< Journey Assistant >
Software Acceptance Report
Version 1.0

Group Member

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Modification History

Date	Version	Description	Author
2019-06-18	1.0	Finish the first version.	Zhihui Xie

Contents

1 Intruduction

1.1 Purpose

This software acceptance report aims to record the acceptance and inspection process of our journey assistant project. The basic information, including the environment under which the acceptance test is carried on, and the result, will be fully covered in this document.

The document will be further used as a reference for our developers and clients.

1.2 Scope

The document is written for our Journey Assistant software, and all content of accords with the software's features, subsystems, models, codes, etc.

1.3 Definition

The terms referred to in this document are defined in the project glossary document (Glossary.pdf).

1.4 Bibliography

1. <Object Oriented Software Engineering (Version 3)> (Tsinghua University Press)
2. <Object Oriented Software Engineering Practice Guidelines>

1.5 Sketch

In this document, we will discuss the software acceptance in five parts: project information, software overview, acceptance test environment, acceptance and testing result, and conclusion.

Project Information introduces the basic information of the project.

Software Overview describes how our software is organized and functioning.

Acceptance Test Environment records the software and hardware platform under which the acceptance is carried on.

Accentance and Testing Result shows the final result of accentance.

Conclusion gives overall evaluation of the acceptance process.

2 Project Information

Project Name Journey Assitant

Project Developer No-study Study Group

Project Development Time From 2019.03.22 to 2019.06.16.

Project Acceptance Time 2019.06.17

3 Software Overview

3.1 Software Structure

3.1.1 Program System

1. Android Client Program Hierarchical Relation

Package Name	Program Name
com.example.travelingagent.activity	CheckItinerariesActivity.java
	CustomizationActivity.java
	CheckItinerariesActivity.java
	LoginActivity.java
	MainActivity.java
	RecommendationActivity.java
	RecommendationDisplayActivity.java
	SavedItineraryDisplayActivity.java
	RegisterActivity.java
com.example.travelingagent.entity	Hotel.java
	Sight.java
	Spot.java
	User.java
	Itinerary.java
com.example.travelingagent.protocol.api	CustomizationClientApi.java
	ItineraryClientApi.java
	LoginClientApi.java
	RecommendationClientApi.java
	RegisterClientApi.java
	WeatherClientApi.java
com.example.travelingagent.protocol.entity	LoginEntity.java
	RegisterEntity.java
	WeatherEntity.java

Table 1: Client Program Hierarchical Relation

2. Server Program

Package Name	Program Name
jsf-helloworld.src.java.com.test	GetItinerary.java
	Gethotel.java
	Getsight.java
	Graph.java
	Hotel.java
	Itinerary.java
	Login.java
	Recommandation.java
	Register.java
	ReportMsg.java
	SaveItinerary.java
	SendItinerary.java
	Sight.java
	Simulation.java
	Spot.java
	Testjava.java
	Type.java
	User.java

Table 2: Server Program

3.1.2 Database

The database used in the system is a relational database SQLite, which is named as ”SEDB”. The tables included are as follows:

Number	Field	Description	Type	Allow Null	Primary Key
1	ID	ID of users	int	N	Y
2	username	name of users	text	N	N
3	userpwd	password of users	text	N	N
4	mail	e-mail of users	text	N	N

Table 3: User

Number	Field	Description	Type	Allow Null	Primary Key
1	sight_id	ID of each sight	int	N	Y
2	name	name of each sight	text	N	N
3	popularity	popularity of each sight	double	N	N
4	price	price of each sight	double	N	N
5	total	total score of each sight	double	N	N
6	environment	environment of each sight	double	N	N
7	service	service score of each sight	double	N	N
8	latitude	latitude of each sight	double	N	N
9	longitude	longitude of each sight	double	N	N
10	city_id	the id of city where sight lies	int	N	N
11	description	description of sight	text	N	N

