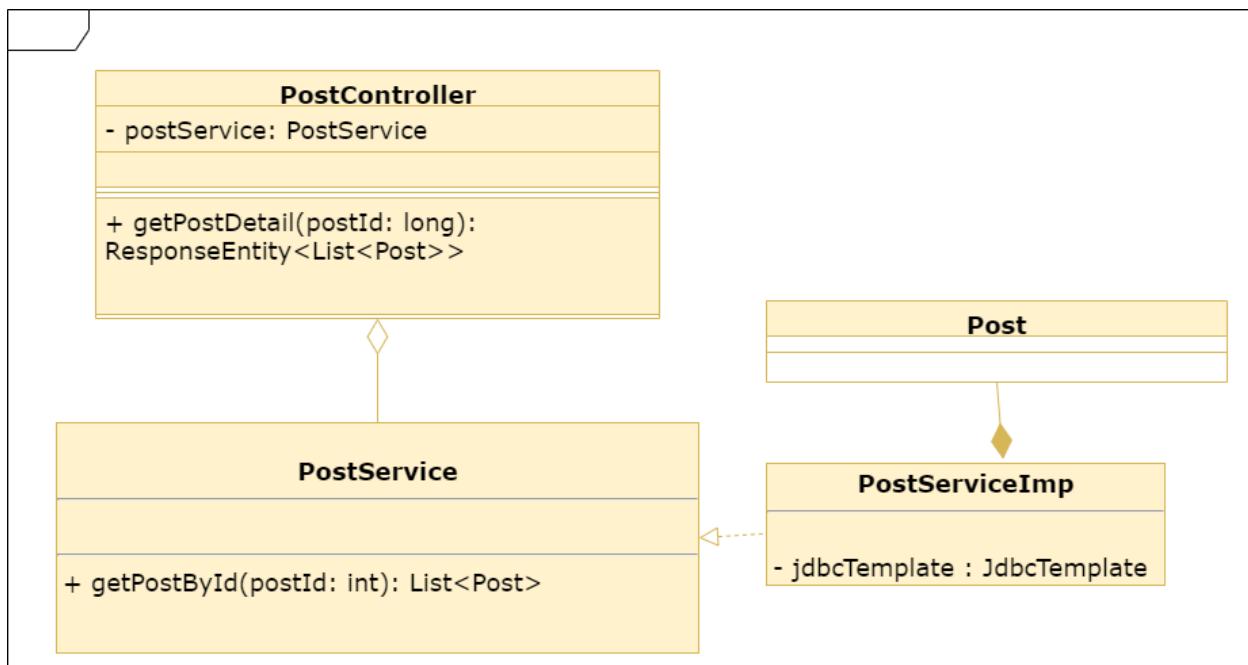


Screen design

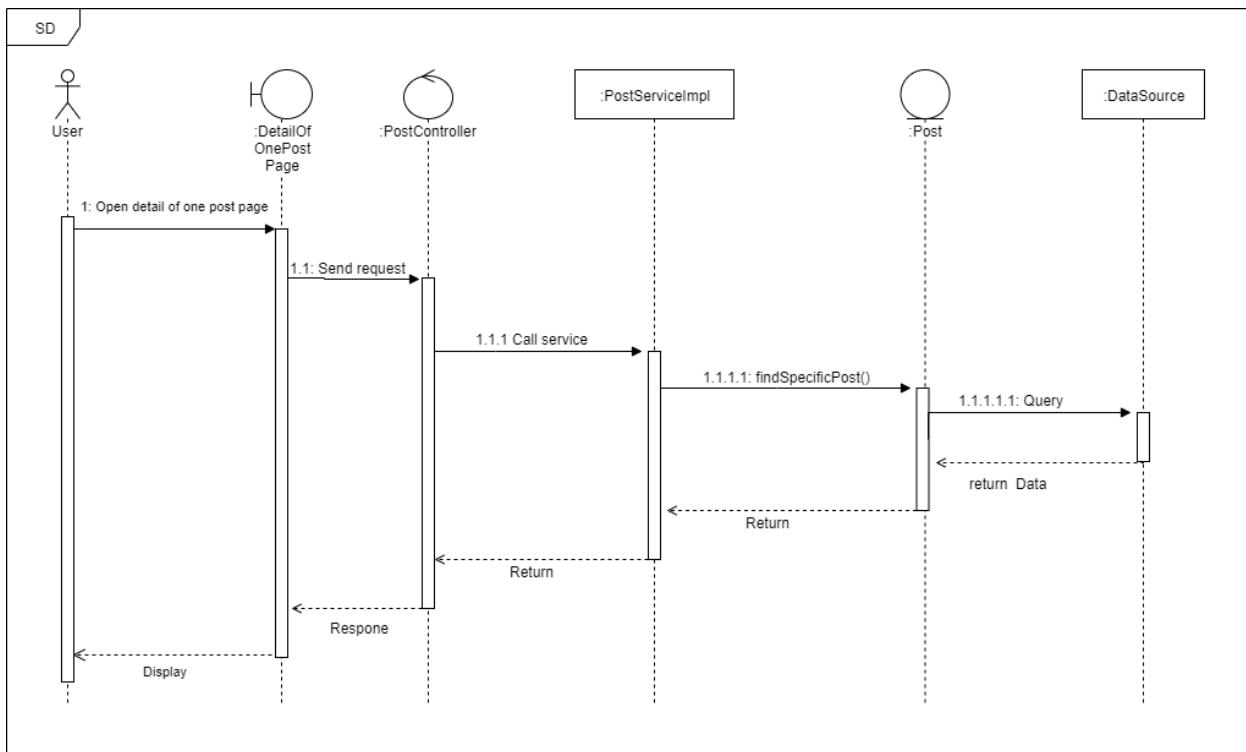


4.4.2.9 View detail of one post

Class diagram



Sequence diagram

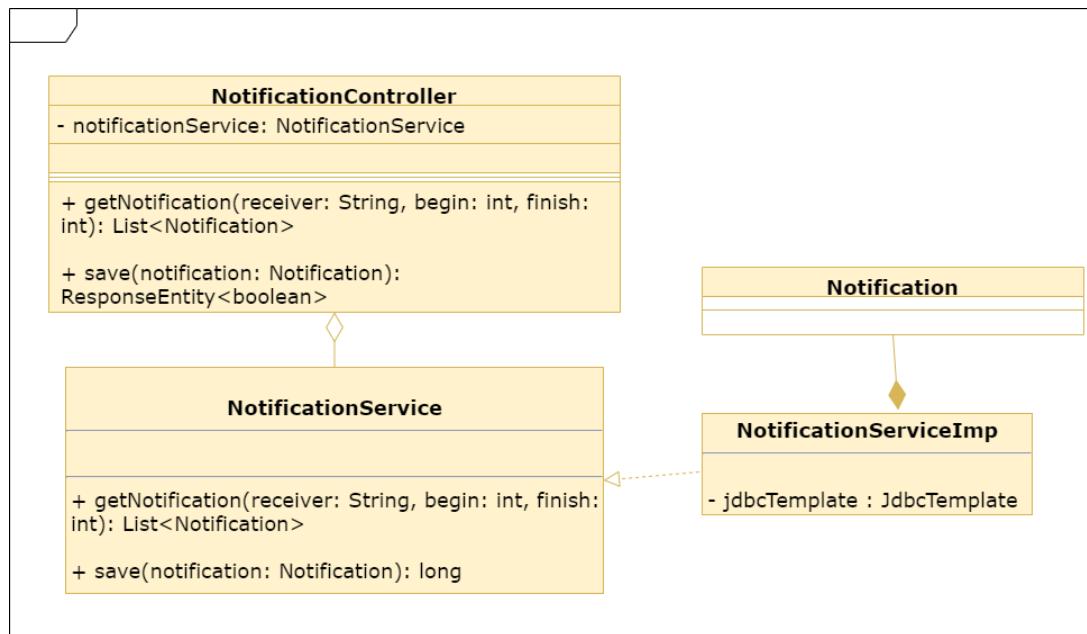


Screen design

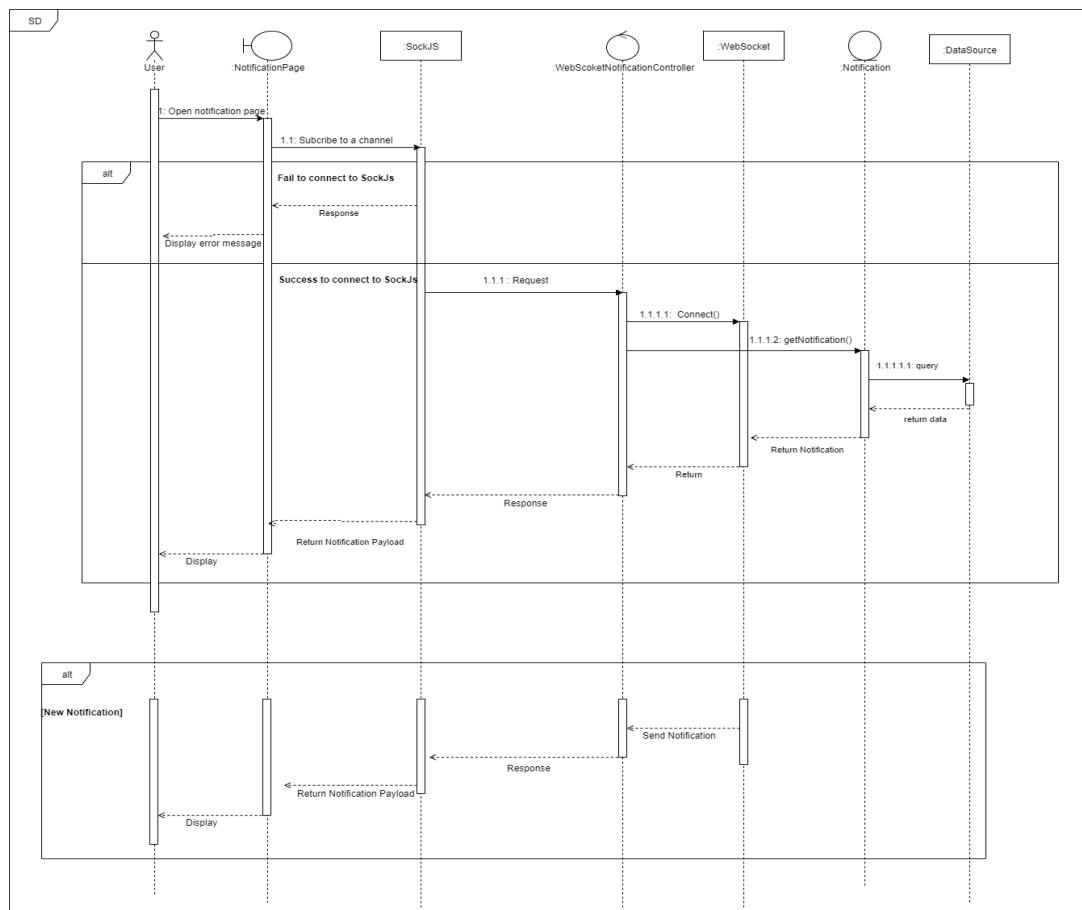


4.4.2.10 Receive notification

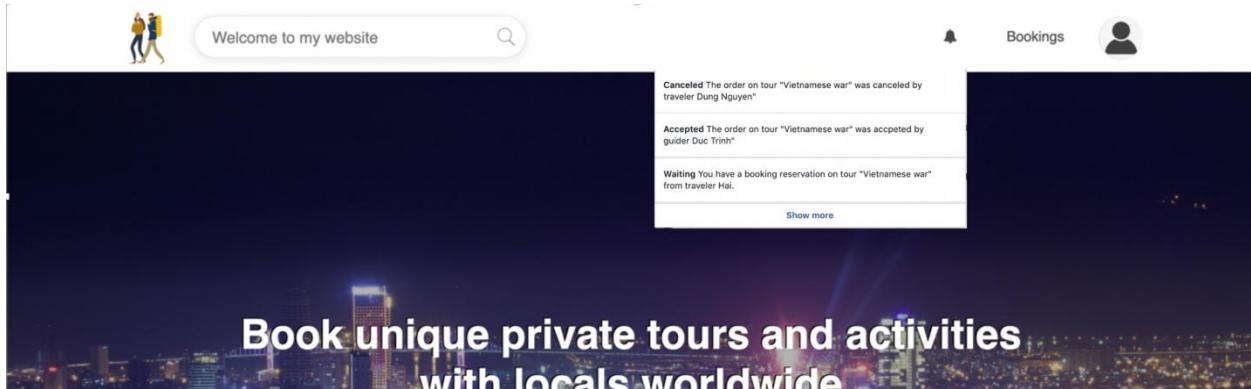
Class diagram



Sequence diagram

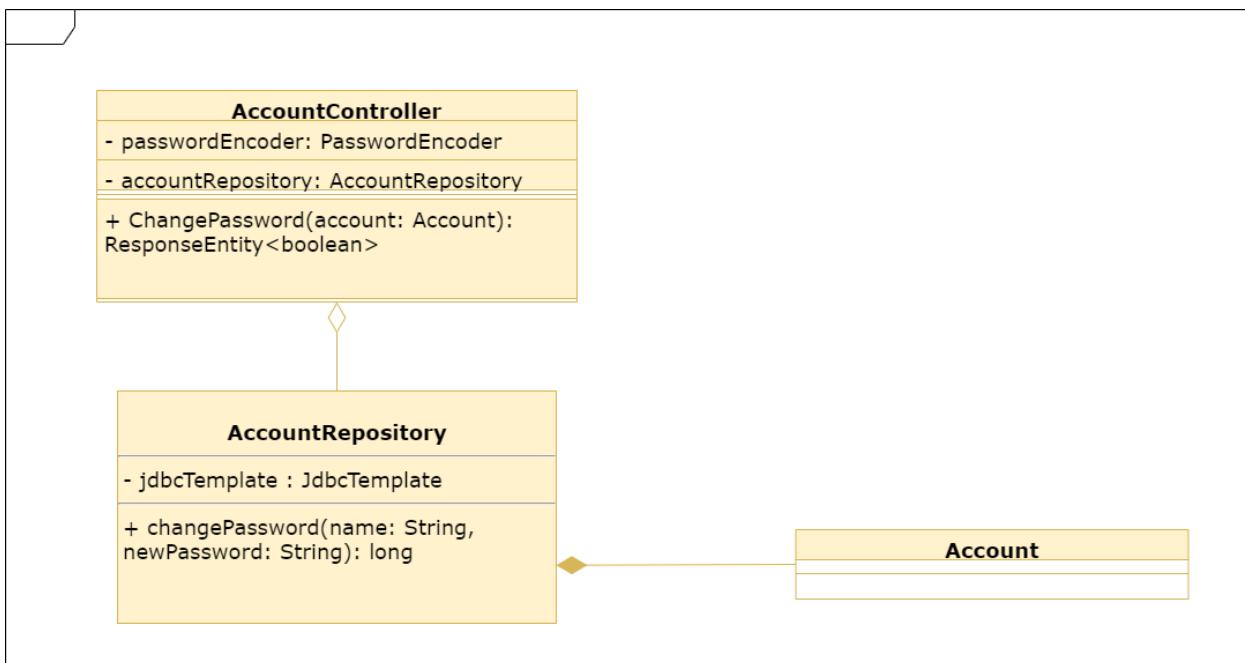


Screen design

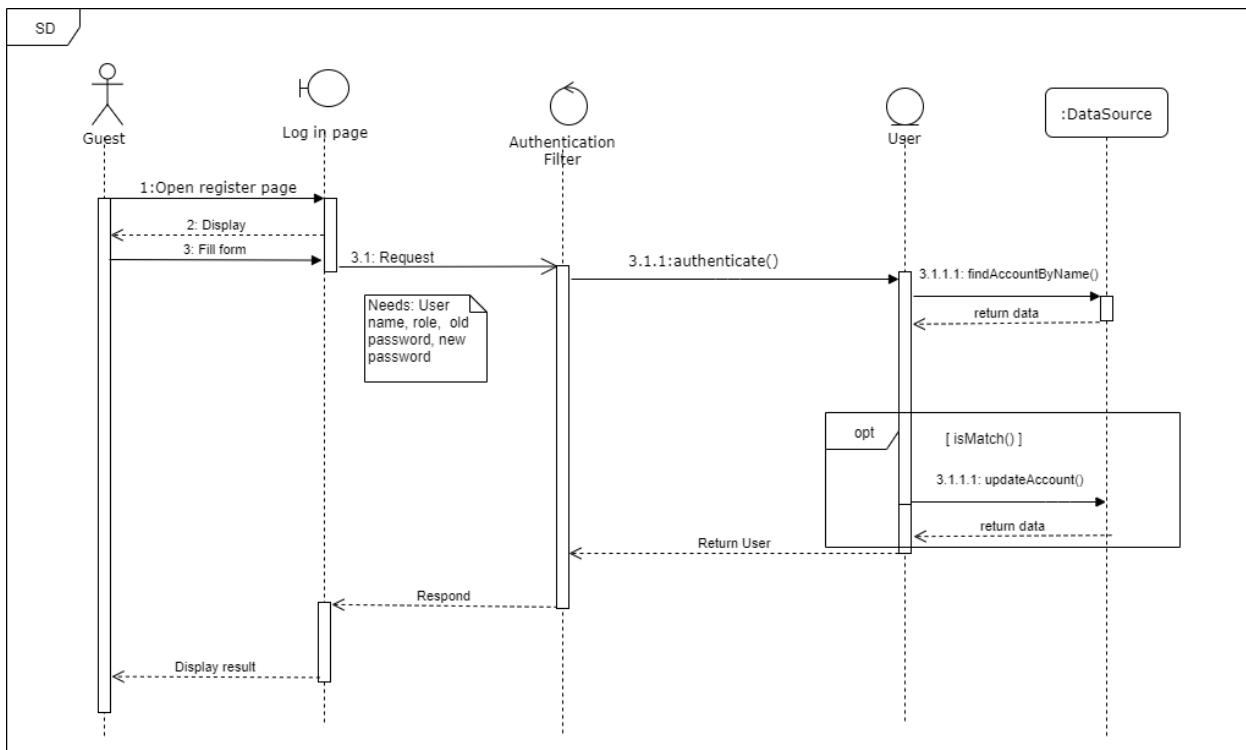


4.4.2.11 Change password

Class diagram



Sequence diagram

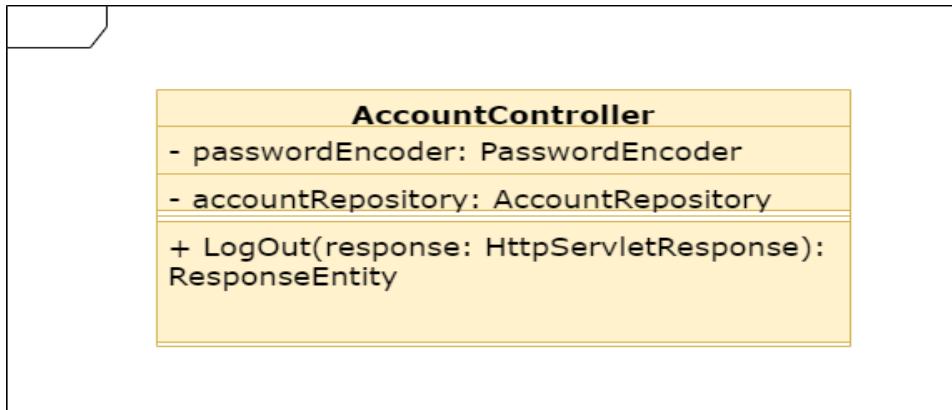


Screen design

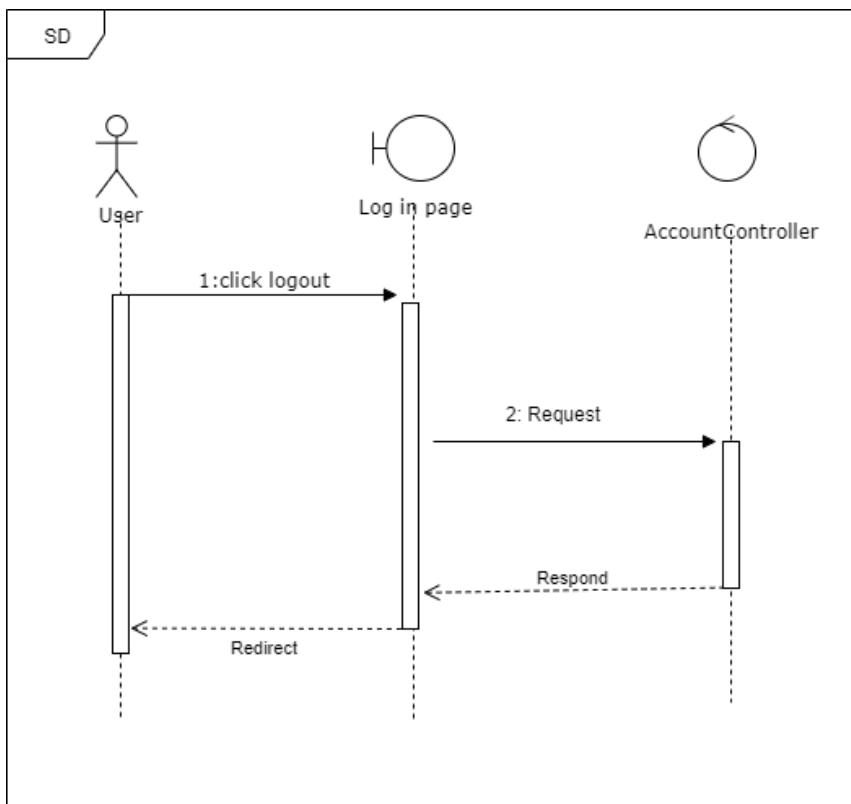
The screenshot shows a user interface for changing a password. At the top, there is a navigation bar with a green icon, a search bar containing 'Where do you want to go?', and links for 'Message' and 'Bookings'. A user profile picture is also present. Below the navigation, the title 'Change Password' is displayed. The form contains three input fields: 'Old password', 'New password', and 'Confirm New password'. Each field is preceded by a label and followed by a red placeholder box. A blue 'Change password' button is located at the bottom of the form.

4.4.2.12 Log out

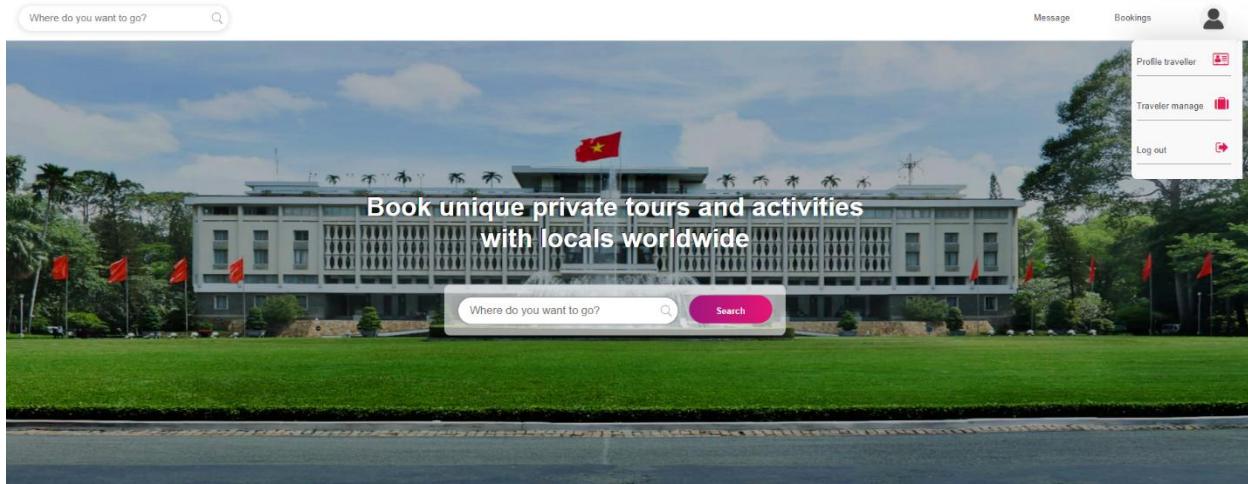
Class diagram



Sequence diagram

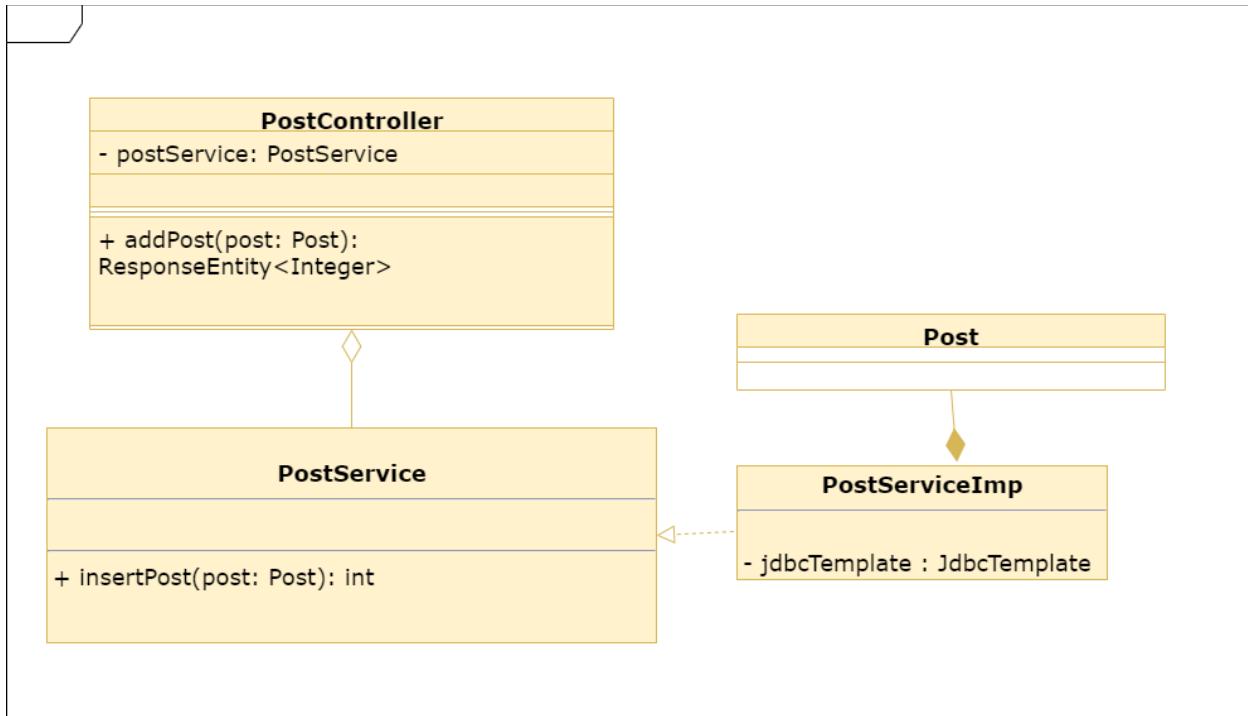


Screen design

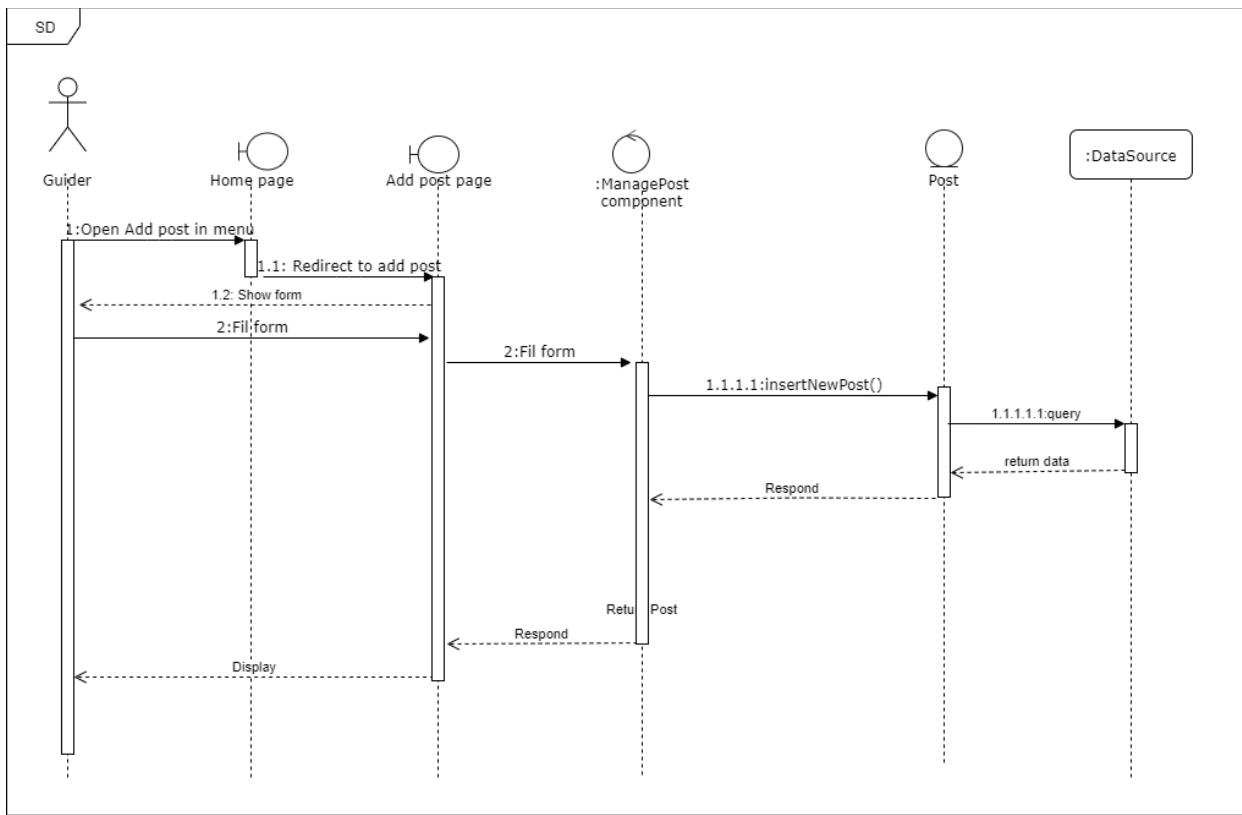


4.4.2.13 Add post

Class diagram



Sequence diagram



Screen design

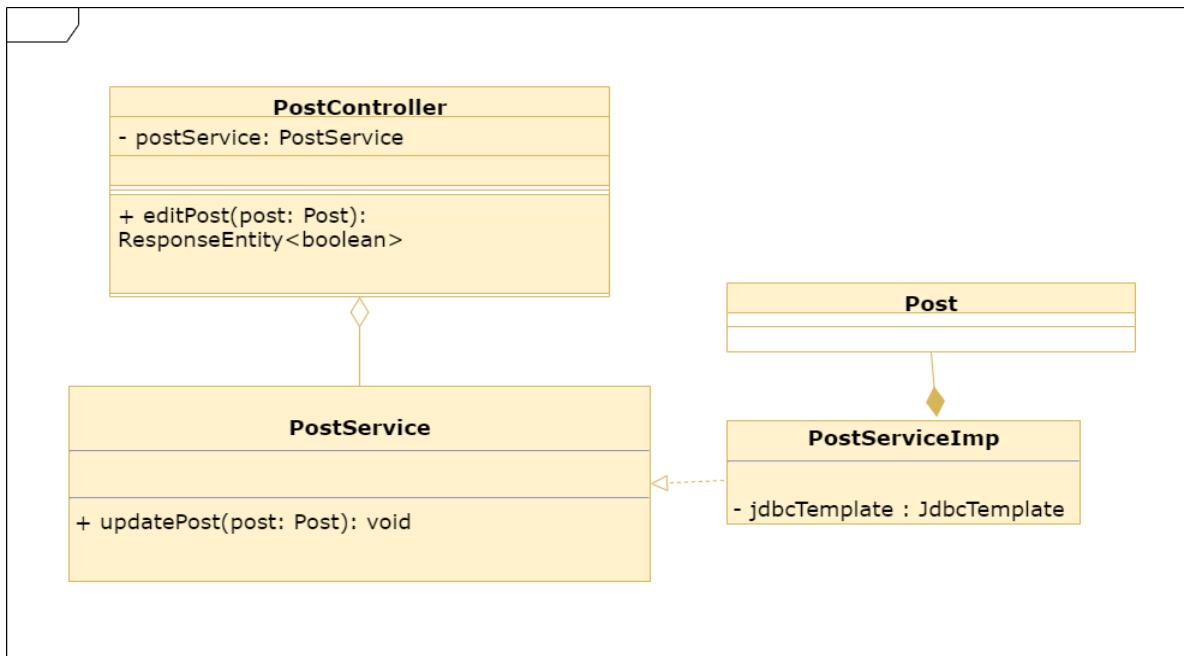
The screenshot shows the 'Create Post' form. The form fields include:

- Location: Art Museum
- Category: Art
- Trip Fee: \$
- Post title:
- Introduce video link:
- Introduce Pictures: Choose Files (No file chosen)
- Estimate trip duration:
- Depicture your trip:
- Including service: (Add, Delete buttons)
- Meeting point:
- Activities in trip: (Add button)
- Why to pick you: (Add, Delete buttons)

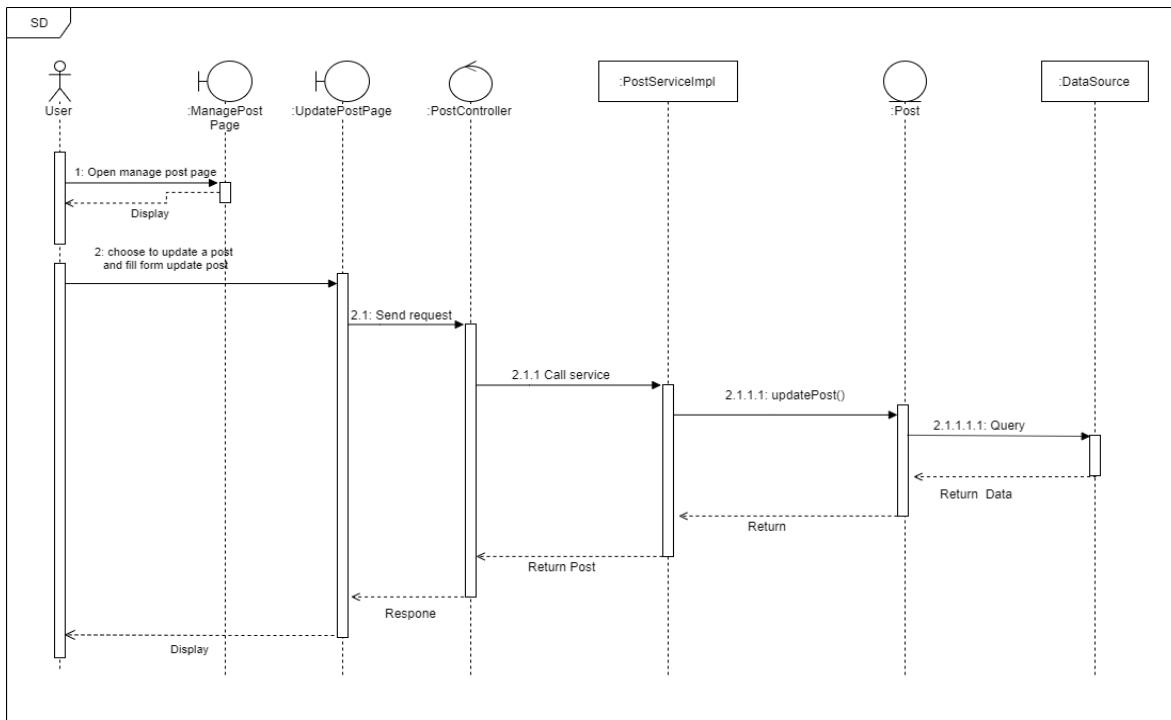
Below the form, there are 'Reset' and 'Submit' buttons. To the right of the form, there is a sidebar with links: Profile, Edit Post, Add Post, Schedule, Change Password, Contract, Your Income, and Log out.

