



Capstone project presentation

Travel with Locals



Supervisor: Mr. Dao Trong Duy

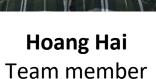
Nguyen Gia Dang Team member



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Team leader



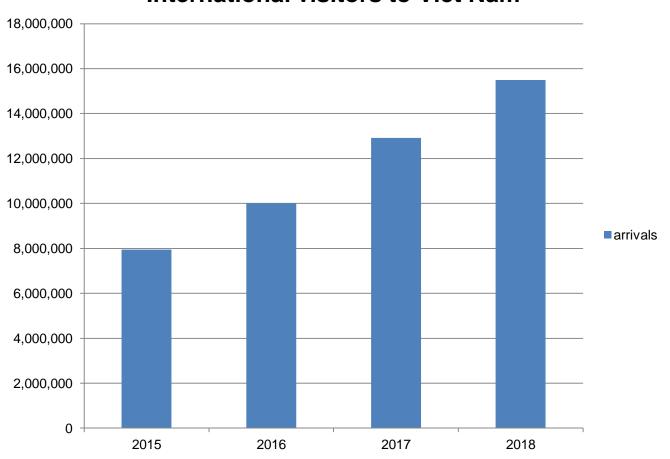
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Project Overview

Background

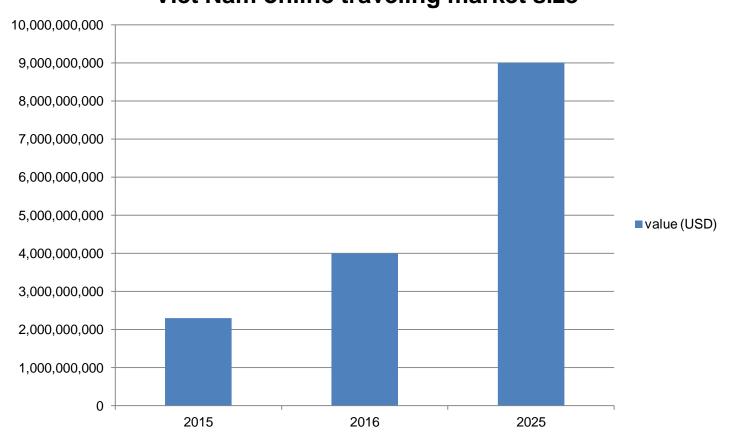
International visitors to Viet Nam



• The number of International visitors to Viet Nam.

Background

Viet Nam online traveling market size

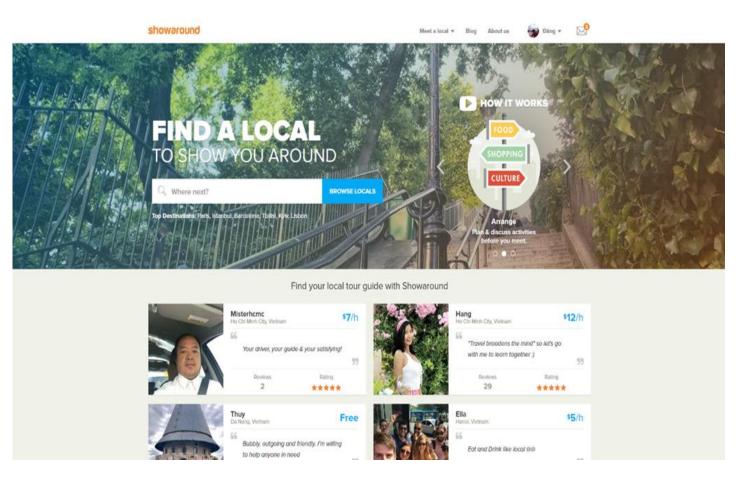


• Viet Nam online traveling market size.

Existing Systems

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.



Existing Systems

Withlocals.com

- Advantages
 - Trips are attached with guider, transparent information and process.
 - Be able to customize trip.
 - Mobile app supported.
- Disadvantages
 - No direct contact with guiders before payment.
 - Not target on Viet Nam market.



