Software Requirements Specification

for

Tour Package Management System

Version 1.0

Project Manager:
Dr. Kazi Masudul Alam
Associate Professor,
Computer Science & Engineering Discipline,
Khulna University

Prepared by:
Md. Motiur Rahman
Student Id:190233
Khulna University, Bangladesh

Date:08November,2020

Table of Contents

Revision History

Name	Date	Reason For Changes	Version
SRS	8/11/2020	Created	1.0

1. Introduction

1.1 Purpose

I want to implement an interface for the Tour Package Management. This interface is designed to help tour operator, Destination Management Company and travel agency to respond effectively to their customers' requisites. The main purpose is to help those people whom are fond of travelling.The system can also be used for both professional and business purpose.
So,the purpose of this document is described.The document convention is also included.The intended user and reading suggestion for the system are also provided.

1.2 Document Conventions

Every single entity that I have discussed in this project has its own priority.This document uses the following conventions.

1. HTML – Hypertext Markup Language
2. CSS – Cascading Style Sheets
3. DB-Database

1.3 Intended Audience and Reading Suggestions

This document is intended for interested software developers, travel agency owners who are going to use this application.Project tester can use this document as base for their testing strategy. A good developer can review project's capabilities.By using this system and reading this document,developers can easily understand where their efforts should be focused to improve their skill.This software is also useful for the customers directly accessing website.

1.4 Product Scope

The "Tour Package Management System" is a system which helps the people to perform their tour more comfortably having no worry of booking hotel,managing transportation ticket etc .
The owner of the Tour Package Management System can provide all their information using the web portal.Those who need an affordable and comfortable journey can use this system to find their desirable option.

1.5 References

- https://www.tutorialspoint.com/software_engineering/software_requirements.htm
- www.wikipedia.com-free
- www.google.com-the

2. Overall Description

By reading this part of context ,the reader or the audience wiil get an complete overview of the functionality of this system.

2.1 Product Perspective

My project "Tour Package Management" will mainly focus to help the staff members,administrator or admin or owner of the travel agency for business purposes.

2.2 Product Functions

There are some functionalities of the product

[1] Add "Tour Package Management" name and location in the system.

[2] The system should allow everyone to view the homepage.

[3] Homepage need to contain package information,gallery,category of tour places,services ,achievements,authenticity or license of the physical institution for the tourist to get their attention.

[4] The system should contain an important bar named "Menu" and so on.

Menu

- profile
- About us
- Log out

[5] Customers need to have an account in order to book any package.For this they first must sign up and register to create an account.Then they can login using the username and password.

[6] The system must contain feature for the customers to edit ,update or delete their account.

[7] There is an option for the admin to view customer details.

[8] The admin can create package,add package,edit package details and price,delete or update package.

[9] Customer can book packages online.If the customers are not satisfied at any given package,they can request for a new expecting package.And the admin will decide whether to approve this request or not.Customers can also see their booking details,change their booking or delete their booking.

[10] Registered customer can review any package and a comment section is also presented there to leave their remarks.

[11] The staff member reserve tickets,book hotel ,manage transportation and other services following their admin's direction.

[12] The system must contain social link up.

[13] There is also an option to log out from the system.

2.3 User Classes and Characteristics

The travel agents who will be using my product need to have a basic familiarity with personal computer.As my project is very useful and easy to use so having basic knowledge of

computer,everyone can use it.Software developers can use it to make development in source code or to add more feature to it.The system will support three types of user privileges:(1)Admin;(2)Customer;(3)Staff Member.Admin maintains the entire tour scheme.Admin has control over the customer function.Staff member obeys the direction of the admin.Staff member includes tour guider,receptionist,travel co-ordinator and so on.Customer is the one who uses the system,for which the system is created.Admin will host a tour and add its package details on the website.Customers will book the package by online payment,if they like the package after seeing it.Then admin will confirm transaction.Obeying instruction of admin ,the staff member will make the tour succesfull.

2.4 Operating Environment

The system is designed to run in windows operating system.Minimum recommended Conf.: 256mb RAM or higher, 10mb Disk space,platform:html,css for this system. But it will not be runnable in Linux operating environment.

2.5 Design and Implementation Constraints

This system should be portable and must be inaccessible to unauthorized users. Those who are going to develop or use this project, should agree and fully accept the terms of this kind of license. Implemention of the database should be done at least using a centralized database management system.