4.4.2.14 Edit post content

Class diagram



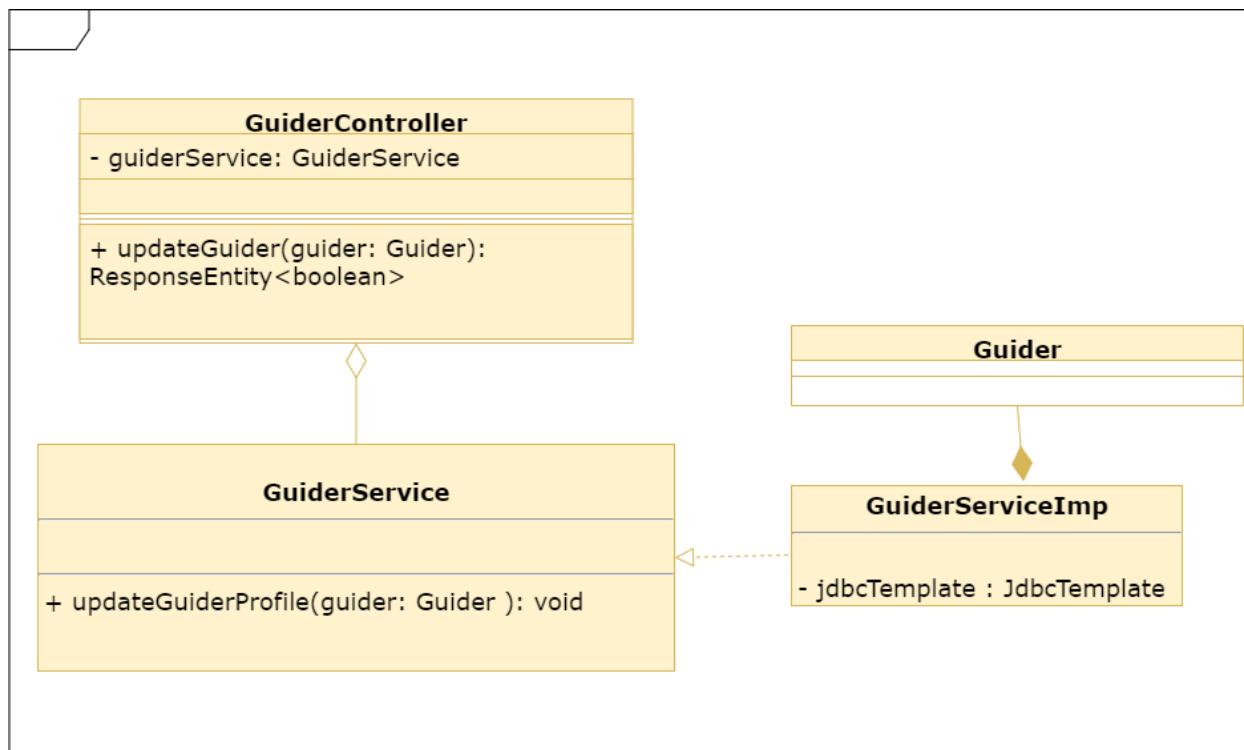
Sequence diagram



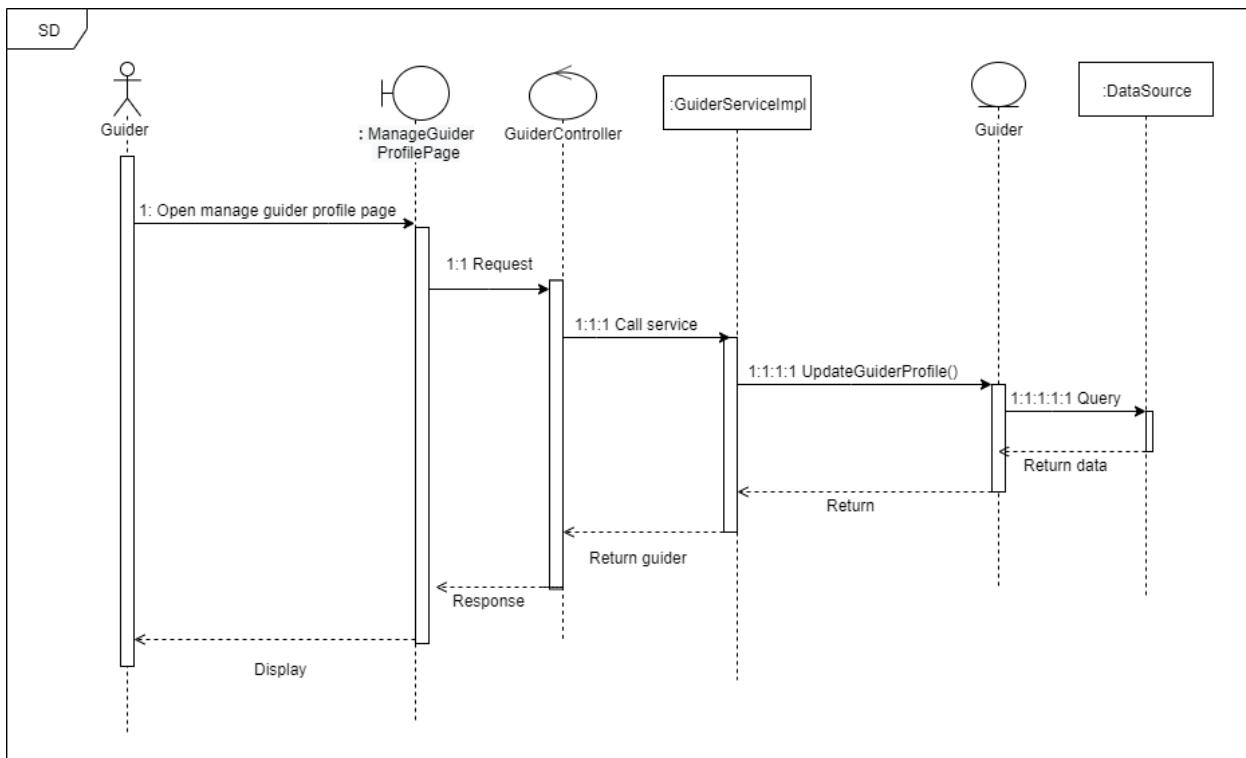
Screen design

4.4.2.15 Edit guider profile

Class diagram



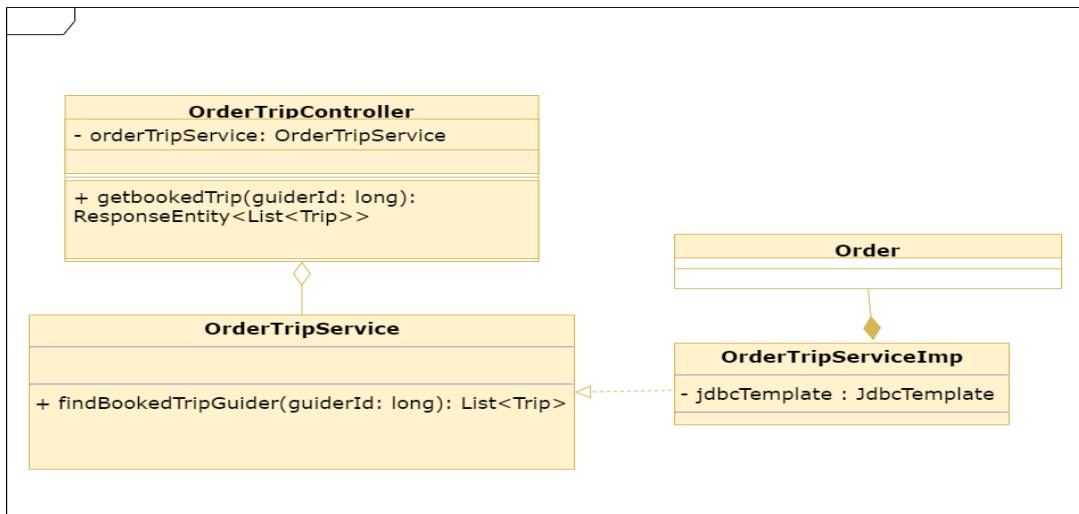
Sequence diagram



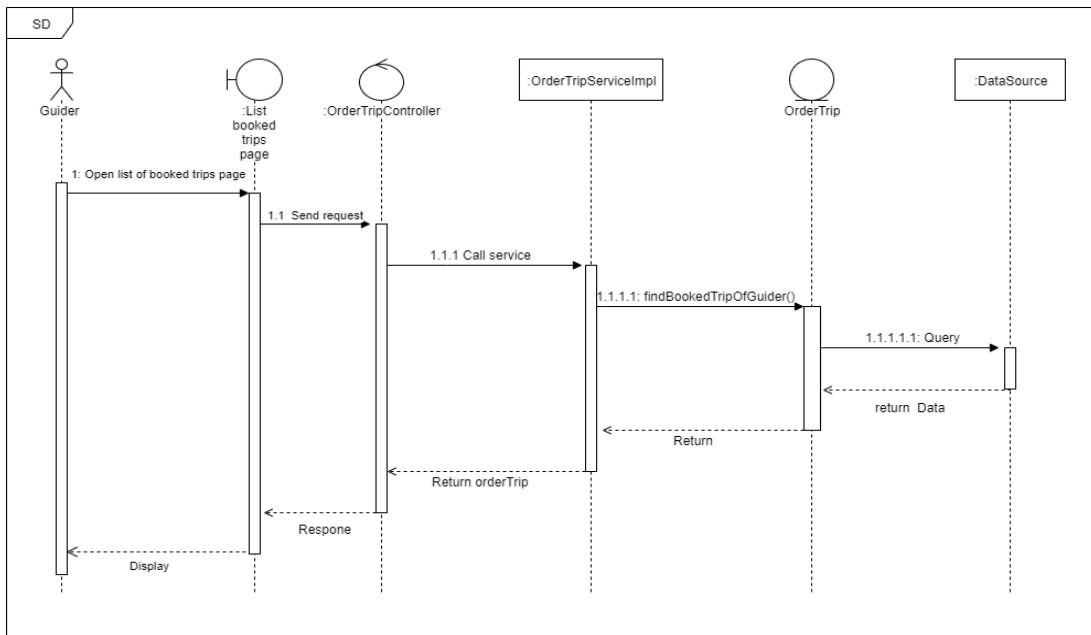
Screen design

4.4.2.16 View list of booked trip

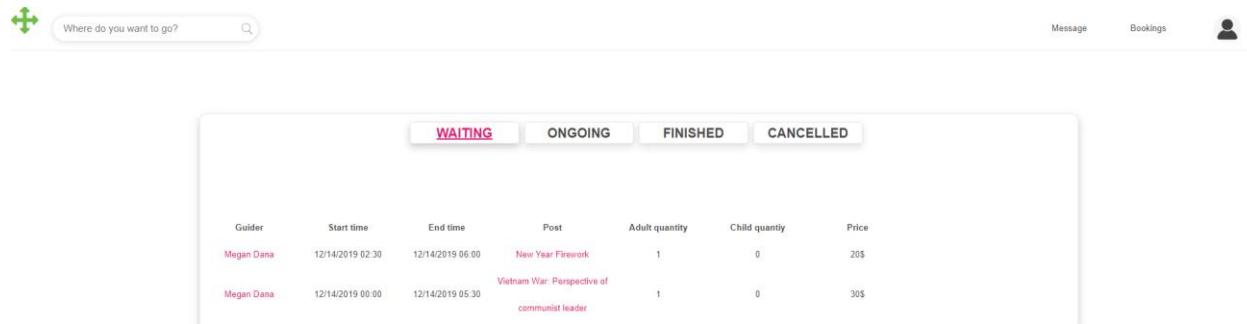
Class diagram



Sequence diagram

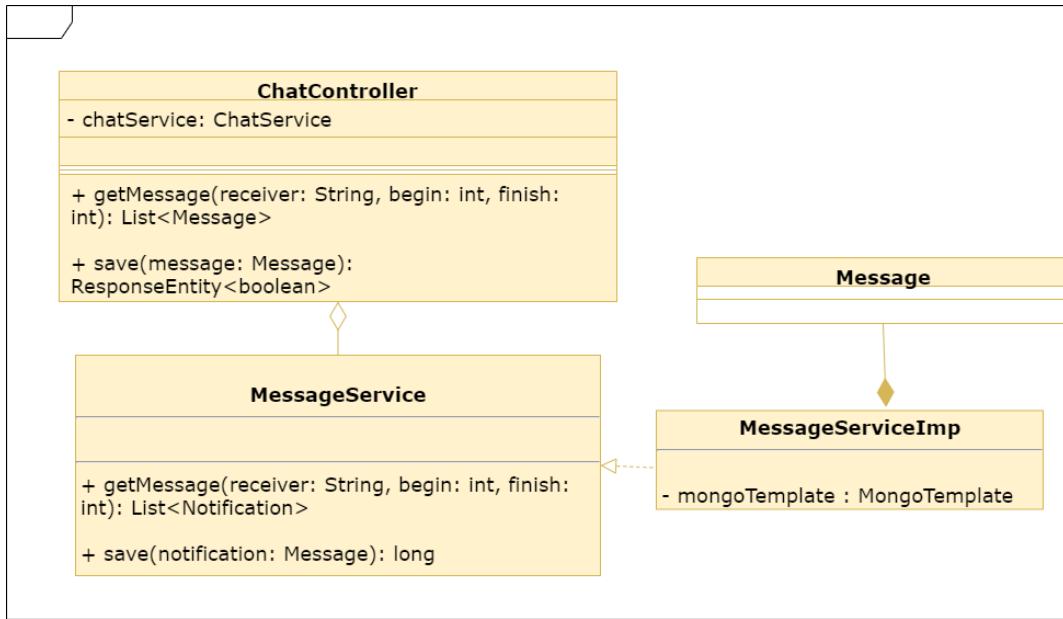


Screen design

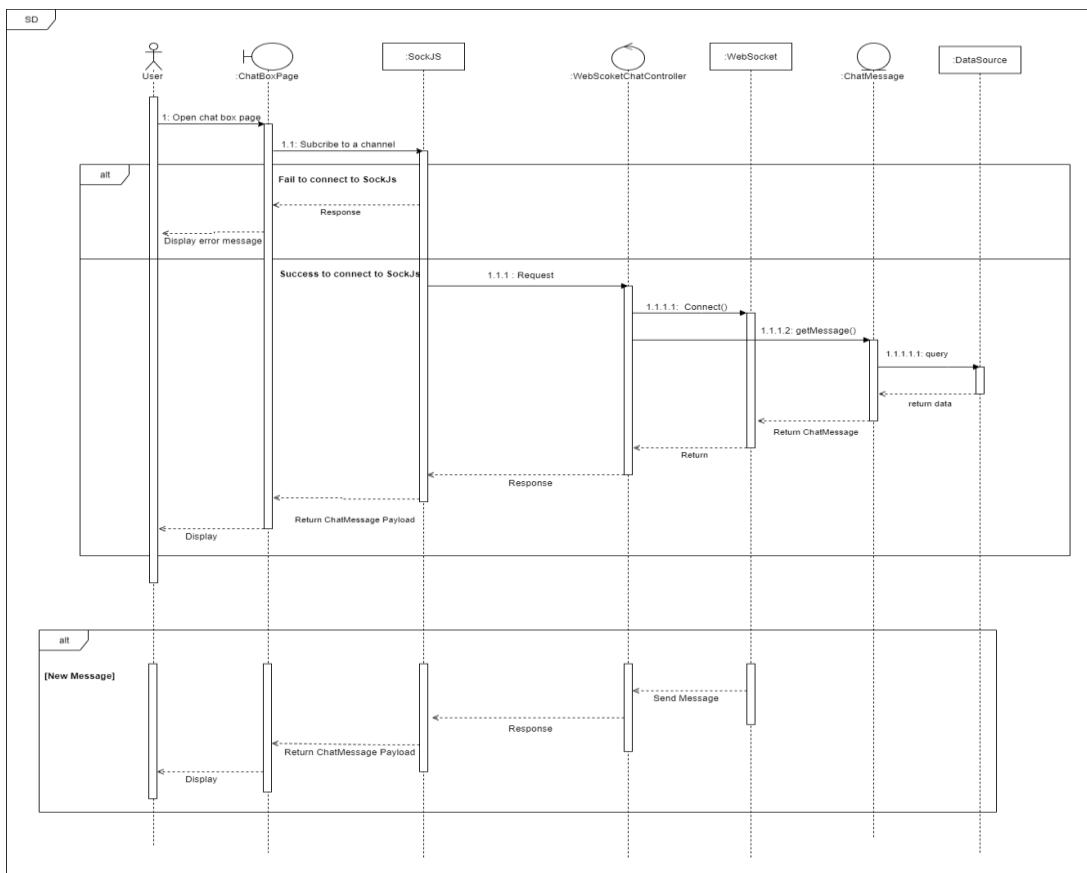


4.4.2.17 Chat with traveler

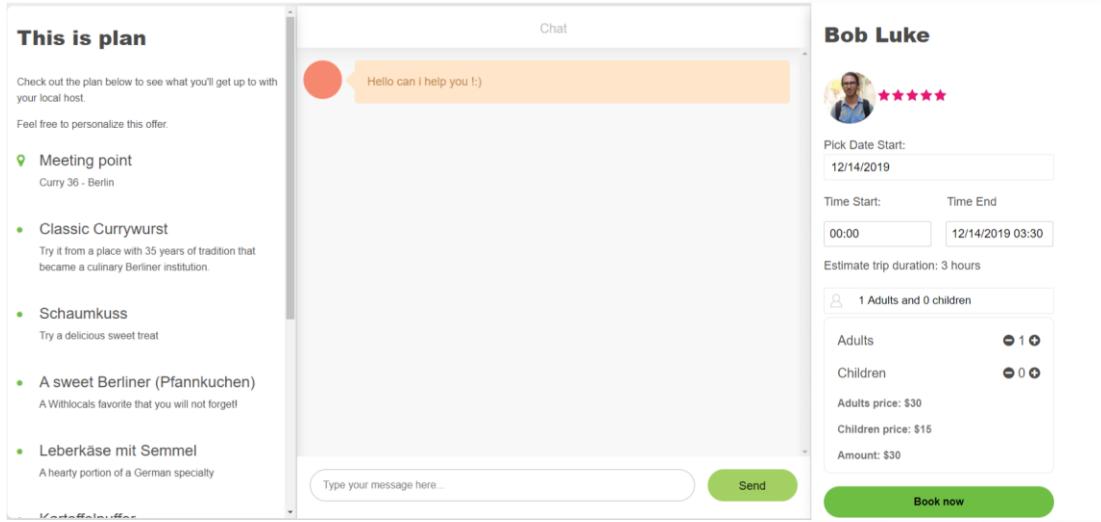
Class diagram



Sequence diagram

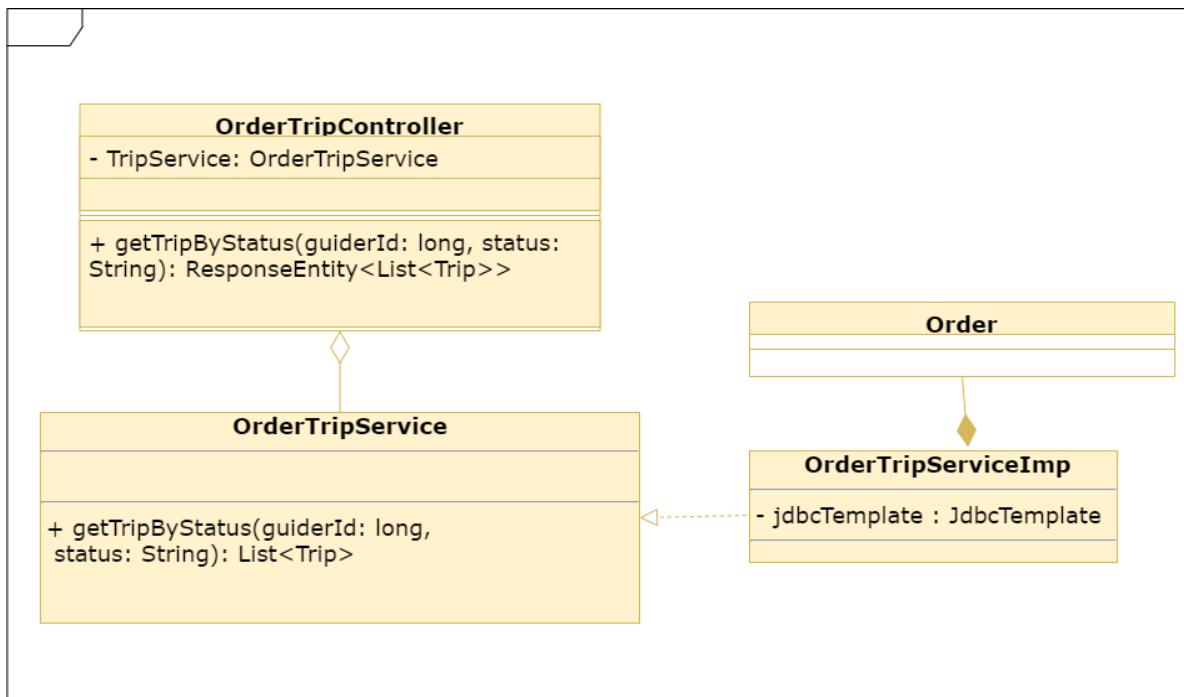


Screen design

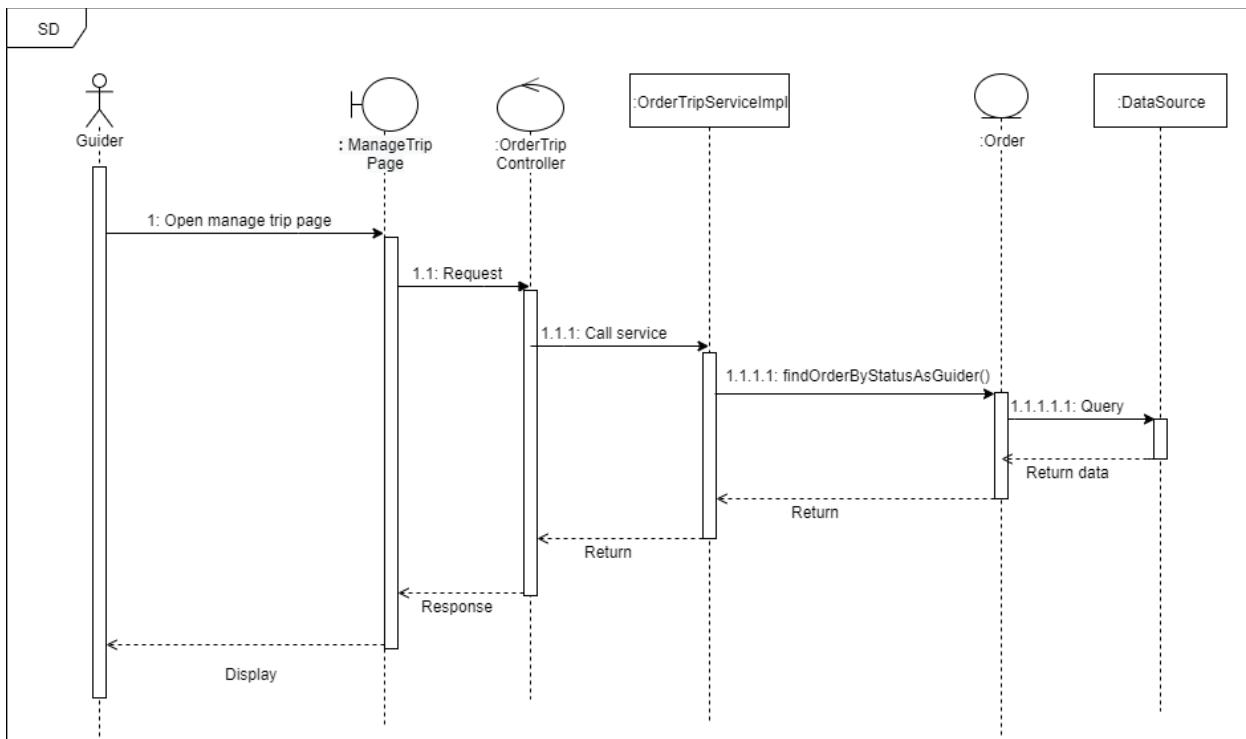


4.4.2.18 Manage traveler's trip booking

Class diagram



Sequence diagram

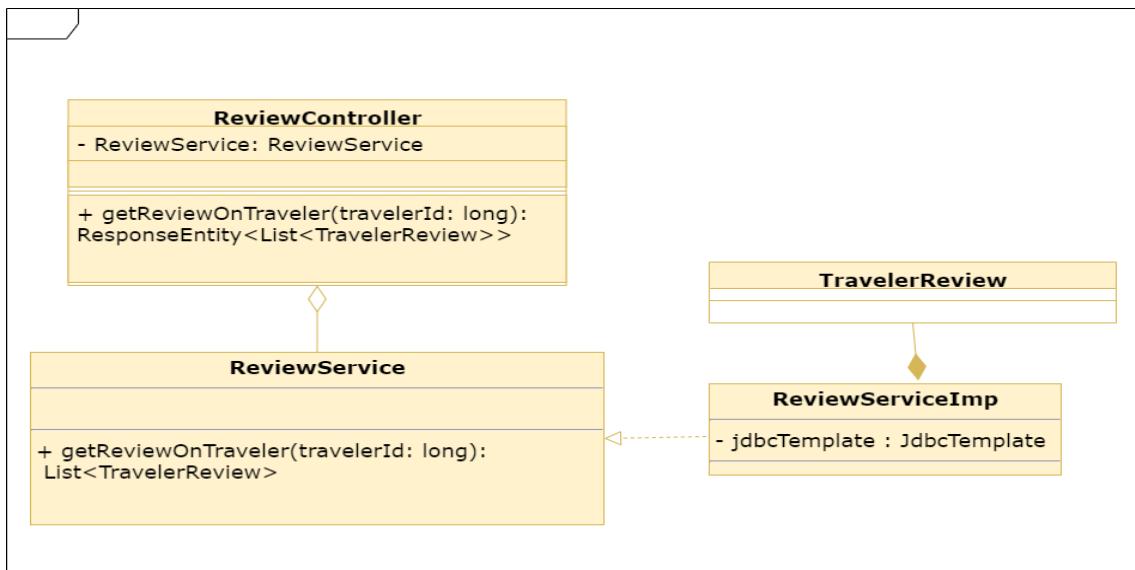


Screen design

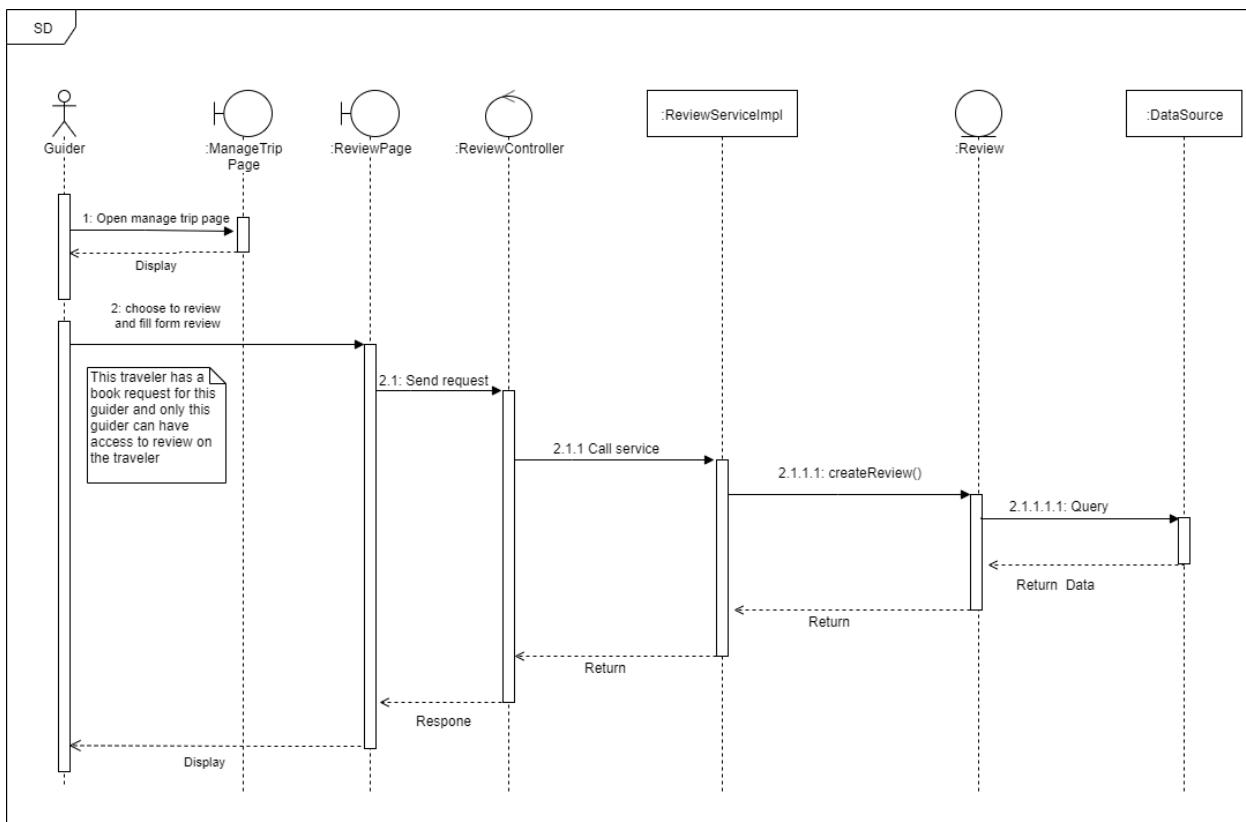


4.4.2.19 View reviews on requesting travelers

Class diagram



Sequence diagram



Screen design

Jill Langley



Gender: Other
I speak EN
Phone number: 651651616561
Date of birth: 1996-04-23
Country: England

Reviews

 **Jacky** 2018-10-25
She is a very funny person
Jacky The Guider!

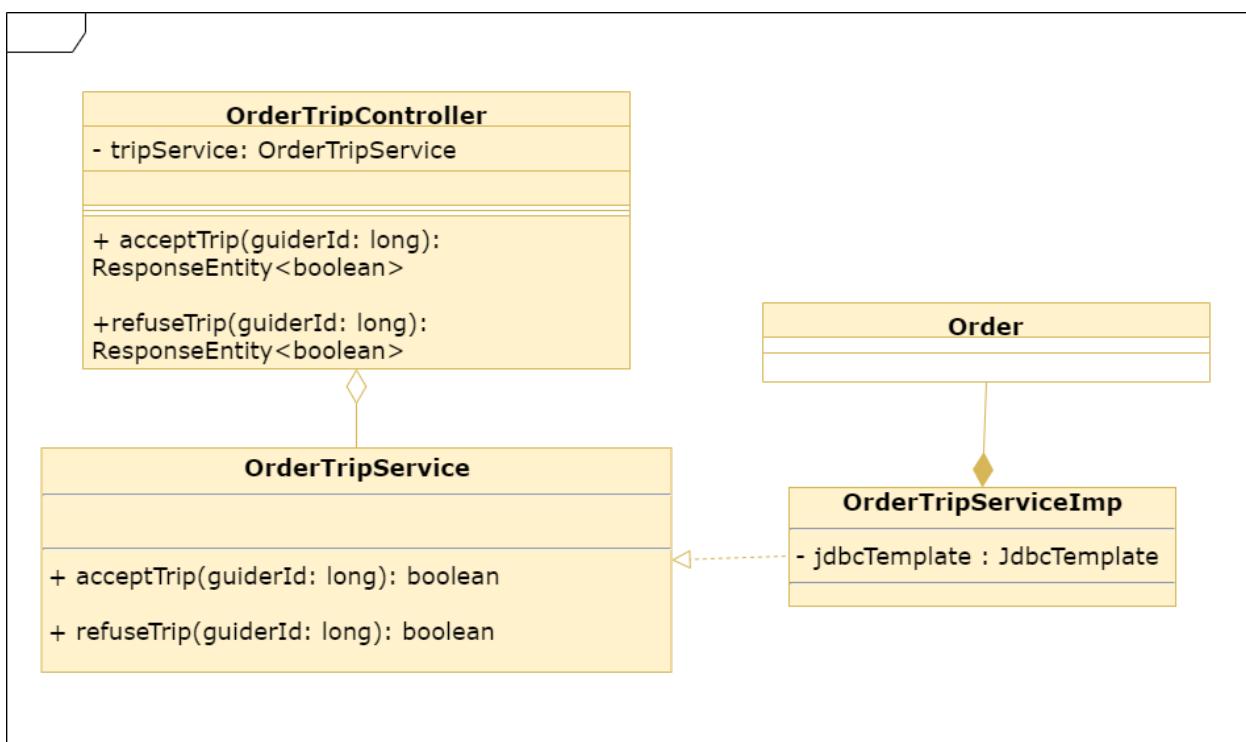
 **Bob** 2018-06-24
Very chill and relax
Bob The Guider!

 **Bob** 2018-06-24
Greatest company to go around with
Bob The Guider!

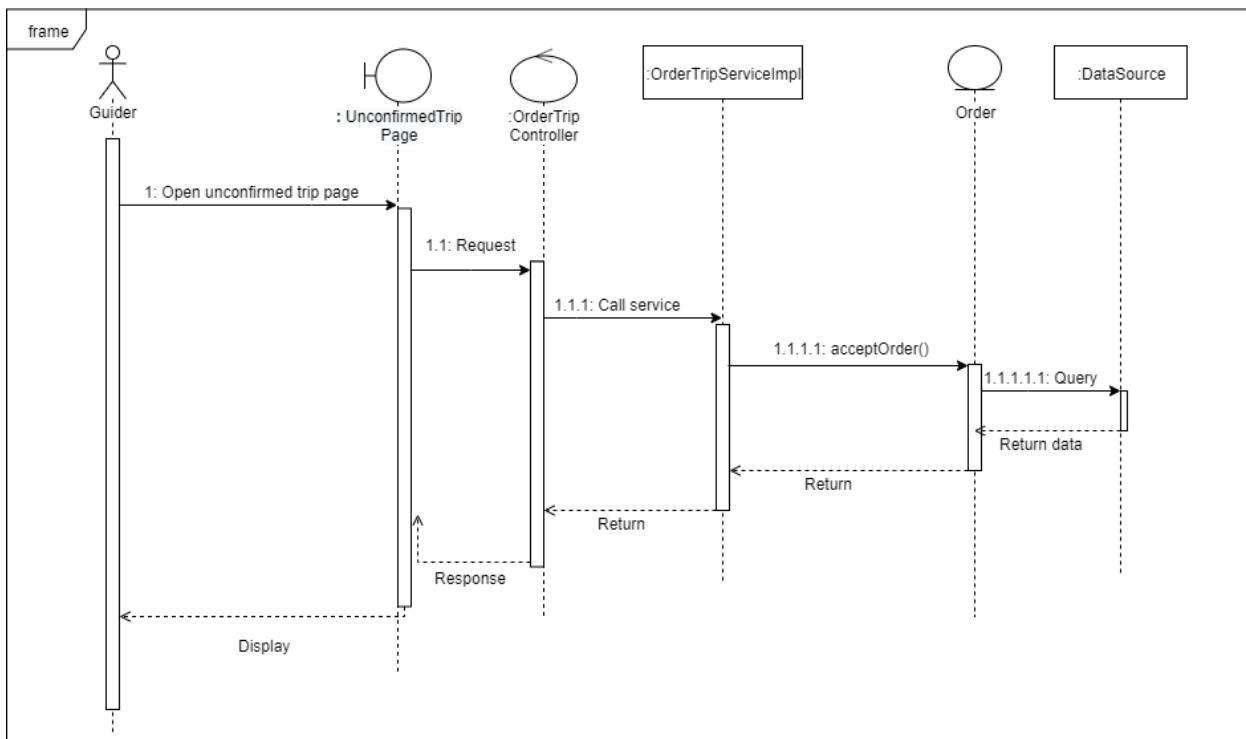
 **lengthse04937** 2019-12-14
Ban Dung Cute
lengthse04937 The Guider!

4.4.2.20 Accept/Cancel a trip

Class diagram



Sequence diagram



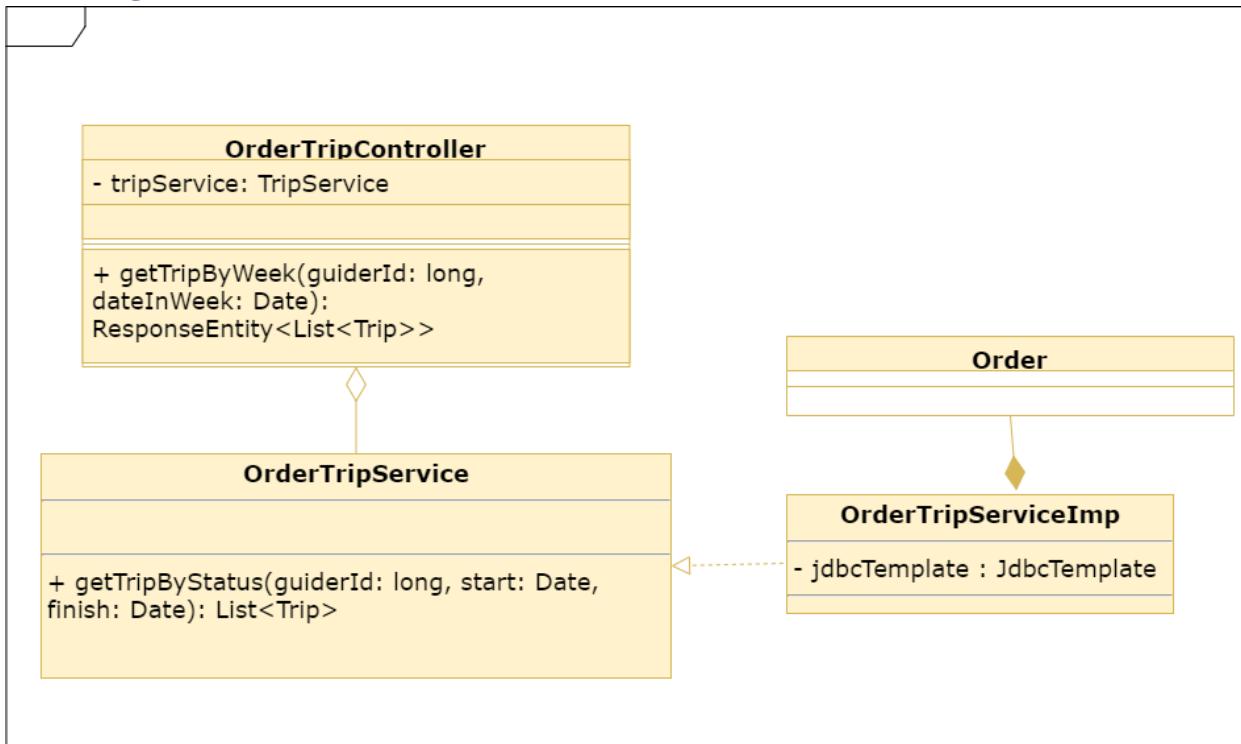
Screen design

The screenshot shows a web application interface. At the top, there is a navigation bar with icons for user profile, bookings, and a search bar. Below the navigation bar, there is a table displaying a list of bookings. The table has columns for Traveller, Start time, End time, Post, Adult quantity, Child quantity, Price, and Action. The table shows two entries, both of which are 'A tour in the art museum' for 'Jill Langley' on 12/14/2019 at 13:54. The first entry has 'Adult quantity' as 2, 'Child quantity' as 1, and 'Price' as 150. The second entry has the same values. Each entry has two buttons in the 'Action' column: 'Accept' (blue) and 'Refuse' (red).

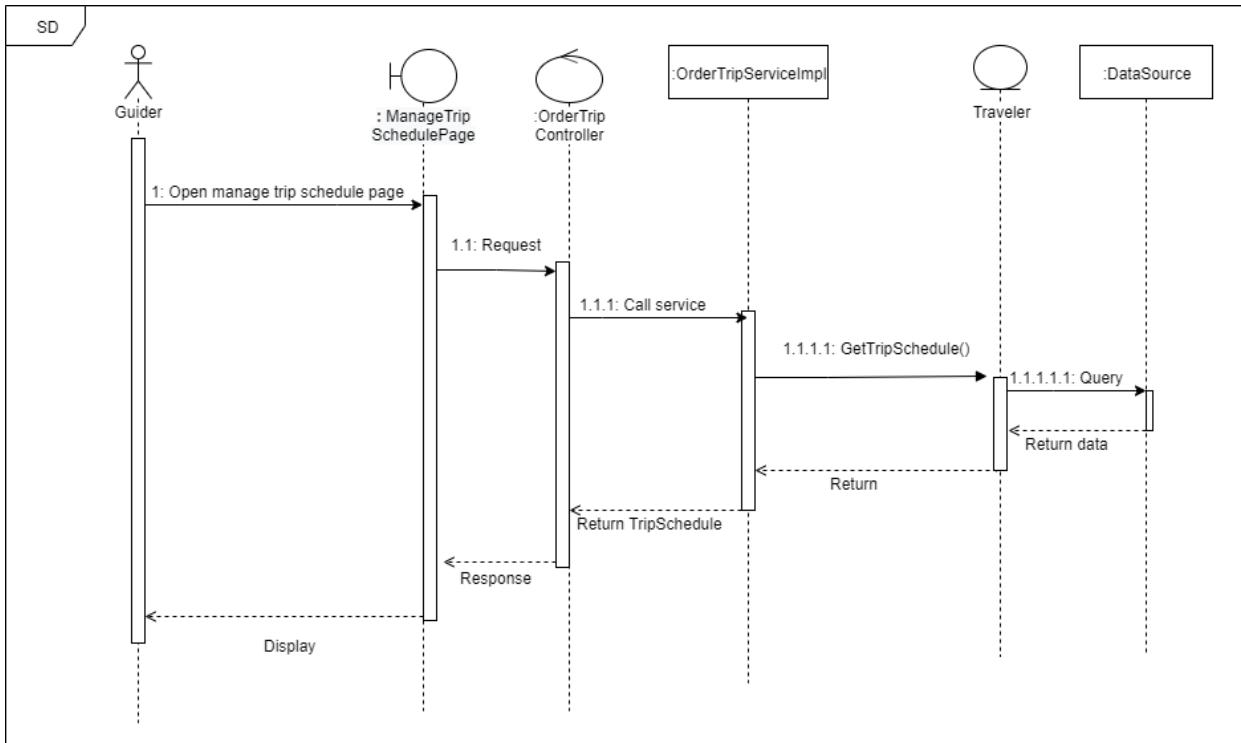
Traveller	Start time	End time	Post	Adult quantity	Child quantity	Price	Action
Jill Langley	12/14/2019 13:54	12/14/2019 13:54	A tour in the art museum	2	1	150	Accept Refuse
Jill Langley	12/14/2019 13:54	12/14/2019 13:54	A tour in the art museum	2	1	150	Accept Refuse

4.4.2.21 View trip schedule

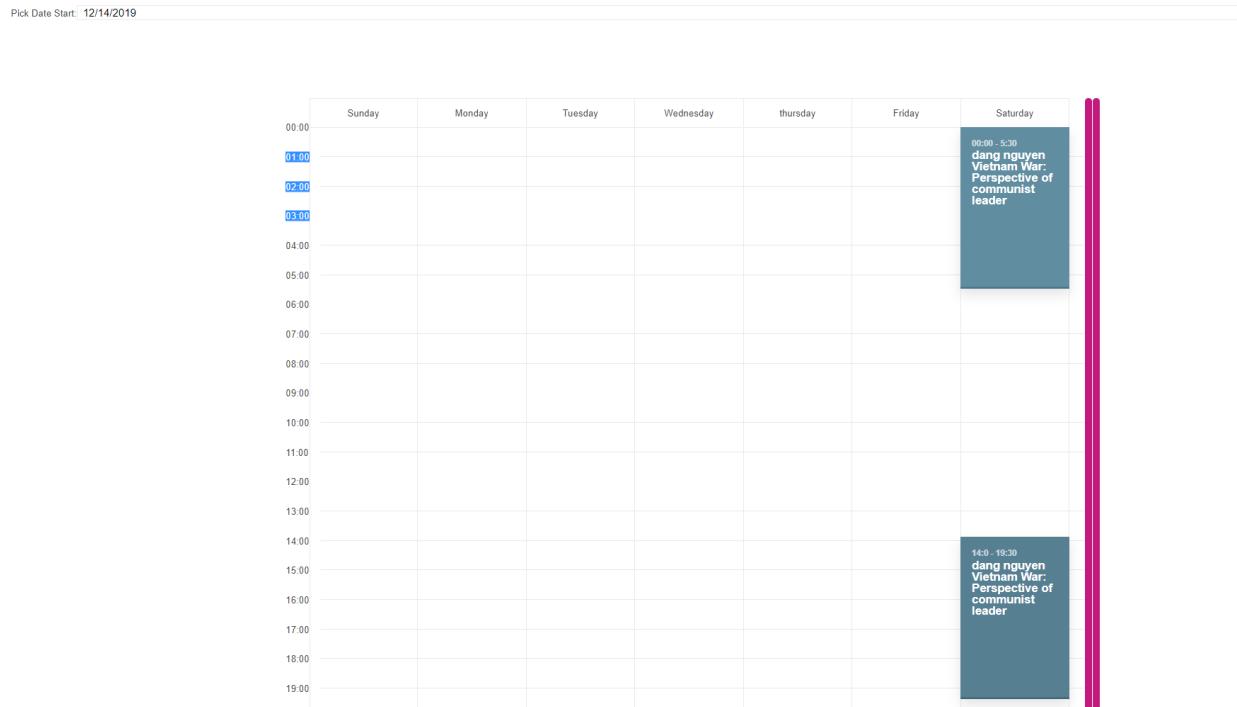
Class diagram



Sequence diagram

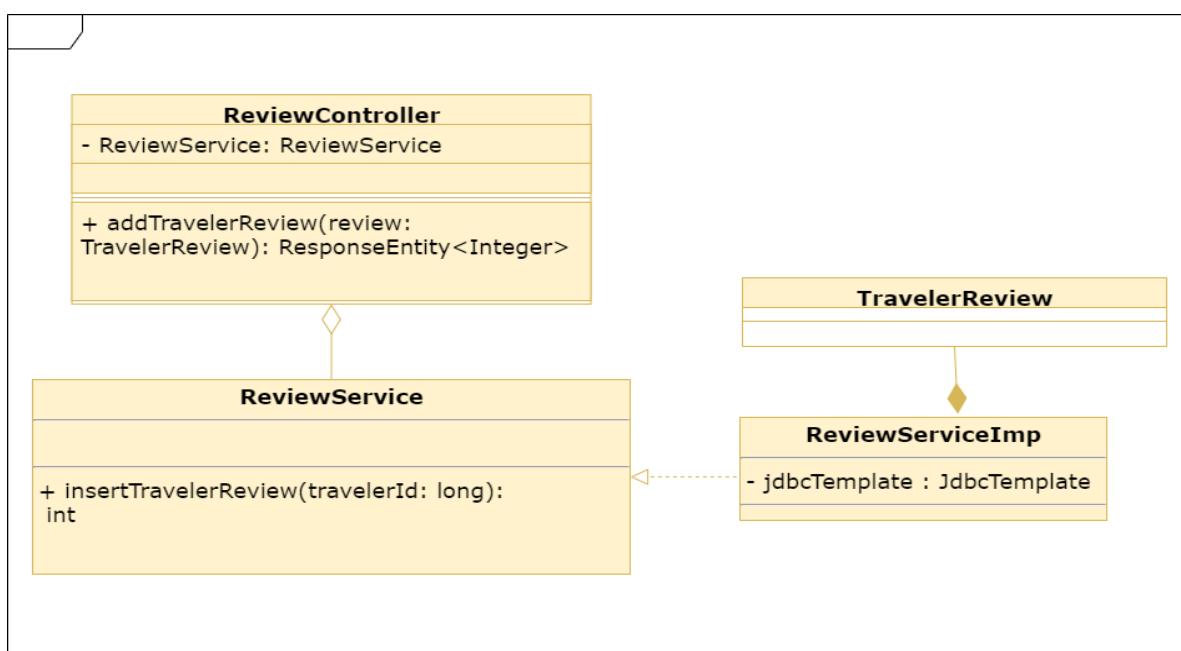


Screen design

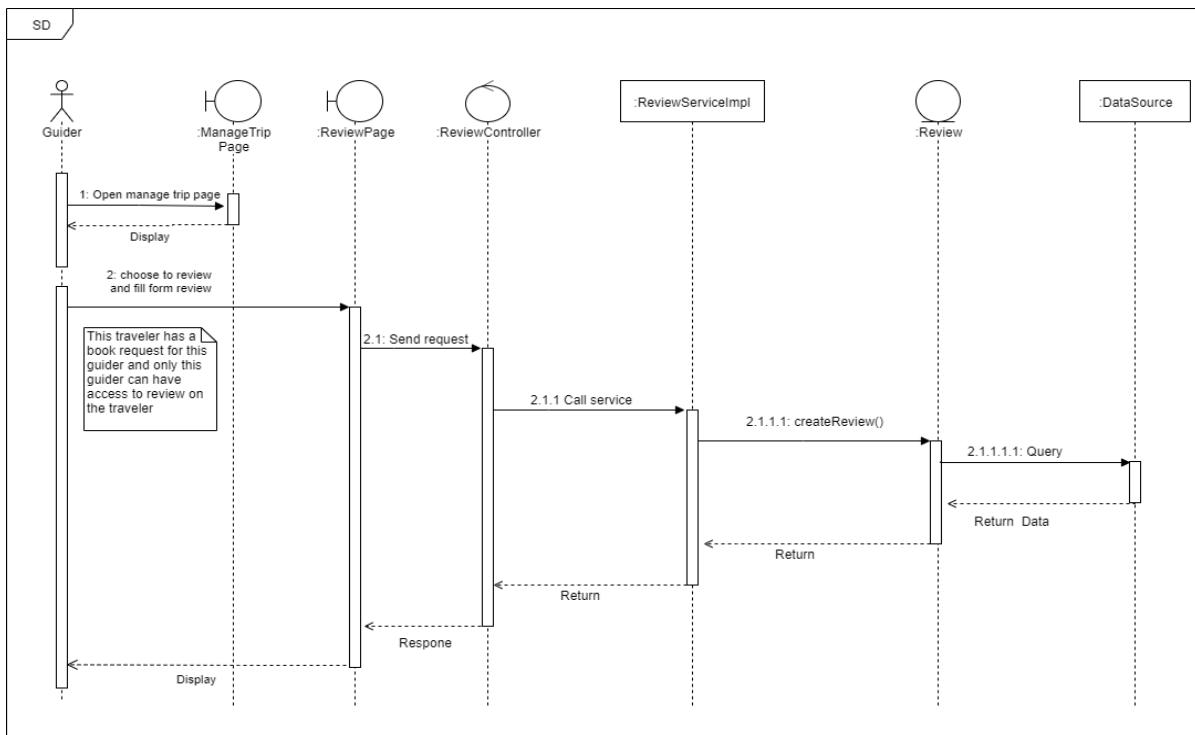


4.4.2.22 Review travelers

Class diagram



Sequence diagram



Screen design



Jill Langley

Gender: Other
Speaks: EN
Phone: 651651616561
Date of birth: 1996-04-23
Country: England

Reviews

 **Jacky**
2018-10-25

She is a very funny person

Jacky The Guider!

 **Bob**
2018-06-24

Very chill and relax

Bob The Guider!

 **Bob**
2018-06-24

Greatest company to go around with

Bob The Guider!

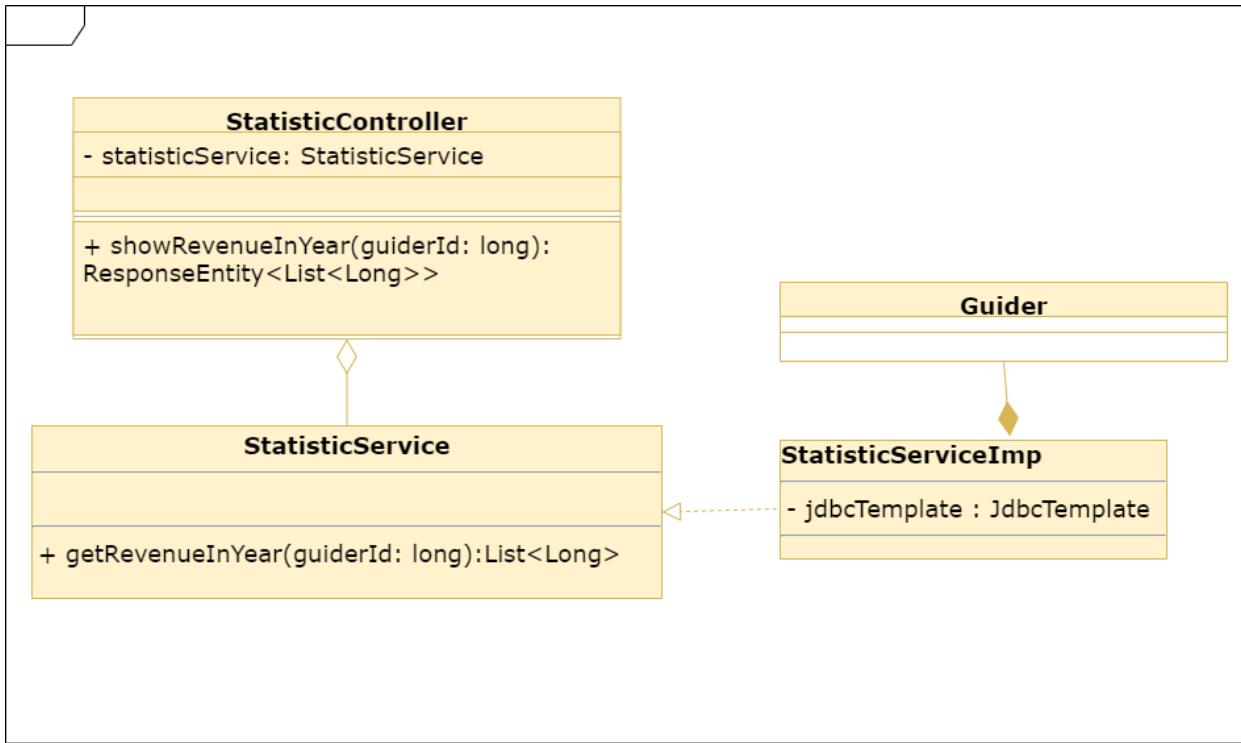
[Load more](#)

Comment ..

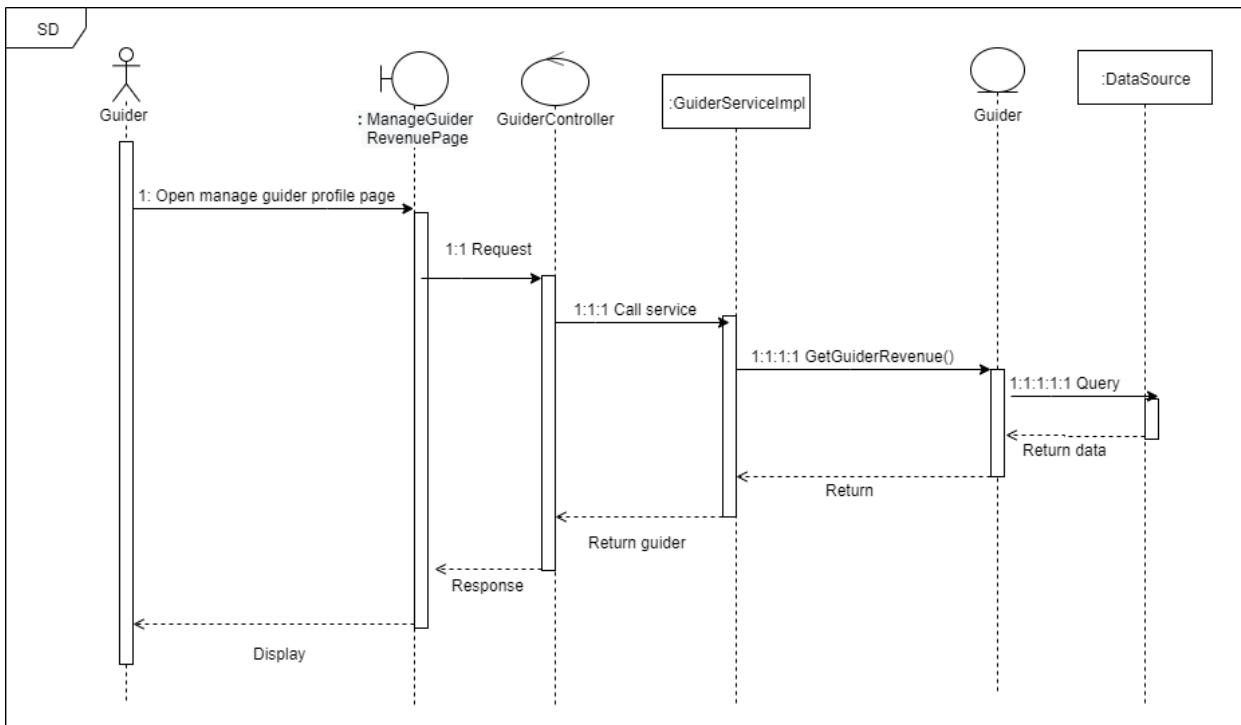
[Comment](#)