Explore Withlocals

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





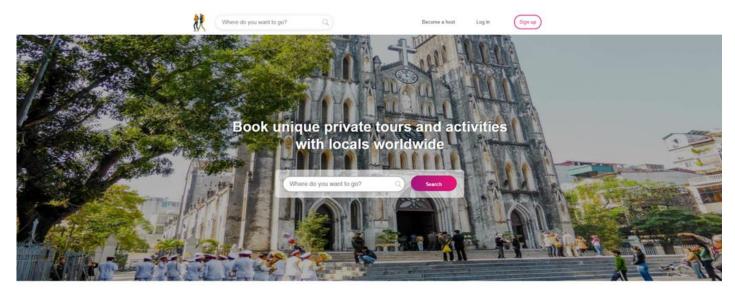








Proposed System



Explore Withlocals

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

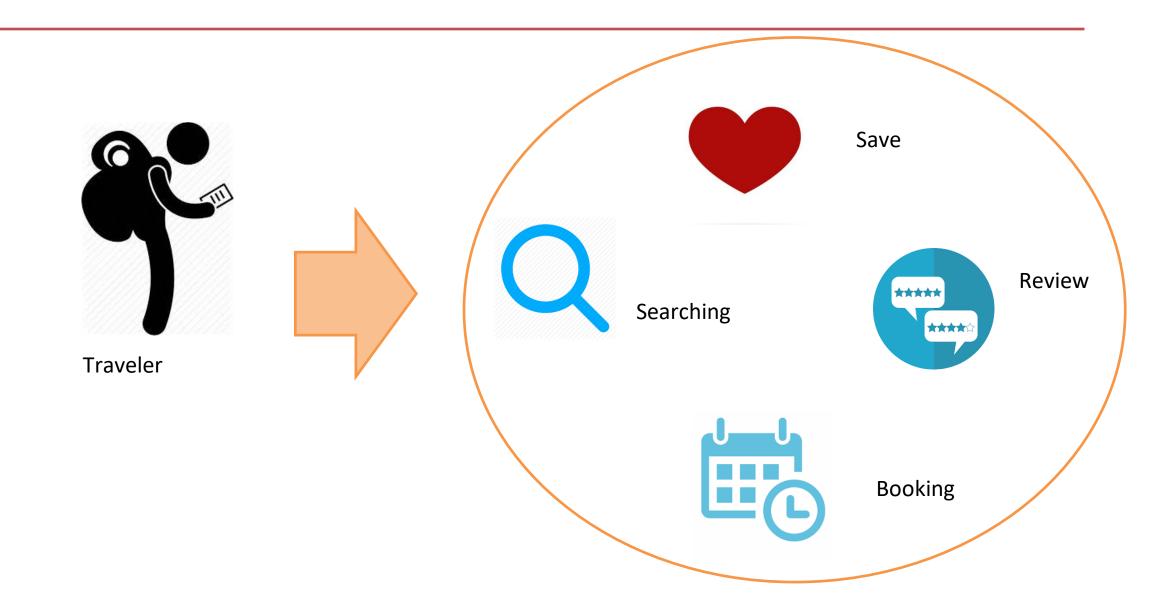




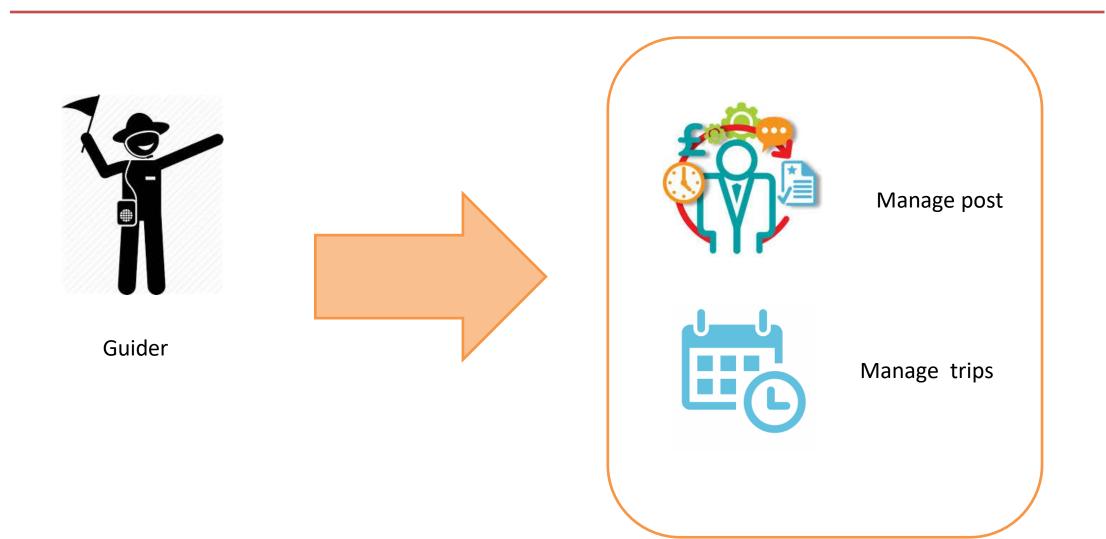


TWL website support travelers to find appropriate local guiders who they think would satisfy their exploration spirit. Travelers will easily find, communicate and find out whether a guider qualified as they like. It is important that