Table 4: Sight

Number	Field	Description	Type	Allow Null	Primary Key
1	hotelt_id	ID of each hotel	int	N	Y
2	name	name of each hotel	text	N	N
3	popularity	popularity of eachhotel	double	N	N
4	price	price of each hotel	double	N	N
5	total	total score of each hotel	double	N	N
6	latitude	latitude of each hotel	double	N	N
7	longitude	longitude of each hotel	double	N	N
8	city_id	the id of city where hotel lies	int	N	N
9	description	description of hotel	text	N	N

Table 5: Hotel

Number	Field	Description	Type	Allow Null	Primary Key
1	ItineraryID	ID of each itinerary	int	N	Y
2	city_id	the id of city that user chooses	int	N	N
3	user_id	ID of users	int	N	N
4	itinerary	the itinerary that user chooses	text	N	N

Table 6: User History

Number	Field	Description	Type	Allow Null	Primary Key
1	msg_id	ID of each message	int	N	Y
2	user_id	ID of user that sends message	int	N	N
3	msg	content of message	text	N	N

Table 7: Feedback

3.2 Main Function and Performance

Main function and performance of our application are shown below.

Main Function	Description
Register	Add user information.
Login	Verify user name and password, and then log in.
Select Destination	Select which city you want to travel.
Set Preference	Set preference for system to recommend an itinerary.
View Map	View BaiduMap to get information of the itinerary.
Recommendation	Get itinerary recommendation proveded by the system.
Customiztion	Customize itineraries in a visual way.
Check saved itineraries	Check saved itineraries.
Feedback	Send feedback to developers.

Table 8: Main Function List

Performance Requirement	Description
Response Time Requirement	The average response time is under 0.4s.
Throughput Requirement	Under 2500 requirements per second.
Capacity Requirement	The maximum number of users and itineraries is around 140000 in theory.
Resource Requirement	The number of items in database is under 500000, the memory usage is no more than 300MB, and the bandwidth server needs is around 5Mbps

Table 9: Main Performance List

3.3 Acceptance Test Environment

3.3.1 Hardware

Server A laptop with Intel i5-7300HQ, 8G Memory, 128G SDD, and 500G HDD.

Server Network WAN with over 50Mbps bandwith.

Client An Android smartphone with 64G ROM, 4G RAM, and network access functionality.

Client Network Internet access.

3.3.2 Software

Operating System Microsoft Windows 10, Android 9.0.

Integrated Development Environment Android Studio, Eclipse, NetBeans.

Application Software JAVA 8

3.3.3 Document

- Feasibility Analysis.pdf
- Glossary.pdf
- Project Development Plan.pdf
- Software Acceptance Report.pdf
- Software Architecture Document.pdf
- Software Design Model.pdf
- Software Requirement Specification.pdf
- User Manual.pdf
- Delivery List.pdf
- Software Project Summary Report.pdf
- Software Testing Plan.pdf
- Software Testing Summary Report.pdf
- Risk List.xlsx

3.3.4 Member

Technical Manager Zhihui Xie

Developer All members of the group

Tester Zhihui Xie, Weizhe Chen

Technical Personnel Yiwen Song, Zhihui Xie

3.4 Accentance and Testing Result

3.4.1 Function Acceptance

Function Requirement	Testing Result	Comment
Register	Passed	
Login	Passed	
Select Destination	Passed	
Set Preference	Passed	
View Map	Passed	
Recommendation	Passed	
Customiztion	Passed	
Check saved itineraries	Passed	
Feedback	Passed	

Table 10: Function Acceptance List

3.4.2 Performance Acceptance

Performance Requirement	Testing Result	Comment
Response Time Requirement	Passed	The average response time is under 0.4s.
Throughput Requirement	Passed	Under 2500 requirements per second.
Capacity Requirement	Passed	The maximum number of users and itineraries is around 140000.
Resource Requirement	Passed	The number of items in database is under 500000, the memory usage is no more than 300MB, and the bandwidth server needs is around 5Mbps

Table 11: Performance Acceptance List

3.4.3 Document Acceptance

All documents meet the corresponding requirements.

3.5 Conclusion

The basic functions of the software system are well-realized and performance requirements are also achieved. The software system passes the acceptance test.