4.4.2.23 View statistic of revenue

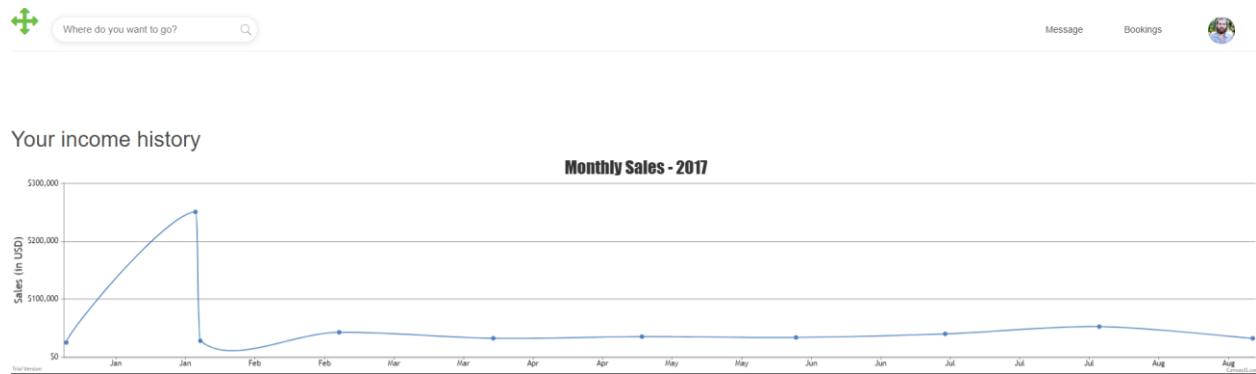
Class diagram



Sequence diagram

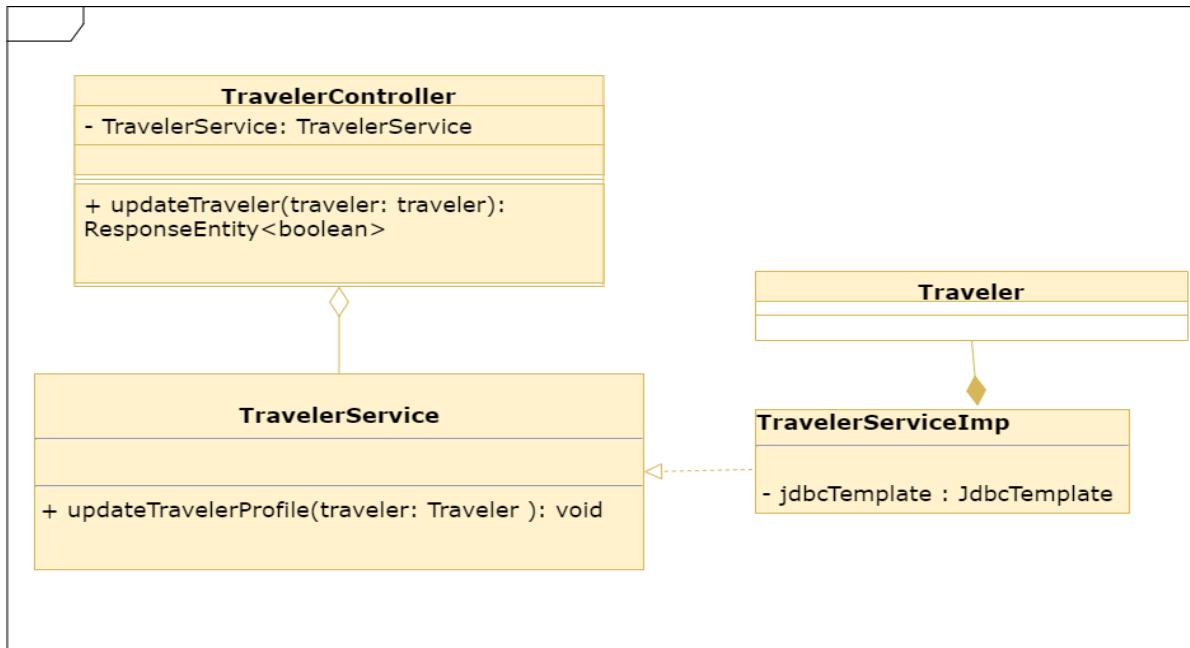


Screen design

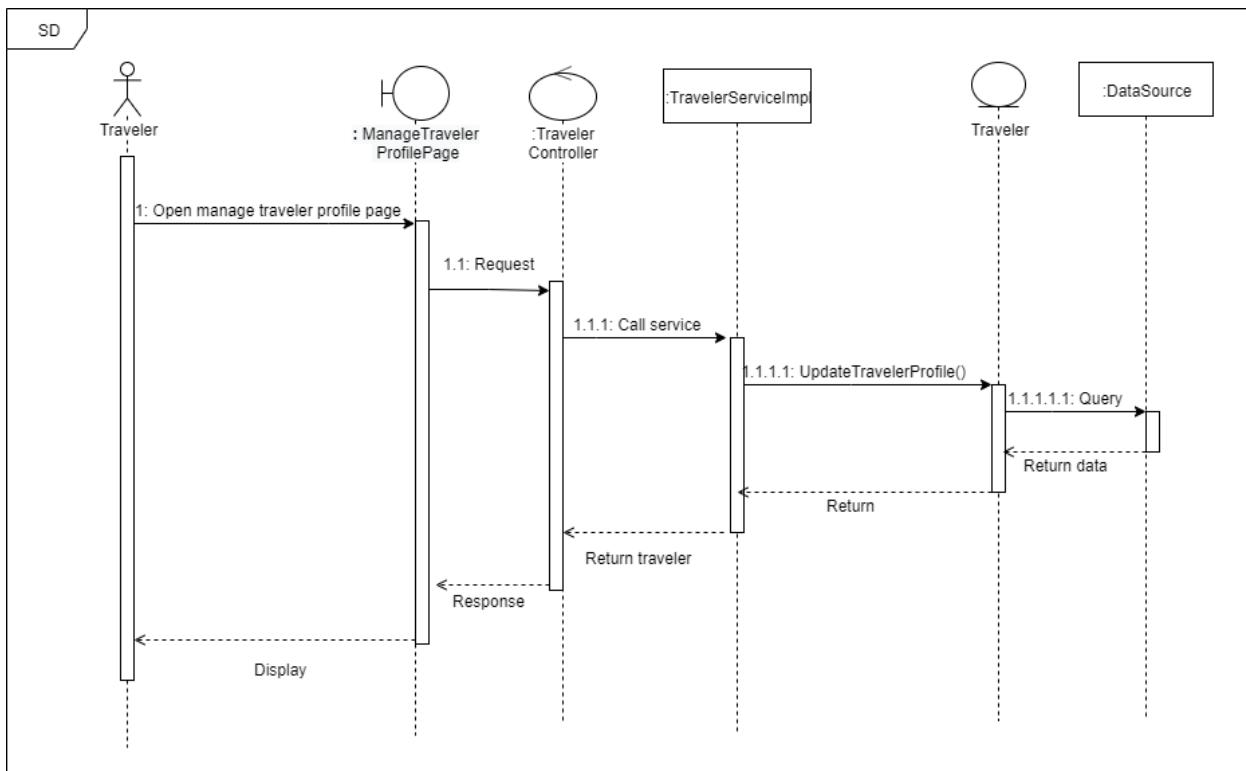


4.4.2.24 Edit traveler profile

Class diagram



Sequence diagram

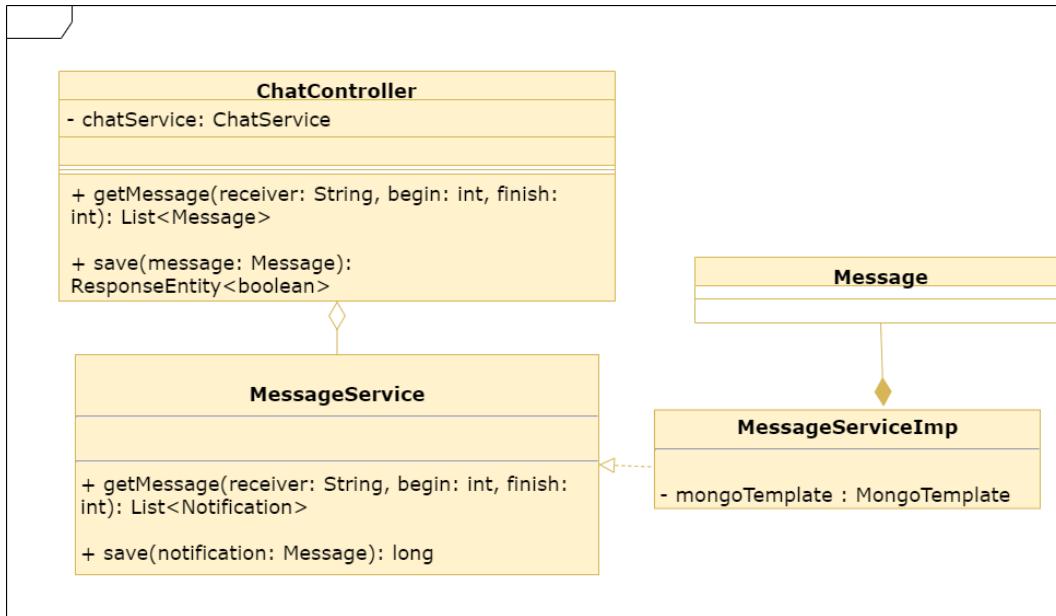


Screen design

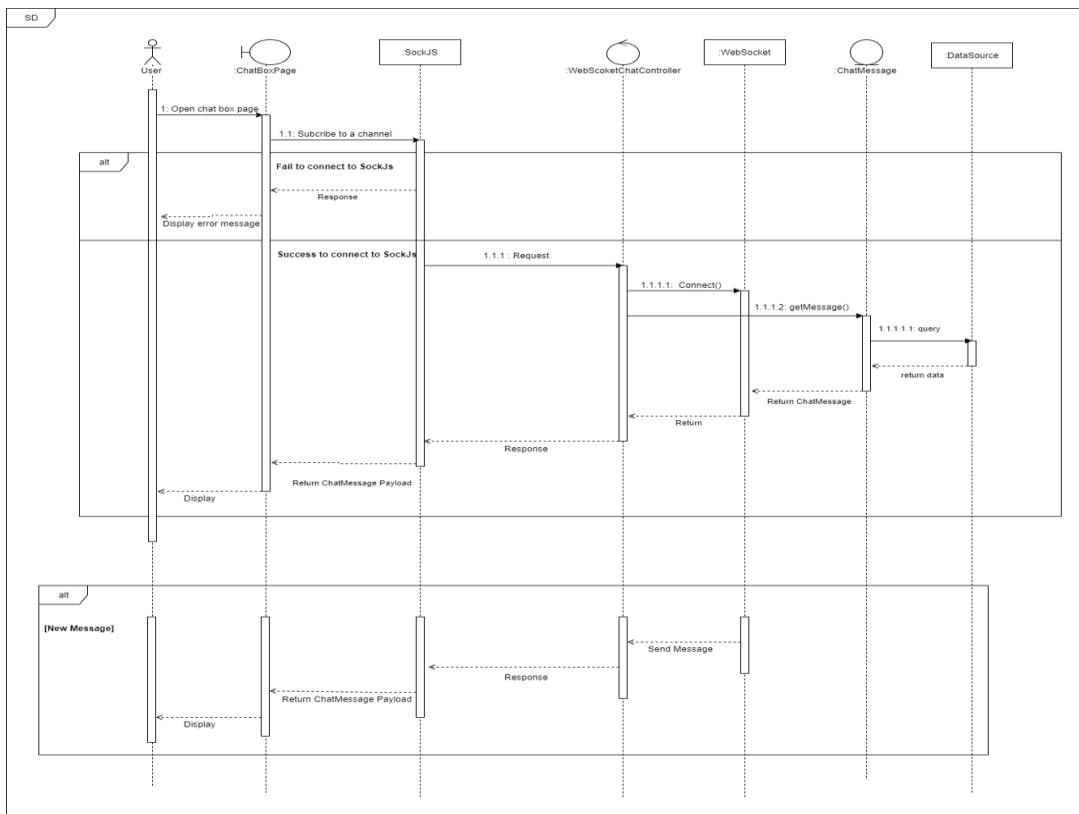
The screenshot shows a user interface for managing a traveler profile. At the top, there is a search bar with a location input and a magnifying glass icon. To the right are links for 'Message', 'Bookings', and a user profile icon. Below the search bar, there are two sections: 'Your profile' and 'Introduce yourself'. The 'Your profile' section contains a placeholder profile picture and a 'Change profile picture' button. The 'Introduce yourself' section contains fields for 'First Name' and 'Last Name', a 'Gender' dropdown set to 'Male', a 'Phone' input, and a 'Date Of Birth' date picker showing '14 December 2019'. Below these, there is a section for 'Where do you live?' with a dropdown for 'Country' (set to 'Afghanistan'), a 'City or town' input, and an 'Address' section with a 'Street' input. On the right side of the interface, there is a sidebar with links for 'Profile traveller', 'Traveler manage', and 'Log out'.

4.4.2.25 Chat with guider

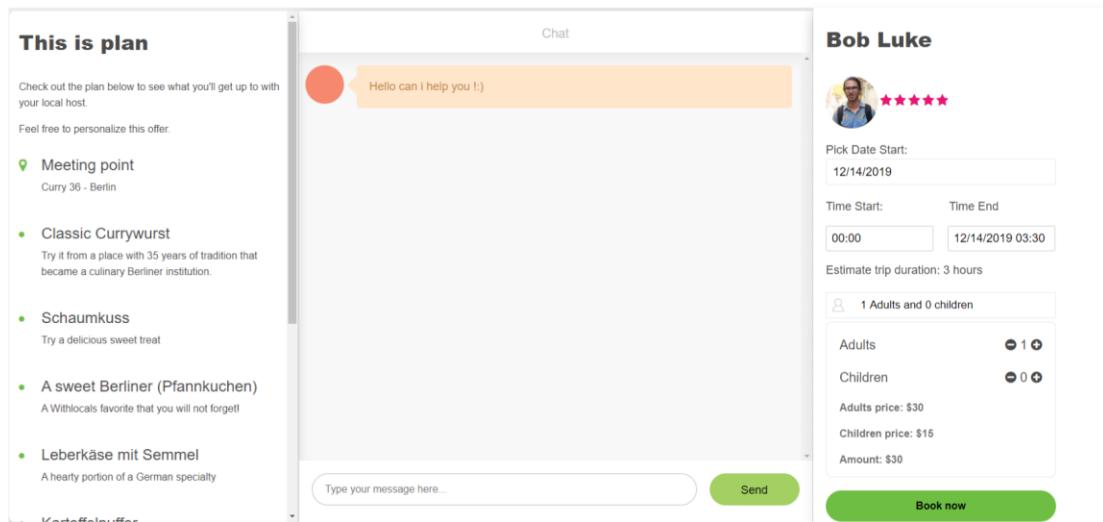
Class diagram



Sequence diagram

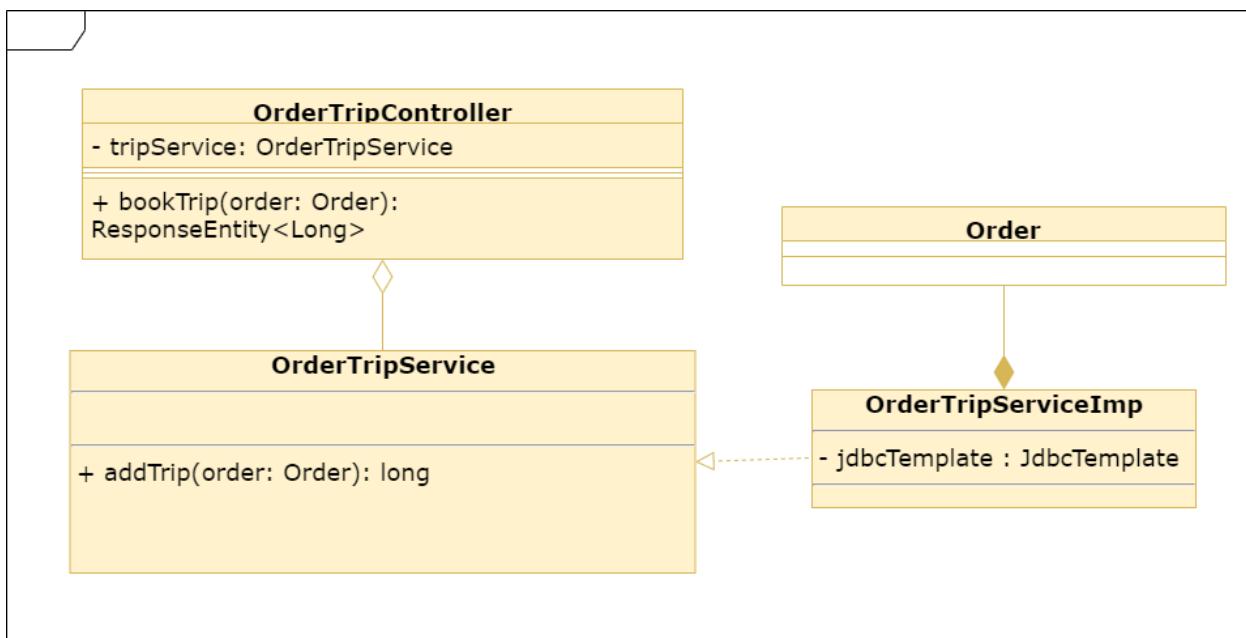


Screen design

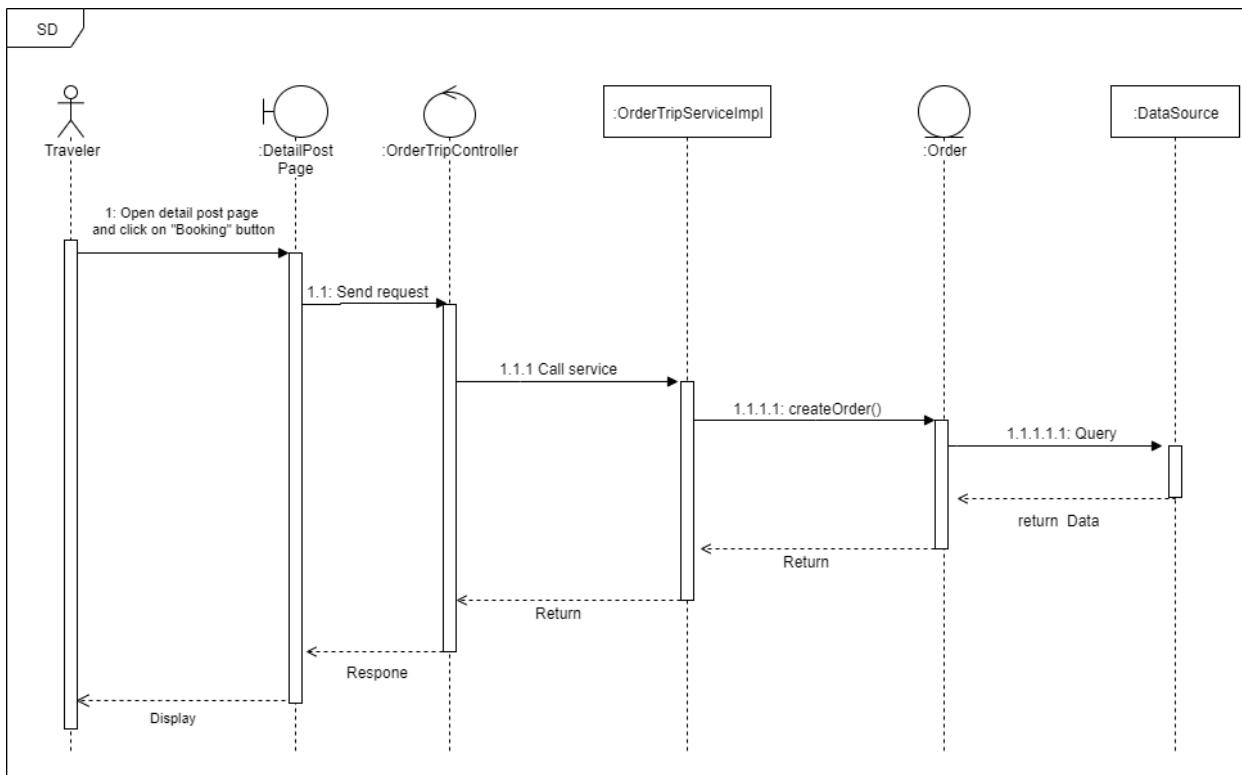


4.4.2.26 Book a trip

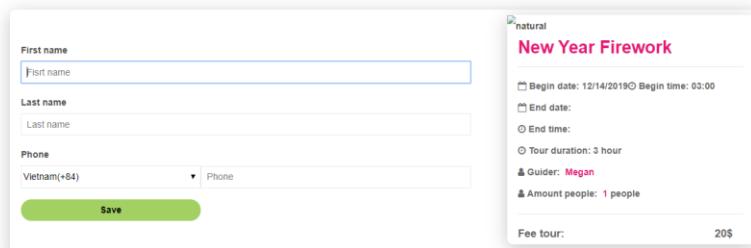
Class diagram



Sequence diagram

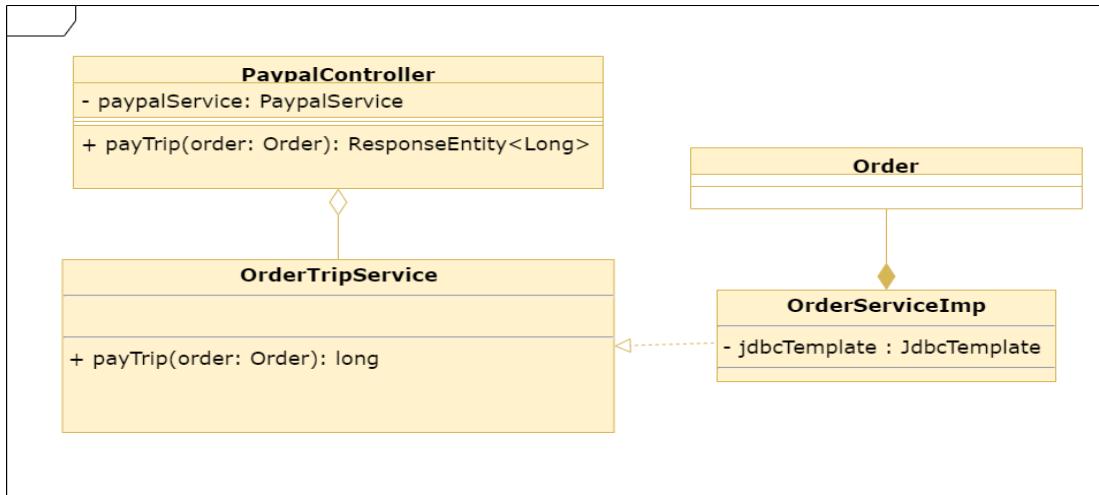


Screen design

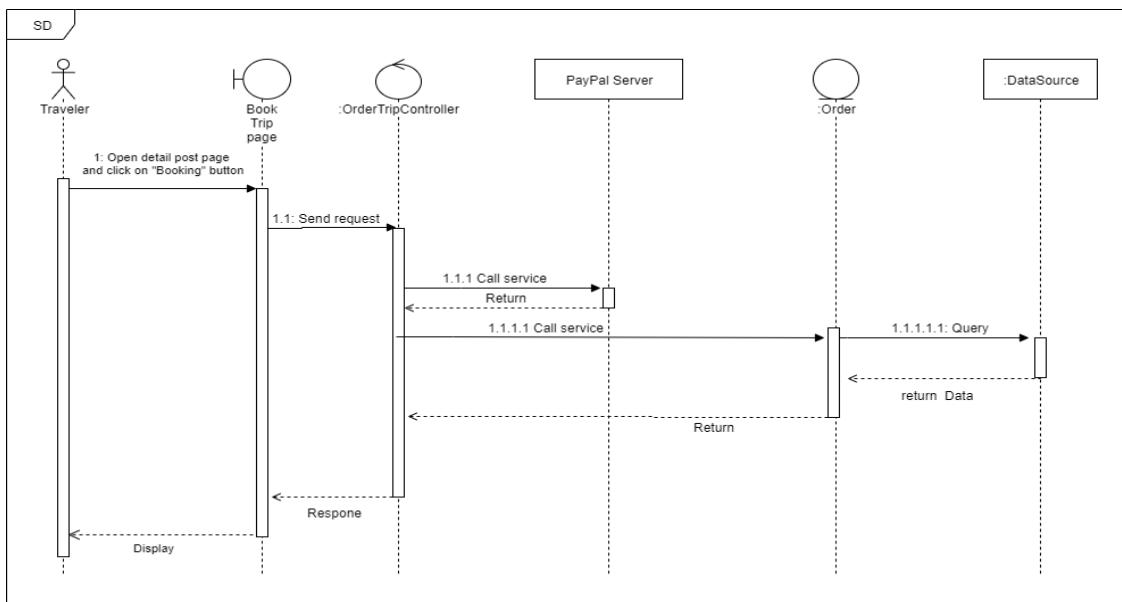


4.4.2.27 Make payment

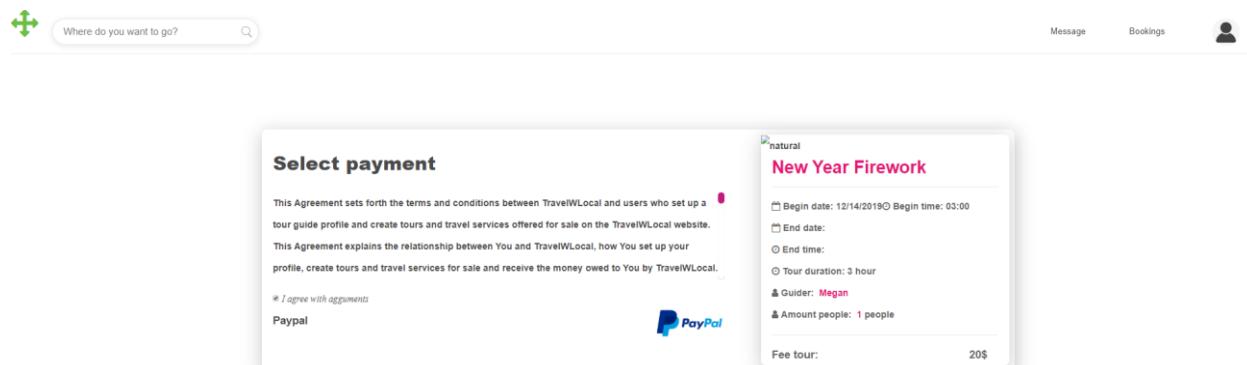
Class diagram



Sequence diagram

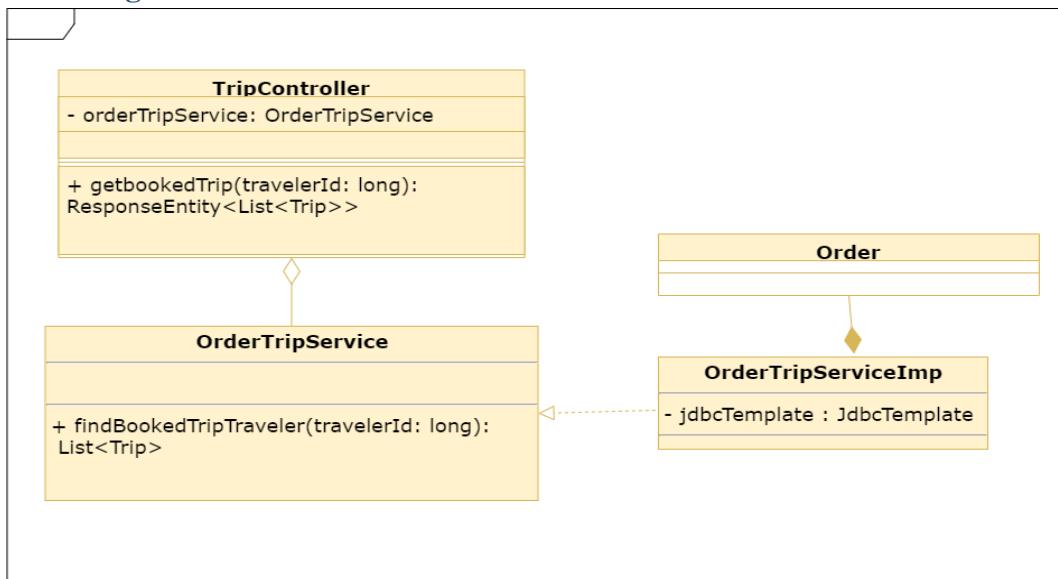


Screen design

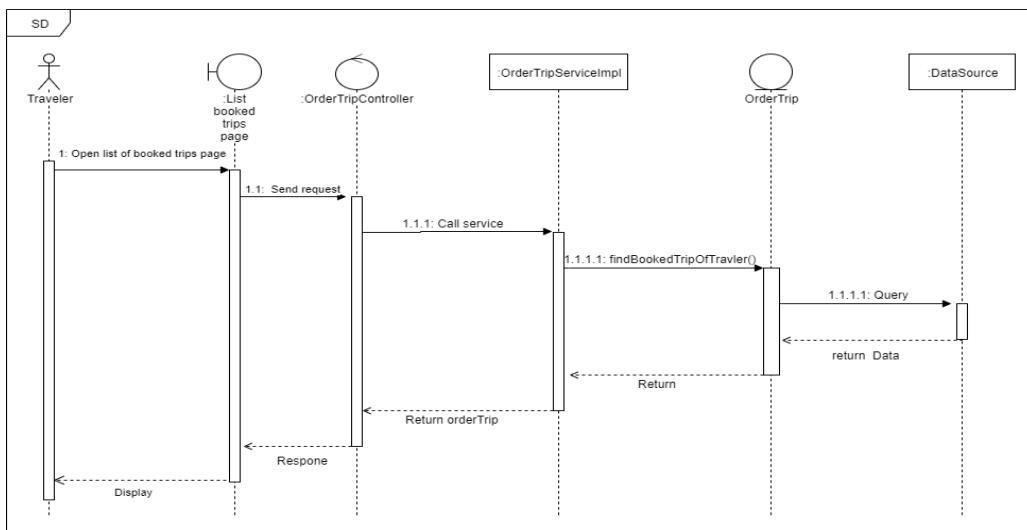


4.4.2.28 View list of booked trip

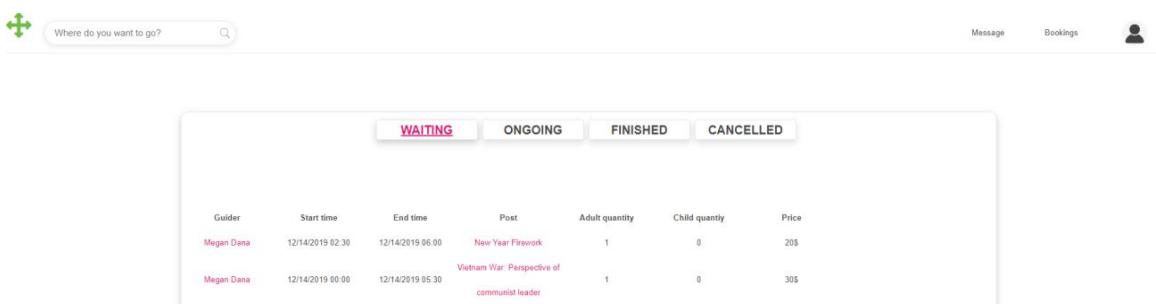
Class diagram



Sequence diagram

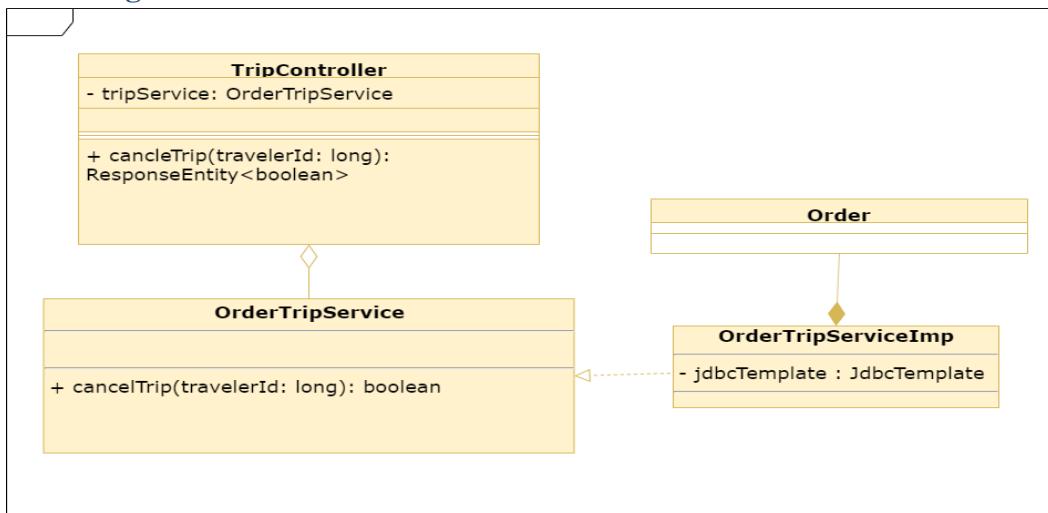


Screen design

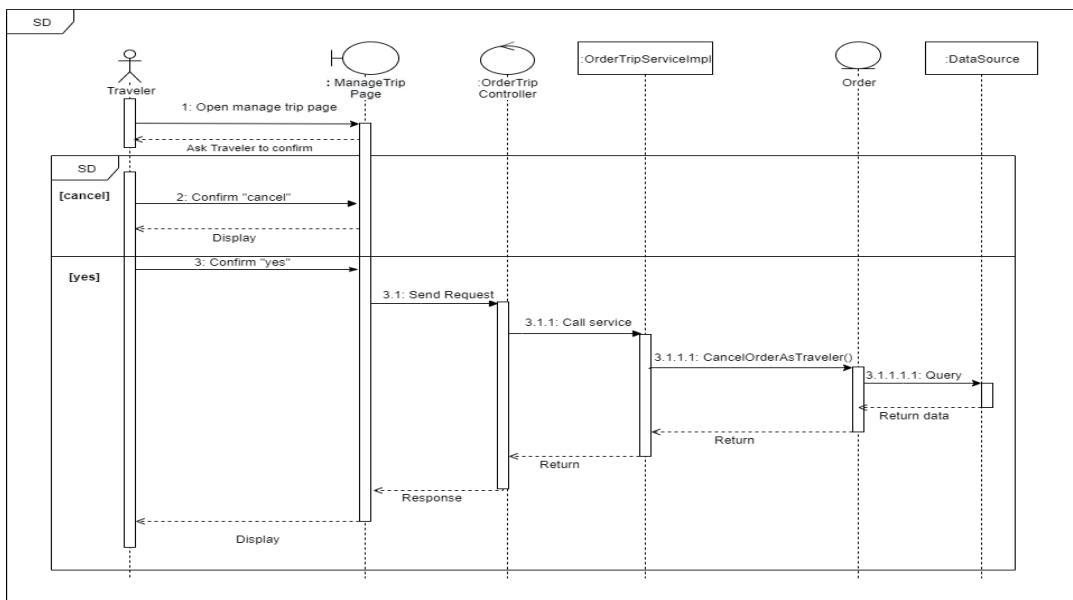


4.4.2.29 Cancel a trip

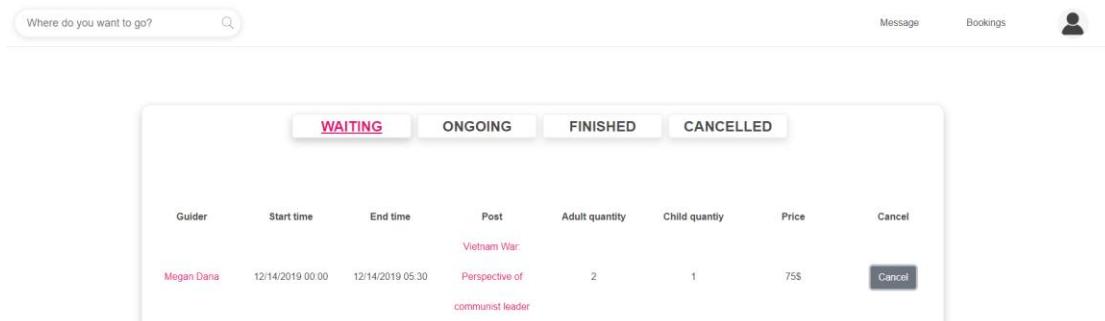
Class diagram



Sequence diagram

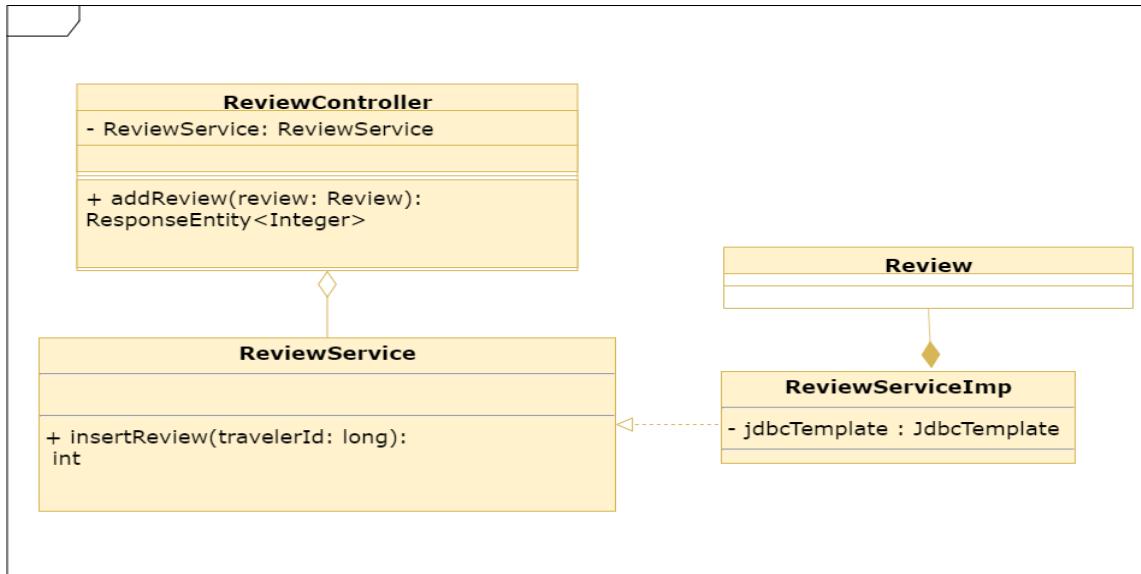


Screen design

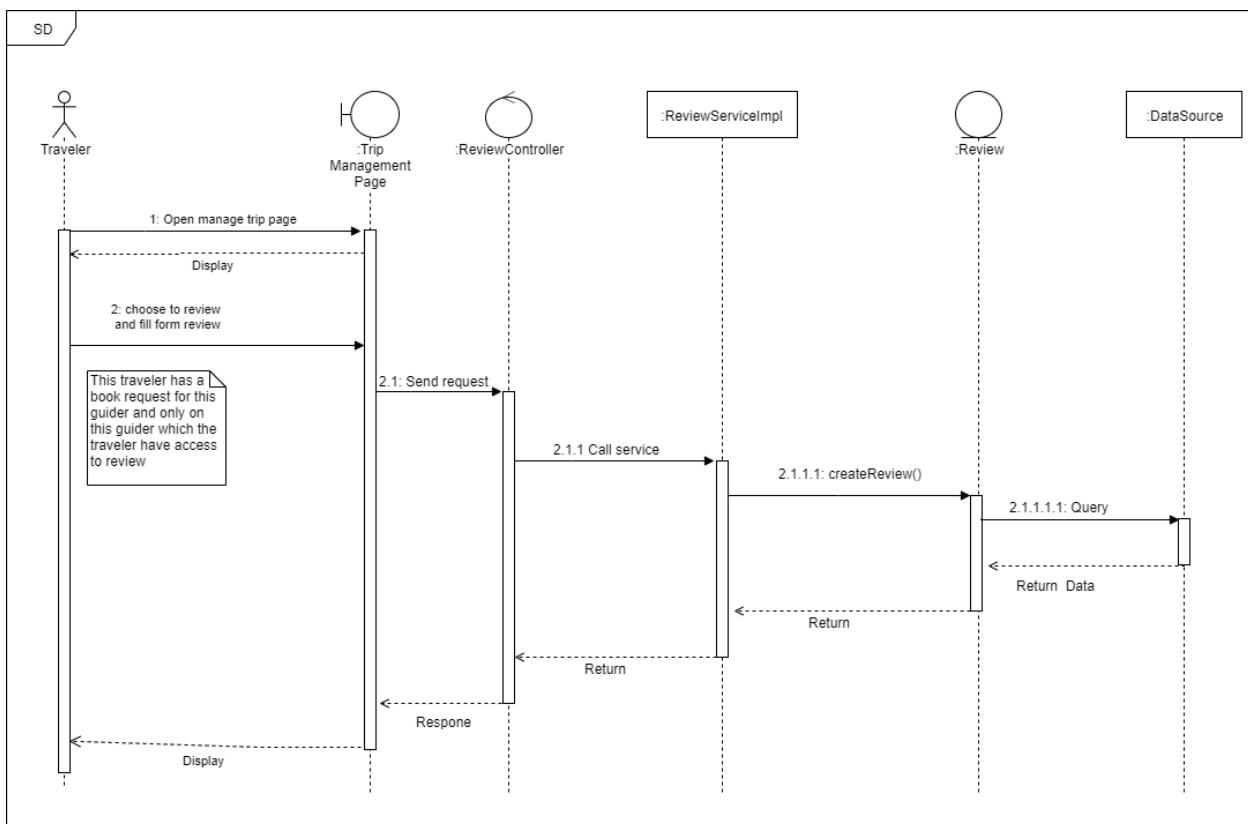


4.4.2.30 Review and rate after trip

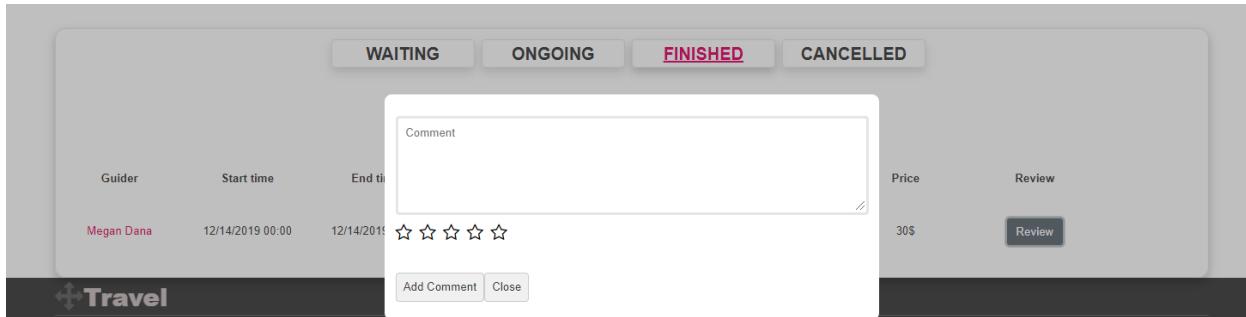
Class diagram



Sequence diagram

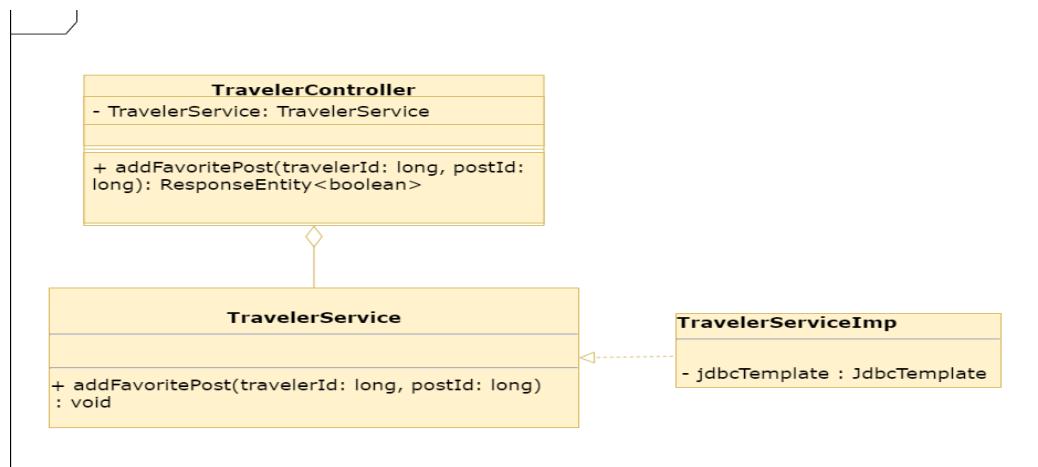


Screen design

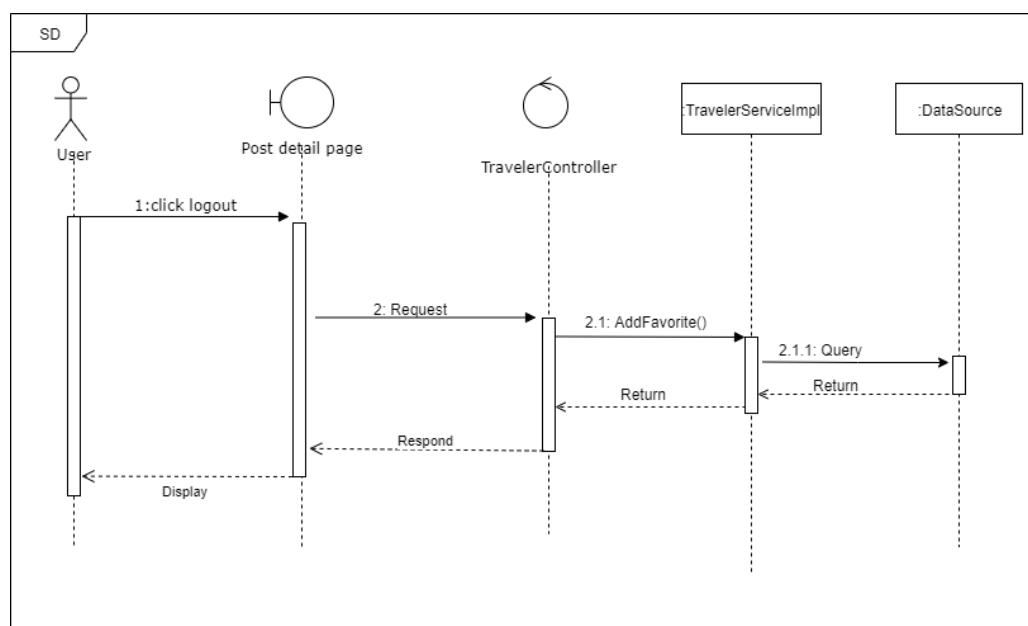


4.4.2.31 Save favorite post

Class diagram



Sequence diagram



Screen design



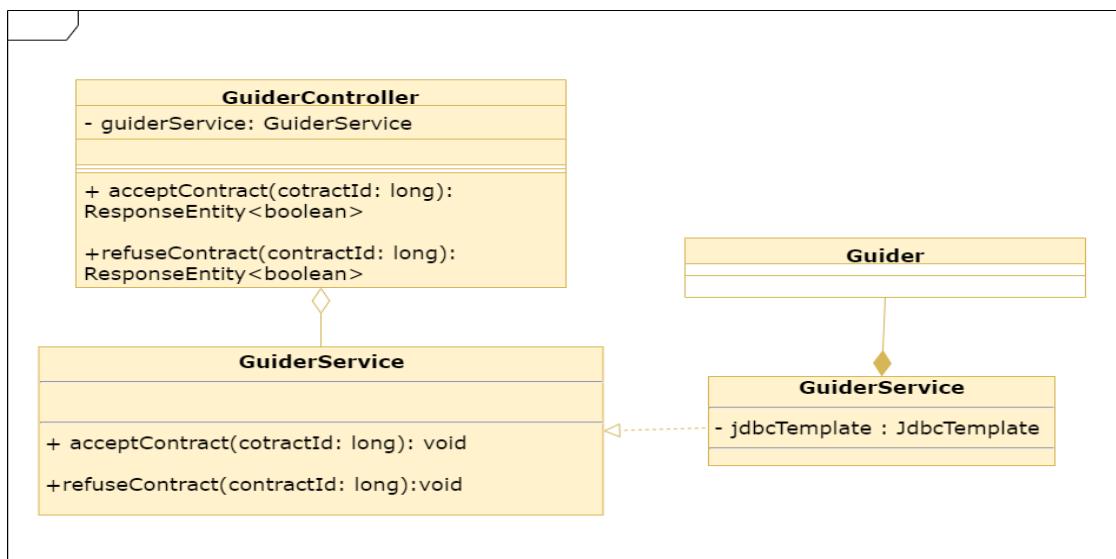
Vietnam Greatest Hero



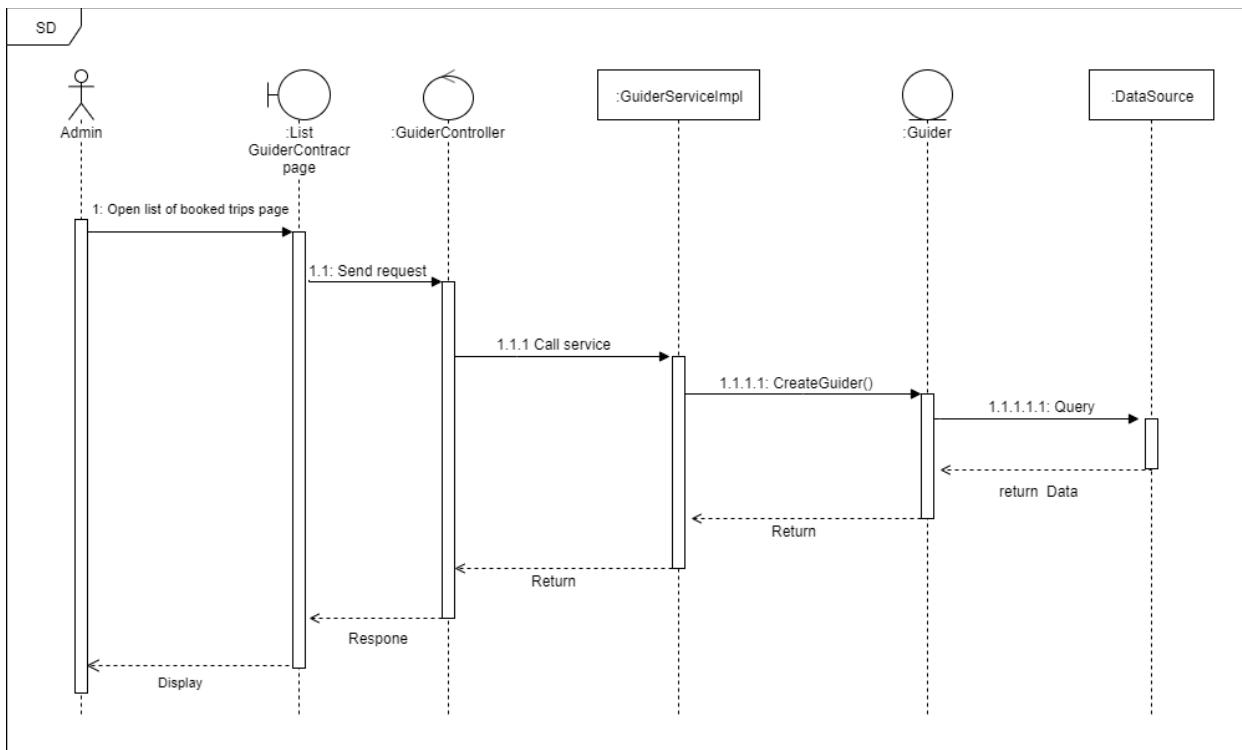
Nemo enim ipsam voluptatem, quia voluptas sit, aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos, qui ratione voluptatem sequi nesciunt, neque porro quisquam est, qui dolorem ipsum, quia dolor sit amet consectetur adipisci

4.4.2.32 Accept/deny guider contract

Class diagram



Sequence diagram



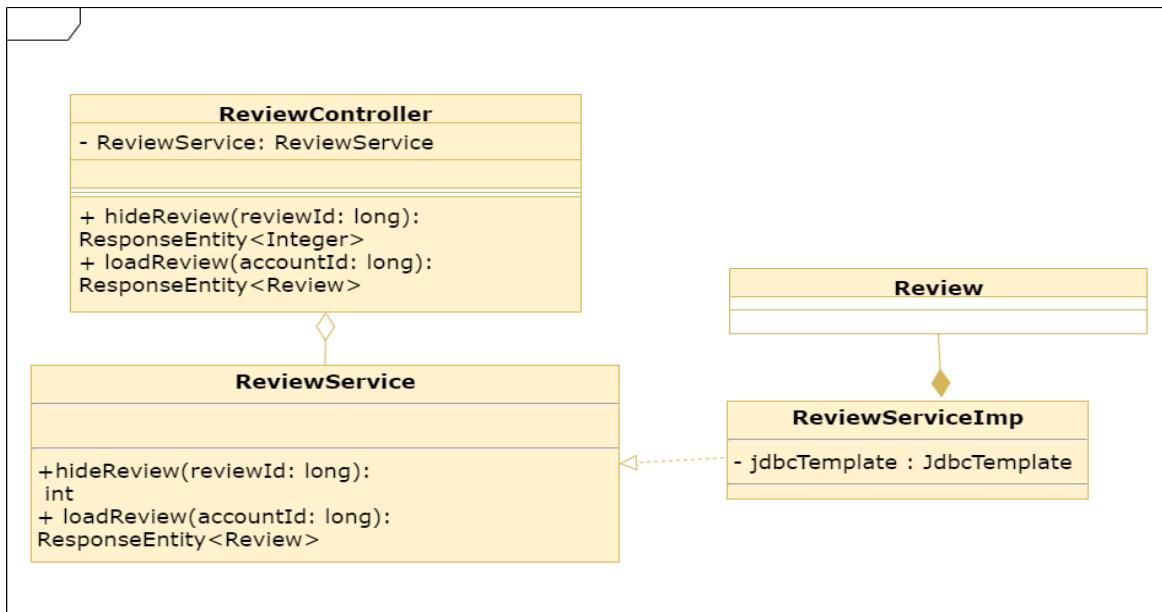
Screen design

The screenshot shows an Admin interface with a sidebar and a main content area. The sidebar contains navigation links for ADDONS, Manage account, Manage category and location, Statistic of revenue by month, and Statistic of completed trip by month. The main content area is titled 'Manage Contract' and displays a table of contracts. Each row in the table includes columns for Name, Nationality, Date of birth, Gender, Home town, Address, Identity card number, Card issued date, Card issued province, Download file PDF, Accept, and Reject. The 'Accept' and 'Reject' buttons are represented by blue and red icons respectively. An alert dialog box titled 'localhost:3000 says' with the message 'Do you really want to accept contract???' is overlaid on the screen, with OK and Cancel buttons.