Travelers can trust our verified Guiders. Specially, our Guides are recruited to serve foreign who travel in Viet Nam.

Main Features



Main Features

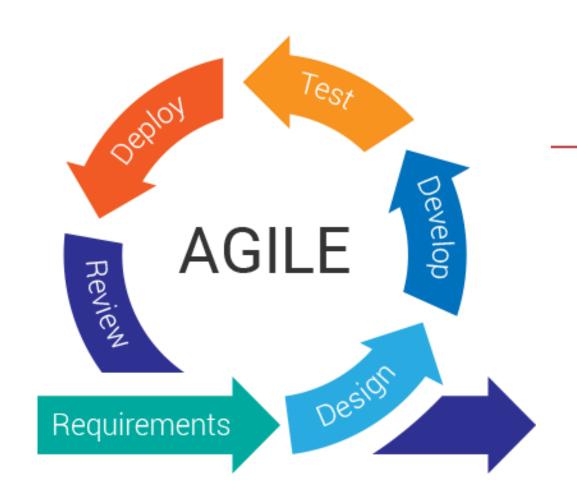


Out of Scope

 Pay for guiders: TWL system does not take responsibility to make payment for guiders.



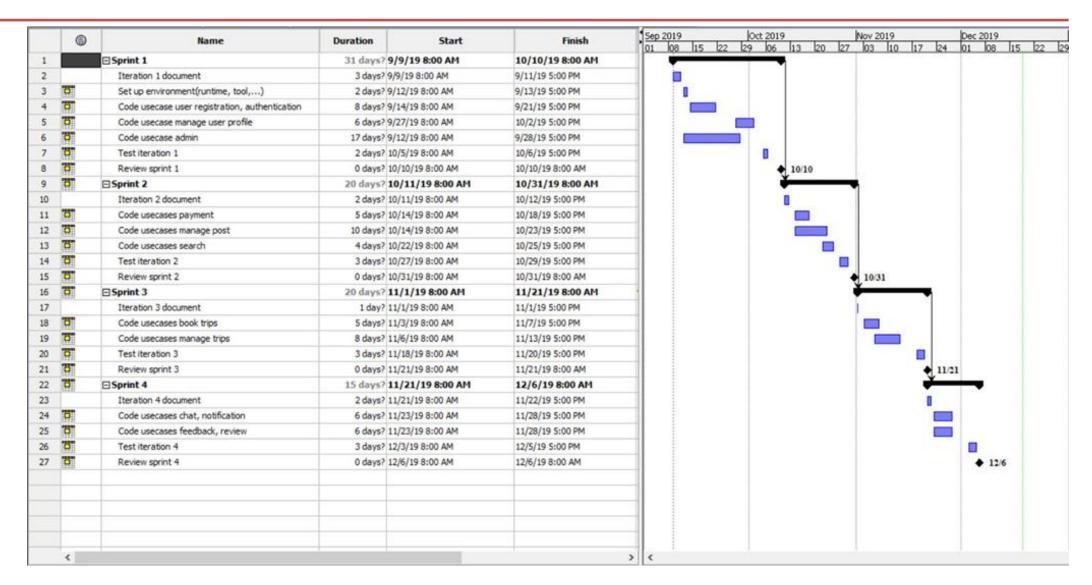
Project Managerment



Software Development Process

Task management

Gantt chart



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			

Communication Management

Work together: Every Tuesday and Thursday.