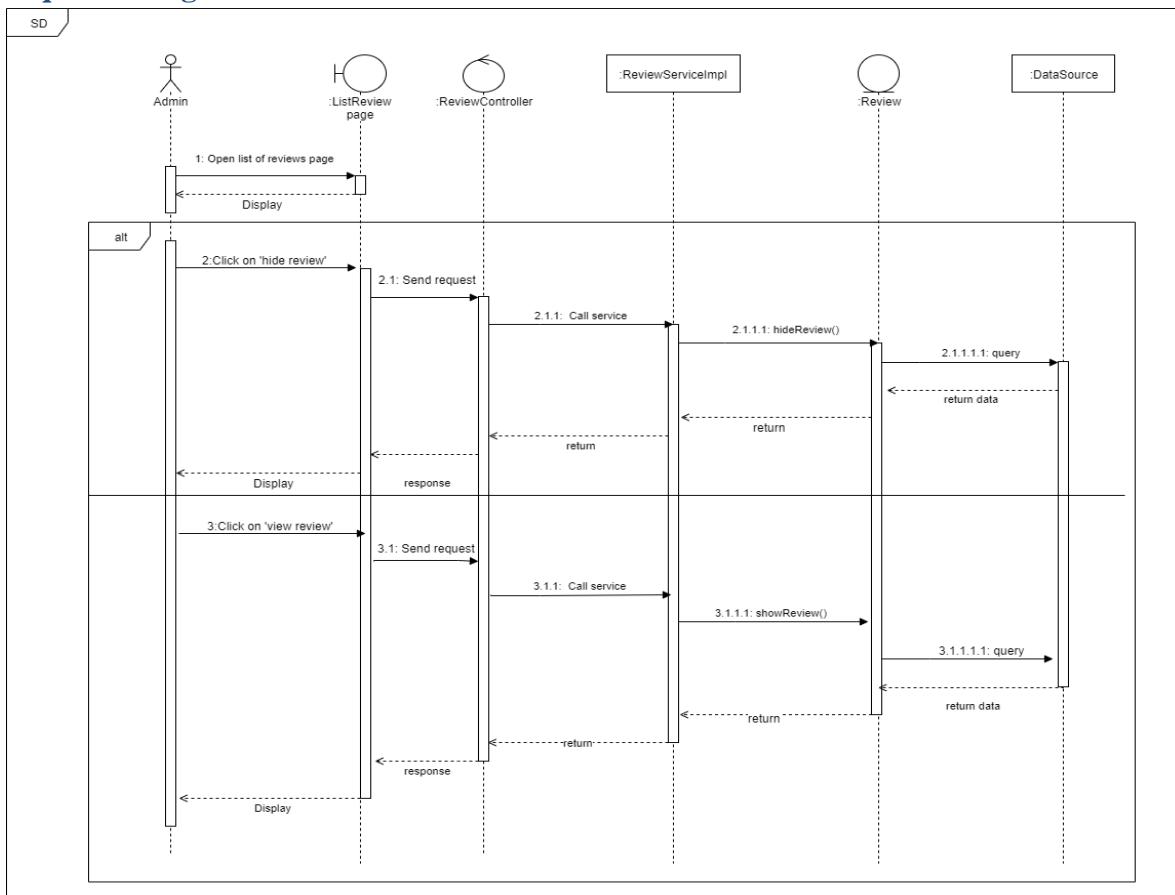
Name	Nationality	Date of birth	Gender	Home town	Address	Identity card number	Card issued date	Card issued province	Download file PDF	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	 Accept	 Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	 Accept	 Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	 Accept	 Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	 Accept	 Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	 Accept	 Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	 Accept	 Reject

4.4.2.33 View/Hide reviews

Class diagram



Sequence diagram

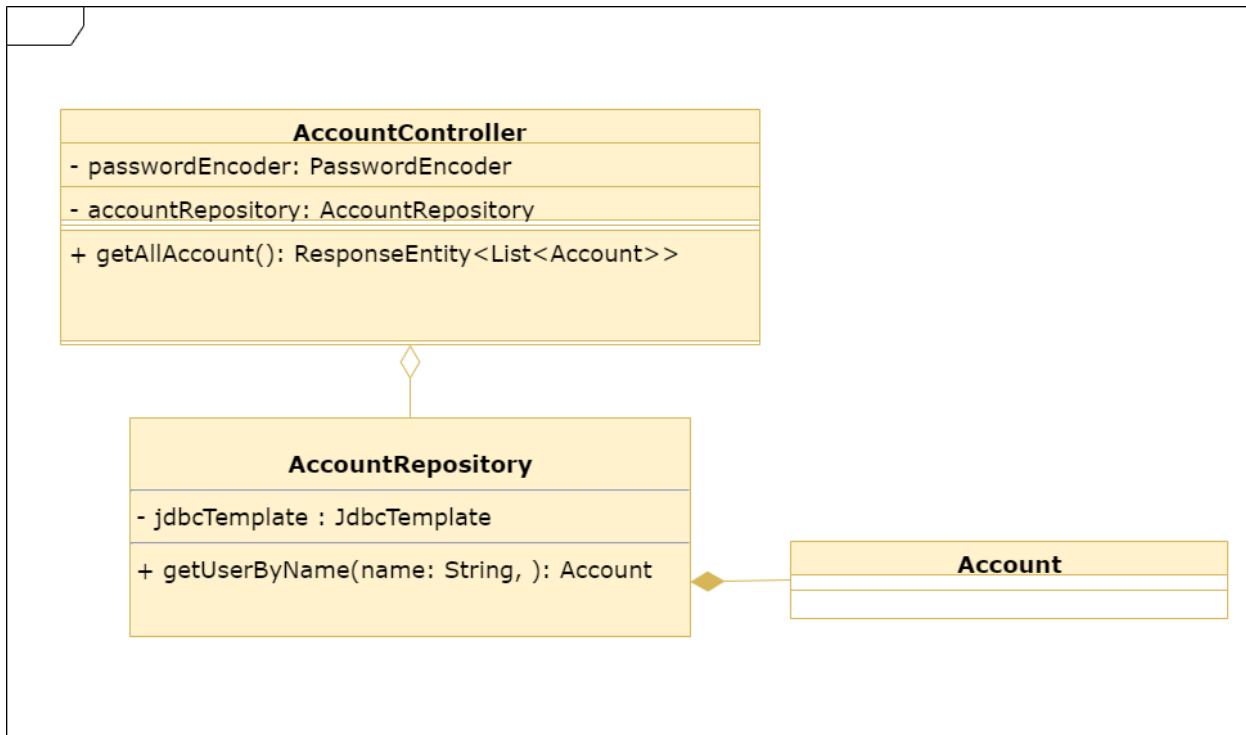


Screen design

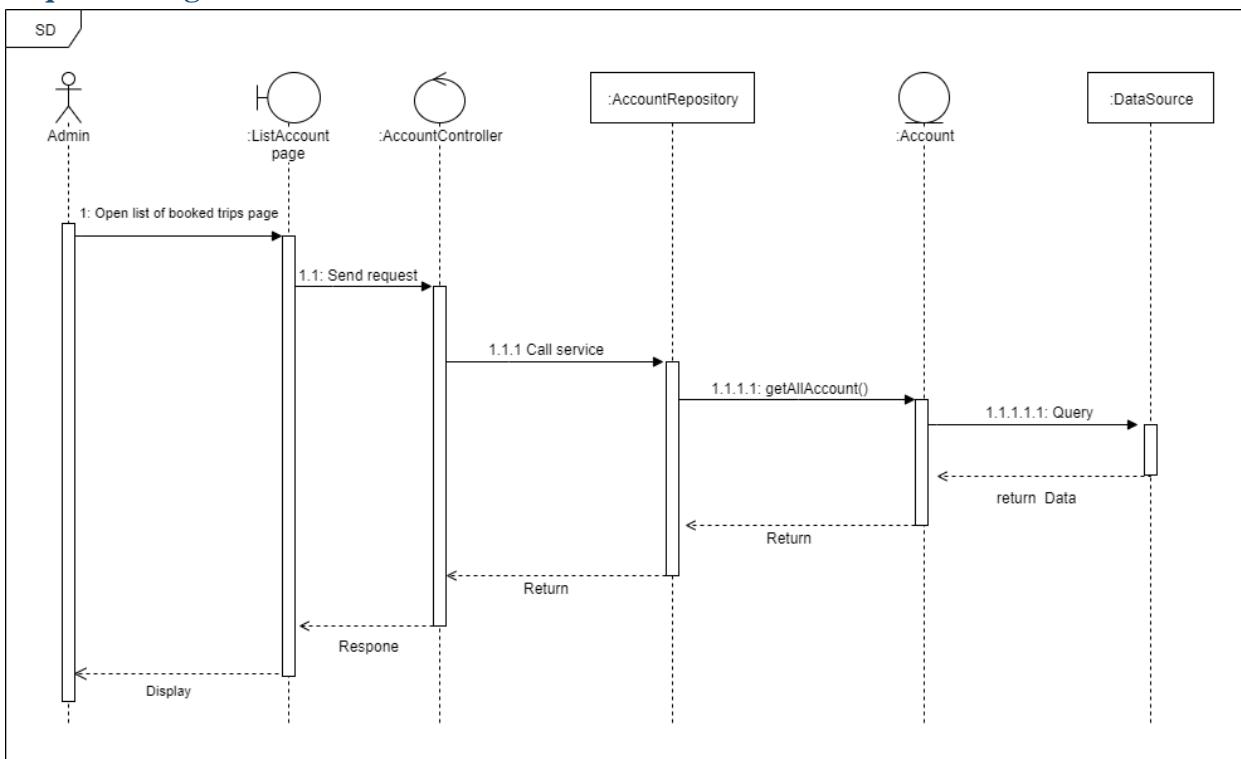
The screenshot shows a web application interface. At the top left is a vertical sidebar with a blue header labeled 'ADMIN'. Below this are several menu items: 'Manage guider contract', 'Manage account', 'Manage category and location', 'Statistic of revenue by month', and 'Statistic of completed trip by month'. At the top right is a user profile icon labeled 'Admin'. The main content area is titled 'All trip' and contains a table with eight rows. Each row has a 'Review' column and a 'Show/hide' column. The 'Review' column contains the text 'Greate trip !' repeated eight times. The 'Show/hide' column contains two buttons: a red 'Hide' button with a trash icon and a blue 'Show' button with a flag icon.

4.4.2.34 View list of Account

Class diagram



Sequence diagram



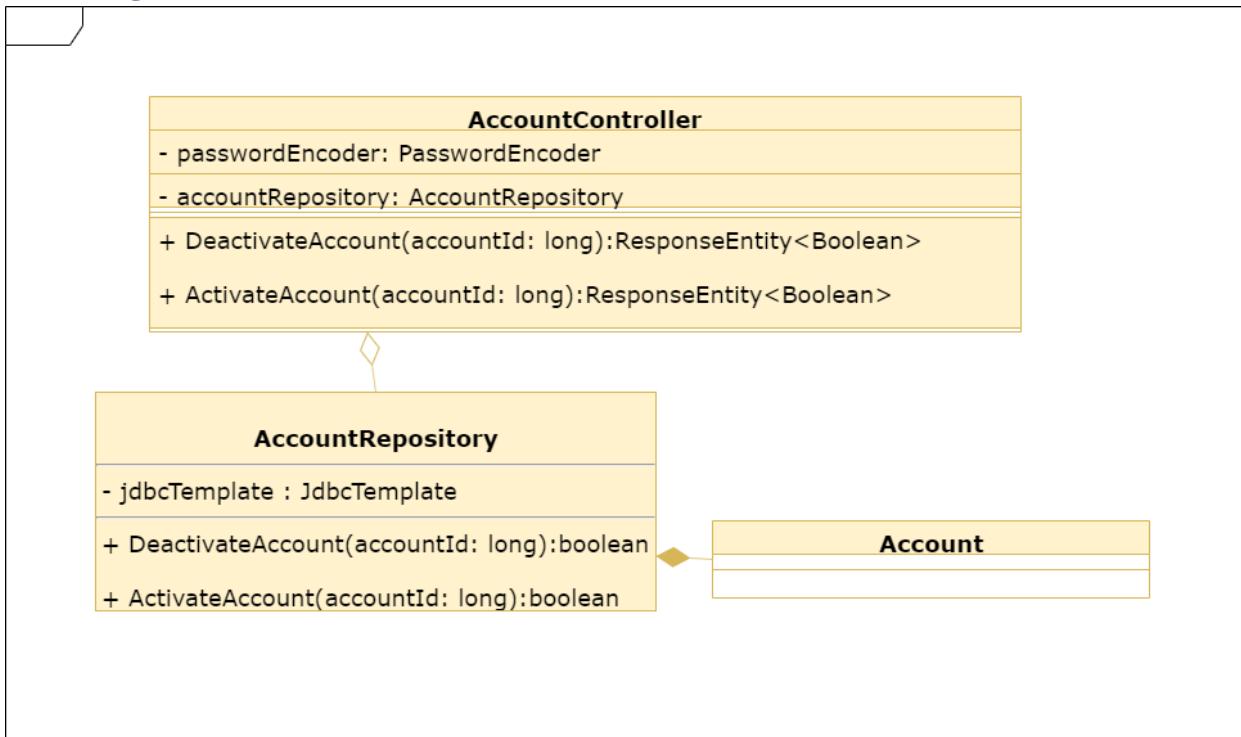
Screen design

The screenshot shows an Admin dashboard with a sidebar and a main content area. The sidebar on the left contains navigation links for ADDONS, Manage guider contract, Manage account, Manage category and location, and two Statistic of completed trip by month links. The main content area has a header 'Manage Example' and tabs for 'TRAVELER' and 'GUIDER'. Below the tabs is a table listing users with columns for User name, Email, Role, Status, and two buttons: 'Activate' and 'Deactivate'.

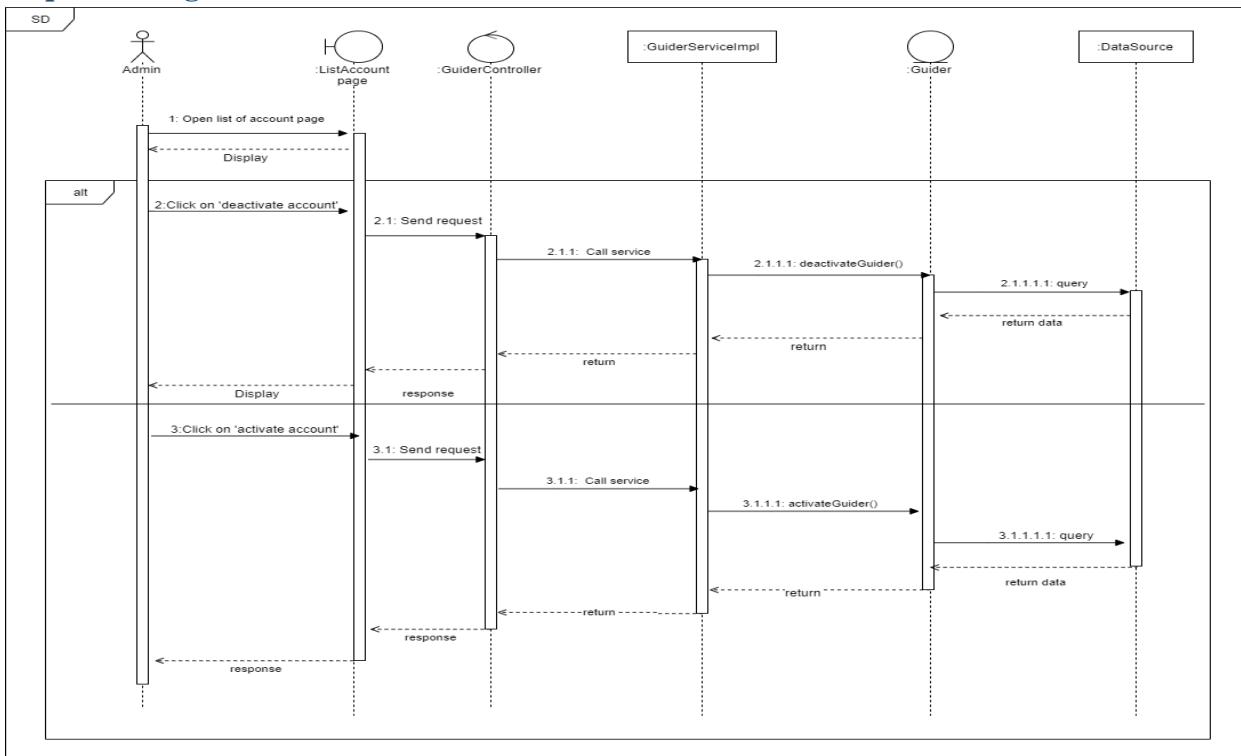
User name	Email	Role	Status	Activate	Deactivate
Bob	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
Megan	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
Peter	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
Jacky	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate

4.4.2.35 Active/ De active Account

Class diagram



Sequence diagram



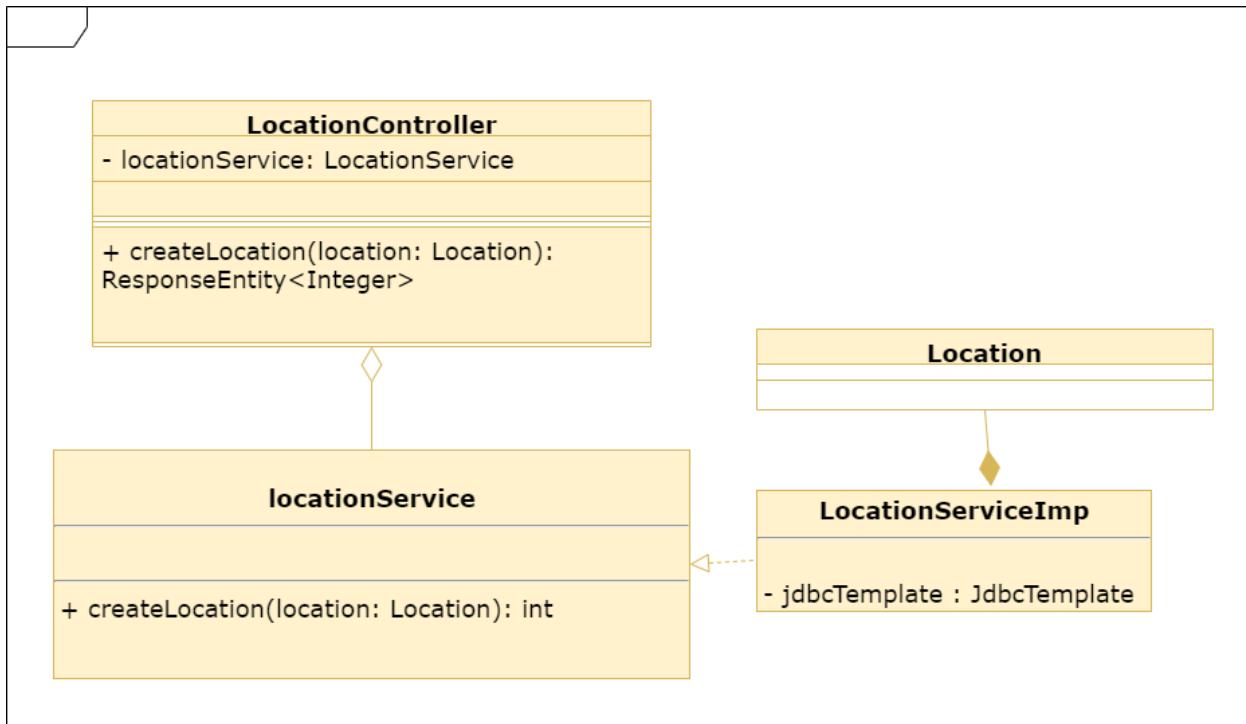
Screen design

The screenshot shows a web-based administration interface. On the left, a sidebar titled 'ADMIN' contains a 'ADDONS' section with several items: 'Manage guider contract', 'Manage account', 'Manage category and location', 'Statistic of revenue by month', and 'Statistic of completed trip by month'. The main content area is titled 'Manage Example' and displays a table of users. The table has columns for 'User name', 'Email', 'Role', 'Status', and 'Activate/Deactivate' buttons. The 'Role' column shows 'GUIDER' for all users. The 'Status' column shows 'Deactive' for Bob and Megan, and 'Active' for Peter and Jacky. The 'Activate' button for Bob is blue, while for Megan, Peter, and Jacky, it is red. The 'Deactivate' button for Bob is red, while for the others, it is blue. The top of the main area has tabs for 'TRAVELER' and 'GUIDER'.

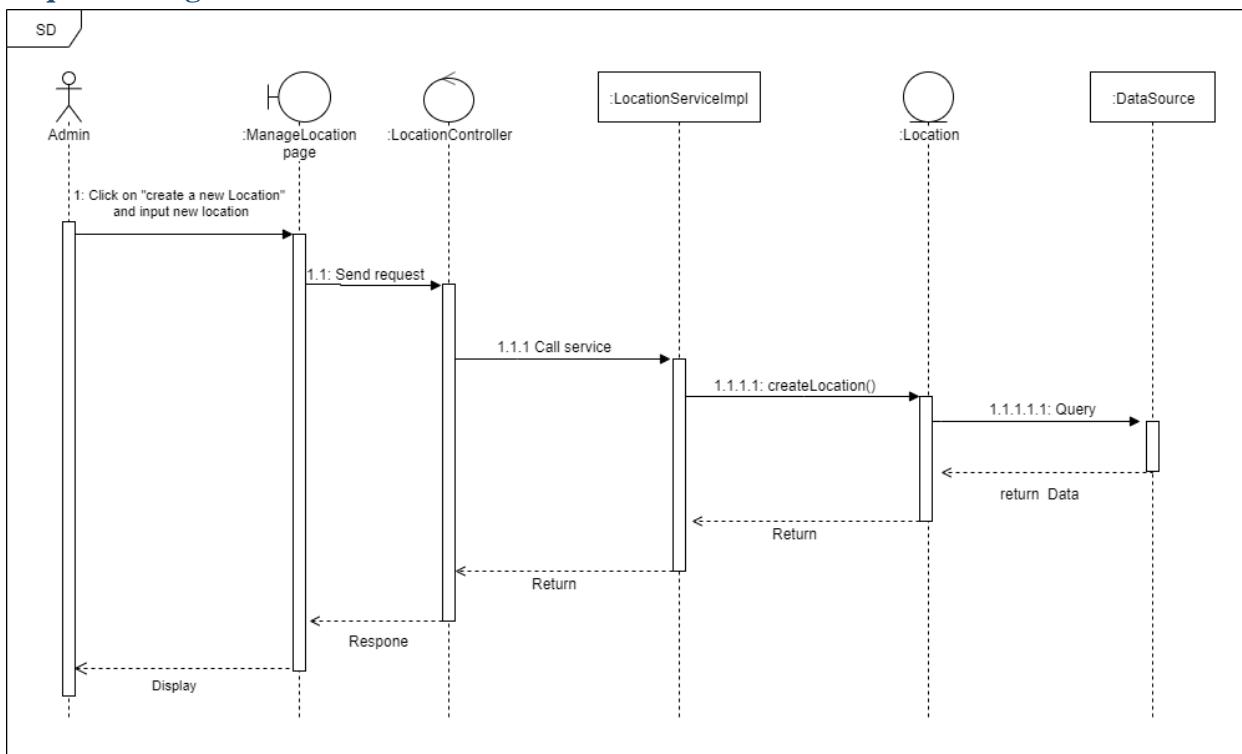
User name	Email	Role	Status	Activate	Deactivate
Bob	Jacky@gmail.com	GUIDER	Deactive	Activate	Deactivate
Megan	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
Peter	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
Jacky	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate

4.4.2.36 Create new location

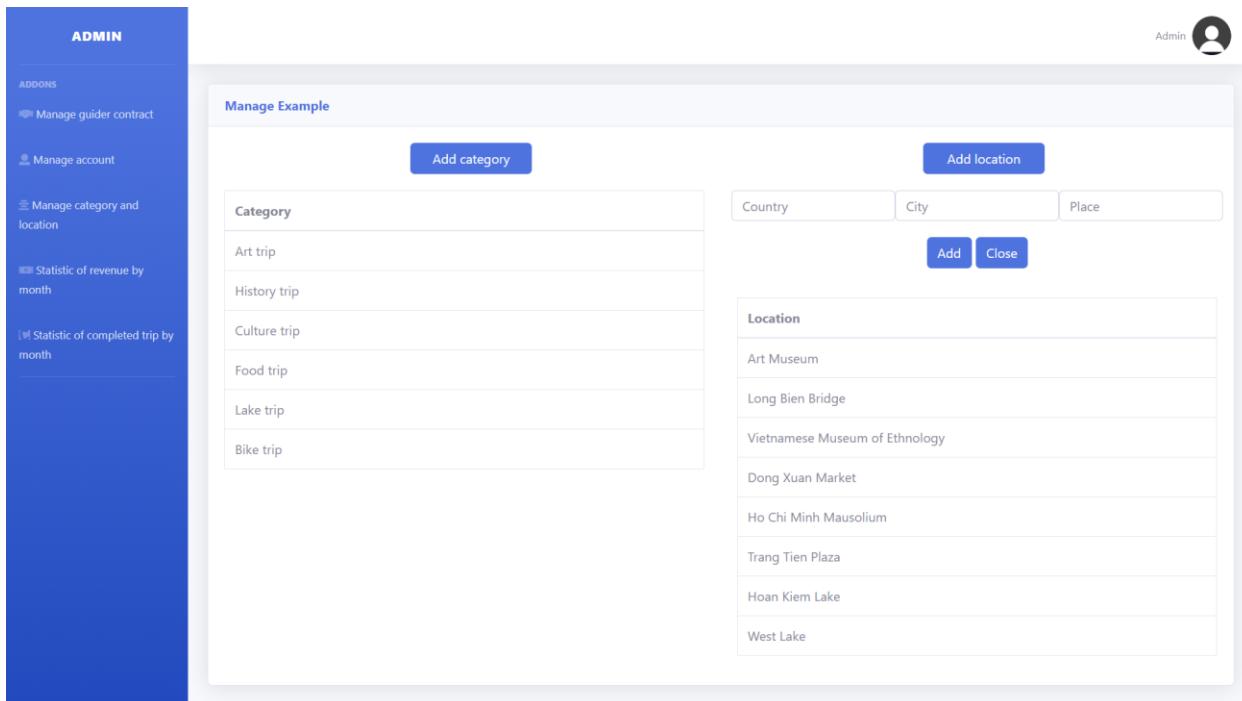
Class diagram



Sequence diagram

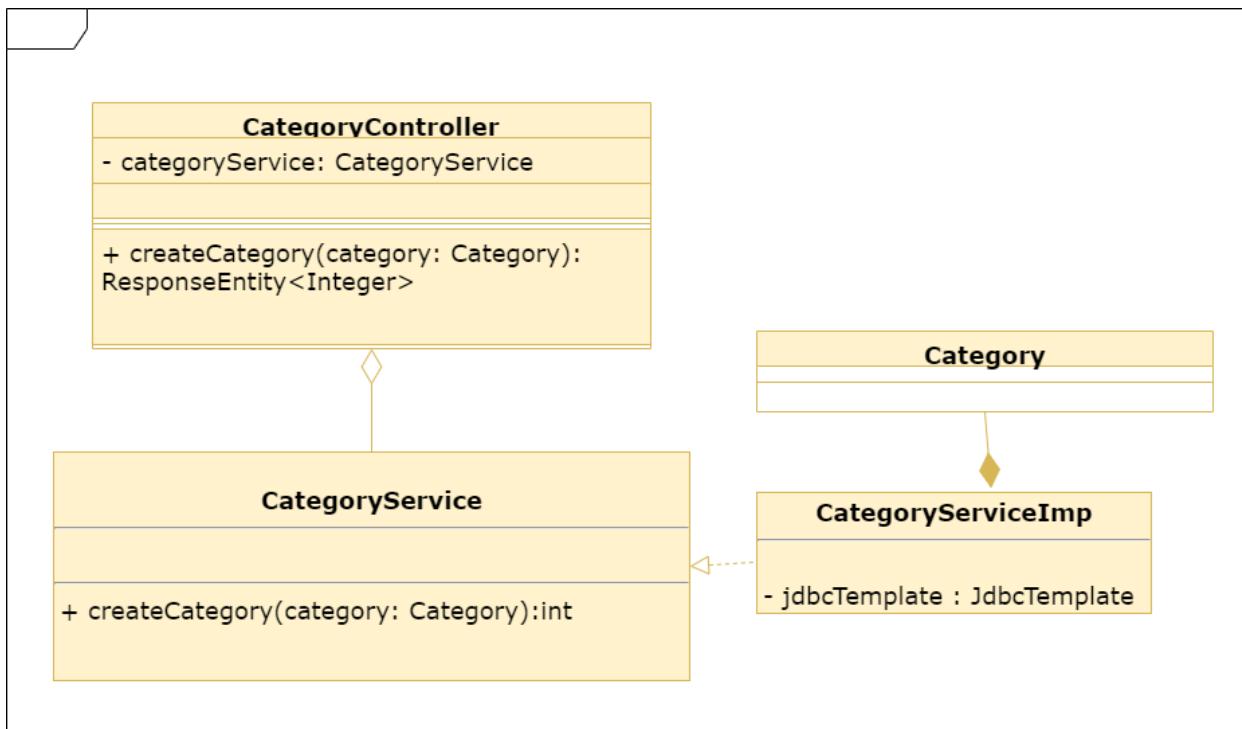


Screen design

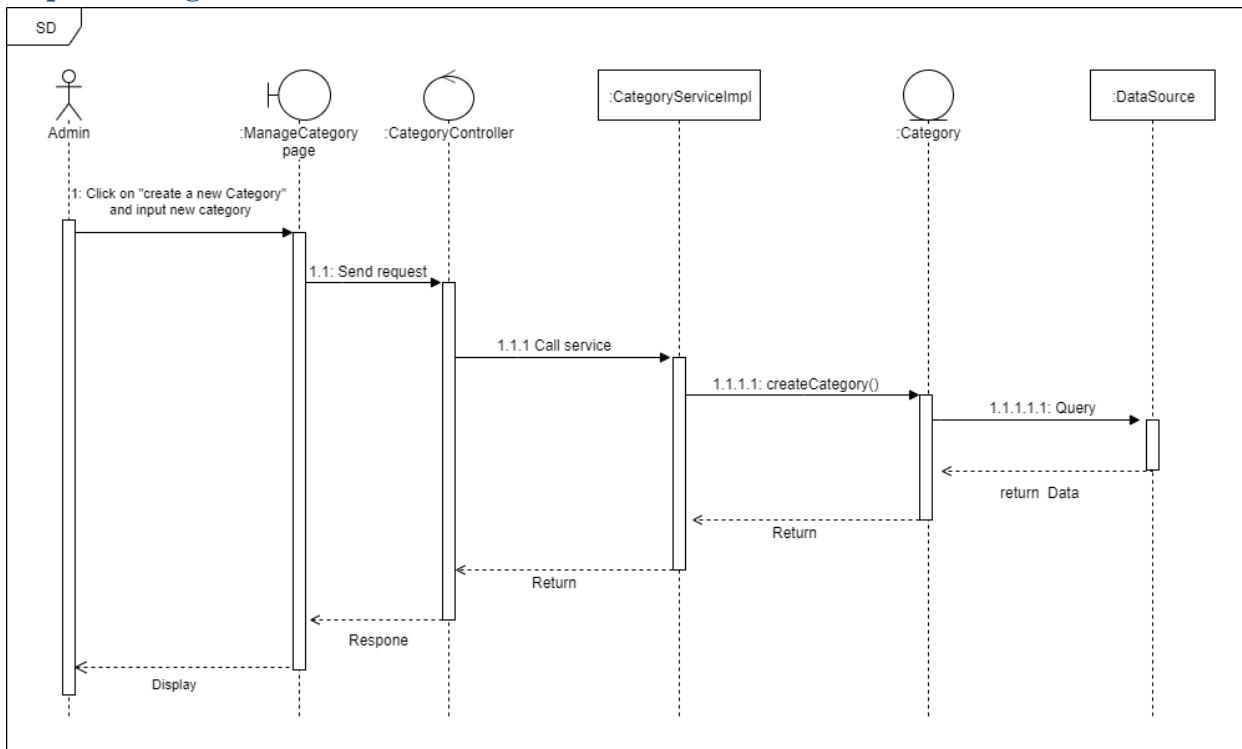


4.4.2.37 Create new category

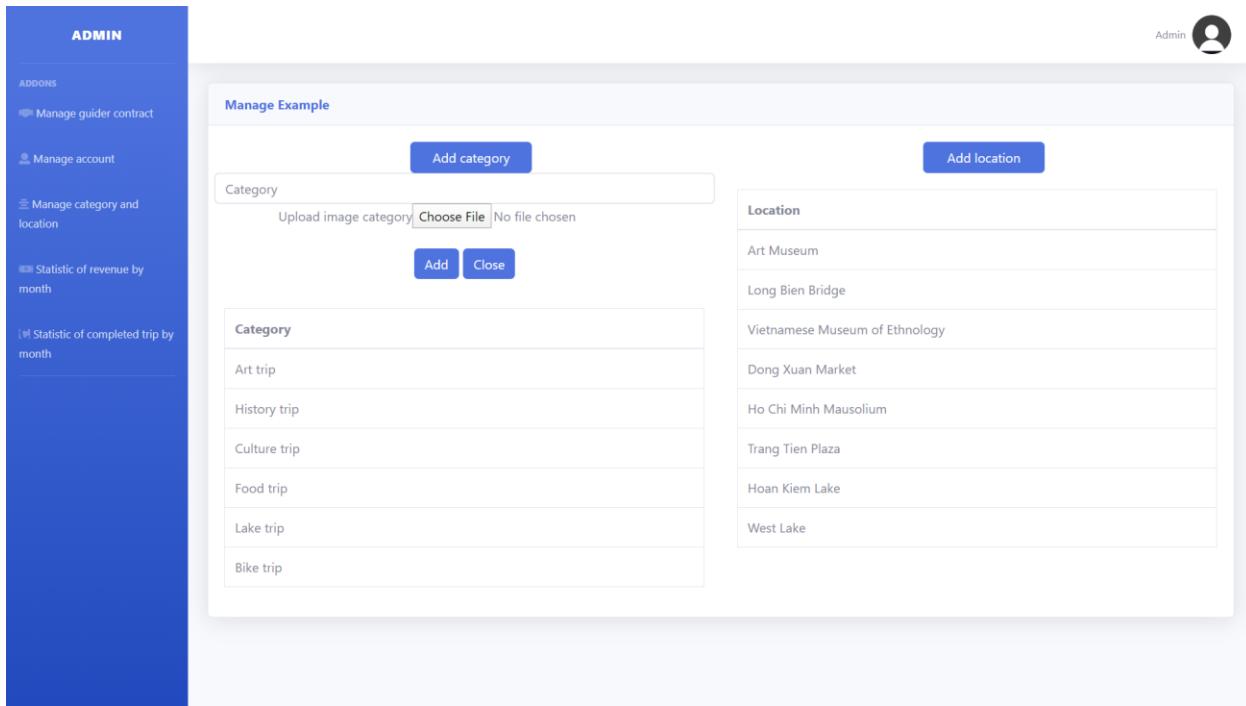
Class diagram



Sequence diagram

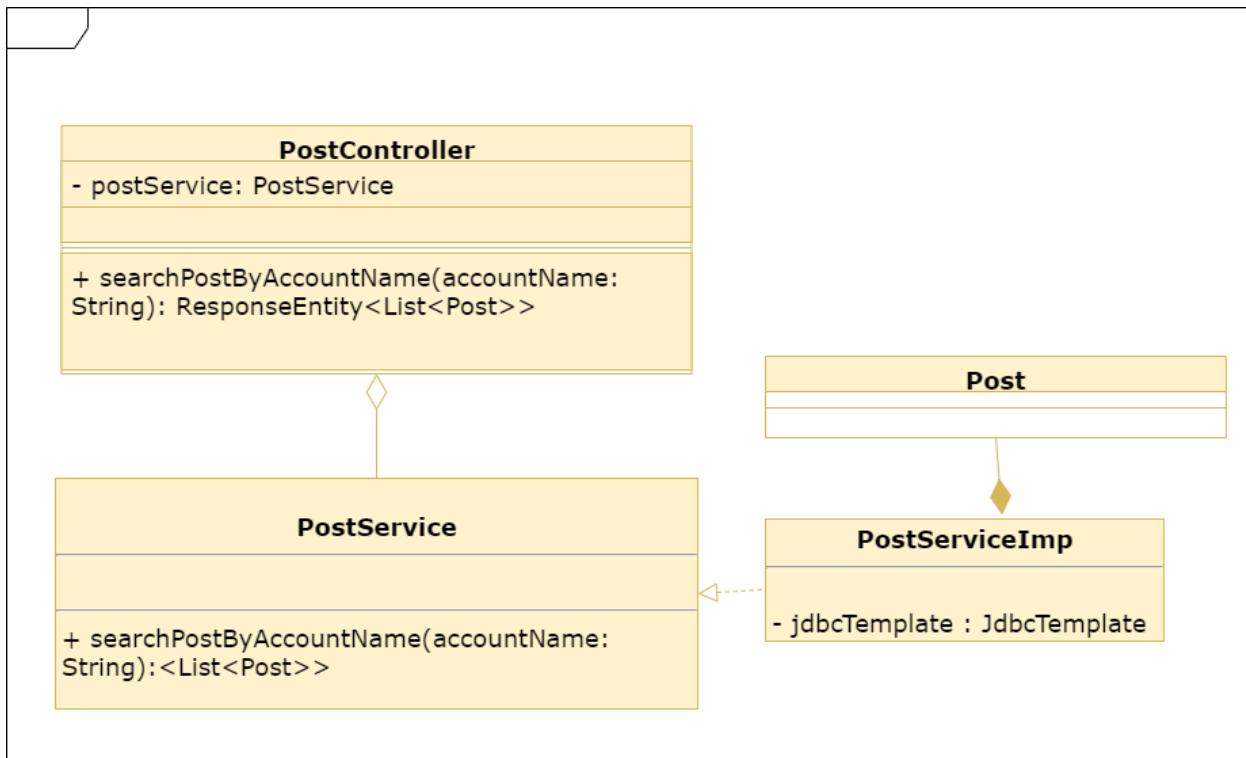


Screen design

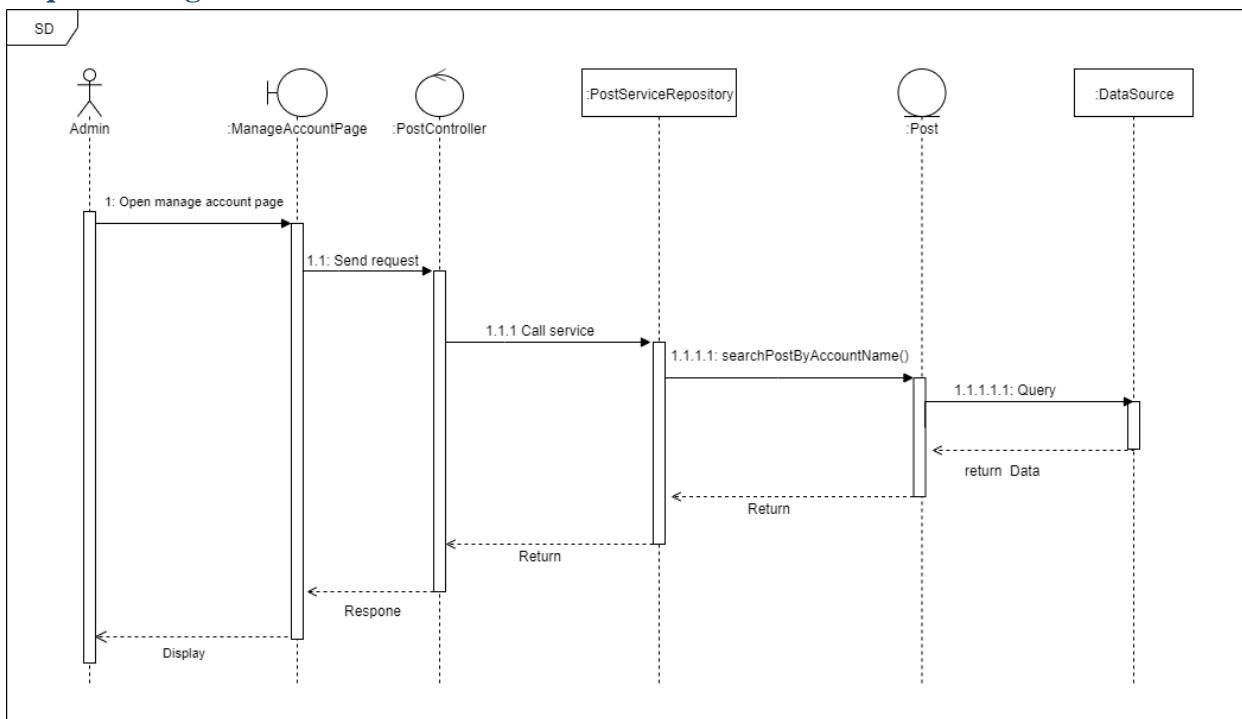


4.4.2.38 Search post by account name

Class diagram



Sequence diagram



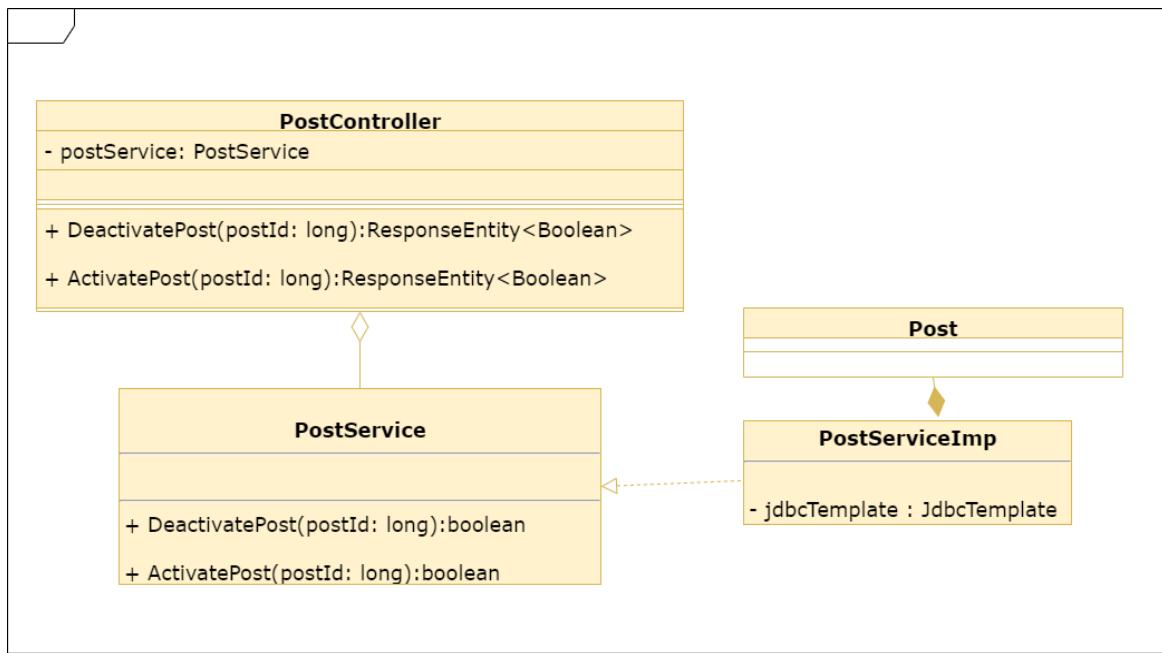
Screen design

The screenshot shows the Admin interface with a sidebar on the left containing navigation links: ADMIN, ADDONS, Manage guider contract, Manage account, Manage category and location, Statistic of revenue by month, and Statistic of completed trip by month. The main content area is titled 'All trip' and displays a table of trips:

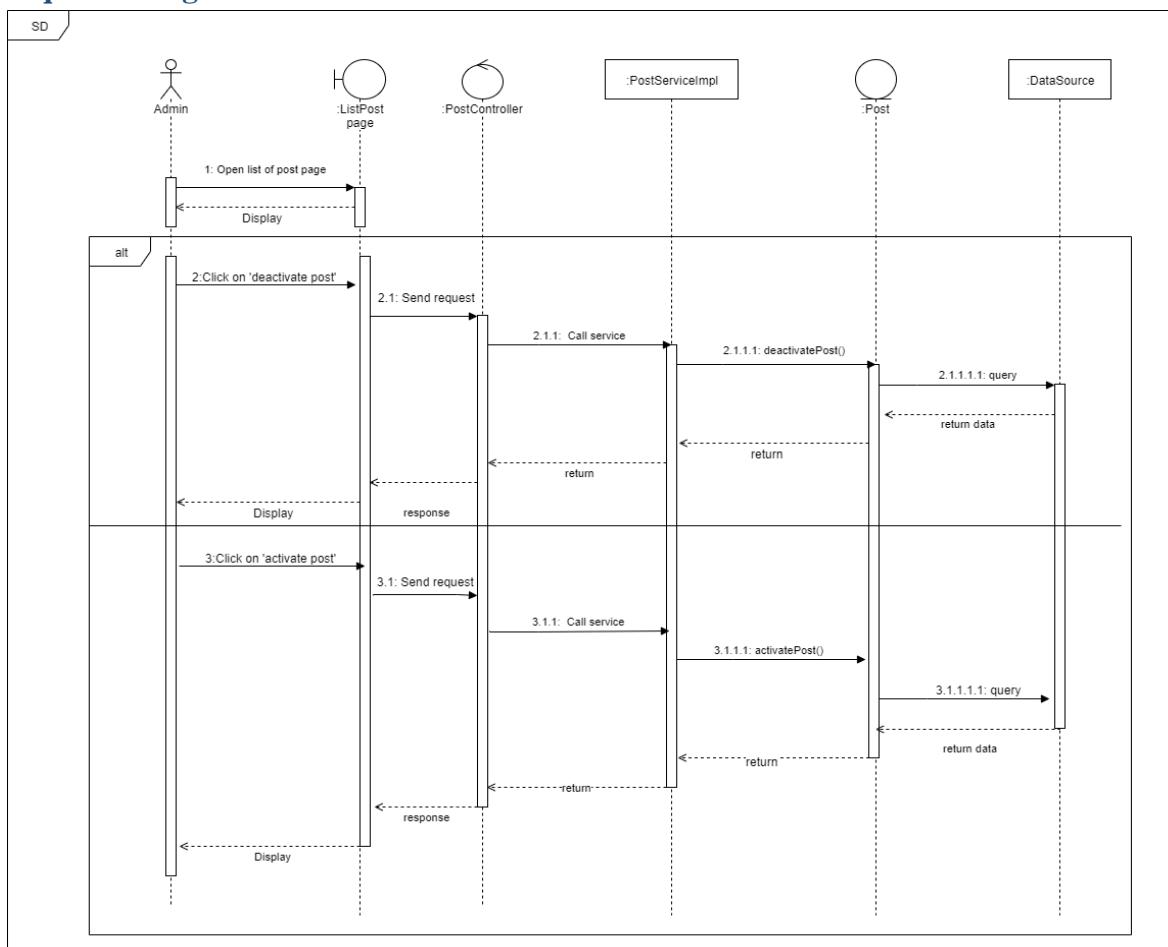
Title	Description	Reason	Status	Authorize
Long Bien Bridge, the historical witness	Take a tour visiting Long Bien Bridge, the bridge stood strong against Viet Nam War	Informative tour, Experience tour guide, Taking commemorative pictures	TRUE	Deactivate
Good surfing with local	Explore every knook and cranny of the most bustling market in Ha Noi	Informative tour, Experience tour guide, Cheap gift picking	TRUE	Deactivate
What to know about Vietnam Culture	Learning about the culture of vietnamese people	Informative tour, Experience tour guide, Vietnamese culture gift shop	FALSE	Activate
A tour in the art museum	A tour to go around the museum, feast your eyes on the greatest arts of Vietnamese people from the ancient to modern	Informative tour, Experience tour guide, Learn about arts	TRUE	Deactivate

4.4.2.39 Active/ De active Post

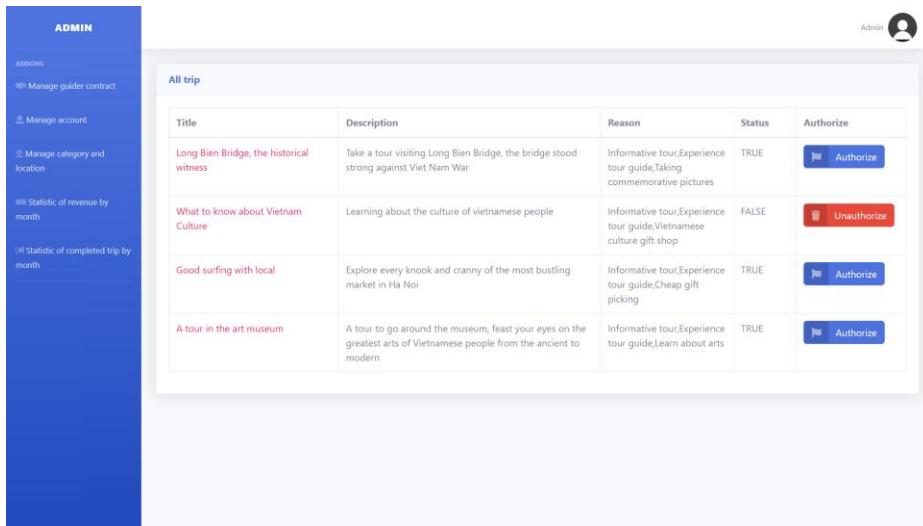
Class diagram



Sequence diagram



Screen design

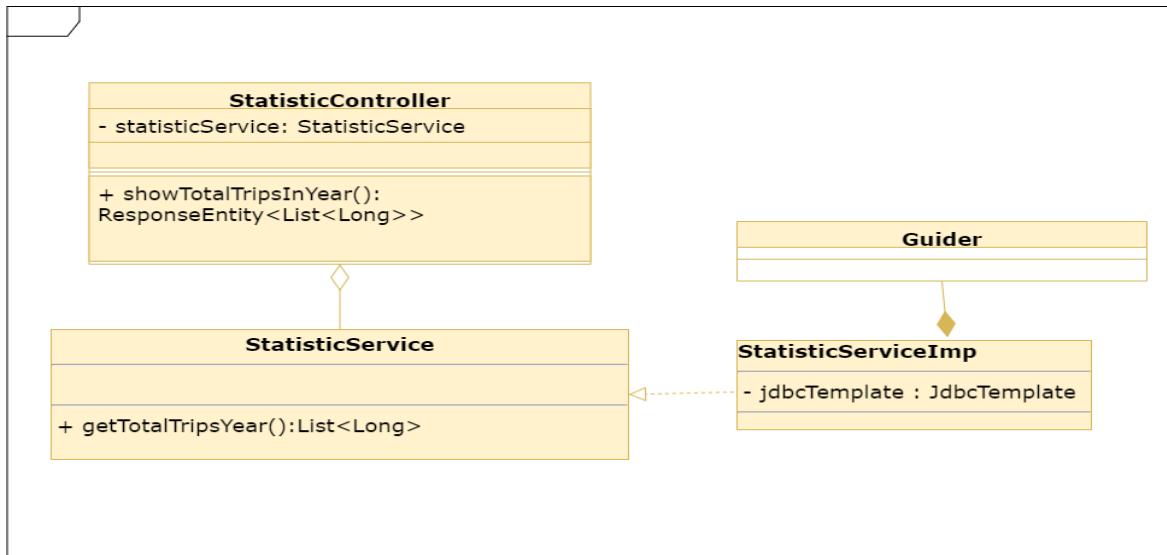


The screenshot shows the Admin interface with a sidebar on the left containing links for managing guider contracts, accounts, categories, and statistics. The main area is titled 'All trip' and displays a table with four rows of trip data. Each row includes a title, description, reason, status, and an 'Authorize' button.

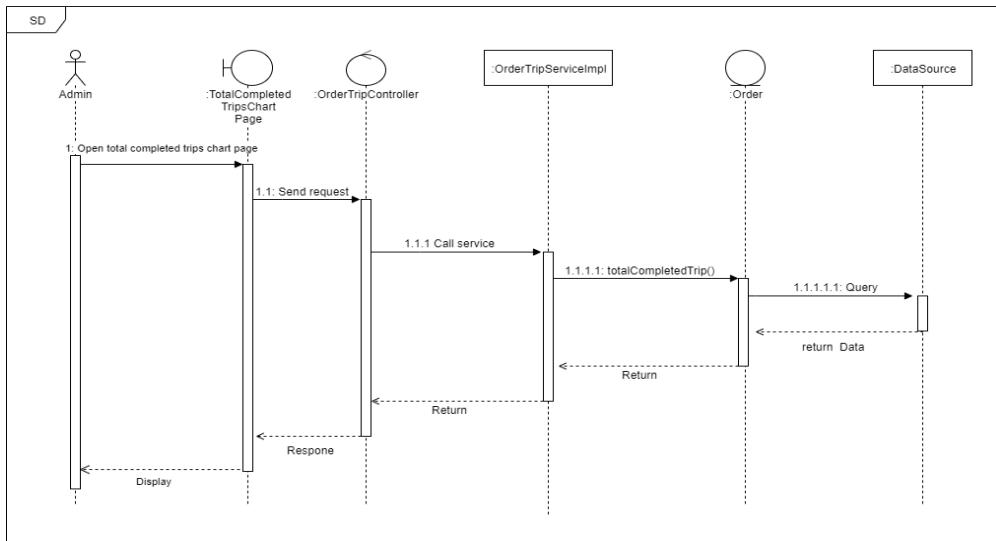
Title	Description	Reason	Status	Authorize
Long Bien Bridge, the historical witness	Take a tour visiting Long Bien Bridge, the bridge stood strong against Viet Nam War	Informative tour.Experience tour guide.Taking commemorative pictures	TRUE	Authorize
What to know about Vietnam Culture	Learning about the culture of vietnamese people	Informative tour.Experience tour guide.Vietnamese culture gift shop	FALSE	Unauthorize
Good surfing with local	Explore every knook and cranny of the most bustling market in Ha Noi	Informative tour.Experience tour guide.Cheap gift picking	TRUE	Authorize
A tour in the art museum	A tour to go around the museum, feast your eyes on the greatest arts of Vietnamese people from the ancient to modern	Informative tour.Experience tour guide.Learn about arts	TRUE	Authorize

4.4.2.40 View static of completed trip

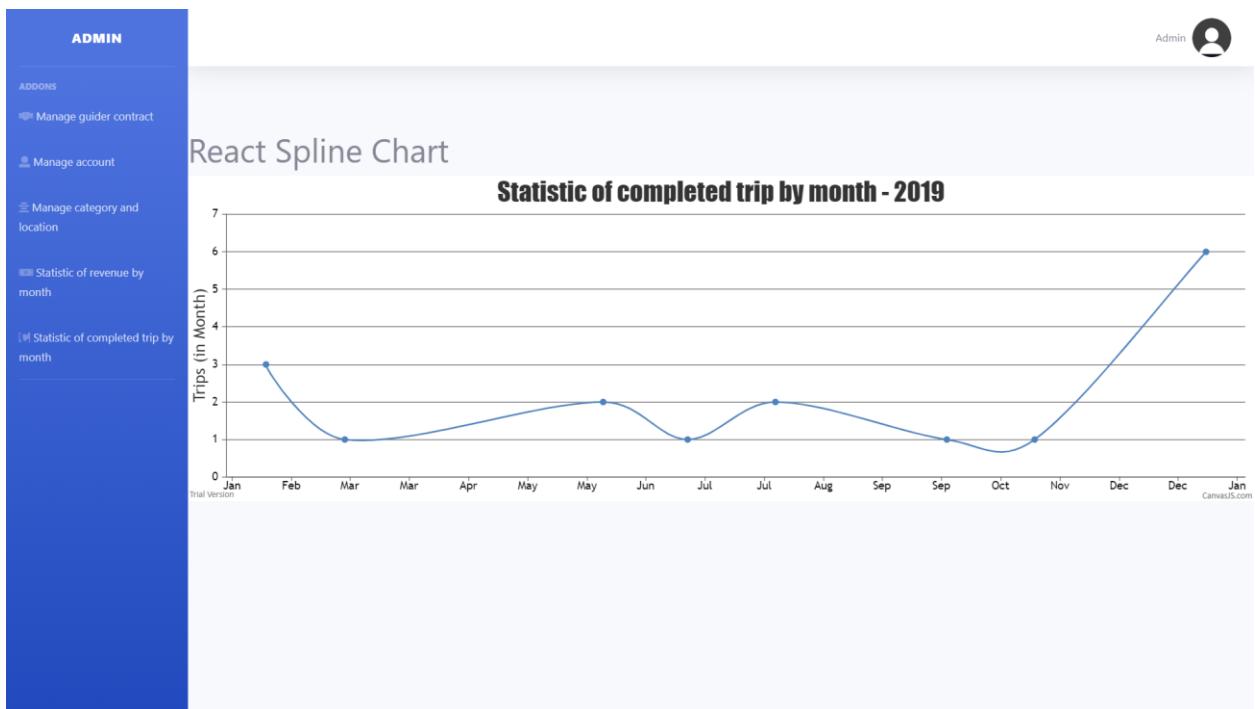
Class diagram



Sequence diagram

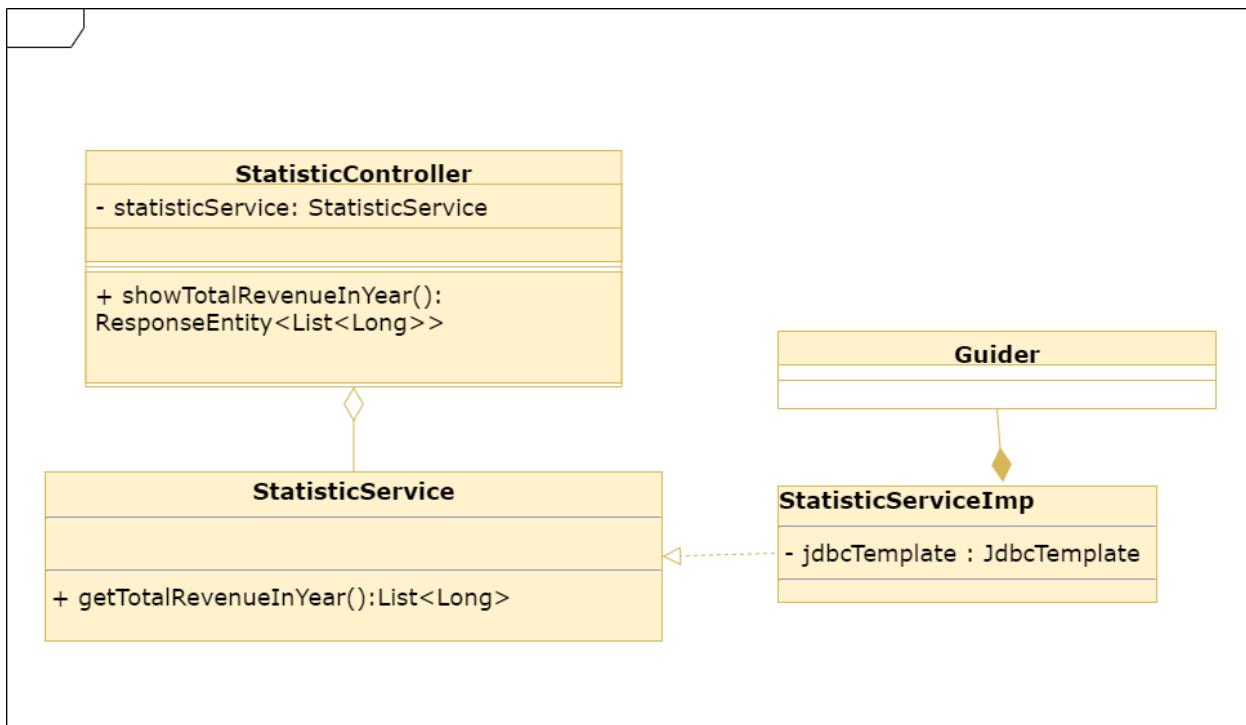


Screen design

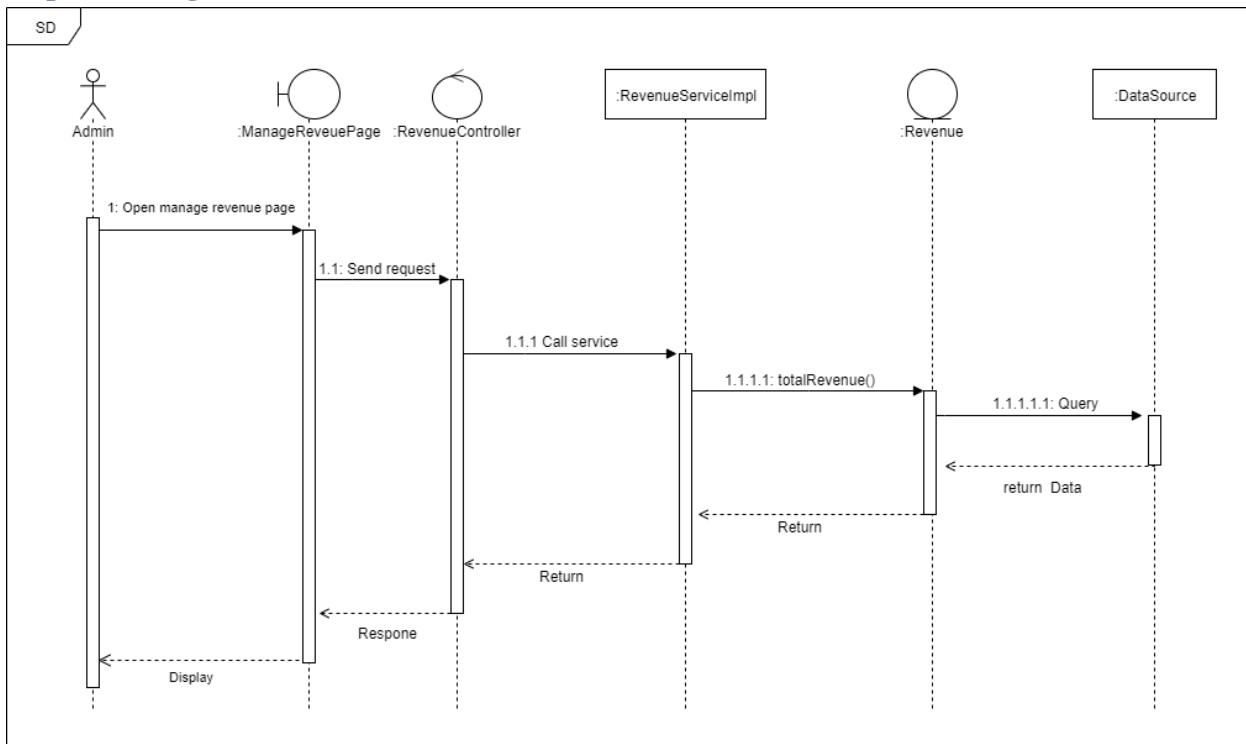


4.4.2.41 View static of revenue

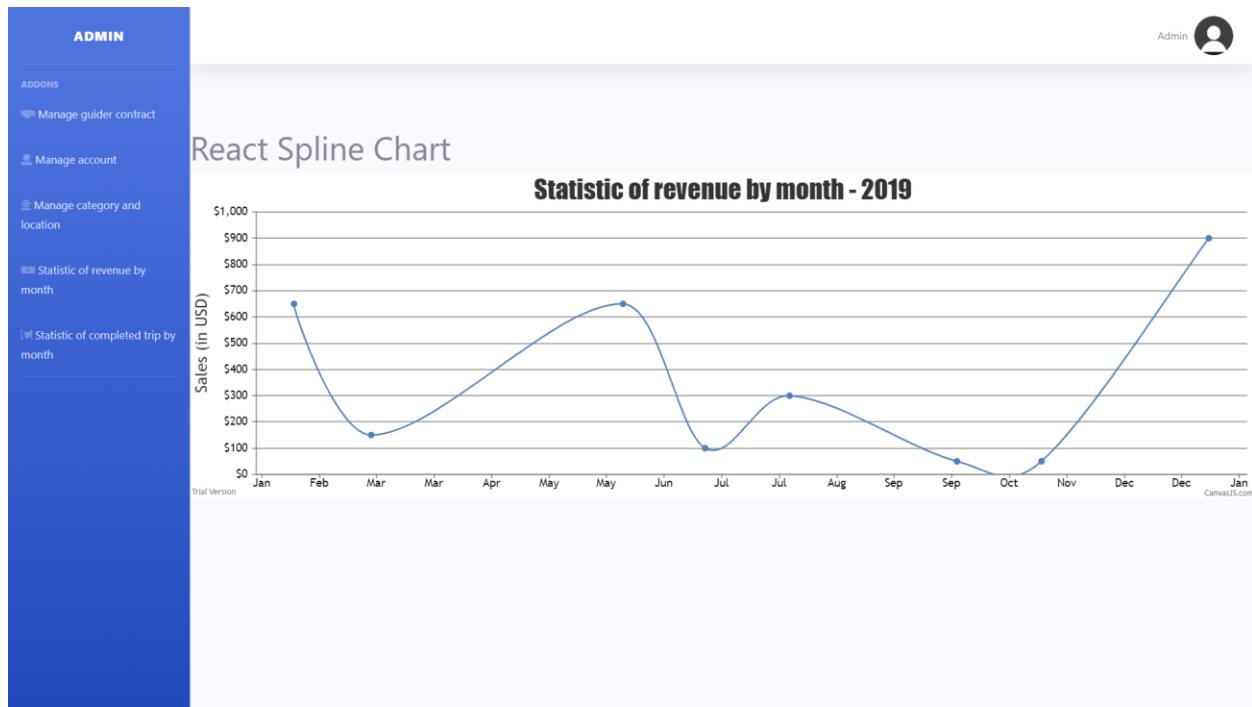
Class diagram



Sequence diagram



Screen design



4.4.3 Class

Notification Controller

Class	Notification Controller		
Description	Class		
Attribute	Name	Access modifier	Data type
	notificationRepository	public	NotificationRepository
Methods	Name	Access modifier	Return type
	sendNotification	public	void
	getNotification	public	HttpEntity

Notification Repository

Class	NotificationRepository		
Description	Class		
Attribute	Name	Access modifier	Data type
	mongoTemplate	public	MongoTemplate
Methods	Name	Access modifier	Return type
	get	public	List<ChatMessage>
	putDataFromMongoToPostgres	public	String

Notification

Class	Notification		
Description	Class		
Attribute	Name	Access modifier	Data type
	notificationId	public	String
	senderId	public	long
	receiverId	Public	Long
	content	Public	String
	sendAt	Public	Date
	seen	public	Boolean
Methods	Name	Access modifier	Return type

Chat Message Controller

Class	ChatMessageController		
Description	Class		
Attribute	Name	Access modifier	Data type
	chatMessageRepository	public	chatMessageRepository
Methods	Name	Access modifier	Return type
	sendMessage	public	void
	getMessage	public	HttpEntity
	addUser	public	ChatMessage

Chat Message Repository

Class	ChatMessageRepository		
Description	Class		
Attribute	Name	Access modifier	Data type
	mongoTemplate	public	MongoTemplate
Methods	Name	Access modifier	Return type
	get	public	List<ChatMessage>
	putDataFromMongoToPostgres	public	String

Chat message

Class	ChatMessage		
Description	Class		
Attribute	Name	Access modifier	Data type

	messageId	public	String
	senderId	public	long
	receiverId	Public	Long
	content	Public	String
	sendAt	Public	Date
	seen	public	Boolean
Methods	Name	Access modifier	Return type

Account Controller

Class	AccountController		
Description	Class		
Attribute	Name	Access modifier	Data type
	passwordEncoder	public	passwordEncoder
	accountRepository		AccountRepository
Methods	Name	Access modifier	Return type
	registerUserAccount	public	ResponseEntity

Account Repository

Class	AccountRepository		
Description	Class		
Attribute	Name	Access modifier	Data type
	jdbcTemplate	public	jdbcTemplate

Methods	Name	Access modifier	Return type
	findAccountByName	public	Account
	addAccount	public	String

Account

Class	Account		
Description	Class		
Attribute	Name	Access modifier	Data type
	account_id	public	long
	userName	public	String
	Password	public	String
	Email	public	String
	role	public	String
Methods	Name	Access modifier	Return type

Principal Service

Class	PrincipalService		
Description	Class		
Attribute	Name	Access modifier	Data type
	accountRepo	public	AccountRepository
Methods	Name	Access modifier	Return type
	loadUserByUsername	public	UserDetails

Web Security Configuration

Class	WebSecurityConfiguration		
Description	Class		
Attribute	Name	Access modifier	Data type
	userDetail	public	PrincipalService
	principal	public	principal
	tokenHelper	public	tokenHelper
Methods	Name	Access modifier	Return type
	getAuthenticationFilter	public	AuthenticationFilter
	CorsConfigurationSource	public	CorsConfigurationSource
	configurelobal	public	ResponseEntity<Guider>
	configure	public	void
	authenticationManagerBean	public	AuthenticationManager

Authentication Filter

Class	AuthenticationFilter		
Description	Class		
Attribute	Name	Access modifier	Data type
	authProvider	public	AuthenProvider
	tokenHelper	public	tokenHelper
Methods	Name	Access modifier	Return type

	attemptAuthentication	public	Authentication
	successAuthentication	public	Authentication
	setAuthentication	public	AuthenticationManager

Token Helper

Class	TokenHelper		
Description	Class		
Attribute	Name	Access modifier	Data type
	secretKey	public	String
	validityDuration	public	long
Methods	Name	Access modifier	Return type
	init	public	void
	createToken	public	String
	getUsername	public	String
	resolveToken	public	String
	validateToken	public	boolean

Token Authen Filter

Class	TokenAuthenFilter		
Description	Class		
Attribute	Name	Access modifier	Data type
	principalService	public	principalService
	tokenHelper	public	tokenHelper

Methods	Name	Access modifier	Return type
	doFilterInternal	public	Authentication

Feedback Controller

Class	FeedbackController		
Description	Class		
Attribute	Name	Access modifier	Data type
	feedbackService	public	feedbackService
Methods	Name	Access modifier	Return type
	sendFeedback	public	ResponseEntity<Boolean>

Feedback Service

Class	FeedbackService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	createFeedback	public	Boolean
	sendFeedback	public	Boolean

Feedback Service Imp

Class	FeedbackServiceImp		
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Description	Class		
Attribute	Name	Access modifier	Data type
	mailSender	public	GeneralService
	jdbcTemplate	public	JdbcTemplate
	guiderService	public	GuiderService
	travelerService	public	TravelerService
Methods	Name	Access modifier	Return type

Feedback

Class	Feedback		
Description	Class		
Attribute	Name	Access modifier	Data type
	feedbackId	public	Long
	accountId	public	Long
	message	public	String
	timeSend	public	LocalDateTime
Methods	Name	Access modifier	Return type

Traveler Controller

Class	TravelerController		
Description	Class		
Attribute	Name	Access modifier	Data type

	travelerService	public	TravelerService
Methods	Name	Access modifier	Return type
	createTraveler	public	ResponseEntity<Traveler>
	updateTraveler	public	ResponseEntity<Traveler>
	activateTraveler	public	ResponseEntity<Traveler>
	deactivateTraveler	public	ResponseEntity<Traveler>
	searchTraveler	public	ResponseEntity<List<Traveler>>

Traveler Service

Class	TravelerService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	createTraveler	public	long
	findTravelerById	public	Traveler
	updateTraveler	public	long

Traveler Service Imp

Class	TravelerServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	generalService	public	GeneralService

	jdbcTemplate	public	JdbcTemplate
Methods	Name	Access modifier	Return type

Traveler

Class	Traveler		
Description	Class		
Attribute	Name	Access modifier	Data type
	travelerId	public	Long
	firstName	public	String
	lastName	public	String
	Phone	public	String
	Birth	public	Date
	Gender	public	Int
	Street	public	String
	HouseNumber	public	String
	City	public	String
	Country	public	String
	postalCode	public	String
	avatarLink	public	String
	languages	public	String
Methods	Name	Access modifier	Return type

Guider Controller

Class	GuiderController		
Description	Class		
Attribute	Name	Access modifier	Data type
	guiderService	public	GuiderService
Methods	Name	Access modifier	Return type
	createGuider	public	ResponseEntity<Guider>
	updateGuider	public	ResponseEntity<Guider>
	activateGuider	public	ResponseEntity<Guider>
	deactivateGuider	public	ResponseEntity<Guider>
	searchGuider	public	ResponseEntity<List<Guider>>

4.4.3.1 Guider Service

Class	GuiderService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	findGuiderById	public	Guider
	findGuiderByPostId	public	Guider
	findGuiderContract	public	Contract
	createGuider	public	long
	createGuiderContract	public	long
	updateGuiderById	public	long
	activateGuider	public	long

	deactivateGuider	public	long
	searchGuiderByName	public	List<Guider>

Guider Service Imp

Class	GuiderServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	jdbcTemplate	public	JdbcTemplate
Methods	Name	Access modifier	Return type

Guider

Class	Guider		
Description	Class		
Attribute	Name	Access modifier	Data type
	guiderId	public	Long
	firstName	public	String
	lastName	public	String
	Description	public	String
	age	public	Int
	Passion	public	String
	city	public	String
	avatarLink	public	String
	languages	public	String

	Contribution	public	long
	Rated	public	Float
	active	public	Boolean
Methods	Name	Access modifier	Return type

Contract

Class	Contract		
Description	Class		
Attribute	Name	Access modifier	Data type
	contractId	public	Long
	Name	public	String
	nationality	public	String
	Birth	public	Date
	Gender	public	Int
	hometown	public	String
	address	public	String
	identity_card_number	public	String
	card_issued_state	public	String
	card_active_date	public	Date
	contract_active_date	public	Date
	contract_deActive_date	public	Date
Methods	Name	Access modifier	Return type

Post Controller

Class	PostController		
Description	Class		
Attribute	Name	Access modifier	Data type
	generalServiceImp	public	GeneralService
	postServiceImp		postServiceImp
Methods	Name	Access modifier	Return type
	findAllPostOfOneGuider	public	ResponseEntity<List<Post>>
	findAllPostOfOneCategory	public	ResponseEntity<List<Post>>
	findAllPostOfOneCategory	public	ResponseEntity<List<Post>>
	findSpecificPost	public	ResponseEntity<List<Post>>
	updatePost	public	ResponseEntity<List<Post>>
	insertPost	public	ResponseEntity<List<Post>>

Post Service

Class	PostService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	findAllPostOfOneGuider	public	List<Post>

	findAllPostByCategoryId	public	List<Post>
	findSpecificPost	public	post
	updatePost	public	Long
	insertNewPost	public	long

Post Service Imp

Class	PostServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	generalServiceImp	public	GeneralService
	jdbcTemplate		jdbcTemplate

Post

Class	Post		
Description	Class		
Attribute	Name	Access modifier	Data type
	Post_id	public	Long
	title	public	String
	Video_link	public	String
	Picture_link	public	String[]
	Total_hour	public	Int
	Description	public	String
	Included_service	public	String

	Active	public	boolean
	Location	public	String
	Category	public	string
	Price	public	Float
	rated	public	float
	Reasons	Public	String
Methods	Name	Access modifier	Return type

Category Controller

Class	CategoryController		
Description	Class		
Attribute	Name	Access modifier	Data type
	CategoryServiceImp	public	CategoryService
Methods	Name	Access modifier	Return type
	findAllCategory	public	ResponseEntity<List<Category>>
	insertCategory	public	ResponseEntity<Long>
	updateCategory	public	ResponseEntity<Long>

Category Service

Class	CategoryService		
Description	Class		
Attribute	Name	Access modifier	Data type

Methods	Name	Access modifier	Return type
	findAllCategory	public	List<Category>
	insertCategory	public	Long
	updateCategory	public	Long

Category Service Imp

Class	CategoryServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	generalServiceImp	public	GeneralService
	jdbcTemplate	public	JdbcTemplate
Methods	Name	Access modifier	Return type

Category

Class	CategoryServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	category	public	String
	Category_id	public	Long
Methods	Name	Access modifier	Return type

Location Controller

Class	LocationController		
Description	Class		
Attribute	Name	Access modifier	Data type
	locationServiceImp	public	LocationService
Methods	Name	Access modifier	Return type
	findAllLocation	public	ResponseEntity<List<Location>>
	insertLocation	public	ResponseEntity<Long>
	updateLocation	public	ResponseEntity<Long>

Location Service

Class	LocationService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	findAllLocation	public	List<Location>
	insertLocation	public	Long
	updateLocation	public	Long

Location Service Imp

Class	LocationServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type

	generalServiceImp	public	GeneralService
	jdbcTemplate	public	JdbcTemplate
Methods	Name	Access modifier	Return type

Location

Class	Location		
Description	Class		
Attribute	Name	Access modifier	Data type
	location	public	String
	location_id	public	Long
Methods	Name	Access modifier	Return type

Plan Controller

Class	PlanController		
Description	Class		
Attribute	Name	Access modifier	Data type
	PlanServiceImp	public	PlanService
Methods	Name	Access modifier	Return type
	findAllPlan	public	ResponseEntity<List<Plan>>
	insertPlan	public	ResponseEntity<Long>
	updatePlan	public	ResponseEntity<Long>

Plan Service

Class	PlanService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	createPlan	public	Long
	searchPlanByPlanId	public	Plan
	searchPlanByPostId	public	Plan
	updatePlan	public	void

Plan Service Imp

Class	PlanServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	generalServiceImp	public	GeneralService
	jdbcTemplate	public	JdbcTemplate
Methods	Name	Access modifier	Return type

Plan

Class	Plan		
Description	Class		
Attribute	Name	Access modifier	Data type

	Plan_id	public	Long
	meeting_point	public	String
	detail	public	String
	post_id	public	Long
	order_id	public	Long
Methods	Name	Access modifier	Return type

Review Controller

Class	ReviewController		
Description	Class		
Attribute	Name	Access modifier	Data type
	reviewService	public	reviewService
Methods	Name	Access modifier	Return type
	findReviewByGuiderId	public	ResponseEntity<List<Review>>
	findReviewByPostId	public	ResponseEntity<List<Review>>
	checkReviewExist	public	ResponseEntity<List<Review>>
	createReview		ResponseEntity<Boolean>
	hideReview		ResponseEntity<Boolean>

Review Service

Class	ReviewService		
Description	Class		
Attribute	Name	Access	Data type

		modifier	
Methods	Name	Access modifier	Return type
	createReview	public	boolean
	checkReviewExist	public	boolean
	findReviewByPostId	public	List<Review>
	findReviewByGuiderId	public	List<Review>
	findReviewByTripId	public	List<Review>
	hideReview	public	boolean

Review Service Imp

Class	ReviewServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	jdbcTemplate	public	JdbcTemplate
Methods	Name	Access modifier	Return type

Review

Class	Review		
Description	Class		
Attribute	Name	Access modifier	Data type
	trip_id	public	Long
	traveler_id	public	Long

	guider_id	public	Long
	post_id	public	Long
	review	public	String
	review_date	public	Date
	rated	public	Float
	travelerName	public	String
Methods	Name	Access modifier	Return type

4.4.3.2 Trip management

Trip Controller

Class	TripController		
Description	Class		
Attribute	Name	Access modifier	Data type
	paypalService	public	PaypalService
	tripService		TripService
Methods	Name	Access modifier	Return type
	getAvailableBookingHour	public	ResponseEntity<List<String>>
	getTripByStatus	public	ResponseEntity<List<Trip>>
	cancelTrip	public	ResponseEntity<String>
	acceptTrip	public	ResponseEntity<Boolean>
	getTripByWeek	public	ResponseEntity<List<Trip>>
	getClosestFinishDate	public	ResponseEntity<String>

Trip Service

Class	TripService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	findTripByStatus	public	List<Trip>
	getTripByWeek	public	List<Trip>
	findTripById	public	Trip
	checkTripExist	public	Long
	checkAvailabilityOfTrip	public	Long
	createTrip	public	Long
	acceptTrip	public	boolean
	cancleTrip	public	boolean
	getGuiderAvailableHour	public	List<String>
	getClosestTourFinishDate	public	String

Trip Service Imp

Class	TripServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	jdbcTemplate	public	JdbcTemplate
	payment	public	PaypalService

	bufferTimePercentage	public	String
Methods	Name	Access modifier	Return type

Trip

Class	Trip		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	trip_id	public	Long
	traveler_id	public	Int
	guider_id	public	Int
	post_id	public	Long
	begin_date	public	LocalDateTime
	finish_date	public	LocalDateTime
	adult_quantity	public	Int
	children_quantity	public	Int
	transaction_id	public	String
	status	public	String
	fee_paid	public	Float
	rated	public	Float
	postTitle	public	String
	fullName	public	String

Paypal Controller

Class	PaypalController		
Description	Class		
Attribute	Name	Access modifier	Data type
	paypalService	public	PaypalService
	tripService		TripService
Methods	Name	Access modifier	Return type
	payForTrip	public	String
	successPay	public	ResponseEntity<Object>
	cancelPay	public	ResponseEntity<Object>

Paypal Service

Class	PaypalService		
Description	Class		
Attribute	Name	Access modifier	Data type
Methods	Name	Access modifier	Return type
	createPayment	public	Payment
	executePayment	public	Payment
	createTransactionRecord	public	void
	getTransactionFee	public	Double
	getTransactionDescription	public	String

	refundPayment	public	Refund
	createRefundRecord	public	void

Paypal Service Imp

Class	PaypalServiceImp		
Description	Class		
Attribute	Name	Access modifier	Data type
	jdbcTemplate	public	JdbcTemplate
Methods	Name	Access modifier	Return type

Transaction Record

Class	TransactionRecord		
Description	Class		
Attribute	Name	Access modifier	Data type
	transaction_id	public	String
	payment_id	public	String
	payer_id	public	String
	trip_id	public	Long
	description	public	String
	date_of_transaction	public	Timestamp
	success	public	boolean
Methods	Name	Access modifier	Return type

Chapter 5: Software Testing Document

5.1 Purpose

This chapter provides the testing document of TWL website. This chapter includes the scope of testing, testing tools and environment, strategy and plan, test approach and the defects log. By using this chapter's content, developers and testers can ensure that system is well tested.

5.2 Test Plan

5.2.1 Objective and scope

The objective of testing is to satisfy all features as described in Software Requirement Specification, finding defects which may get created by developer while developing the software. The quality goal is at least 99 % of test case to be tested and passed.

5.2.2 Testing tools and environment

Testing tool

Hardware:

No	Name	Purpose	Detail
1	Laptop Lenovo	Device for executing test	<ul style="list-style-type: none">• CPU: Intel Core i7-4710HQ• GPU: GTX860M• HDD: 1TB• RAM: 8gb
2	Laptop Acer	Device for executing test	<ul style="list-style-type: none">• CPU: Intel Core i5-6900HQ• GPU: GTX1050• SSD: 256GB• HDD: 1TB• RAM: 8gb
3	Macbook Air	Device for executing test	<ul style="list-style-type: none">• CPU: Intel Core i5• GPU: Intel UHD Graphics 617• SSD: 256GB• RAM: 8gb

Software:

No	Tools	Version	Description
1	Google Chrome	75.0.3770.142	GUI Testing
2	Microsoft Excel	2016	Manage test cases, bugs check list
3	Microsoft Word	2016	Create test plan
4	JUnit 5	5	Unit test
5	IntelliJ IDEA	2019.3	Unit test

Testing environment

No	Type of testing	Software	Hardware
1	Unit test	<ul style="list-style-type: none"> • JUnit 5 • IntelliJ IDEA 	<ul style="list-style-type: none"> • Laptop Acer
2	Integration and System test	<ul style="list-style-type: none"> • Chrome v.75.0.3770.142 	<ul style="list-style-type: none"> • Laptop Lenovo • Macbook Air • Laptop Acer

5.2.3 Human resources and responsibility

No	Resource	Responsibility
1	Test leader	<ul style="list-style-type: none"> • Create test plan and test strategy. • Create test cases and test report. • Review test cases and test report. • Executing test and testing log report. • Manage overall project quality.
2	Tester	<ul style="list-style-type: none"> • Executing test and testing log report.
3	Developer	<ul style="list-style-type: none"> • Create and perform Unit Test. • Fix bug.

5.2.4 Risk list

No	Risk description	Category	Solution
1	The hardware may be corrupted during the test	Scope	Change hardware

2	Not enough time for testing	Time	Add more resources to test, working over time
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5.3 Test Strategy

5.3.1 Test model

This project follows V-Model process to implement testing. V-Model is a software development model, consists of Verification model and Validation model, the V-shaped life cycle is a sequential path of execution of progress. So, each phase must be completed before the next phase begin.

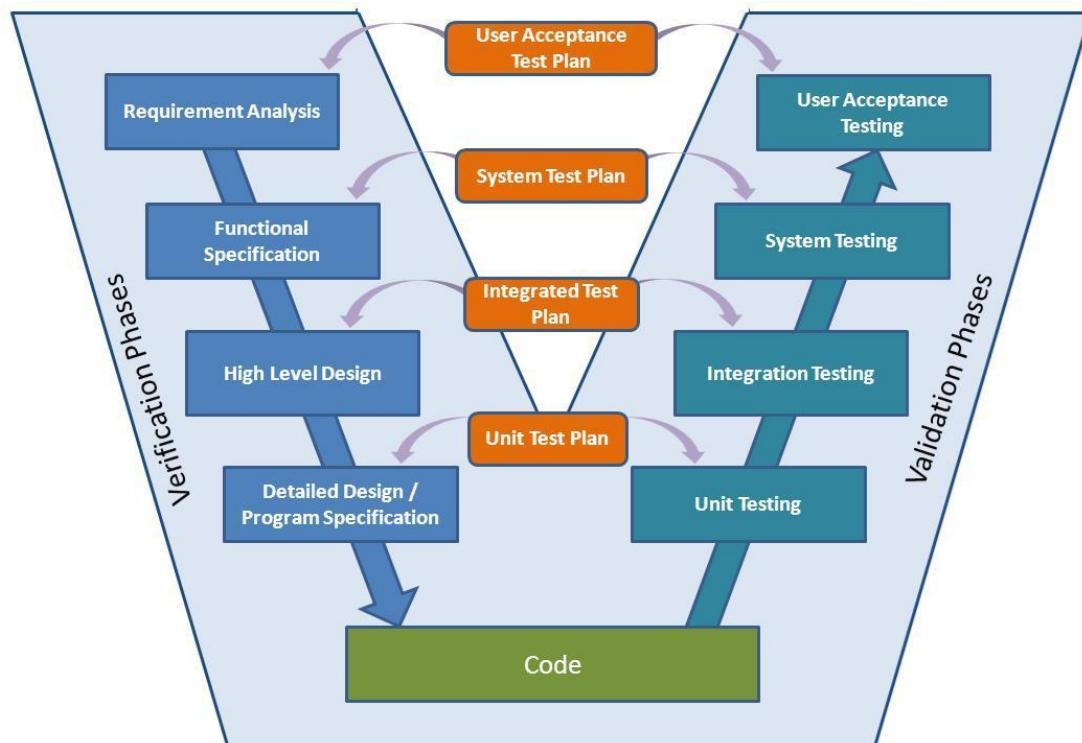


Figure 0-1. V-Model

- **The advantages** of V-Model to this project:
 - The project is small and easy to understand.
 - Time saving and suitable for each iterator.
 - Simple and easy to use
 - Help to avoid the downward flow of the defects.

5.3.2 Type of testing

No	Type of test	Description
1	Function test	<ul style="list-style-type: none"> Functional testing is a quality assurance process and a type of black-box testing that bases its test cases on the specifications of the software component under test.
2	GUI test	<ul style="list-style-type: none"> Graphical User Interface (GUI) testing is a process of testing a product's graphical user interface to ensure it meets its specifications. This normally done through the use of variety of test cases. GUI test will be performed on all screens.
3	Acceptance test	<ul style="list-style-type: none"> Acceptance test is a test conducted to determine if the requirements of a specification or contract are met

5.3.3 Test stage

Type of Test	Test Level			
	Unit Test	Integration Test	System Test	User Acceptance Test
Unit testing	✓	✓	✓	
Regression Testing	✓	✓	✓	
Functional Testing		✓	✓	✓
GUI Test			✓	✓

5.3.4 Test Deliverables

Deliverables	Responsibility	Completion Date
Test Plan	Test leader	13/9/2019
Test cases	Test leader + Tester	25/11/2019
Test case review	Test leader + Tester	25/11/2019
Defect log	All members	13/12/2019
Final test report	Test leader	18/12/2019

5.3.5 Test Milestones

Task	Start Date	End Date
Iteration 1	9/9/2019	10/10/2019
Create Test Plan	11/9/2019	13/9/2019
Review and Update Test Plan	13/9/2019	13/9/2019
Create and review Integration test	14/9/2019	14/9/2019
Create and review System test	15/9/2019	15/9/2019
Execute unit test	4/10/2019	5/10/2019
Execute Integration test	5/10/2019	7/10/2019
Execute System test	7/10/2019	8/10/2019
Execute Acceptance test	9/10/2019	9/10/2019
Iteration 2	11/10/2019	31/10/2019
Review and Update Test Plan	14/10/2019	14/10/2019
Create and review Integration test	14/10/2019	15/10/2019
Create and review System test	15/10/2019	16/10/2019
Execute unit test	26/10/2019	28/10/2019
Execute Integration test	27/10/2019	28/10/2019
Execute System test	28/10/2019	30/10/2019
Execute Acceptance test	30/10/2019	30/10/2019
Iteration 3	1/11/2019	20/11/2019
Review and Update Test Plan	2/11/2019	2/11/2019
Create and review Integration test	2/11/2019	3/11/2019
Create and review System test	3/11/2019	4/11/2019
Execute unit test	15/11/2019	18/11/2019
Execute Integration test	18/11/2019	19/11/2019
Execute System test	19/11/2019	20/11/2019
Execute Acceptance test	20/11/2019	20/11/2019
Iteration 4	21/11/2019	6/12/2019
Review and Update Test Plan	22/11/2019	22/11/2019
Create and review Integration test	23/11/2019	24/11/2019
Create and review System test	25/11/2019	25/11/2019
Execute unit test	28/11/2019	3/12/2019
Execute Integration test	3/12/2019	4/12/2019
Execute System test	4/12/2019	5/12/2019
Execute Acceptance test	5/12/2019	5/12/2019

5.3.6 Features to be tested

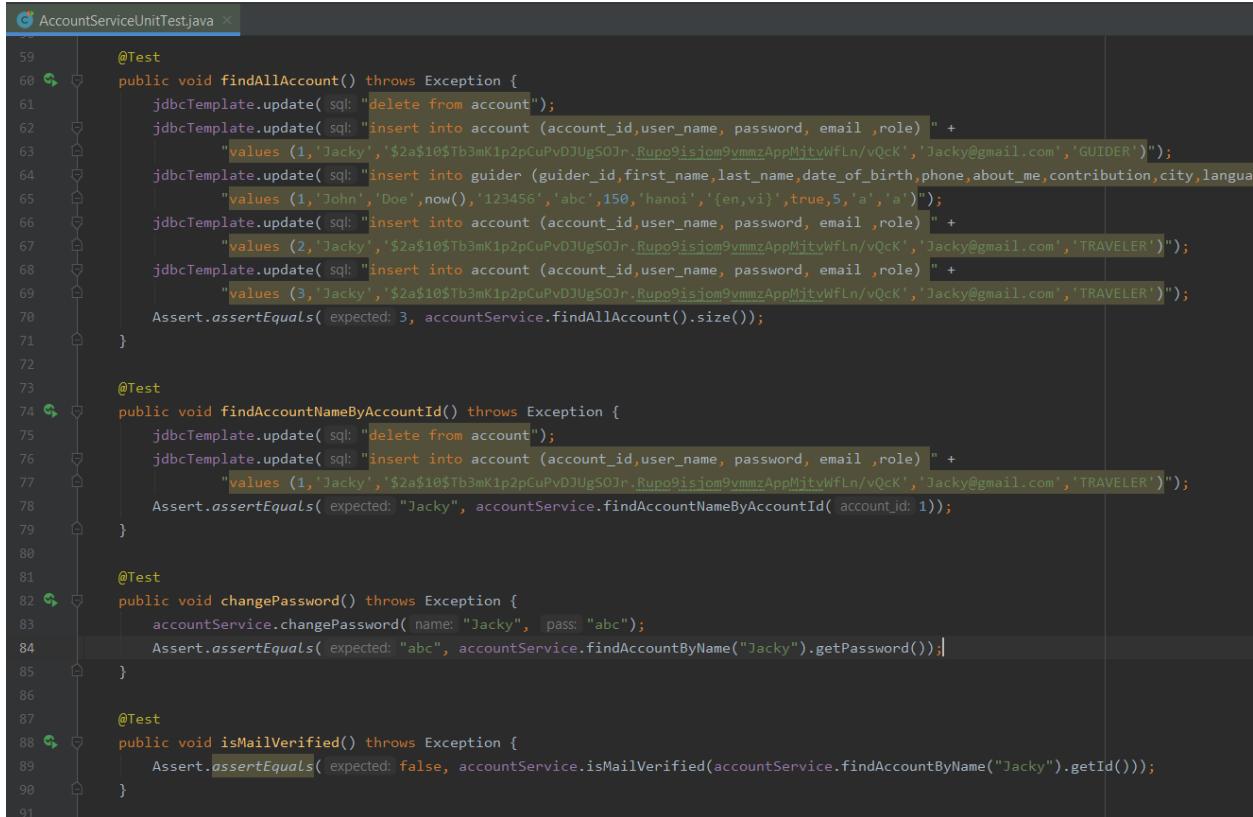
- All the features listed in [Use case list](#) will be tested.
- GUI of TWL Website and TWL Administration Website.

5.3.7 Features not to be tested

- Out of scope features will not be tested.
- Any features which are not be listed in [Use case list](#).
- Non-functional will not be tested.

5.4 Test Approach

5.4.1 Unit test



```
59     @Test
60     public void findAllAccount() throws Exception {
61         jdbcTemplate.update( sql: "delete from account");
62         jdbcTemplate.update( sql: "insert into account (account_id,user_name, password, email ,role) " +
63             "values (1, 'Jacky', '$2a$10$Tb3mK1p2pCuPvDUG5OJr.Rupo9isjom9vmmzAppMjtvWfLn/vQcK', 'Jacky@gmail.com','GUIDER')");
64         jdbcTemplate.update( sql: "insert into guider (guider_id,first_name,last_name,date_of_birth,phone,about_me,contribution,city,language" +
65             "values (1, 'John', 'Doe',now(),'123456','abc',150,'hanoi','{en,vi}',true,5,'a','a')");
66         jdbcTemplate.update( sql: "insert into account (account_id,user_name, password, email ,role) " +
67             "values (2, 'Jacky', '$2a$10$Tb3mK1p2pCuPvDUG5OJr.Rupo9isjom9vmmzAppMjtvWfLn/vQcK', 'Jacky@gmail.com','TRAVELER')");
68         jdbcTemplate.update( sql: "insert into account (account_id,user_name, password, email ,role) " +
69             "values (3, 'Jacky', '$2a$10$Tb3mK1p2pCuPvDUG5OJr.Rupo9isjom9vmmzAppMjtvWfLn/vQcK', 'Jacky@gmail.com','TRAVELER')");
70         Assert.assertEquals( expected: 3, accountService.findAllAccount().size());
71     }
72
73     @Test
74     public void findAccountNameByAccountId() throws Exception {
75         jdbcTemplate.update( sql: "delete from account");
76         jdbcTemplate.update( sql: "insert into account (account_id,user_name, password, email ,role) " +
77             "values (1, 'Jacky', '$2a$10$Tb3mK1p2pCuPvDUG5OJr.Rupo9isjom9vmmzAppMjtvWfLn/vQcK', 'Jacky@gmail.com','TRAVELER')");
78         Assert.assertEquals( expected: "Jacky", accountService.findAccountNameByAccountId( account_id: 1));
79     }
80
81     @Test
82     public void changePassword() throws Exception {
83         accountService.changePassword( name: "Jacky", pass: "abc");
84         Assert.assertEquals( expected: "abc", accountService.findAccountByName("Jacky").getPassword());
85     }
86
87     @Test
88     public void isMailVerified() throws Exception {
89         Assert.assertEquals( expected: false, accountService.isMailVerified(accountService.findAccountByName("Jacky").getId()));
90     }
91 }
```

5.4.2 Integration test and System test

The detail of test cases is following the template of FPT-Software. It is written in "[TWL_test_case.xlsx](#)".