Communication:





Meeting with supervisor: Once a week

Risk Management

Risk register

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	Different motivation among member	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.	High
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

Requirement Specification

Use Case Diagram

Number of use cases: 41



Traveler: 19



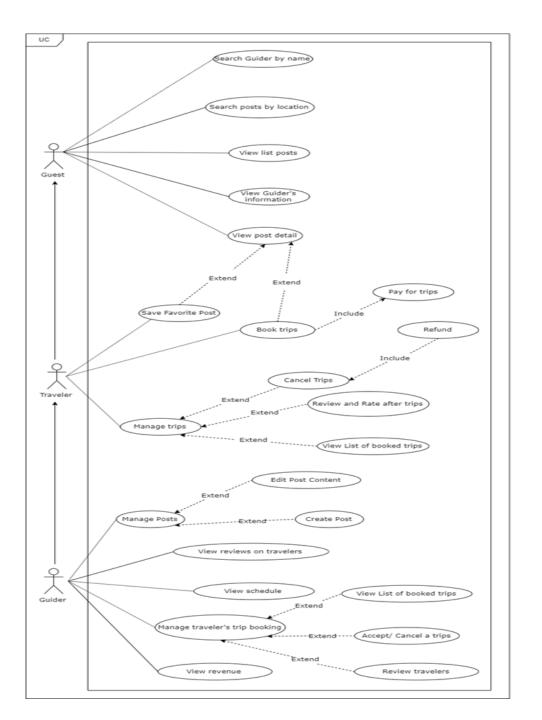
Guest: 9



Guider:20



Admin: 10



Function Requirements - Guest

- Registration
- Find Guiders
- Find posts

The travel is most appreciated

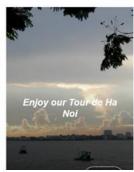






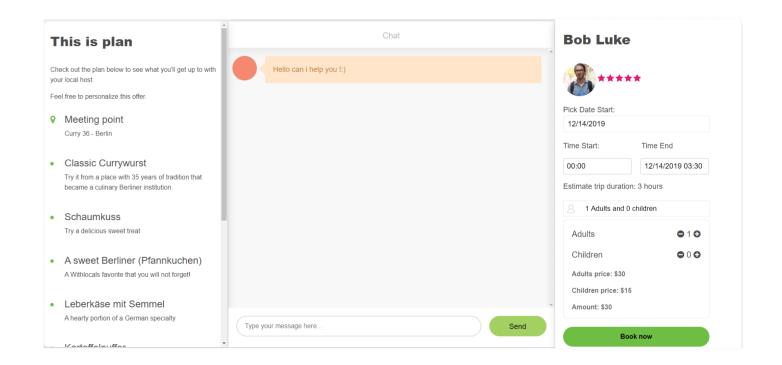






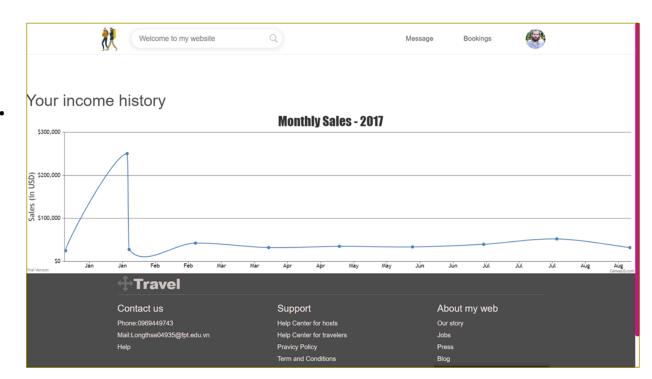
Function Requirements - Traveler

- Communicate withGuider
- Book trips
- Manage their trips



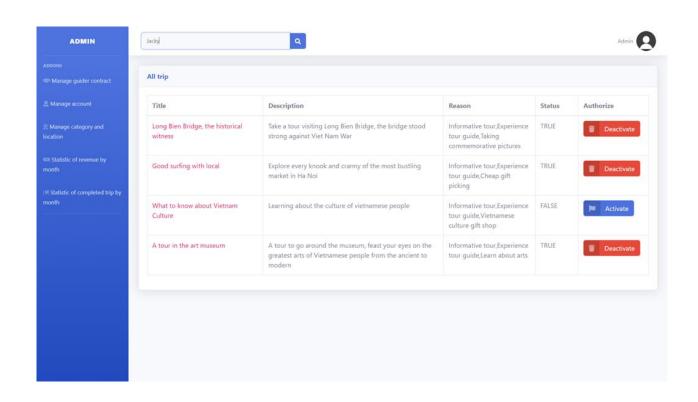
Function Requirements - Guider

- Manage posts
- Communicate with Travelers.
- Manage trips.