Test case example:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	
1	Module Code	Edt profile												
2	Test Requirement	Pass												
3														
4														
5														
6	No	Test Type	Test case description	Steps	Pre-condition	TestData	Expected Results	Actual Results	Result	Priority	Note	Img	Date	Tester
7	1	UI test	Check display "First Name" field input empty	1. Input nothing into the first name textbox 2. Click "Save your profile"			Error message "First name is empty. Input your first name" is showed	Error message "First name is empty. Input your first name" is showed	Pass	Medium			10/8/2019	DangNG
8	2	UI test	Check display "Last Name" field with empty	1. Input nothing the first name textbox 2. Click "Save your profile"			Error message "Last name is empty. Input your last name" is showed	Error message "Last name is empty. Input your last name" is showed	Pass	Medium			10/8/2019	DangNG
9	3	UI test	Check display "Phone" field with empty	1. Input nothing the phone textbox 2. Click "Save your profile"			Error message "Phone must be digits and have 10-11 digits" is showed	Error message "Phone must be digits and have 10-11 digits" is showed	Pass	Medium			10/8/2019	DangNG
10	4	UI test	Check display "Phone" field with < 10 digits	1. Input 9 digits in the phone textbox 2. Click "Save your profile"			Error message "Phone must be digits and have 10-11 digits" is showed	Error message "Phone must be digits and have 10-11 digits" is showed	Pass	Medium			10/8/2019	DangNG
11	5	UI test	Check display "Phone" field with > 11 digits	1. Input 12 digits in the phone textbox 2. Click "Save your profile"			Error message "Phone must be digits and have 10-11 digits" is showed	Error message "Phone must be digits and have 10-11 digits" is showed	Pass	Medium			10/8/2019	DangNG
12	6	UI test	Check display "Description" field with empty	1. Input nothing into the description textbox 2. Click "Save your profile"			Error message "Introduce yourself a bit" is showed	Error message "Introduce yourself a bit" is showed	Pass	Medium			10/8/2019	DangNG
13	7	UI test	Check display "Your slogan" field with empty	1. Input nothing into the your slogan textbox 2. Click "Save your profile"			Error message "A good slogan will make you cool" is showed	Error message "A good slogan will make you cool" is showed	Pass	Medium			10/8/2019	DangNG
14	8	Function test	Update profile traveler	1. Input all information in the profile of traveler 2. Click "Save your profile"			1. A message "Update success!" is showed in the middle of screen 2. The page is reloaded and all traveler information is showed in the fields according to the update information	1. A message "Update success!" is showed in the middle of screen 2. The page is reloaded and all traveler information is showed in the fields according to the update information	Pass	Medium			10/8/2019	DangNG

Figure 0-2. Test case example

5.4.3 Check list

To perform User Acceptance Test (UAT), here is a checklist for testing our website to ensure users are presented with the desired first impression.

ID	Check list description	Functionality	
		YES	NO
1	Does the website support registration for Traveler?	✓	
2	Does the website support registration for Guider?	✓	
3	Can the user can use the function "Forgot password" in website?	✓	
4	Can the user log in to website?	✓	
5	Can the user receive notification from website?	✓	
6	Is "Search for guiders by name" function has been implemented in the system?	✓	
7	Is "Search for guiders by locations" function has been implemented in the system?	✓	
8	Can the user view list of post of one guider in website?	✓	
9	Can the user view list of post of one category in website?	✓	
10	Can the user view detail of one post?	✓	
11	Can the user change password when they log in website?	✓	
12	Can the user log out of website?	✓	
13	Can the guider edit post content of posts?	✓	
14	Can a guider update his/her account information?	✓	
15	Can the guider view list of booked trip in website?	✓	
16	Does the website support guider chat with traveler?	✓	

17	Does the website support Booking Page for guider?	✓	
18	Can the guider view review of traveler after trip?	✓	
19	Can the guider accept request booking trip from traveler?	✓	
20	Can the guider cancel request booking trip from traveler?	✓	
21	Can the guider view trip schedule?	✓	
22	Can the guider review travelers after finish trip?	✓	
23	Does the website support user view revenue?	✓	
24	Can a traveler update his/her account information?	✓	
25	Can the traveler chat with guider in the website?	✓	
26	Does the website support traveler booking a trip?	✓	
27	Does the website support traveler make payment for his/her trip?	✓	
28	Can the traveler view list of booked trip in the website?	✓	
29	Can the traveler cancel a trip before the trip start?	✓	
30	Does the website support traveler review and rate guider after finish trip?	✓	
31	Can the traveler save a favorite post in the website?	✓	
32	(Only admin) Does the website support admin accept guider contract?	✓	
33	(Only admin) Does the website support admin cancel guider contract?	✓	
34	(Only admin) Can admin login the admin in the Administrator website?	✓	
35	(Only admin) Can admin view/ hide reviews?	✓	
36	(Only admin) Can admin view list of account in the Administrator website?	✓	
37	(Only admin) Can admin active account of user in the Administrator website?	✓	
38	(Only admin) Can admin de active account of user in the Administrator website?	✓	
39	(Only admin) Can admin create new location in the Administrator website?	✓	
40	(Only admin) Can admin create new category in the Administrator website?	✓	
41	(Only admin) Can admin search post by account name in the Administrator website?	✓	
42	(Only admin) Can admin active post in the Administrator website?	✓	
43	(Only admin) Can admin de active post in the Administrator	✓	

	website?		
44	(Only admin) Can admin view the statistic of completed trip?	✓	
45	(Only admin) Can admin view the statistic of revenue?	✓	
46	All external links from all page redirect to the right direction.	✓	
47	All internal links from all pages redirect to the right direction, including the one that redirect to the same page.	✓	
48	All links from all pages styled and named correctly.	✓	
49	All password fields must display in asterisk sign.	✓	
50	A confirmation should be displayed for all update operations.	✓	
51	Functionality of buttons is available on all pages.	✓	
52	An error message should be displayed for all validation errors.	✓	
53	Any fail functions will redirect to a custom error page.	✓	

Compatibility

54	The website displays properly in many different browsers.	✓	
55	The image displays correctly in many different browsers.	✓	
56	The fonts are usable in many different browsers.	✓	
57	The website displays properly in different screen sizes.	✓	

GUI

58	Text on all pages are displayed without spelling and grammatical error.	✓	
59	Navigation space is the same on all pages.	✓	
60	The content is meaningful and is relevant to the page.	✓	
61	All contents of the website are accessible through the main navigation menu.	✓	

5.5 Defect Log

5.5.1 Defect life cycle

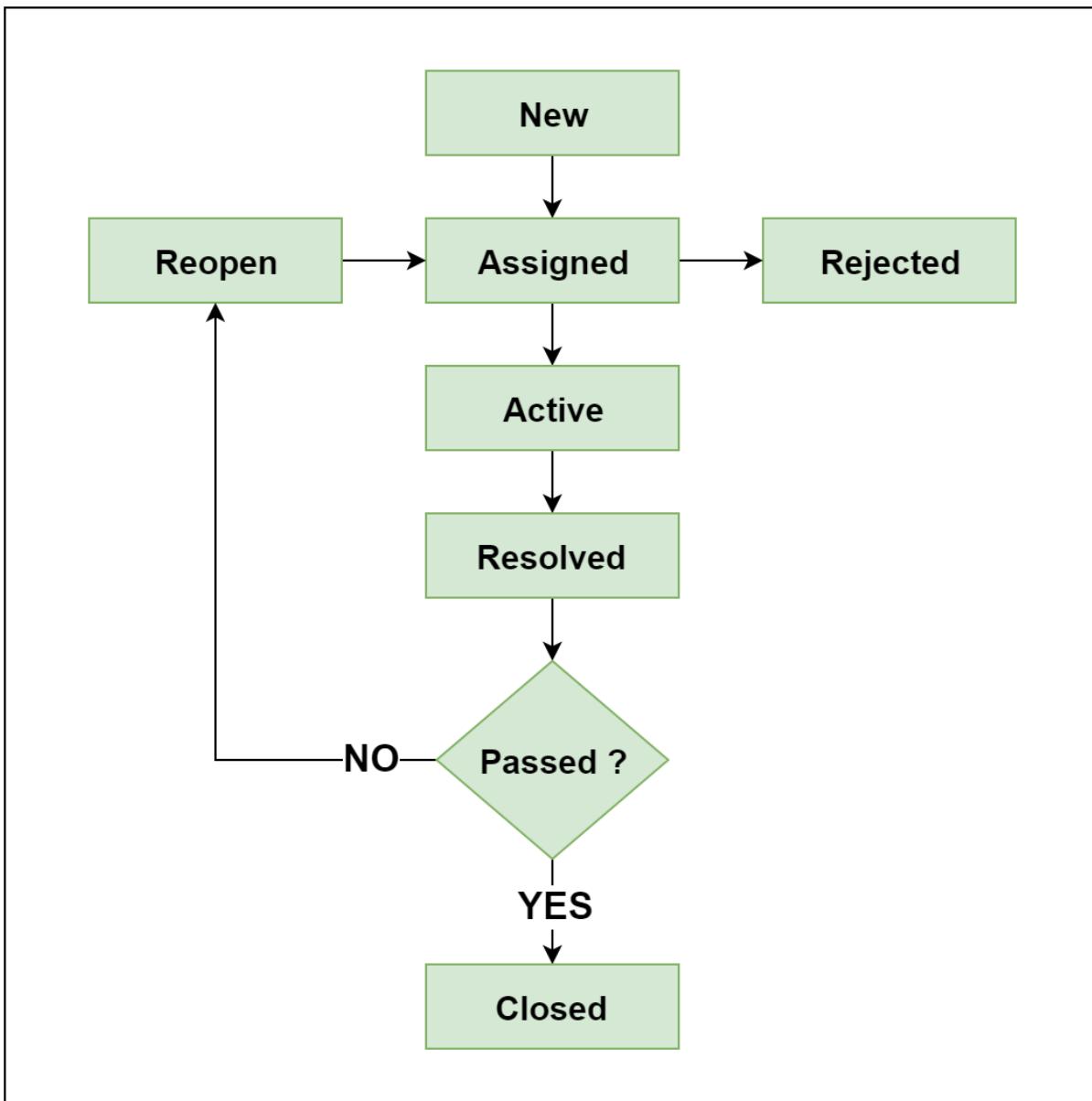


Figure 0-3. Defect life cycle

Process detail description:

1. Tester will log bugs for each module and assign to developer.
2. If this is not a bug or is duplicated, then change status to Rejected, otherwise change status to Active
3. Developer fix bugs and change status to Resolved.
4. Tester retest the bug, if the bug is fixed, then change status to Closed, otherwise Reopen that bug and assign to developer.

5.5.2 Defect example

We use Excel to manage defects, exported in “Defect_log.xlsx”

Defect ID	Module	Description	Type	Severity	Priority	Status	Assigned To	Created Date
1	User Registration	Api was blocked by security	Coding Logic	Fatal	High	Close	DuongNT	2019/10/5
2	User Registration	Lacking required email field to insert database	Coding Logic	Fatal	High	Close	DuongNT	2019/10/5
3	User Registration	Can insert duplicate user name	Coding Logic	Serious	High	Close	DuongNT	2019/10/5
4	Manage User Profile	Insert value in wrong field in database when update profile traveler	Coding Logic	Medium	Medium	Close	HaiH	2019/10/5
5	Manage User Profile	Insert array into string field in sql when update traveler profile	Coding Logic	Serious	High	Close	HaiH	2019/10/5
6	Manage User Profile	Default account avatar value is not default image	Coding Logic	Cosmetic	Low	Close	HaiH	2019/10/6
7	Manage User Profile	Missing field on loading user data to interface	Coding Logic	Serious	High	Close	HaiH	2019/10/6
8	Manage User Profile	User upload avatar image was not saved	Coding Logic	Medium	Medium	Close	DungND	2019/10/6
9	Manage User Profile	Create guider contract lack link to the guider who submit	Business Logic	Serious	High	Close	HaiH	2019/10/6
10	Manage User Profile	Create contract parses wrong date format	Coding Logic	Serious	High	Close	HaiH	2019/10/6
11	Manage User Profile	Create contract lack upload certificate file	Coding Logic	Serious	High	Close	HaiH	2019/10/6
12	Manage User Profile	Update profile guider did not save avatar image	Coding Logic	Medium	Medium	Close	HaiH	2019/10/6
13	Admin	Api was blocked by security	Coding Logic	Fatal	High	Close	DuongNT	2019/10/7
14	Admin	Cannot download guider sent document	Coding Logic	Medium	Medium	Close	HaiH	2019/10/7
15	Admin	Guider was not activate after accept contract	Coding Logic	Serious	High	Close	HaiH	2019/10/7
16	Admin	Old contract was not deactivate after accept new contract	Coding Logic	Medium	Medium	Close	HaiH	2019/10/7
17	Admin	Contract still show up on list after accept	Coding Logic	Serious	High	Close	HaiH	2019/10/7
18	Admin	Guider lack showing status active/deactive	Feature Missing	Cosmetic	Low	Close	HaiH	2019/10/7
19	Admin	Guider post do not show deactivate post	Coding Logic	Medium	Medium	Close	HaiH	2019/10/7
20	Admin	Guider can still update unauthorized post	Coding Logic	Medium	Medium	Close	HaiH	2019/10/7
21	Admin	Get statistic method got out of bound exception	Coding Logic	Serious	High	Close	HaiH	2019/10/7
22	Payment	No receipt description sent to paypal server	Coding Logic	Cosmetic	Low	Close	HaiH	2019/10/14
23	Payment	Cant redirect back to system after finish payment	Coding Logic	Serious	High	Close	HaiH	2019/10/14

Figure 0-4. Defect log example

5.6 Test Report

5.6.1 Unit test report

Overall Coverage Summary			
Package	Class, %	Method, %	Line, %
all classes	100% (78/ 78)	99.1% (341/ 344)	98.4% (2026/ 2059)
Coverage Breakdown			
Package	Class, %	Method, %	Line, %
services	100% (1/ 1)	85.7% (6/ 7)	73.5% (36/ 49)
services.Category	100% (2/ 2)	100% (5/ 5)	100% (18/ 18)
services.Location	100% (2/ 2)	100% (5/ 5)	100% (12/ 12)
services.Mail	100% (1/ 1)	100% (5/ 5)	100% (83/ 83)
services.Paypal	100% (4/ 4)	100% (14/ 14)	100% (76/ 76)
services.Post	100% (8/ 8)	100% (32/ 32)	100% (192/ 192)
services.Review	100% (8/ 8)	100% (26/ 26)	100% (80/ 80)
services.Statistic	100% (3/ 3)	100% (7/ 7)	100% (15/ 15)
services.account	100% (4/ 4)	100% (18/ 18)	100% (72/ 72)
services.chatMessage	100% (2/ 2)	81.8% (9/ 11)	91.6% (71/ 78)
services.contributionPoint	100% (4/ 4)	100% (13/ 13)	100% (83/ 83)
services.feedback	100% (2/ 2)	100% (5/ 5)	100% (13/ 13)
services.guider	100% (9/ 9)	100% (36/ 36)	98.9% (181/ 183)
services.notification	100% (1/ 1)	100% (4/ 4)	100% (19/ 19)
services.plan	100% (3/ 3)	100% (10/ 10)	100% (34/ 34)
services.traveler	100% (3/ 3)	100% (12/ 12)	98.4% (60/ 61)
services.trip	100% (7/ 7)	100% (37/ 37)	98.5% (261/ 265)
winter.findGuider.web.api	100% (14/ 14)	100% (97/ 97)	99.2% (720/ 726)

Figure 0-5. Unit test report

5.6.2 Integration & System test report

1	Test Report					Project Name	FPT Student Event Calendar	Creator	Dangng																								
2	Test coverage 100.00 %					Project Code	SEC	Reviewer/Approve																									
3	Test successful coverage 100.00 %					Document Code		Issue Date																									
4						Notes																											
5	<table border="1"> <thead> <tr> <th>No</th> <th>Module code</th> <th>Pass</th> <th>Fail</th> <th>Untested</th> <th>Number of test cases</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>16</td> <td>0</td> <td>0</td> <td>16</td> </tr> <tr> <td>2</td> <td>Sign up a guider account</td> <td>16</td> <td>0</td> <td>0</td> <td>16</td> </tr> <tr> <td></td> <td>Tổng</td> <td>32</td> <td>0</td> <td>0</td> <td>32</td> </tr> </tbody> </table>					No	Module code	Pass	Fail	Untested	Number of test cases	1		16	0	0	16	2	Sign up a guider account	16	0	0	16		Tổng	32	0	0	32				
No	Module code	Pass	Fail	Untested	Number of test cases																												
1		16	0	0	16																												
2	Sign up a guider account	16	0	0	16																												
	Tổng	32	0	0	32																												
6																																	
7																																	
8																																	

Figure 0-6. Integration & System test report

Chapter 6: Software User's Manual

6.1 Purpose

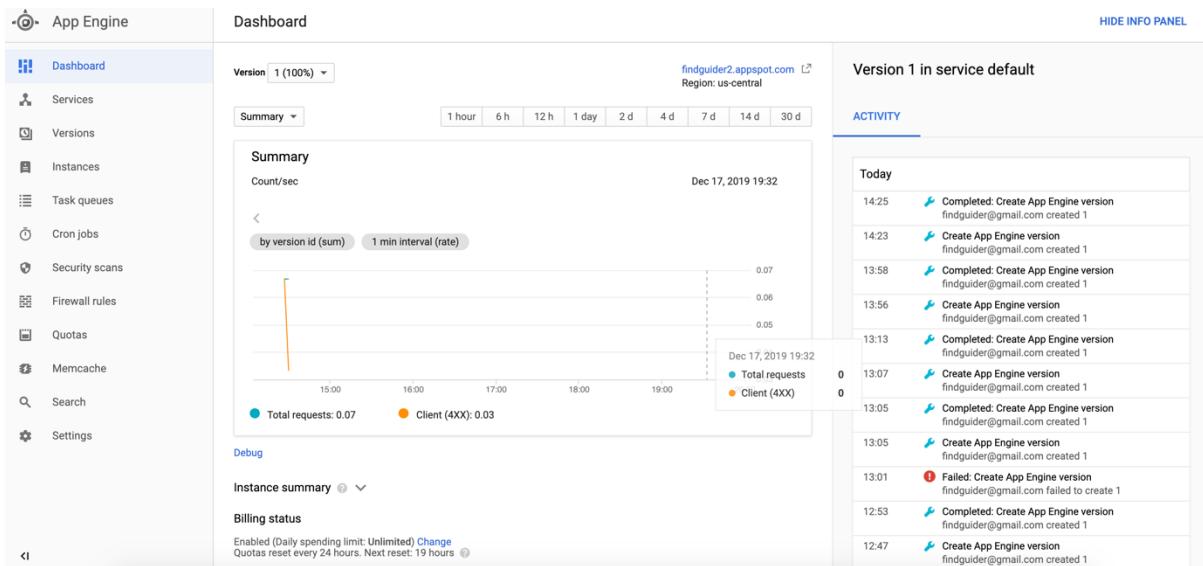
The purpose of this chapter is to:

- Guide user through website's feature.

6.2 Installation Guide

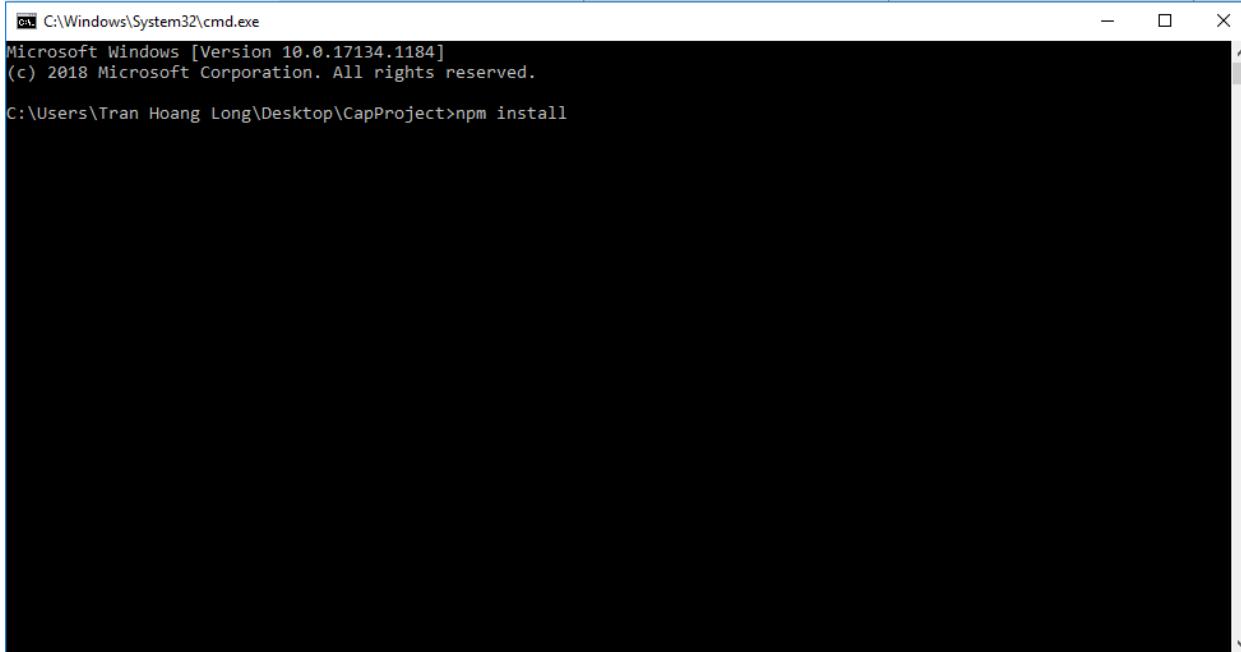
6.2.1 Deploy server

- Firstly, you need to create a Google Cloud Storage account.
- Secondly, you need a Google Cloud project with an App Engine application to deploy to. If you don't already have one, use the Google Cloud Console to set up your Google Cloud project.
- Install Google cloud SDK
- Open terminal, run: gcloud config set project PROJECT_NAME
- Open source code, run terminal: mvn appengine:deploy



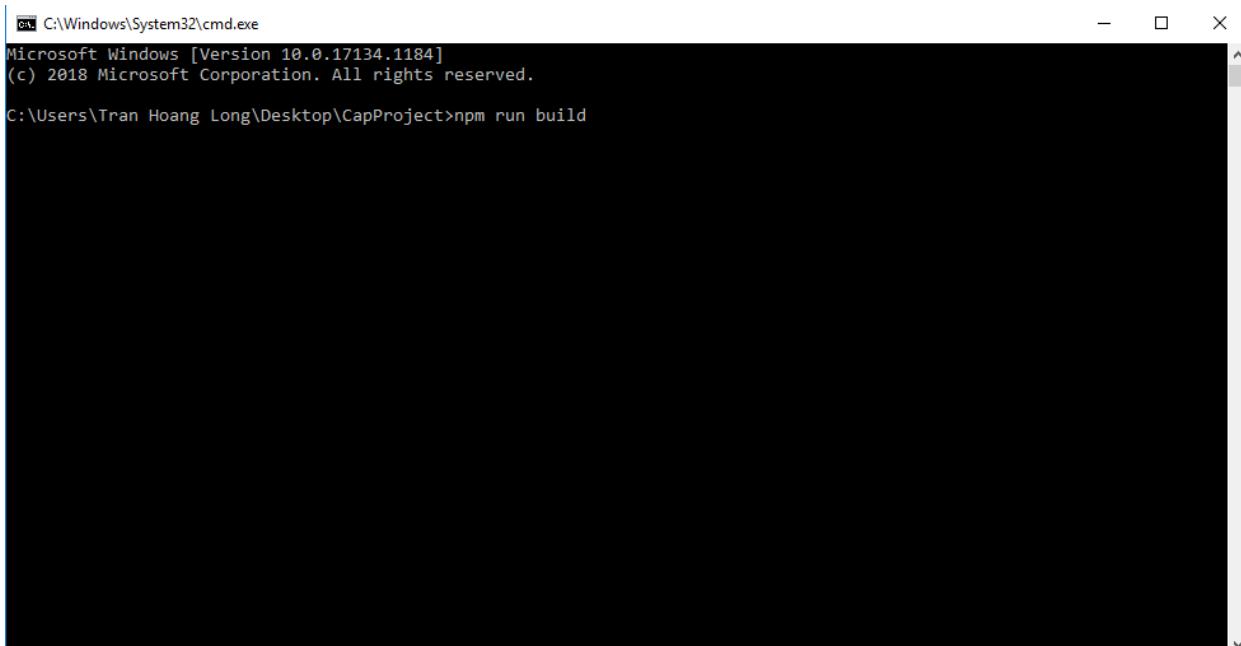
6.2.2 Deploy Frontend

- From source code, install the dependencies by typing the following in the command line:
 - `npm install`



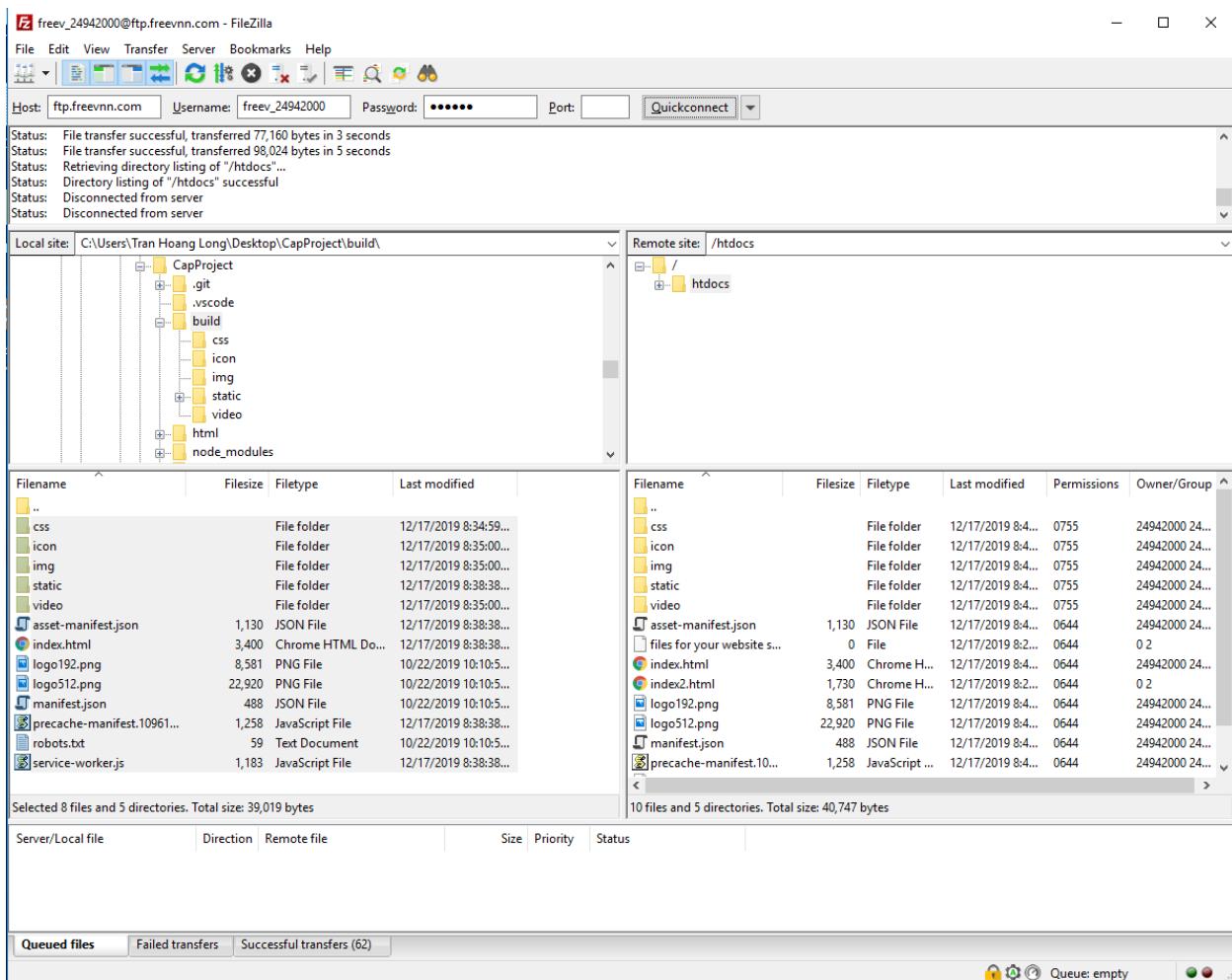
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17134.1184]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\Tran Hoang Long\Desktop\CapProject>npm install

- Then build the distributed by typing the following in the command line:
 - `npm run build`



C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.17134.1184]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\Tran Hoang Long\Desktop\CapProject>npm run build

- Open Filezilla input host, username, password, port if port have exist.
- Then open your project have file build in Filezilla and upload.

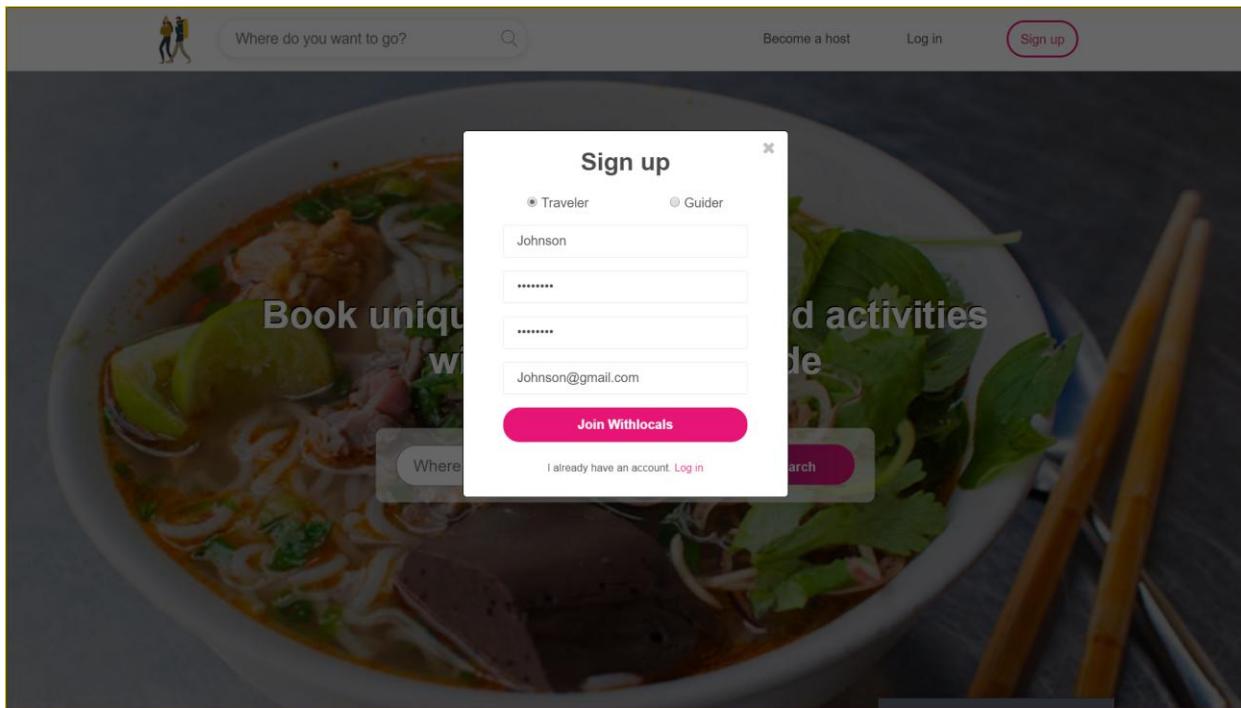


6.3 User Manual

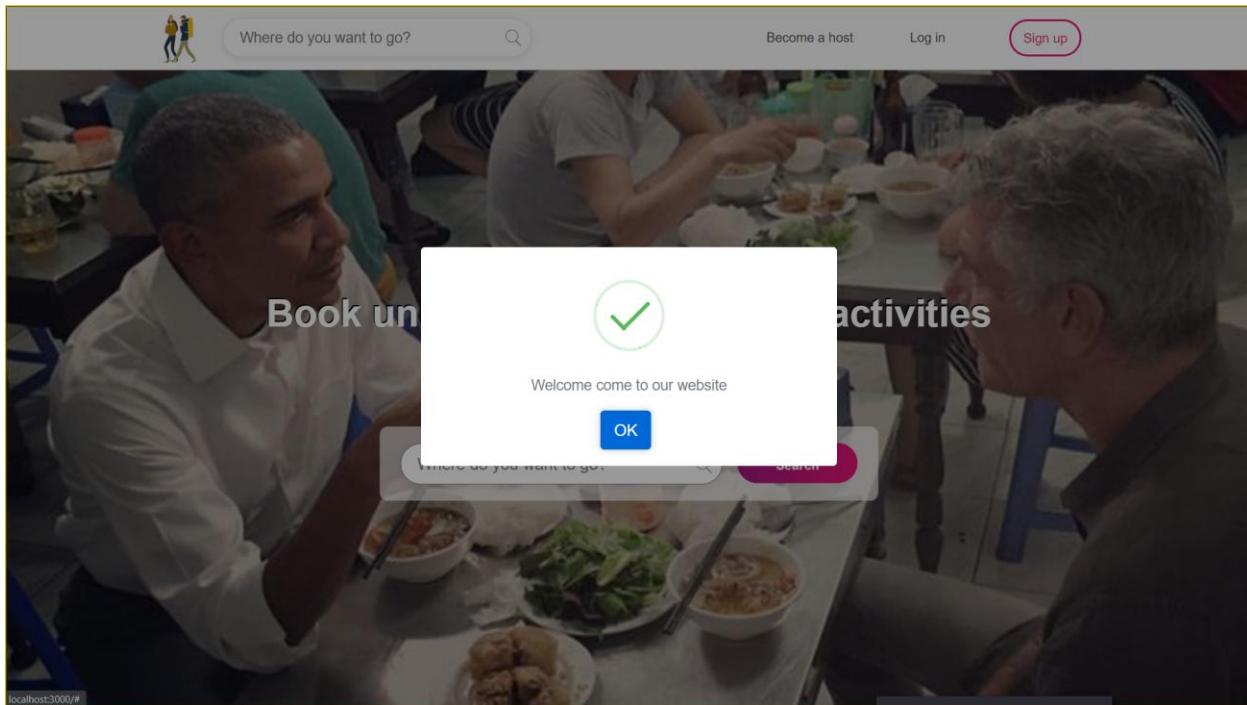
6.3.1 Guest Functional

6.3.1.1 Sign up a traveler account

Firstly, access the [register page](#), then select “Traveler”, fill username, password, re-password, email

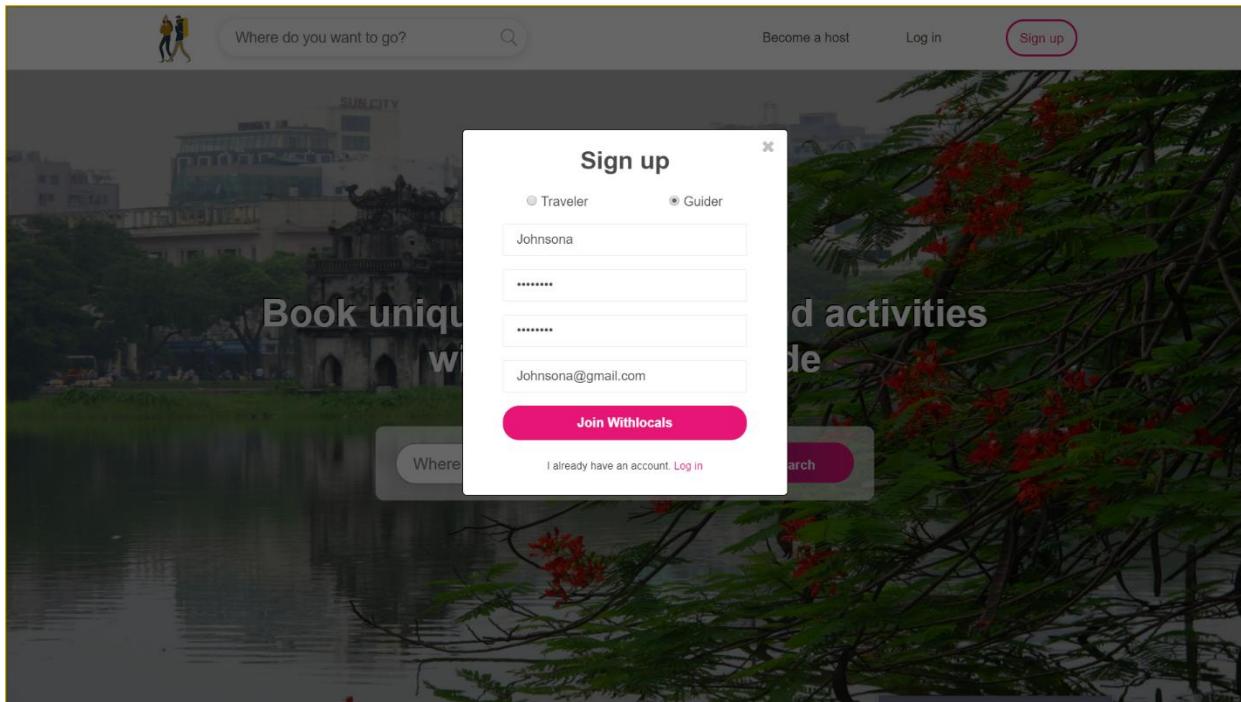


Then Click on button “Join Withlocals” and a new account Traveler have been created

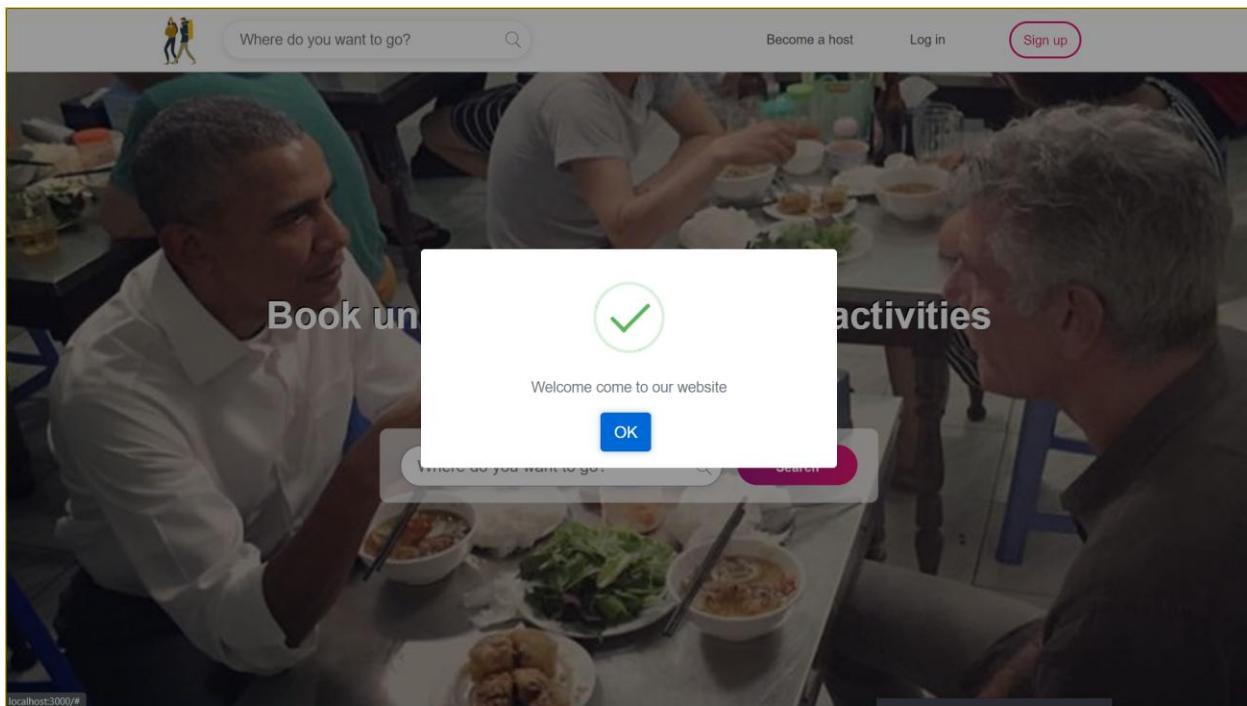


6.3.1.2 Sign up a guider account

Firstly, access the [register page](#), then select “Guider”, fill username, password, re-password, and email



Then Click on button “Join Withlocals” and a new account Guider have been created

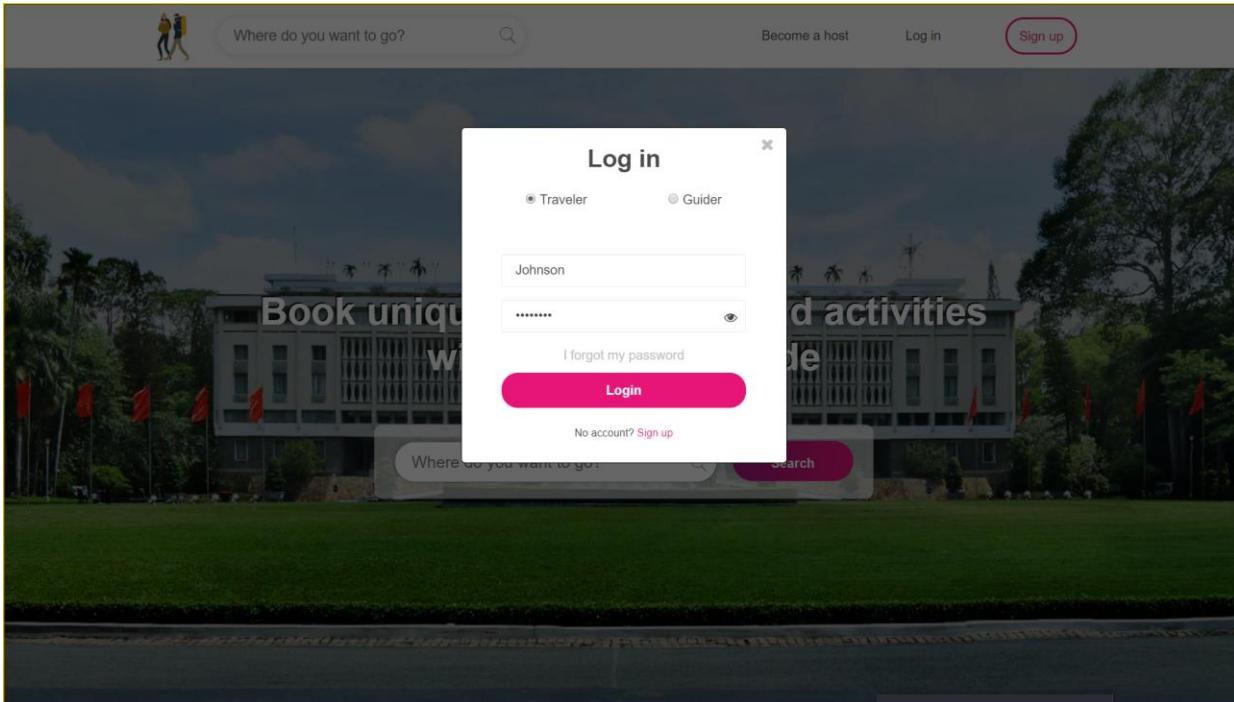


6.3.2 User (Guest, Guider, Traveler) Functional

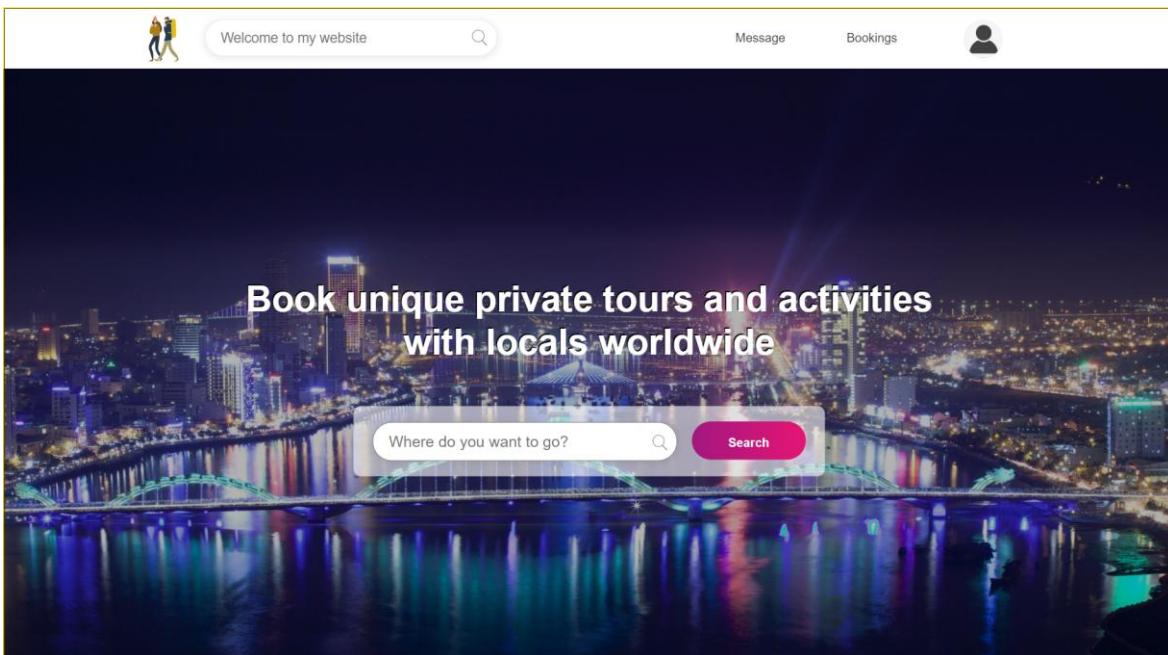
6.3.2.1 Login

Firstly, click on button Log in and the form Login display

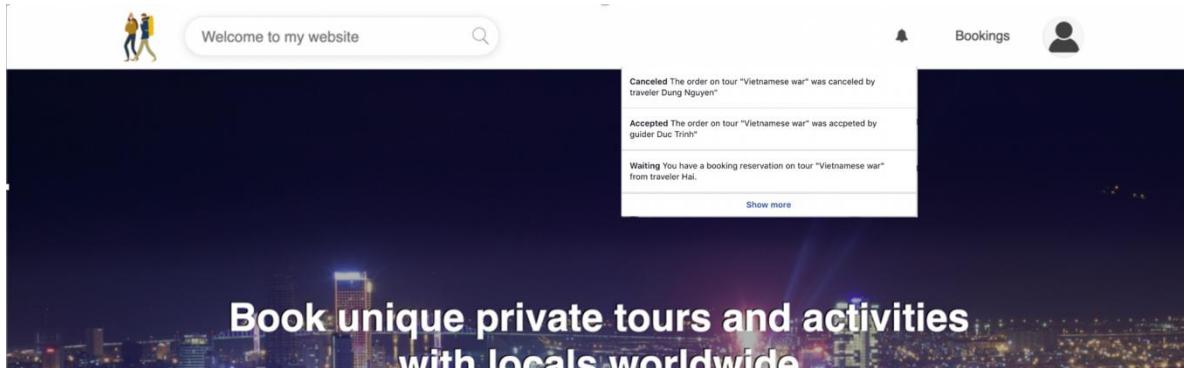
Then fill username, password and click on button “Login” to login on website



Successful website access

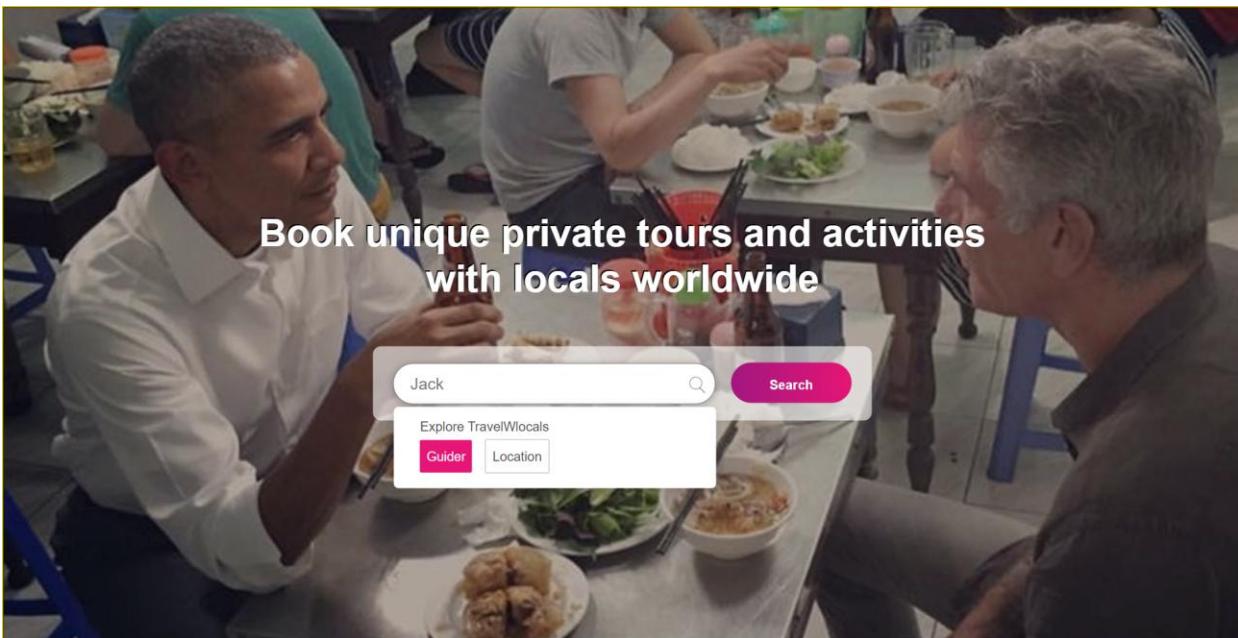


6.3.2.2 Receive Notification

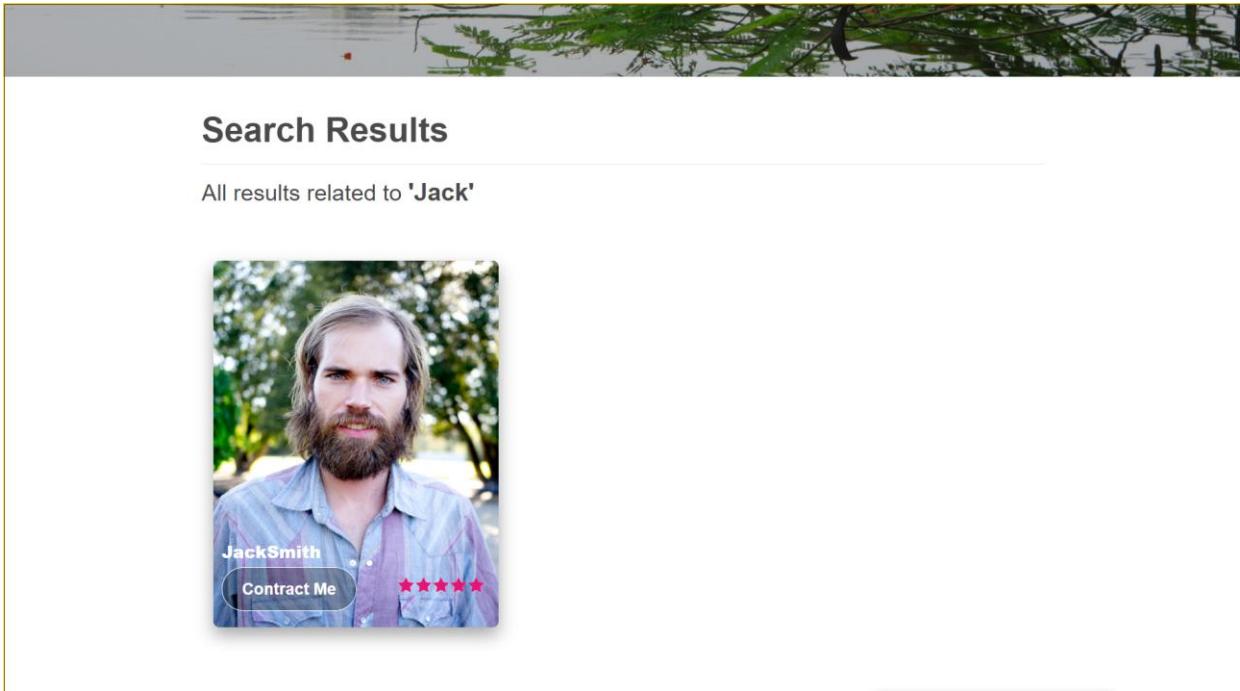


6.3.2.3 Search for guiders by name

Firstly, click on search box choose Guider and fill the keyword need to find on search box then click on button “Search”



Website find all guider have name like keyword and show results



Search Results

All results related to 'Jack'

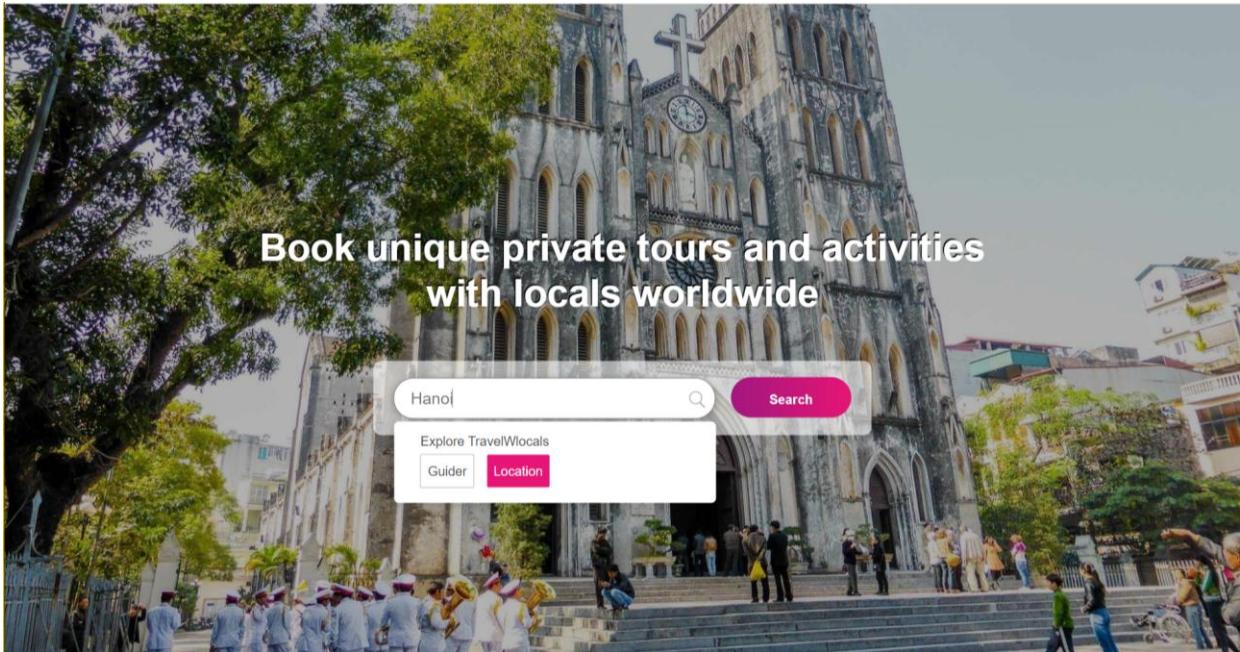
JackSmith

Contract Me

★★★★★

6.3.2.4 Search for post by locations

Firstly, click on search box choose Location and fill the keyword need to find on search box then click on button “Search”



Book unique private tours and activities with locals worldwide

Hanoi

Search

Explore TravelWlocals

Guider Location

Website find all post have name like keyword and show results

Search Results

All results related to 'Hanoi'



Long Bien Bridge, the historical witness

10\$ • 2 hours • Day trip

★★★★★



Good surfing with local

15\$ • 4 hours • Day trip

★★★★★



6.3.2.5 View list of post of one guider

Firstly, click on any guider

Jack Smith

★★★★★



I live in Hanoi

I speak VI,EN

My passions are: Enjoy other people company and having fun

Verified

[Go Home](#)

Hi There ! Nice to meet you



How to Write an About Me Page That's Better than Everyone Else...