Function Requirements - Admin

- Management account
- View statistics



Non-Functional Requirements



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.



Security

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

Non-Functional Requirements



Availability

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



- 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.

Performance

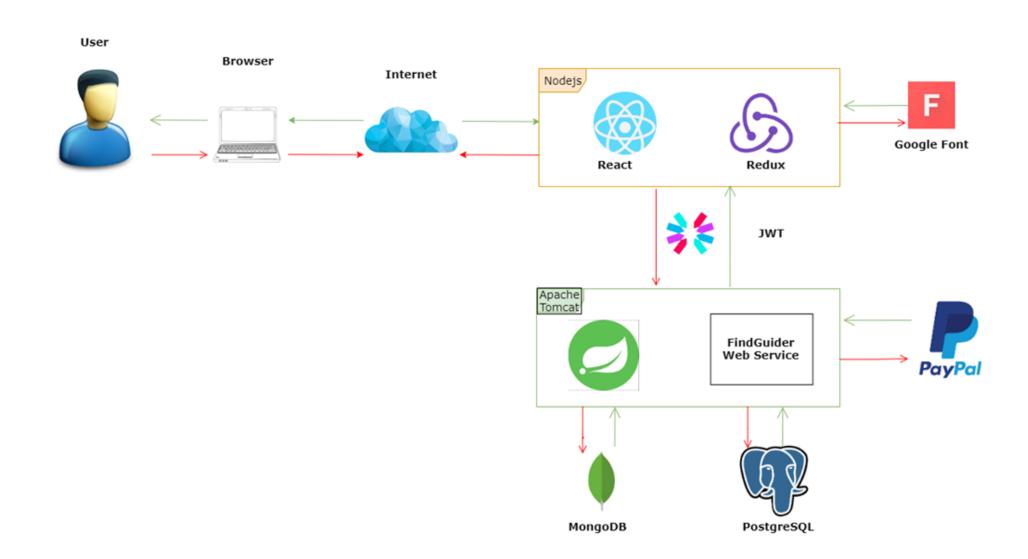
Non-Functional Requirements



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

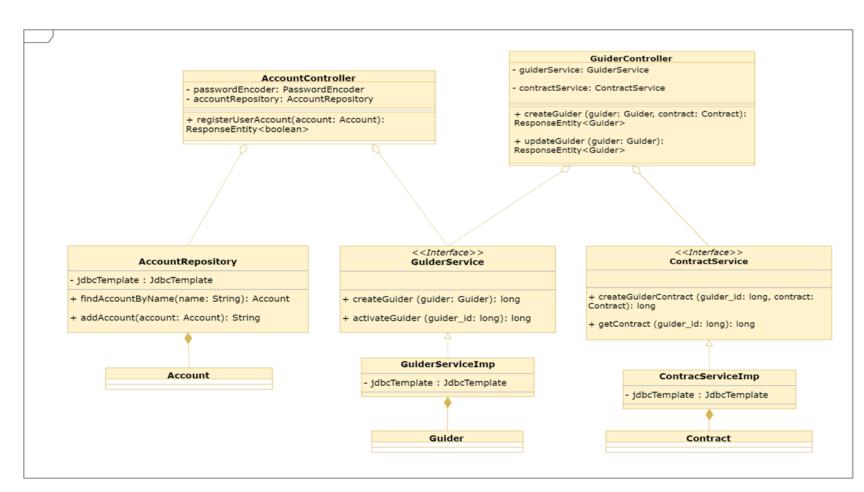
Software design

System Architecture



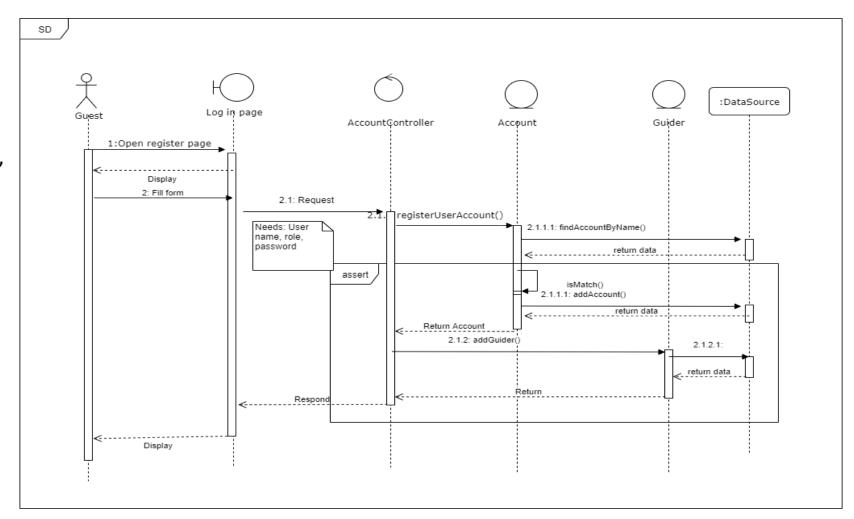
Class Diagram Example

Class diagram for "Sign up a guider account"



Sequence Diagram Example

Sequence Diagram for "Sign up a guider account"



Testing

Testing Tools









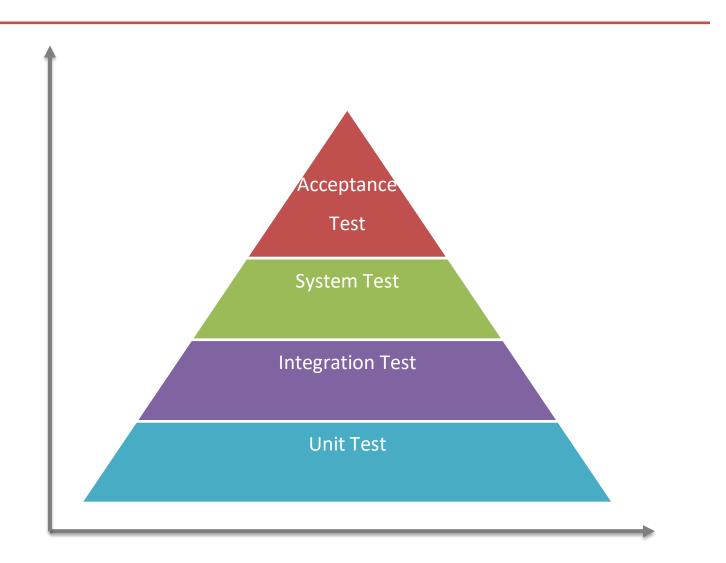




Safari v11

Test Levels

4 Level Tests



Test Types

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

Unit Test

Number of Test Cases:

- Controller: 181

- Service : 153

Passed:

- Controller: 181

- Service : 153

Failed:

- Controller: 0

- Service: 0

Cover:

- Controller: 99%

- Service: 94%



Integration Tests

No	Module code	Pass	Fail	Untested	N/A	Number of test cases
1	Guest	83	0	0	0	83
2	Admin	96	0	0	0	96
3	Guider	182	0	0	0	182
4	Traveler	122	0	0	0	122
		402				400