Xem sau Chia sẻ

WRITE AN AWESOME About Page!

Im really like to meet other people, interact with people from all around the world

[Read more](#)

My passions

Enjoy other people company and having fun

Scroll down to see all Post of that Guider

Enjoy other people company and having fun

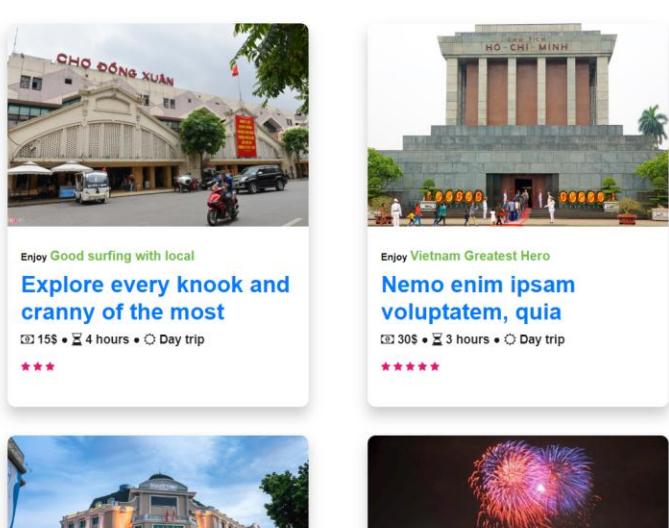
Book one of my offers in Ha Noi



6.3.2.6 View list of post of one category

Click on any guider then display all post of that category

All trips about Culture



6.3.2.7 View detail of one post

Click on any post then display all information of that post

Peter Erikson

★★★

I live in Hanoi

I speak VIEN

My passions are: An experience you will never forget

Verified

[Come and join me](#)

Vietnamese STREET FOOD TOUR in Hanoi - TOP 10 HANOI STREET FOODS

Xem sau Chia sẻ

10 BEST HANOI STREET FOOD

SK

Street foods hanoi

At vero eos et accusamus et iusto odio dignissimos ducimus, qui blanditiis praesentium voluptatum deleniti atque corrupti

Dong Xuan Market

Food tour

6 hours

Day trip

Private tour. Only you and your host

Including: Touring, Gift Picking

Reviews

6.3.2.8 Change password

Firstly, login on website. Then open menu and click on item “Change password”

Welcome to my website

Message

Bookings

Profile traveller

Traveler manage

Change password

Log out

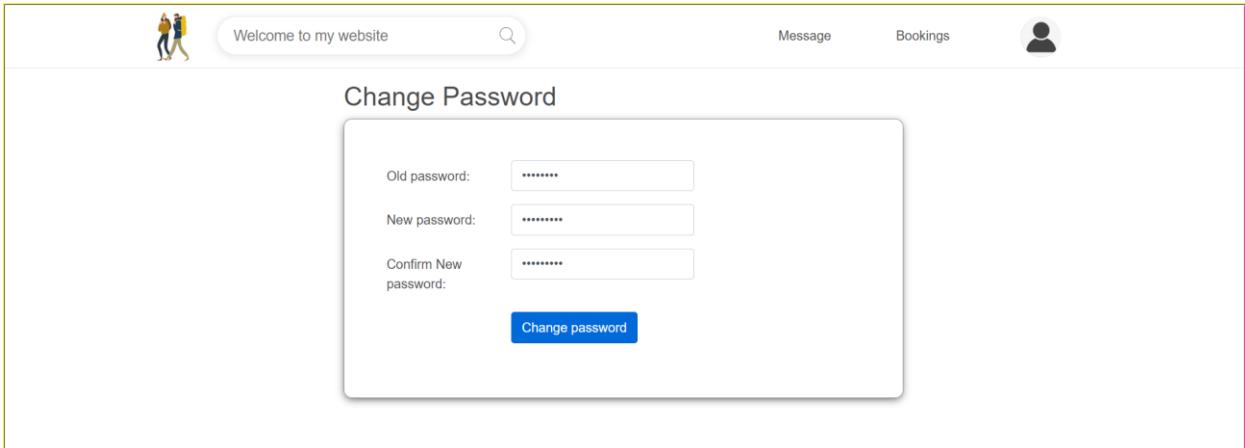
Where do you want to go?

Search

localhost:3000/changepassword

Book unique private tours and activities with locals worldwide

Fill old password, new password, confirm new password and click on button “Change password” then the new password has been updated on website



Welcome to my website Message Bookings 

Change Password

Old password:

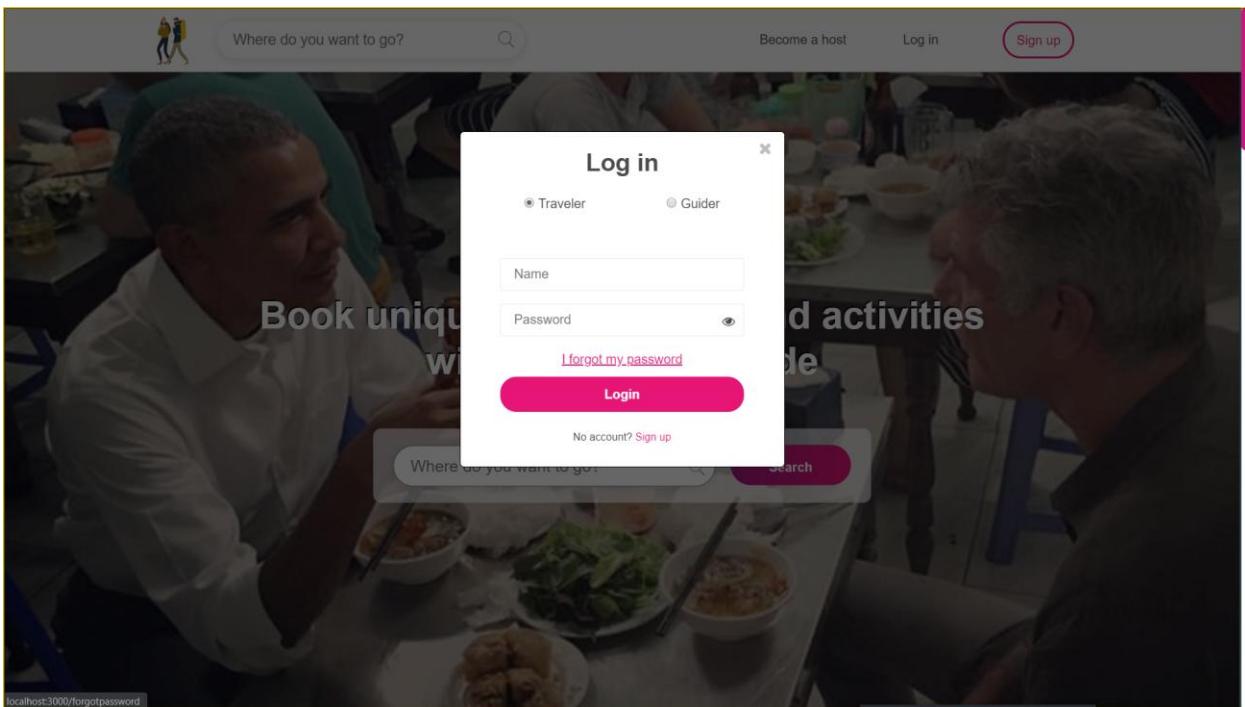
New password:

Confirm New password:

Change password

6.3.2.9 Forgot password

Firstly, access the website and click on button “Log in”. Then click on text “I forgot my password”



Where do you want to go?

Become a host Log in 

Log in

Traveler Guider

Name

Password 

[I forgot my password](#)

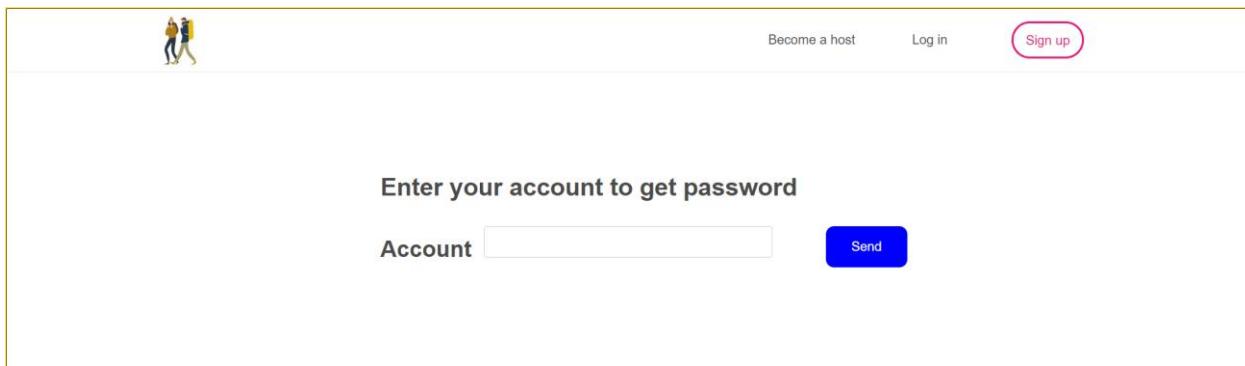
Login

No account? [Sign up](#)

Where do you want to go?

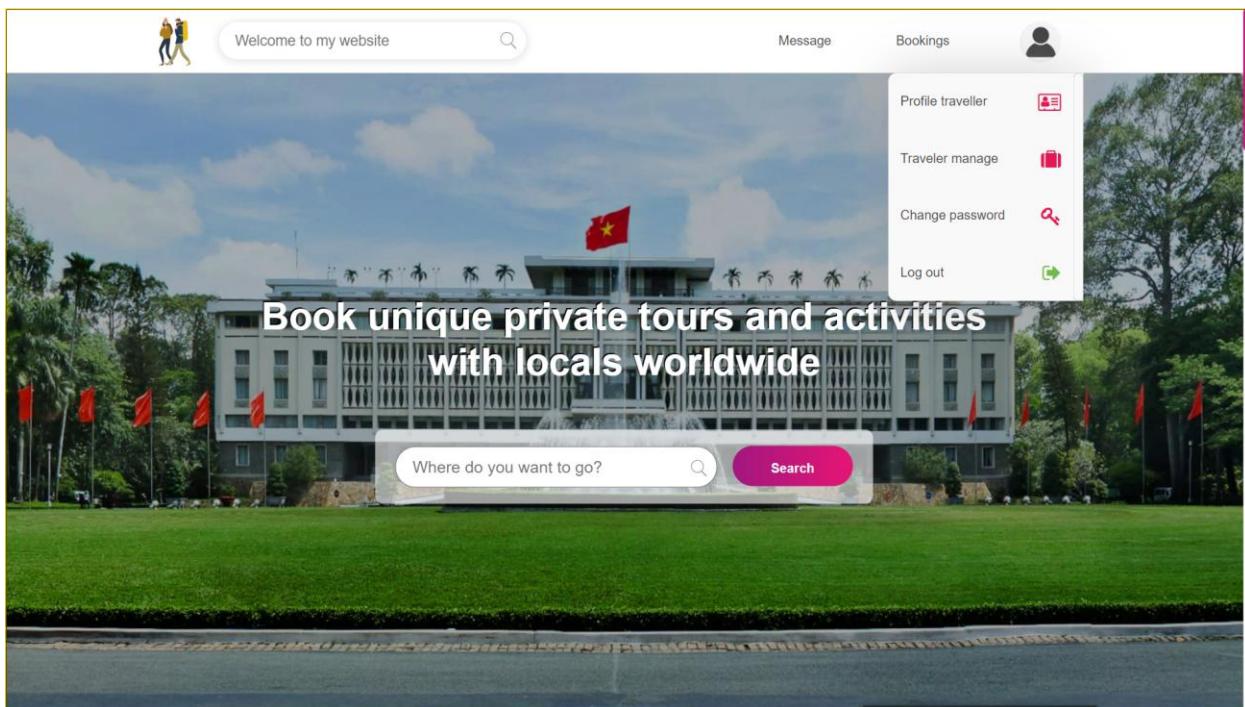
localhost:3000/forgotpassword

Fill your account on Text Box and click on button “Send”



6.3.2.10 Log out

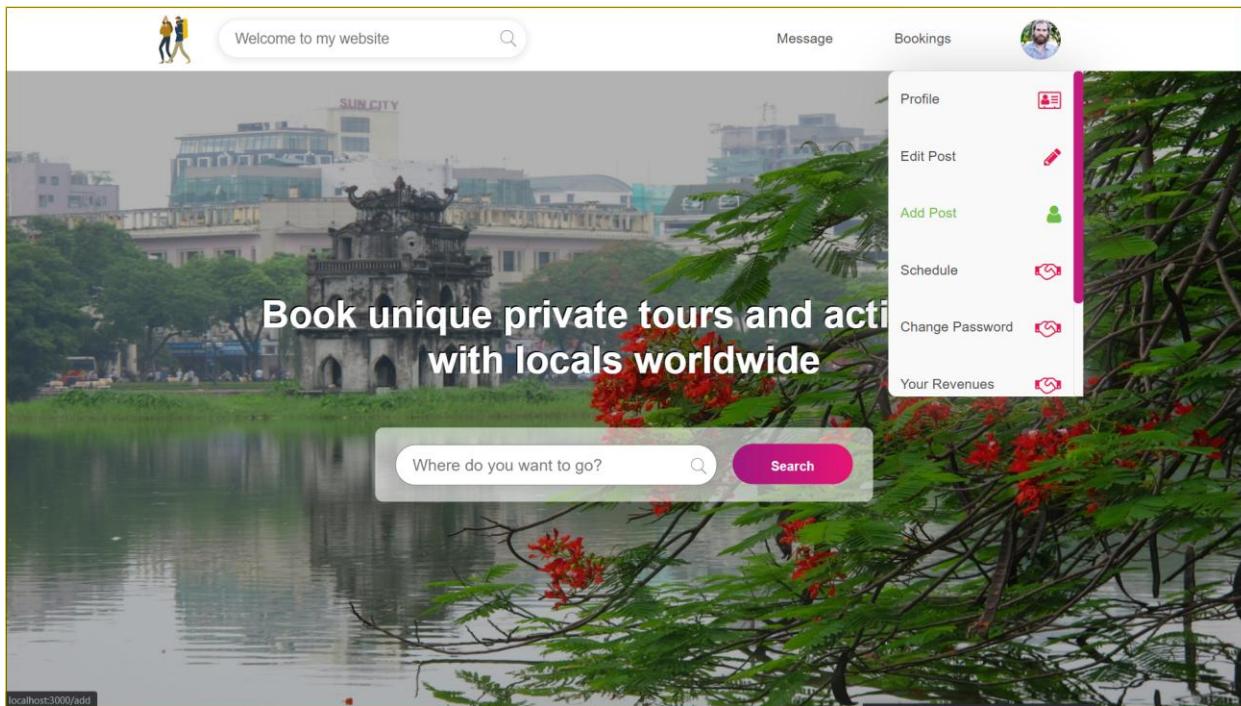
Firstly, login on website. Open menu and click on item “Log out” then your account will be log out of website



6.3.3 Guider Functional

6.3.3.1 Add post

Firstly, login on website with guider account. Open menu and click on item “Add post” then redirect to Create Post Page



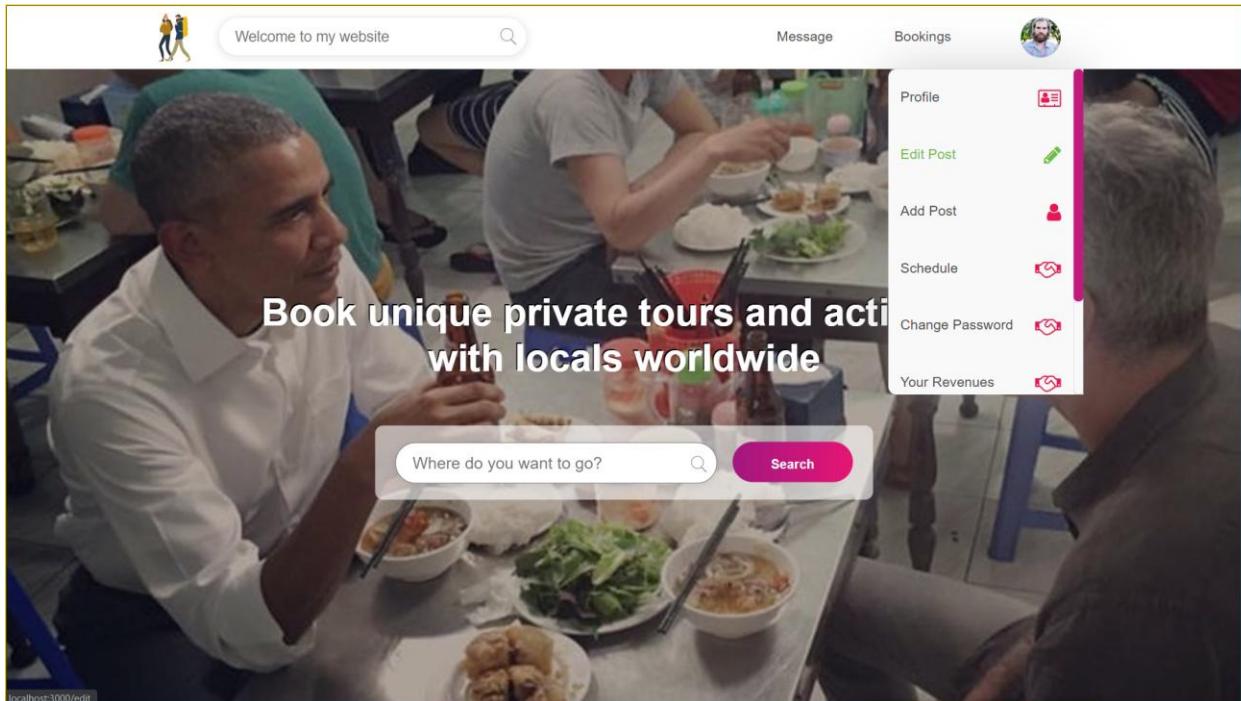
Fill all information need to create a new post and click on button “Submit” then your new post has been created on website

CREATE POST

Location	West Lake
Category	Bike
Price	100
Title	Welcome to Ha Noi
Video	https://www.youtube.com/watch?v=wofz0k6FCMU
Picture	<input type="button" value="Choose Files"/> No file chosen 
Estimate trip duration	12
Description	A trip around Ha Noi
Including service	<input type="button" value="+"/> Lunch
Meeting point	West Lake

6.3.3.2 Edit post content

Firstly, login on website with guider account. Open menu and click on item “Edit post” then redirect to Post Page



Select the post you need to edit then redirect to Edit Post Page

Book one of my offers in Ha Noi



Enjoy 2

[Long Bien Bridge, the historical witness](#)



Edit the information you need to change and click on button “Submit” then the post has been updated on website

EDIT POST

Location	West Lake
Category	Bike
Trip Fee: \$	100
Post title:	Welcome to Ha Noi
Introduce video link	https://www.youtube.com/watch?v=wofz0k6FCMU
Introduce Pictures:	<input type="button" value="Choose Files"/> No file chosen
Estimate trip duration:	1
Description your trip:	A trip around Ha Noi
Including service	<input type="button" value="+"/> <input type="text" value="Lunch"/> <input type="button" value="Delete"/>
Meeting point	West Lake
Activities in trip:	<input type="button" value="+"/> <input type="text"/> <input type="button" value="Delete"/>

Description your trip: A trip around Ha Noi

Including service: Lunch

Meeting point: West Lake

Activities in trip:

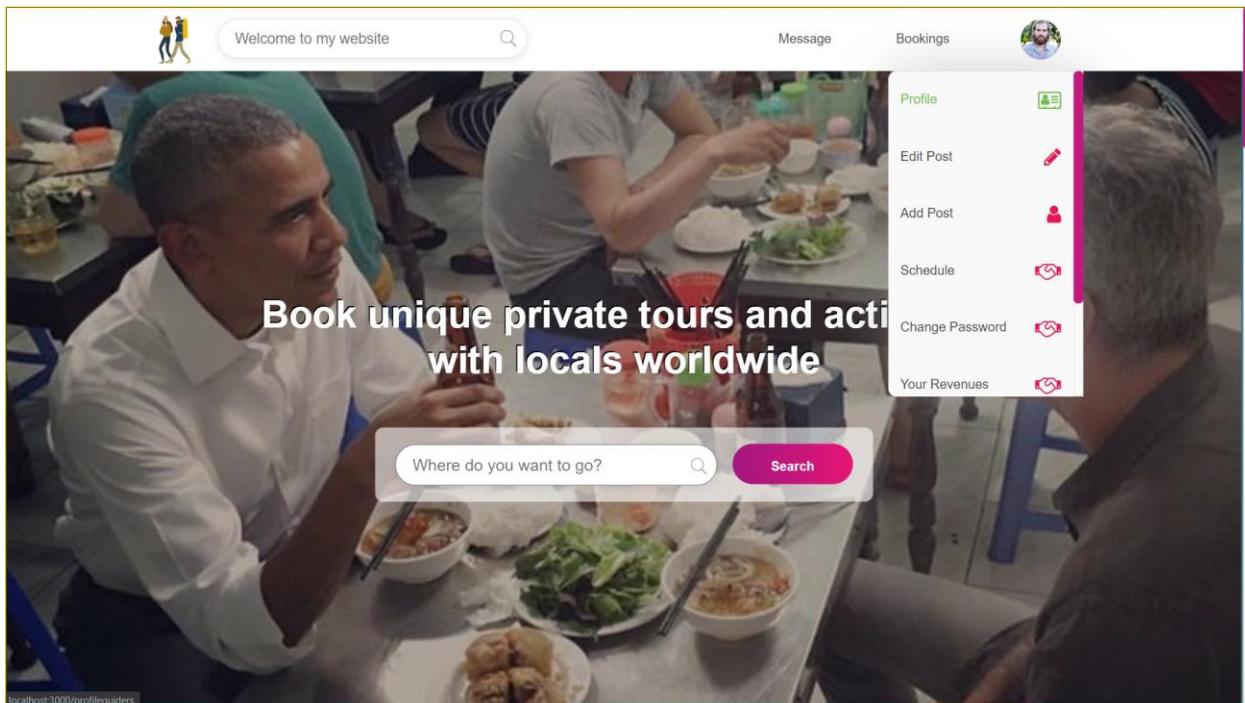
- Brief: Bicycle
- Detail: Go 1 trip around West Lake

Why to pick you: I have a lot of knowledge about Ha Noi

Reset Submit

6.3.3.3 Edit guider profile

Firstly, login on website with guider account. Open menu and click on item “Profile” then redirect to Profile Page



Edit your profile then click on button “Save your profile”

YOUR PROFILE

Jacky



Change profile picture

Introduce yourself

First Name: Jack

Last Name: Smith

Gender: Male

Date Of Birth: 14 June 1985

Phone: 012345678901

Where do you live?

City or town: Hanoi

Some thing about you

City or town: Hanoi

Some thing about you

Your language:

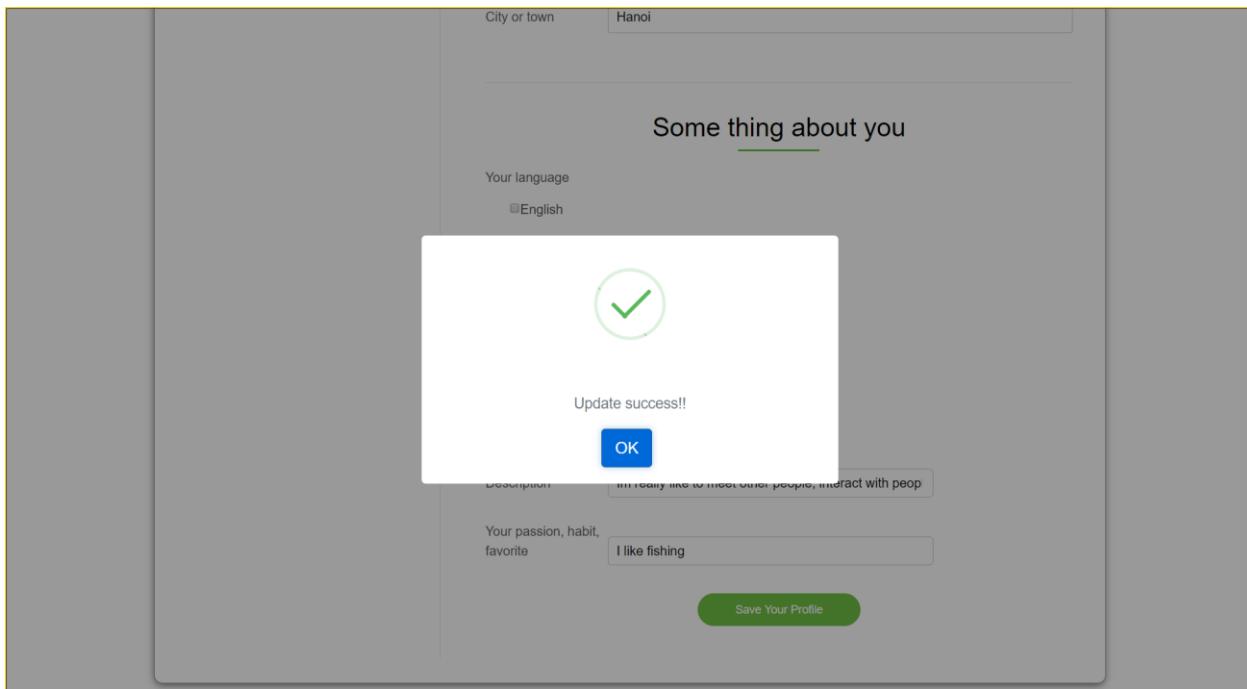
- English
- Vietnamese
- Japanese
- Chinese
- Korean
- French
- Russian
- Spanish

Description: I'm really like to meet other people, interact with people

Your passion, habit, favorite: I like fishing

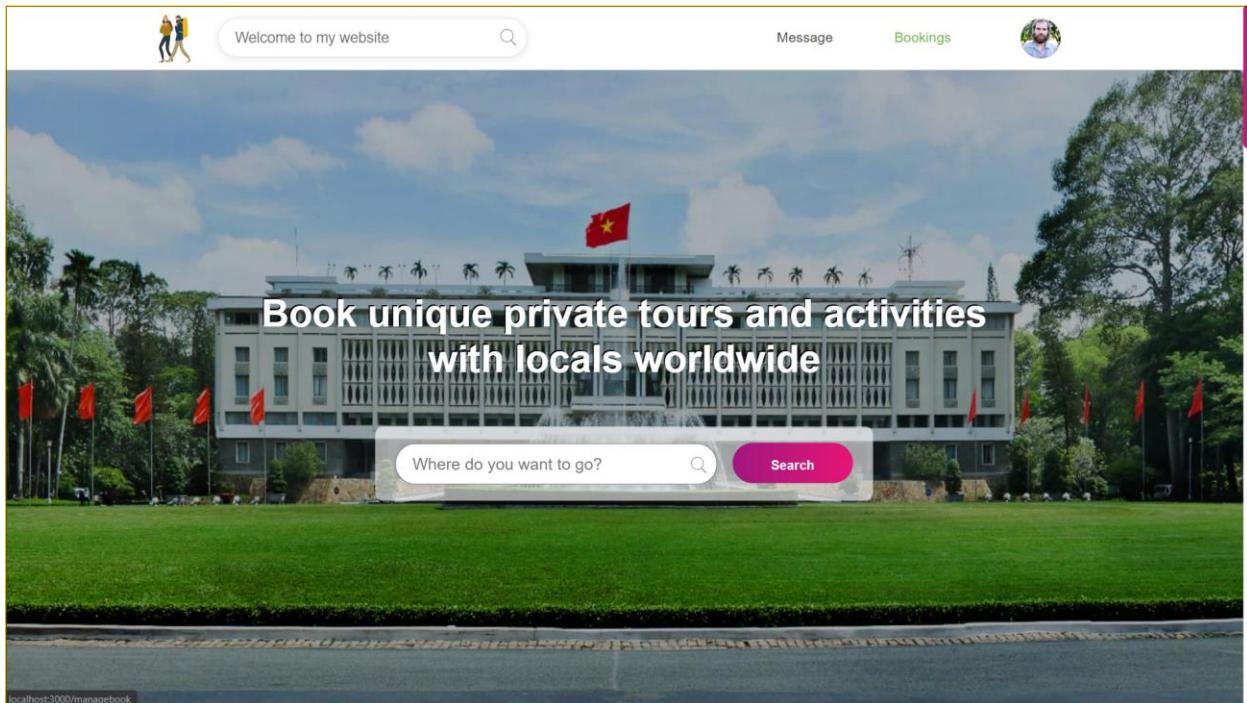
Save Your Profile

Your profile has been updated on website



6.3.3.4 View list of booked trip

Firstly, login on website with guider account. Then click on button “Booking”



Redirect to Manage Page and display all booked trip

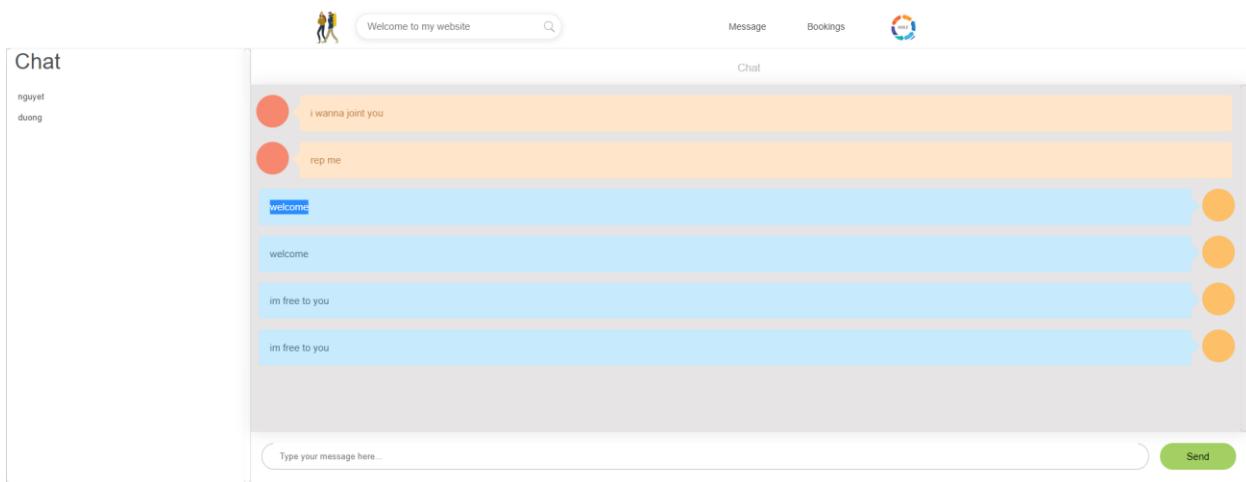
Traverler	Start time	End time	Post	Adult quantity	Child quantity	Price	Action
Jill Langley	12/14/2019 13:56	10/13/2019 00:00	A tour in the art museum	2	1	50	<button>Cancel</button>

6.3.3.5 Chat with traveler

Firstly, login on website with guider account. Then click on button “Message”

localhost:3000/managebook

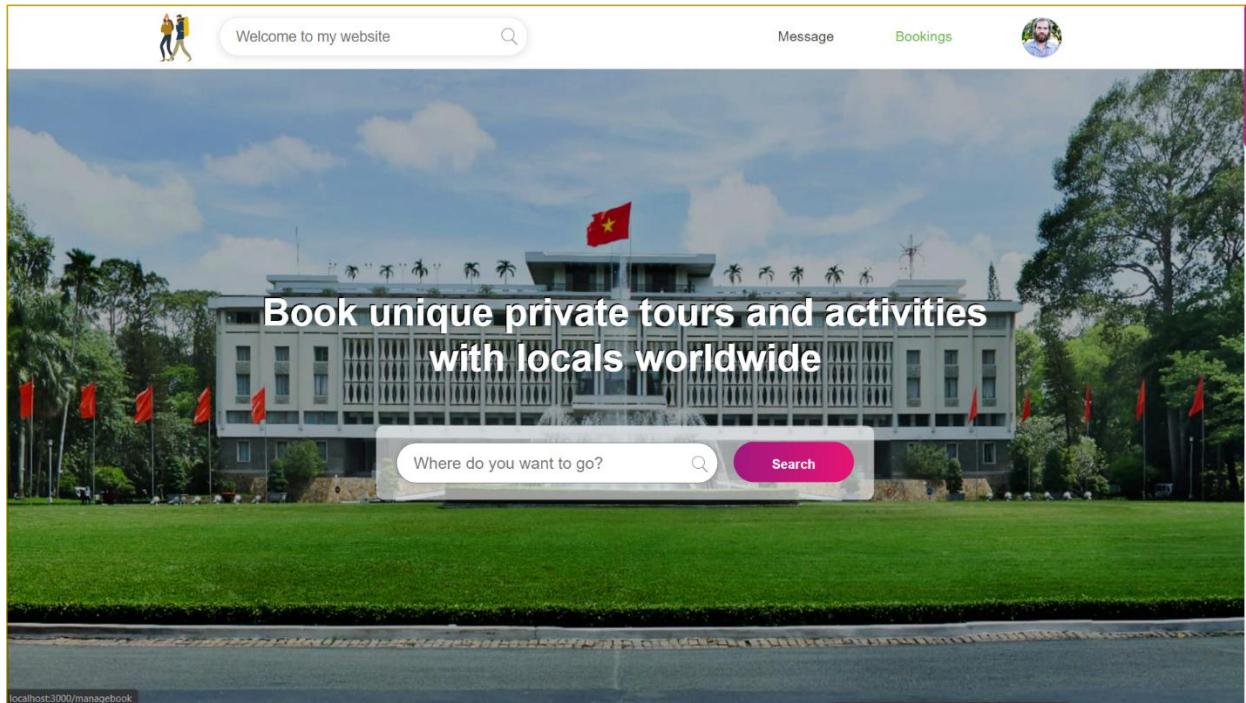
Redirect to Chat Page



Fill message to Chat box then click on button “Send” to send message for traveler

6.3.3.6 Manage traveler's trip booking

Firstly, login on website with guider account. Then click on button “Booking”



Display all of trip have been booked

Welcome to my website Message Bookings

WAITING **ONGOING** **FINISHED** **CANCELLED**

Traverler	Start time	End time	Post	Adult quantity	Child quantity	Price	Action
Jill Langley	12/14/2019 13:54	12/14/2019 13:54	A tour in the art museum	2	1	150	Accept Refuse
Jill Langley	12/14/2019 13:54	12/14/2019 13:54	A tour in the art museum	2	1	150	Accept Refuse

6.3.3.7 View reviews on requesting travelers

Jill Langley

♀ Gender Other
✉ I speak EN
📞 Phone number: 651651616561
📅 Date of birth: 1996-04-23
📍 Country: England

Reviews

Jacky 2018-10-25
She is a very funny person
Jacky The Guider!

Bob 2018-06-24
Very chill and relax
Bob The Guider!

Bob 2018-06-24
Greatest company to go around with
Bob The Guider!

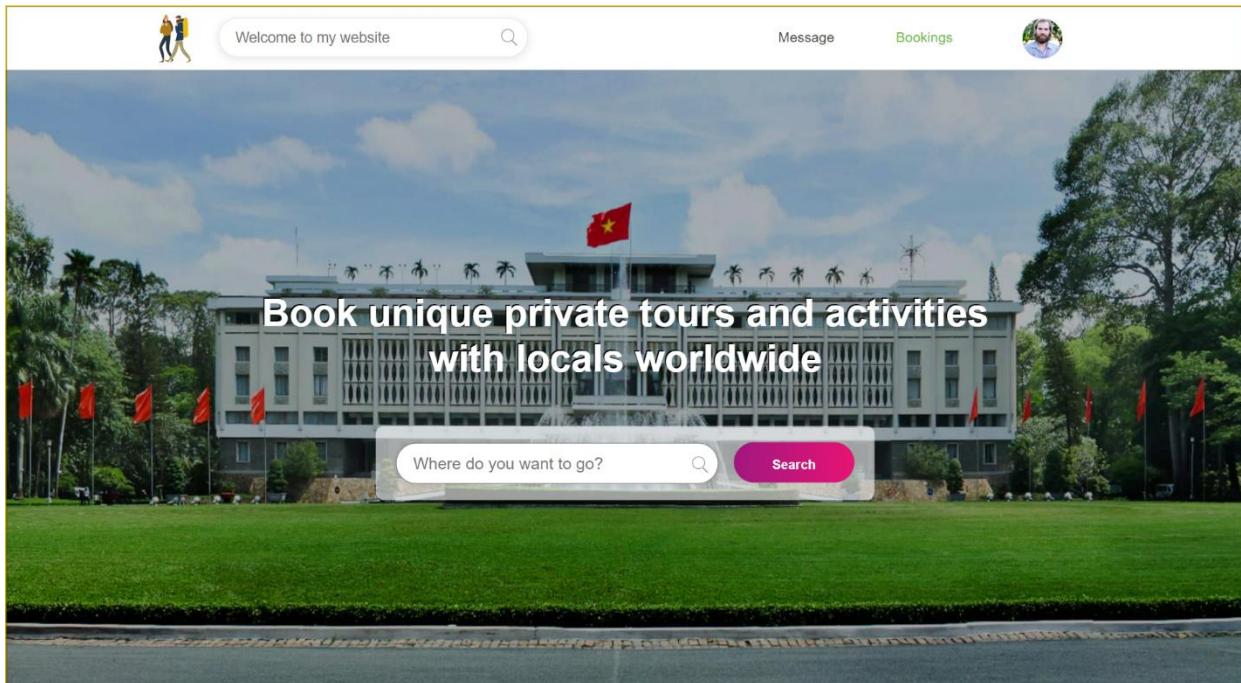
[Load more](#)

Comment ..

Comment

6.3.3.8 Accept/Cancel a trip

Firstly, login on website with guider account. Then click on item “Booking” and redirect to Manage Page



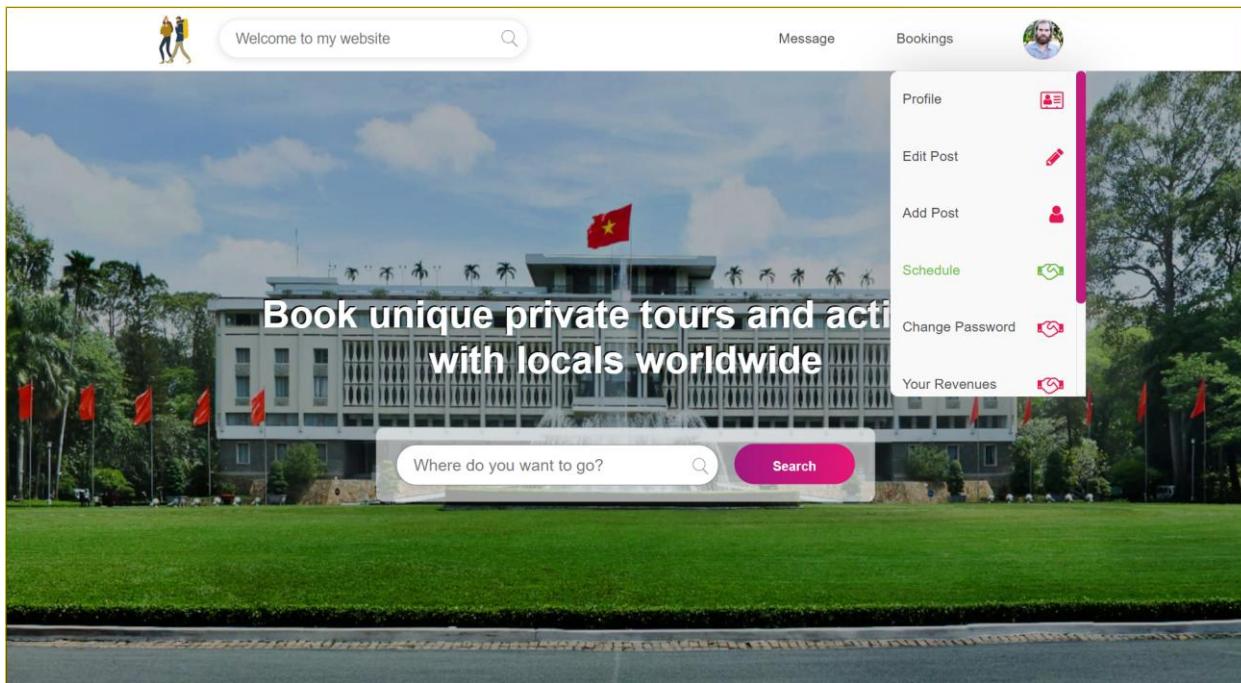
Click on button “Accept” to accept the trip or click on button “Refuse” to cancel the trip

The image shows a trip scheduling page. At the top, there is a navigation bar with icons for user profile, message, bookings, and a search bar. Below the navigation bar is a table with four tabs: "WAITING", "ONGOING", "FINISHED", and "CANCELLED". The "WAITING" tab is selected. The table lists two trips for a traveler named Jill Langley. Each trip row includes the traveler's name, start time, end time, post title, adult quantity, child quantity, price, and two buttons: "Accept" (blue) and "Refuse" (red).