	Sub total	483	0	0	0	483

Test report

System Tests

No	Module code	Pass	Fail	Untested	N/A	Number of test cases
1	Guest	3	0	0	0	3
2	Admin	14	0	0	0	14
3	Guider	14	0	0	0	14
4	Traveler	8	0	0	0	8
	Sub total	39	0	0	0	39

Test report

Acceptance Test

Α	В	С	D
No	Test	Yes	No
1	Can guest sign up as a traveler ?	х	
2	Can guest sign up as a guider ?	х	
3	Can traveler recover forgotten password?	х	
4	Can guider recover forgotten password ?	x	
5	Can guider login ?	х	
6	Can traveler login ?	х	
7	Can admin login ?	х	
8	Can user search for guiders by name ?	x	
9	Can user search for post by location name ?	х	
10	Can user view list posts of a guider ?	х	
11	Can user view list posts of a category ?	х	
12	Can user view detail of a post ?	х	
13	Can traveler or guider receive notifications ?	х	
14	Can traveler change password ?	х	
15	Can guider change password ?	х	
16	Can traveler logout ?	x	
17	Can guider logout ?	х	
18	Can admin logout ?	х	
19	Can guider add a new post ?	х	
20	Can guider edit a post ?	х	
21	Can guider edit their profile ?	х	
22	Can guider chat with travelers ?	х	
23	Can guider view list of booked trip?	х	
24	Can guider accept a trip booking?	х	
25	Can guider refuse a trip booking?	х	
26	Can guider cancel a trip booking?	х	
27	Can guider view a traveler's review ?	х	
28	Can guider view their schedule ?	х	
29	Can guider review a traveler ?	х	