Traverler	Start time	End time	Post	Adult quantity	Child quantity	Price	Action
Jill Langley	12/14/2019 13:54	12/14/2019 13:54	A tour in the art museum	2	1	150	<button>Accept</button> <button>Refuse</button>
Jill Langley	12/14/2019 13:54	12/14/2019 13:54	A tour in the art museum	2	1	150	<button>Accept</button> <button>Refuse</button>

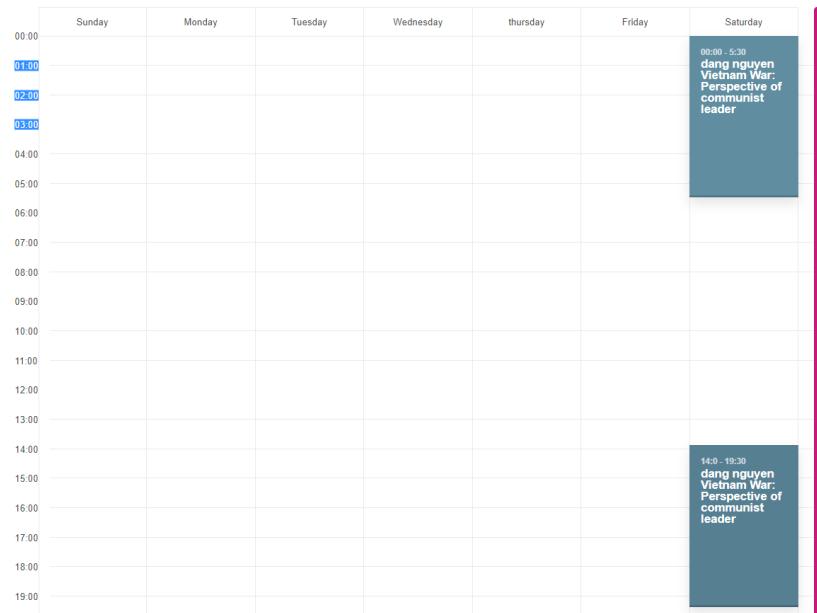
6.3.3.9 View trip schedule

Firstly, login on website with guider account. Then click on item “Schedule” and redirect to Schedule Page



Display all trip schedule

Pick Date Start: 12/14/2019



6.3.3.10 Review travelers

Jill Langley



♀ Gender Other
🗣 I speak EN
📞 Phone number: 651651616561
📅 Date of birth: 1996-04-23
📍 Country: England

Reviews

 **Jacky**
2018-10-25
She is a very funny person
Jacky The Guider!

 **Bob**
2018-06-24
Very chill and relax
Bob The Guider!

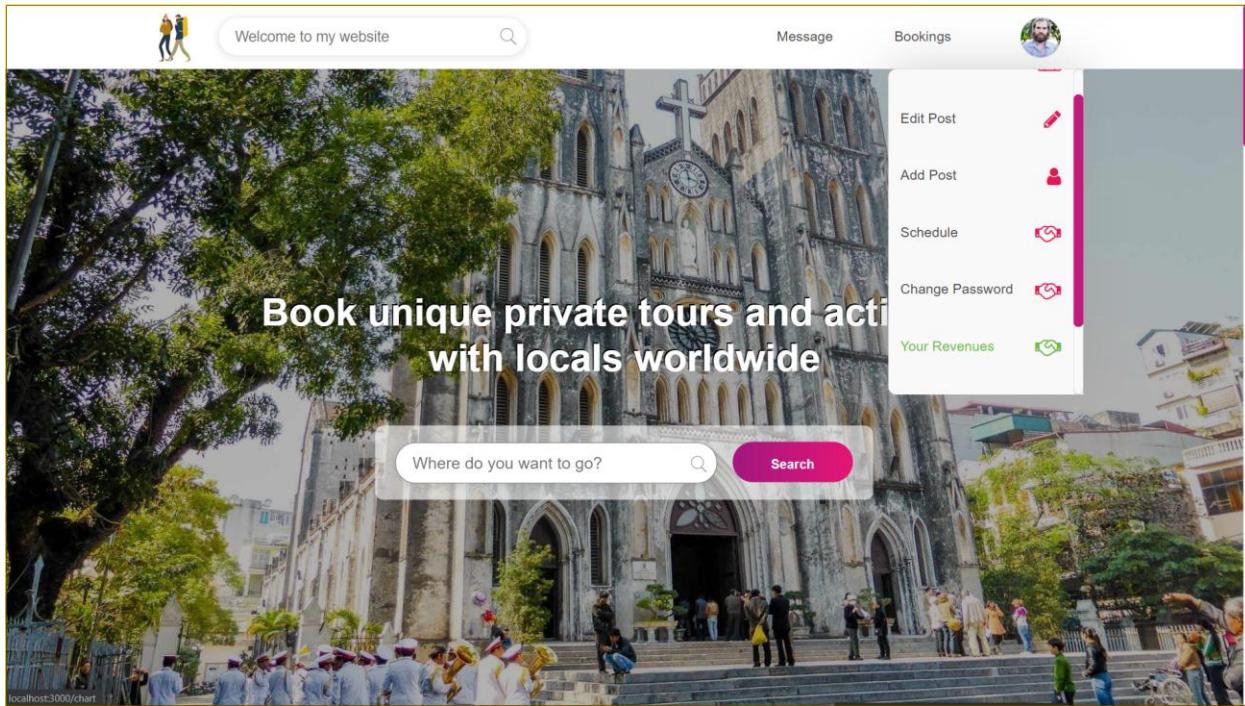
 **Bob**
2018-06-24
Greatest company to go around with
Bob The Guider!

[Load more](#)

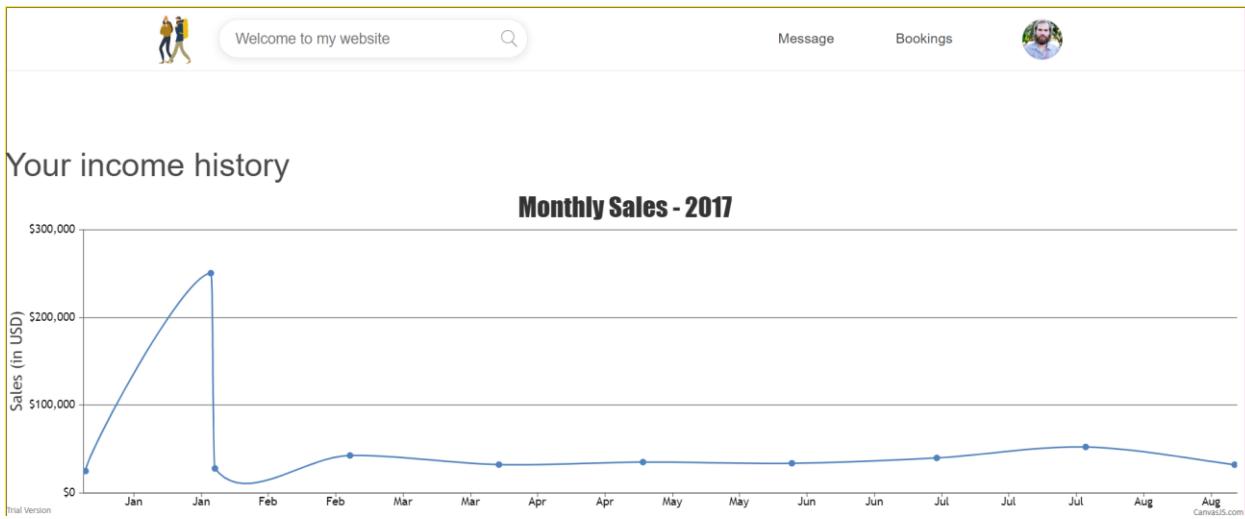
[Comment](#)

6.3.3.11 View statistic of revenue

Firstly, login on website with guider account. Open avatar menu then clicks on item “Your Revenue” and redirect to Revenue Page



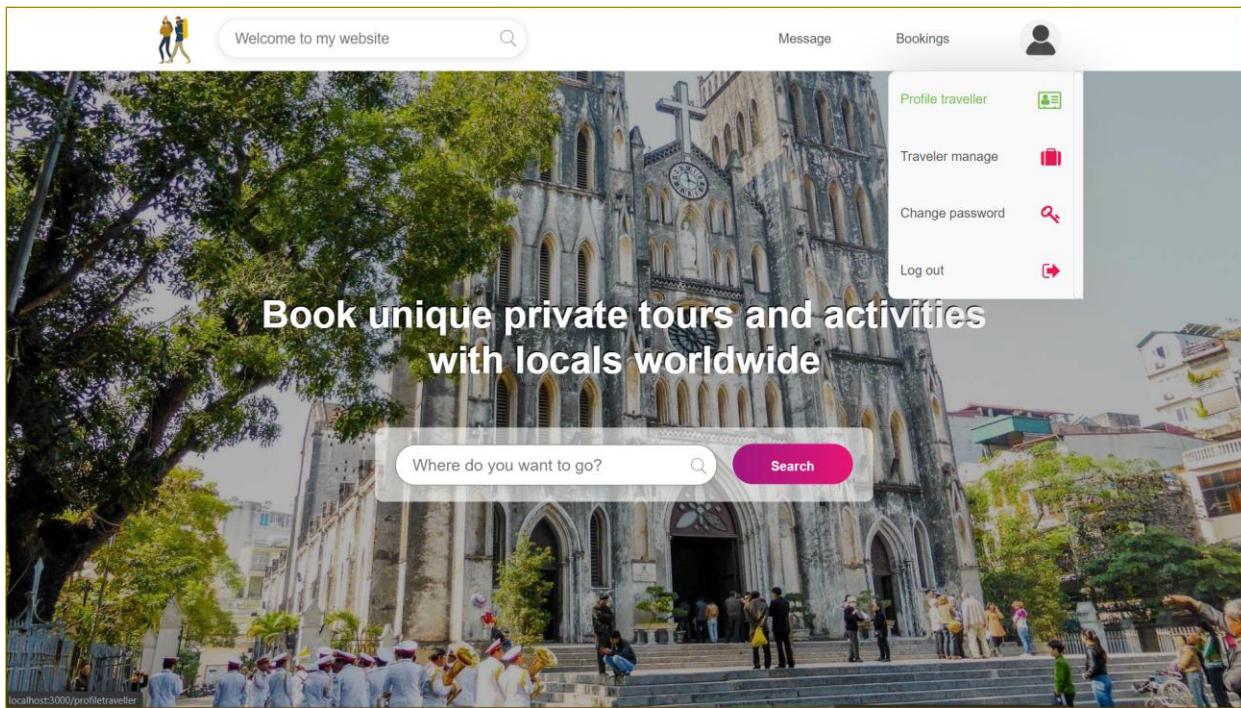
Display your income history



6.3.4 Traveler Functional

6.3.4.1 Edit traveler profile

Firstly, login on website with traveler account. Open avatar menu then clicks on item “Profile Traveler” and redirect to Edit Profile Page



Edit information on your profile then click on button “Save your profile” to save information on website.

YOUR PROFILE

ha hoang



Change profile picture

Introduce yourself

First Name: hoang

Last Name: ha

Gender: Male

Date Of Birth: 11 December 2019

Phone: 0123456789

Where do you live?

Country: Afghanistan

City or town:

Address

Street:

House Number:

Postal Code:

Some thing about you

Your language: Vietnamese

Description: Write something about you pls !!!

Your slogan: Please write your slogan !!!

Save Your Profile

6.3.4.2 Chat with guider

Firstly, login on website with traveler account then click on any post on website

All trips about Culture



Enjoy **Good surfing with local**
Explore every knook and
cranny of the most

• 15\$ • 4 hours • Day trip

★ ★ ★



Enjoy Vietnam Greatest Hero
**Nemo enim ipsam
voluptatem, quia**

⌚ 30\$ • ⏳ 3 hours • 🚍 Day trip

5/5



Redirect to Post Page

A screenshot of a travel blog post. The title is "10 BEST HANOI STREET FOOD". The post features a woman in a red dress and a man in a blue shirt. The background image shows various Hanoi street food items. The blog has a sidebar with a profile picture of the author, Peter Erikson, and a "Come and join me" button.

Street foods hanoi



At vero eos et accusamus et iusto odio dignissimos ducimus, qui blanditiis praesentium voluptatum deleniti atque corrupti

► Dong Xuan Market

6 hours

 Private tour. Only you and your host

Food tou

Day trip

■ Including: Touring, Gift Picking

Reviews

Click on button “Come and join me” then redirect to Chat Page

Check out the plan below to see what you're up to with your local host.

Feel free to personalize this offer.

📍 Meeting point
cong trường

🕒 kt 15'

🕒 kt 1 tiet

Fill message to Chat box then click on button “Send” to send message for Guider

6.3.4.3 Book a trip

Firstly, login on website with traveler account then click on any post you want to book on website.

Redirect to Post Page

Peter Erikson

★★★

I live in Hanoi

I speak VI,EN

My passions are: An experience you will never forget

Verified

[Come and join me](#)

10 BEST HANOI STREET FOOD

Street foods hanoi

At vero eos et accusamus et iusto odio dignissimos ducimus, qui blanditiis praesentium voluptatum deleniti atque corrupti

Dong Xuan Market

6 hours

Private tour. Only you and your host

Food tour

Day trip

Including: Touring, Gift Picking

Reviews

Pick date start, time start, time end trip and select number of adults, children then click on button “Book now” to book trip

Check out the plan below to see what you get up to with your local host.

Feel free to personalize this offer.

📍 Meeting point
cong trường

🕒 kt 15'

🕒 kt 1 tiet

i wanna joint you

rep me

welcome

im free to you

Send

Pick Date Start:

Time Start: Time End:

Last tour ended at a very long time ago

Estimate trip duration: 37 hours

3 Adults and 5 children

Adults Children

Adults price: \$60

Children price: \$30

Amount: \$330

Book now

Fill first name, last name and phone number then click on button “Save” to save your information.

If your profile full person information, you won't have to do this step.

First name

Last name

Phone

Vietnam(+84)
013546478941

Save



Street foods hanoi

Begin date: 12/17/2019
 Begin time: 03:00
 End date: 12/17/2019
 End time: 10:30
 Tour duration: 6 hour
 Guider: Peter
 Amount people: 1 people

Fee tour: 30\$

Then redirect to make payment and finish booking trip

6.3.4.4 Make payment

Next step above, check the box “I agree with the agreement” and select Paypal to make payment then redirect to Paypal Page to pay for the trip

Select payment

This Agreement sets forth the terms and conditions between TravelWLocal and users who set up a tour guide profile and create tours and travel services offered for sale on the TravelWLocal website. This Agreement explains the relationship between You

I Agree with aggements

Paypal



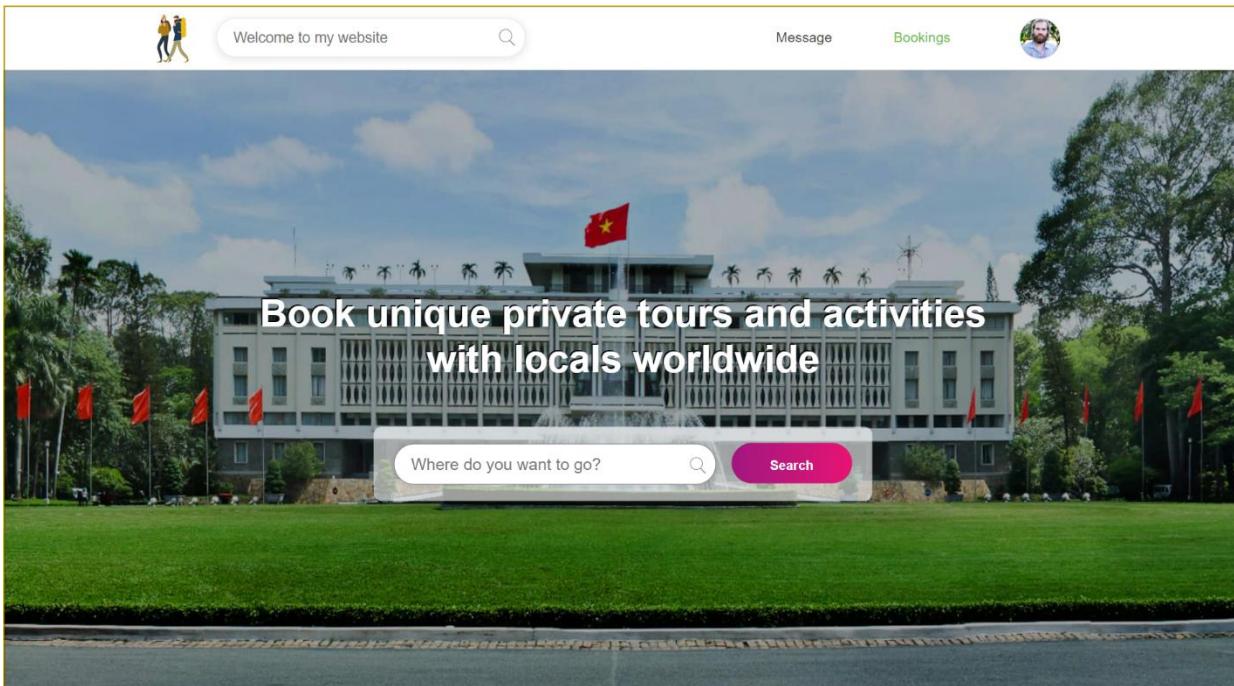
Street foods hanoi

Begin date: 12/17/2019
 Begin time: 03:00
 End date: 12/17/2019
 End time: 10:30
 Tour duration: 6 hour
 Guider: Peter
 Amount people: 1 people

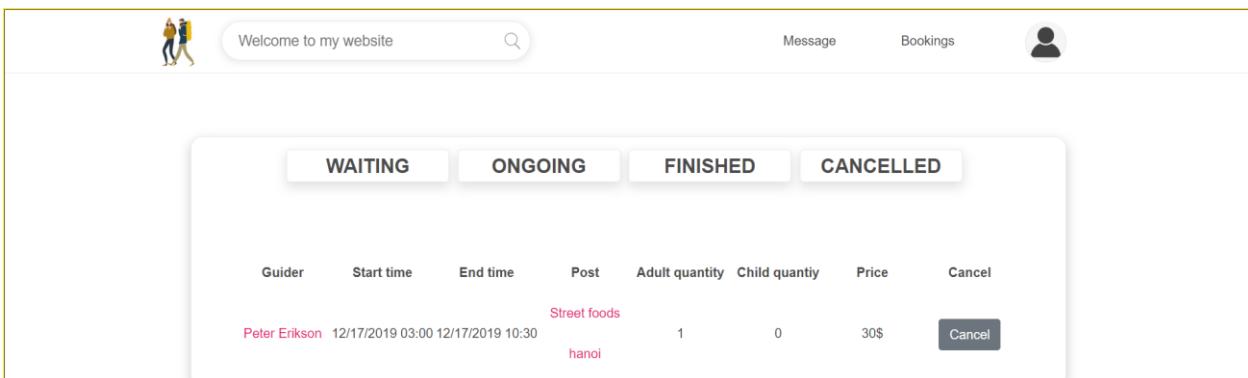
Fee tour: 30\$

6.3.4.5 View list of booked trip

Firstly, login on website with traveler account. Then click on button “Booking”

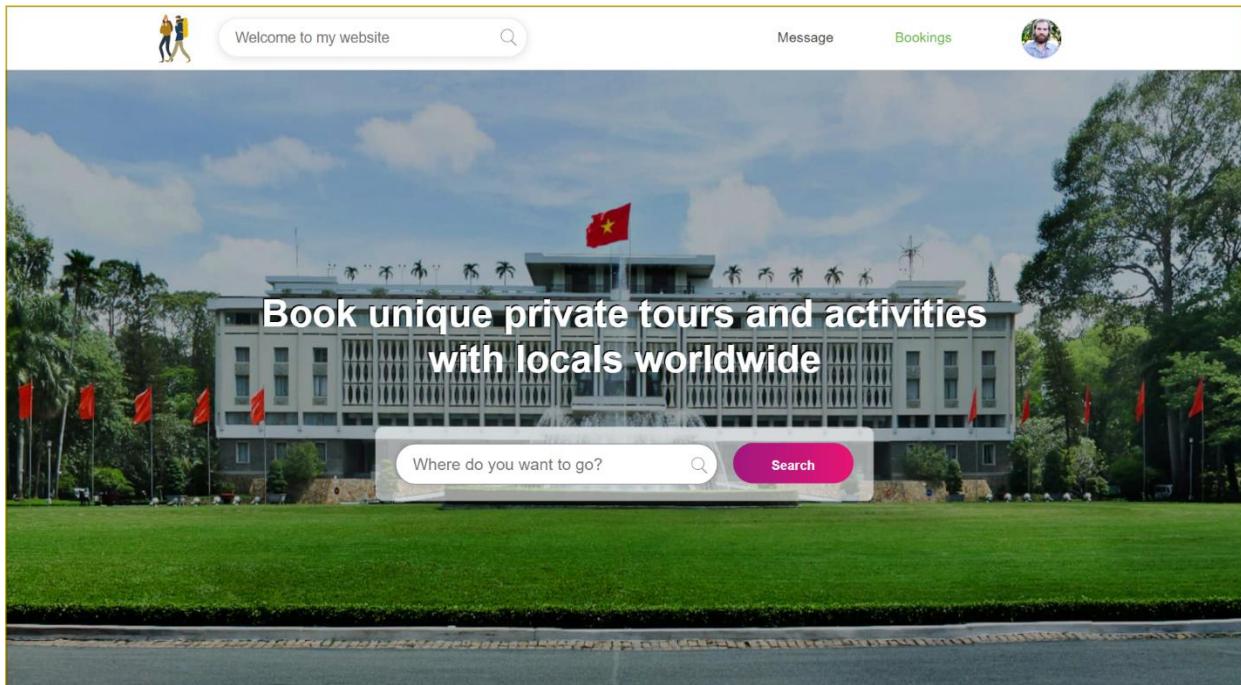


Redirect to Manage Page and display all trip have been accepted by guider



6.3.4.6 Cancel a trip

Firstly, login on website with traveler account. Then click on button “Booking”



Redirect to Manage Page and display all trip have been accepted by guider

Then click on button “Cancel” and the trip will be cancel and update on website

The image shows a 'Manage Page' for a trip. At the top, there is a navigation bar with icons for a person, a search bar, and links for 'Message' and 'Bookings'. Below the navigation bar is a large, semi-transparent button with four tabs: 'WAITING', 'ONGOING', 'FINISHED', and 'CANCELLED'. The 'WAITING' tab is highlighted. Below the tabs, there is a table with the following columns: 'Guider', 'Start time', 'End time', 'Post', 'Adult quantity', 'Child quantity', 'Price', and 'Cancel'. The data in the table is: 'Peter Erikson' (Guider), '12/17/2019 03:00' (Start time), '12/17/2019 10:30' (End time), 'Street foods' (Post), 'hanoi' (Location), '1' (Adult quantity), '0' (Child quantity), '30\$' (Price), and a 'Cancel' button.

The image shows the same 'Manage Page' as the previous screenshot, but the trip is now in the 'CANCELLED' category. The large, semi-transparent button at the top has the 'CANCELLED' tab highlighted. The table data remains the same as in the previous screenshot, but the trip is now listed under the 'CANCELLED' category.

The trip has been moved to the category “Cancelled”

Guider	Start time	End time	Post	Adult quantity	Child quantity	Price
Peter Erikson	12/17/2019 03:00	12/17/2019 10:30	Street foods hanoi	1	0	30\$

6.3.4.7 Review and rate after trip

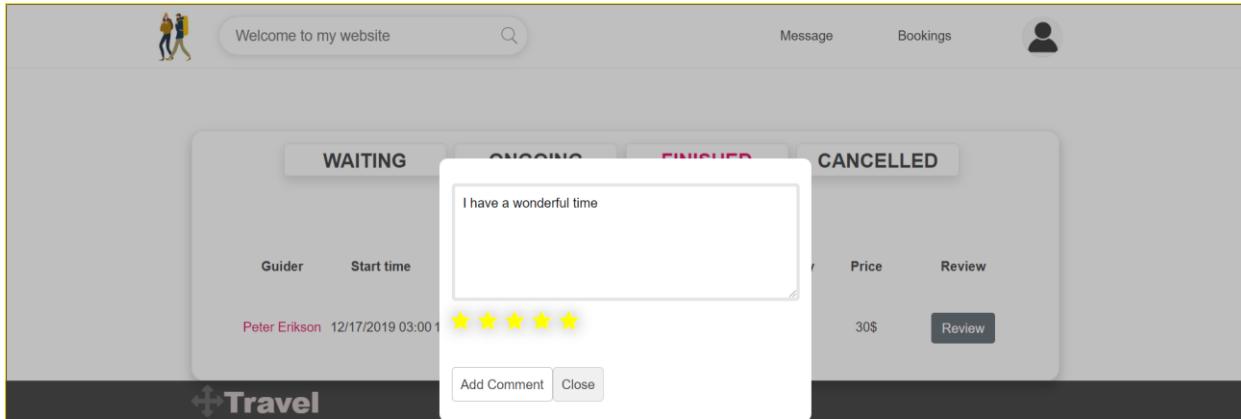
Firstly, login on website with traveler account. Then click on button “Booking”

Redirect to Manage Page and display all trip have been accepted by guider

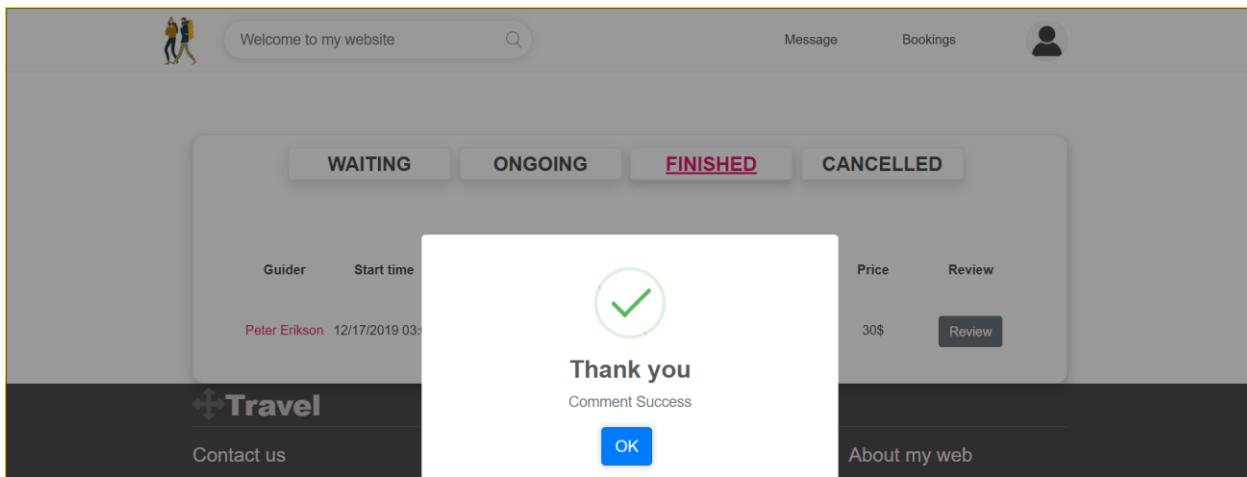
Then click on the category “Finished” and click on button “Review”

Guider	Start time	End time	Post	Adult quantity	Child quantity	Price	Review
Peter Erikson	12/17/2019 03:00	12/17/2019 10:30	Street foods hanoi	1	0	30\$	Review

Display form review and fill the comment, rate star for the trip then click on button “Add Comment”



Review success



6.3.4.8 Save favorite post

Firstly, login on website with traveler account then click on any post on website.

All trips about Culture



Enjoy Good surfing with local
Explore every knook and cranny of the most

15\$ • 4 hours • Day trip

★★★



Enjoy Vietnam Greatest Hero
Nemo enim ipsum voluptatem, quia

30\$ • 3 hours • Day trip

★★★★★



Redirect to Post Page

Peter Erikson
★★★

📍 I live in Hanoi
🗣 I speak VI,EN
❤️ My passions are: An experience you will never forget
👤 Verified

[Come and join me](#)



Street foods hanoi



At vero eos et accusamus et iusto odio dignissimos ducimus, qui blanditiis praesentium
voluptatum deleniti atque corrupti

📍 Dong Xuan Market

🍴 Food tour

⌚ 6 hours

🕒 Day trip

👤 Private tour. Only you and your host

➡️ Including:Touring,Gift Picking

Reviews

Click on icon Heart next to title post then icon will change color pink and save post to Favorite Page

📍 I live in Vinh

🗣 I speak VI,EN

❤ My passions are: Peaceful city life experience

👤 Verified

Come and join me



Vietnam War: Perspective of ❤ communist leader

Nemo enim ipsam voluptatem, quia voluptas sit, aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos, qui ratione voluptatem sequi nesciunt, neque porro quisquam est, qui dolorem ipsum, quia dolor sit amet consectetur adipisci



Ho Chi Minh Mausoleum



History tour

6.3.5 Admin Functional

6.3.5.1 Accept guider contract

Firstly, login on website with admin account and click on item “Manage guider contract”

ADMIN

ADDONS

Manage guider contract

Manage account

Manage category and location

Statistic of revenue by month

Statistic of completed trip by month

Manage Contract

Name	Nationality	Date of birth	Gender	Home town	Address	Identity card number	Card issued date	Card issued province	Download file PDF	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	<button style="background-color: #003399; color: white; border: 1px solid #003399; padding: 5px 10px; border-radius: 5px;">Accept</button>	<button style="background-color: #ff6347; color: white; border: 1px solid #ff6347; padding: 5px 10px; border-radius: 5px;">Reject</button>
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	<button style="background-color: #003399; color: white; border: 1px solid #003399; padding: 5px 10px; border-radius: 5px;">Accept</button>	<button style="background-color: #ff6347; color: white; border: 1px solid #ff6347; padding: 5px 10px; border-radius: 5px;">Reject</button>
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	<button style="background-color: #003399; color: white; border: 1px solid #003399; padding: 5px 10px; border-radius: 5px;">Accept</button>	<button style="background-color: #ff6347; color: white; border: 1px solid #ff6347; padding: 5px 10px; border-radius: 5px;">Reject</button>
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	<button style="background-color: #003399; color: white; border: 1px solid #003399; padding: 5px 10px; border-radius: 5px;">Accept</button>	<button style="background-color: #ff6347; color: white; border: 1px solid #ff6347; padding: 5px 10px; border-radius: 5px;">Reject</button>
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	<button style="background-color: #003399; color: white; border: 1px solid #003399; padding: 5px 10px; border-radius: 5px;">Accept</button>	<button style="background-color: #ff6347; color: white; border: 1px solid #ff6347; padding: 5px 10px; border-radius: 5px;">Reject</button>
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	<button style="background-color: #003399; color: white; border: 1px solid #003399; padding: 5px 10px; border-radius: 5px;">Accept</button>	<button style="background-color: #ff6347; color: white; border: 1px solid #ff6347; padding: 5px 10px; border-radius: 5px;">Reject</button>

Admin 

Click on button “Accept” and display popup then click on button “OK” to accept guider contract

Name	Nationality	Date of birth	Gender	Home town	Address	Identity card number	Card issued date	Card issued province	Download file PDF	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject

Click on button “Reject” and display popup then click on button “OK” to reject guider contract

Name	Nationality	Date of birth	Gender	Home town	Address	Identity card number	Card issued date	Card issued province	Download file PDF	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject
John Smith	Vietnamese	03/04/1991	Male	Hanoi	12 Lang Ha Street	012585786	10/15/2006 00:00	Hanoi	Download File	Accept	Reject

6.3.5.2 View/Hide reviews

Firstly, login on website with admin account and click on item “Manage Account”.

Manage Account

Search for guider...

TRAVELER GUIDER

User name	Email	Role
dangnguyen97	dangngse05100@gmail.com	TRAVELER
Johnson	Johnson@gmail.com	TRAVELER
Jill	Bob@gmail.com	TRAVELER
Kevin	Bob@gmail.com	TRAVELER
dangngse05100	nguyengiadang1997@gmail.com	TRAVELER
Steve	Bob@gmail.com	TRAVELER

Click on button Guider then display all account guider and click on any guider.

Manage Account

Search for guider...

TRAVELER GUIDER

User name	Email	Role	Status	Activate	Deactivate
Jacky	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
Megan	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
nguyengiadang1997	dang10031997@gmail.com	GUIDER	Deactive	Activate	Deactivate
nguyendang	nguyengiadang1997@gmail.com	GUIDER	Deactive	Activate	Deactivate
Bob	Jacky@gmail.com	GUIDER	Deactive	Activate	Deactivate
Johnsona	Johnsona@gmail.com	GUIDER	Deactive	Activate	Deactivate
Peter	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate

Display all post of that guider then click on any title post.

All trip				
Title	Description	Reason	Status	Authorize
Long Bien Bridge, the historical witness	Take a tour visiting Long Bien Bridge, the bridge stood strong against Viet Nam War	Informative tour,Experience tour guide,Taking commemorative pictures	TRUE	 Deactivate
Good surfing with local	Explore every knook and cranny of the most bustling market in Ha Noi	Informative tour,Experience tour guide,Cheap gift picking	TRUE	 Deactivate
What to know about Vietnam Culture	Learning about the culture of vietnamese people	Informative tour,Experience tour guide,Vietnamese culture gift shop	FALSE	 Activate
A tour in the art museum	A tour to go around the museum, feast your eyes on the greatest arts of Vietnamese people from the ancient to modern	Informative tour,Experience tour guide,Learn about arts	TRUE	 Deactivate
Welcome to Ha Noi	A trip around Ha Noi	<div class="activities reason" data-reactroot=""><h2>1<!--> reasons to book this tour</h2><i class="fas fa-check"></i><p>I have a lot of knowledge about Ha Noi</p></div>	TRUE	 Deactivate

Display all review of that post and click on button “Hide” to hide that review or click on button “Show” to display that review again.

All trip	
Review	Show/hide
Greate trip !	 Show
Greate trip !	 Hide
Greate trip !	 Hide
Greate trip !	 Show
Greate trip !	 Hide
Greate trip !	 Hide
Greate trip !	 Show
Greate trip !	 Hide

6.3.5.3 View list of Account

Firstly, login on website with admin account and click on item “Manage Account” to display all account of traveler.

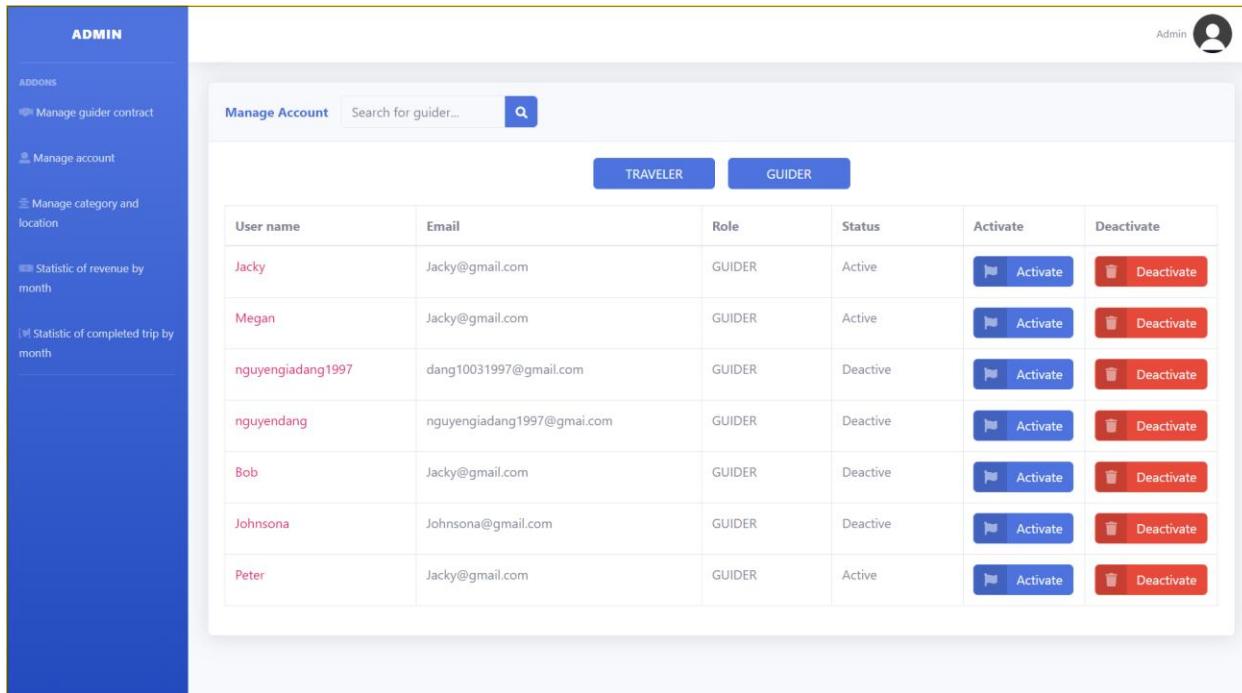
User name	Email	Role
dangnguyen97	dangngse05100@gmail.com	TRAVELER
Johnson	Johnson@gmail.com	TRAVELER
Jill	Bob@gmail.com	TRAVELER
Kevin	Bob@gmail.com	TRAVELER
dangngse05100	nguyengiadang1997@gmail.com	TRAVELER
Steve	Bob@gmail.com	TRAVELER

Click on button “Guider” to display all Guider Account.

User name	Email	Role	Status	Activate	Deactivate
Jacky	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
Megan	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate
nguyengiadang1997	dang10031997@gmail.com	GUIDER	Deactive	Activate	Deactivate
nguyendang	nguyengiadang1997@gmail.com	GUIDER	Deactive	Activate	Deactivate
Bob	Jacky@gmail.com	GUIDER	Deactive	Activate	Deactivate
Johnsona	Johnsona@gmail.com	GUIDER	Deactive	Activate	Deactivate
Peter	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate

6.3.5.4 Active/ De active Account

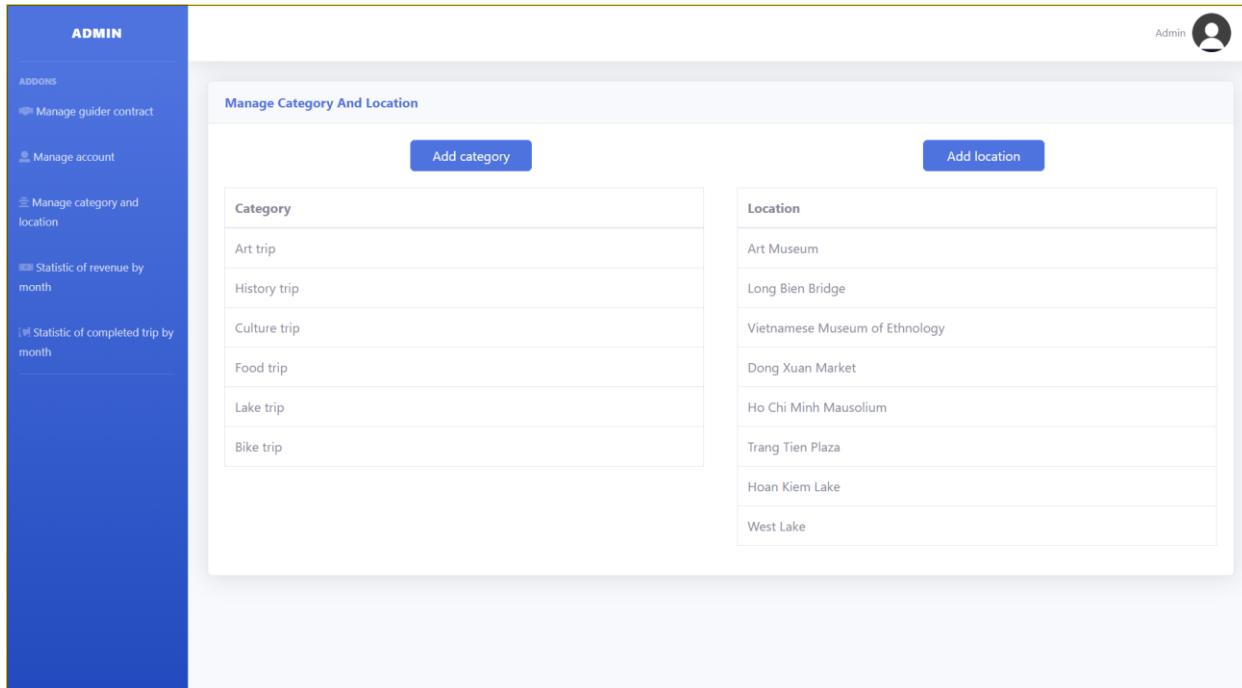
Next step above, you click on button “Deactivate” to lock that account and click on button “Active” to unlock account.



User name	Email	Role	Status	Activate	Deactivate
Jacky	Jacky@gmail.com	GUIDER	Active	 Activate	 Deactivate
Megan	Jacky@gmail.com	GUIDER	Active	 Activate	 Deactivate
nguyengiadang1997	dang10031997@gmail.com	GUIDER	Deactive	 Activate	 Deactivate
nguyendang	nguyengiadang1997@gmai.com	GUIDER	Deactive	 Activate	 Deactivate
Bob	Jacky@gmail.com	GUIDER	Deactive	 Activate	 Deactivate
Johnsona	Johnsona@gmail.com	GUIDER	Deactive	 Activate	 Deactivate
Peter	Jacky@gmail.com	GUIDER	Active	 Activate	 Deactivate

6.3.5.5 Create new location

Firstly, login on website with admin account and click on item “Manage category and location”



Manage Category And Location																	
Add category	Add location																
<table border="1"> <thead> <tr> <th>Category</th> </tr> </thead> <tbody> <tr><td>Art trip</td></tr> <tr><td>History trip</td></tr> <tr><td>Culture trip</td></tr> <tr><td>Food trip</td></tr> <tr><td>Lake trip</td></tr> <tr><td>Bike trip</td></tr> </tbody> </table>	Category	Art trip	History trip	Culture trip	Food trip	Lake trip	Bike trip	<table border="1"> <thead> <tr> <th>Location</th> </tr> </thead> <tbody> <tr><td>Art Museum</td></tr> <tr><td>Long Bien Bridge</td></tr> <tr><td>Vietnamese Museum of Ethnology</td></tr> <tr><td>Dong Xuan Market</td></tr> <tr><td>Ho Chi Minh Mausoleum</td></tr> <tr><td>Trang Tien Plaza</td></tr> <tr><td>Hoan Kiem Lake</td></tr> <tr><td>West Lake</td></tr> </tbody> </table>	Location	Art Museum	Long Bien Bridge	Vietnamese Museum of Ethnology	Dong Xuan Market	Ho Chi Minh Mausoleum	Trang Tien Plaza	Hoan Kiem Lake	West Lake
Category																	
Art trip																	
History trip																	
Culture trip																	
Food trip																	
Lake trip																	
Bike trip																	
Location																	
Art Museum																	
Long Bien Bridge																	
Vietnamese Museum of Ethnology																	
Dong Xuan Market																	
Ho Chi Minh Mausoleum																	
Trang Tien Plaza																	
Hoan Kiem Lake																	
West Lake																	

Click on button “Add Location” and fill information of location then click on button “Add” to update information on website.

Manage Category And Location

Category
Art trip
History trip
Culture trip
Food trip
Lake trip
Bike trip

Location
Vietnam
Hanoi
Old Street

Add category Add location

Add Close

The new location has been updated on website.

Manage Category And Location

Category
Art trip
History trip
Culture trip
Food trip
Lake trip
Bike trip

Location
Art Museum
Long Bien Bridge
Vietnamese Museum of Ethnology
Dong Xuan Market
Ho Chi Minh Mausoleum
Trang Tien Plaza
Hoan Kiem Lake
West Lake
Old Street

Add category Add location

6.3.5.6 Create new category

Firstly, login on website with admin account and click on item “Manage category and location”

Manage Category And Location

Category
Art trip
History trip
Culture trip
Food trip
Lake trip
Bike trip

Location
Art Museum
Long Bien Bridge
Vietnamese Museum of Ethnology
Dong Xuan Market
Ho Chi Minh Mausoleum
Trang Tien Plaza
Hoan Kiem Lake
West Lake

Add category

Add location

Click on button “Add category” and fill information of category then click on button “Add” to update information on website.

Manage Category And Location

Category
Art trip
History trip
Culture trip
Food trip
Lake trip
Bike trip
Sport

Location
Art Museum
Long Bien Bridge
Vietnamese Museum of Ethnology
Dong Xuan Market
Ho Chi Minh Mausoleum
Trang Tien Plaza
Hoan Kiem Lake
West Lake
Old Street

Add category

Add location

Add

Close

The new location has been updated on website.

Category
Art trip
History trip
Culture trip
Food trip
Lake trip
Bike trip
Sport trip

Location
Art Museum
Long Bien Bridge
Vietnamese Museum of Ethnology
Dong Xuan Market
Ho Chi Minh Mausoleum
Trang Tien Plaza
Hoan Kiem Lake
West Lake
Old Street

6.3.5.7 Search post by account name

Firstly, login on website with admin account and click on item “Manage Account” to display all account.

User name	Email	Role
dangnguyen97	dangngse05100@gmail.com	TRAVELER
Johnson	Johnson@gmail.com	TRAVELER
Jill	Bob@gmail.com	TRAVELER
Kevin	Bob@gmail.com	TRAVELER
dangngse05100	nguyengiadang1997@gmail.com	TRAVELER
Steve	Bob@gmail.com	TRAVELER

Fill the keyword on Search box then click on icon Magnifying glass to search that keyword and display results. Then click on guider name.

Manage Account

Jacky

TRAVELER GUIDER

User name	Email	Role	Status	Activate	Deactivate
Jacky	Jacky@gmail.com	GUIDER	Active	Activate	Deactivate

Display all post of that Guider.

All trip

Title	Description	Reason	Status	Authorize
Long Bien Bridge, the historical witness	Take a tour visiting Long Bien Bridge, the bridge stood strong against Viet Nam War	Informative tour, Experience tour guide, Taking commemorative pictures	TRUE	Deactivate
Good surfing with local	Explore every knook and cranny of the most bustling market in Ha Noi	Informative tour, Experience tour guide, Cheap gift picking	TRUE	Deactivate
What to know about Vietnam Culture	Learning about the culture of vietnamese people	Informative tour, Experience tour guide, Vietnamese culture gift shop	FALSE	Activate
A tour in the art museum	A tour to go around the museum, feast your eyes on the greatest arts of Vietnamese people from the ancient to modern	Informative tour, Experience tour guide, Learn about arts	TRUE	Deactivate
Welcome to Ha Noi	A trip around Ha Noi	<div class="activities reason" data-reactroot=""><h2>1 <!-- --> reasons to book this tour</h2><i class="fas fa-check"></i> <p>I have a lot of knowledge about Ha Noi</p></div>	TRUE	Deactivate

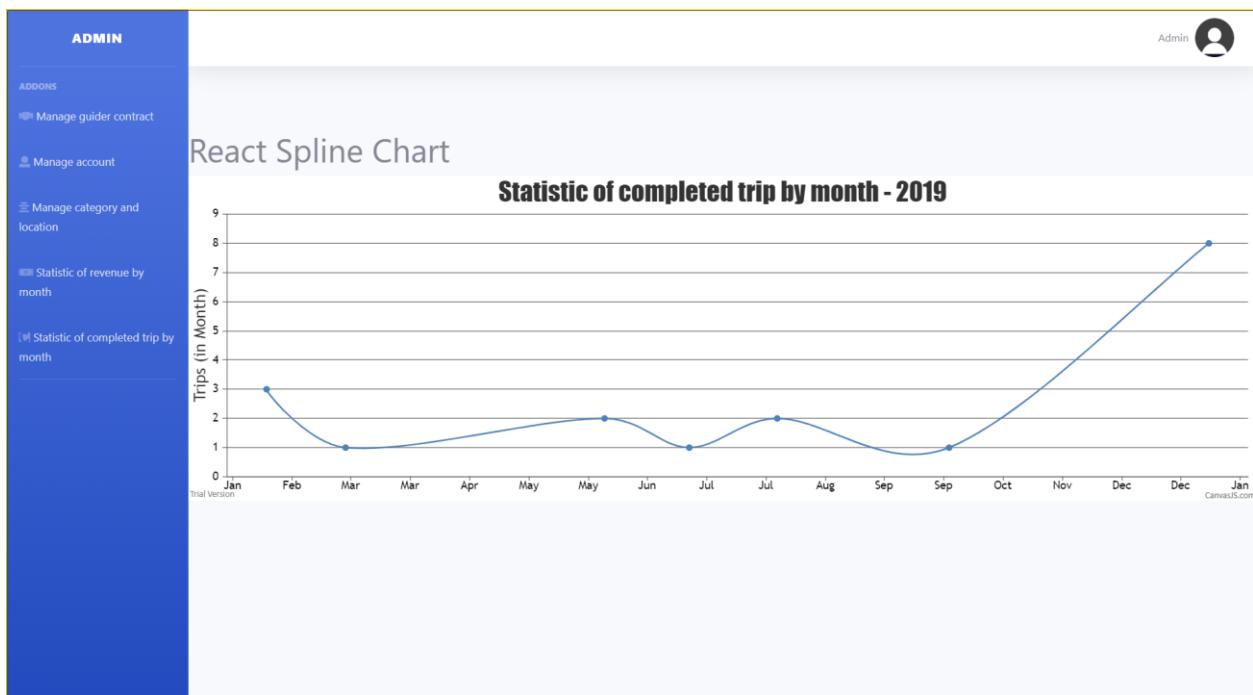
6.3.5.8 Activate/ Deactivate Post

Next step above and click on button “Deactive” to lock that post or click on button “Active” to unlock post.

All trip				
Title	Description	Reason	Status	Authorize
Long Bien Bridge, the historical witness	Take a tour visiting Long Bien Bridge, the bridge stood strong against Viet Nam War	Informative tour, Experience tour guide, Taking commemorative pictures	TRUE	trash Deactivate
Good surfing with local	Explore every knook and cranny of the most bustling market in Ha Noi	Informative tour, Experience tour guide, Cheap gift picking	TRUE	trash Deactivate
What to know about Vietnam Culture	Learning about the culture of vietnamese people	Informative tour, Experience tour guide, Vietnamese culture gift shop	FALSE	flag Activate
A tour in the art museum	A tour to go around the museum, feast your eyes on the greatest arts of Vietnamese people from the ancient to modern	Informative tour, Experience tour guide, Learn about arts	TRUE	trash Deactivate
Welcome to Ha Noi	A trip around Ha Noi	<div class="activities reason" data-reactroot=""><h2>1<!-- --> reasons to book this tour</h2><i class="fas fa-check"></i><p>I have a lot of knowledge about Ha Noi</p></div>	TRUE	trash Deactivate

6.3.5.9 View statistic of total completed trip

Firstly, login on website with admin account and click on item “Statistic of completed trip by month” then website display statistics



6.3.5.10 View statistic of total revenue

Firstly, login on website with admin account and click on item “Statistic of revenue by month” then website display statistics