2.6 User Documentation

However the origin of package tour the credit goes to Mr. Thomas Cook in 1855. Cook extended his business operation to different countries by introducing the first ‘inclusive tour‘ to Paris.

2.7 Assumptions and Dependencies

Let us assume that this is a distributed management system and it is used in the following application:
- A request for booking/cancellation of a package provided by the organization.
- Calculation of the total package cost per customer.
- Calculation of transportation cost, hotel and food cost,other services cost.

3. External Interface Requirements

3.1 User Interfaces

In this system design the user interface should be very easy and user friendly.This is our home interface. In any system design, designing homepage is very important. It basically represents the whole system.

3.2 Hardware Interfaces

For the tour package management system to be efficient and fully functional, a minimum computer system of Intel Pentium VI -1000 MHz Processor or above, with at least 512 MB of RAM and at least 10 GB Hard disk space, for server configuration. For the client configuration, any Pentium machine is sufficient with Internet Explorer 6.0 or higher or any other compatible browser installed.

3.3 Software Interfaces

Following are the software used in this application:
1. Operating system - I have chosen Windows operating system for its best support.
2. Database - To save the tour records, traveler records I have chosen SQL+ database.
3. HTML –To design the system.
4. CSS

3.4 Communications Interfaces

There will be another interface in the system which will contain the contacts number,email,facebook ,instagram,linkedln,whatsapp,twitter link so that anyone from anywhere can contact and deal with it..

4. System Features

This section gives an overview of everything included in the Tour Package Management system document. Tour Package Management Software is complete travel quotation booking system that allows travel agent to create customized travel itinerary with multiple travel services,hotel, transportation, transfer based on customer choice and requirement

4.1 System Features for Admin

4.1.1 Description and Priority

Here the admin will be the owner of Tour Package Management System. He will maintain the entire tour scheme.Admin can create package,edit or delete any package from the system.Admin will confirm the transaction and send booking confirmation to the customer.

4.1.2 Stimulus/Response Sequences

Admin will consider ‘Package request’ proposed by the customer whether to approve it or not and reply to the comment.

4.1.3 Functional Requirements

Admin can not give rating to any package or can’t delete the comment of the vistor.Moreover admin has no access to

4.2 System Features for User

4.2.1 Description and Priority

User can create a profile by registering in the system.User can book package. Users are the top most priority in this system.

4.2.2 Stimulus/Response Sequences

User can send package suggestion to another user.User can comment or rate any package.

4.2.3 Functional Requirements

One user can not see or edit another user's booking details.

4.3 System Features for Staff Member

4.3.1 Description and Priority

Staff Member's manage transportation,booking hotel and so many other things following the instruction of the admin.

4.3.2 Stimulus/Response Sequences

Staff member's reserve ticket.

4.3.3 Functional Requirements

They can not change tour scheme.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

The system will be available for 7/24 hours. The database management system should not be very complicated. If a database is not properly designed it can give rise to modification anomalies. When a user searches for a tour location, the application should not take much time to return the results, similarly for the motel and package information.That means "Tour Package Management System" application should be able to respond to the queries submitted by the customer without much delay. This project will be always up-to-date with all new supported features and bug fixes. The steps involved to perform the implementation of Tour Package management system are as shown below:
ENTITIES: Which specify distinct real-world items in an application.
RELATIONSHIPS: Which connect entities and represent meaningful dependencies between them.
PROPERTIES/ATTRIBUTES: Which specify properties of an entity and relationships.

5.2 Safety Requirements

In order to prevent critical hazardous events from occurring,critical function's of the system shall be detected and isolated.If any failure such as disk crash occurs to the database,there is a

recovery method to restore a past copy of the database that was backed up to archival storage.Moreover the system will obtain more current state by reapplying the operations of committed transaction from the backed up log,up to the time failure.

5.3 Security Requirements

Registered customer can access their own profile and edit booking details through user ID and password.So, this project is undoubtedly safe to me.Like any other system,security systems need database storage.that's why to ensure supreme safety of the system,admin must choose database partner more carefully.

5.4 Software Quality Attributes

AVAILABILITY: Availability of this system will be reported by web hosting company.The system will be available all time,if there are no unexpected inconveniences.

CORRECTNESS: Entire tour scheme should be happened in correct way and correct time.

USABILITY: The system should be easy to understand so that anyone having a least basic knowledge of computer can use it.

Reliability: This project is 100% safe to me. Besides, it is an open-source project, so anyone who has doubts can check the source code.

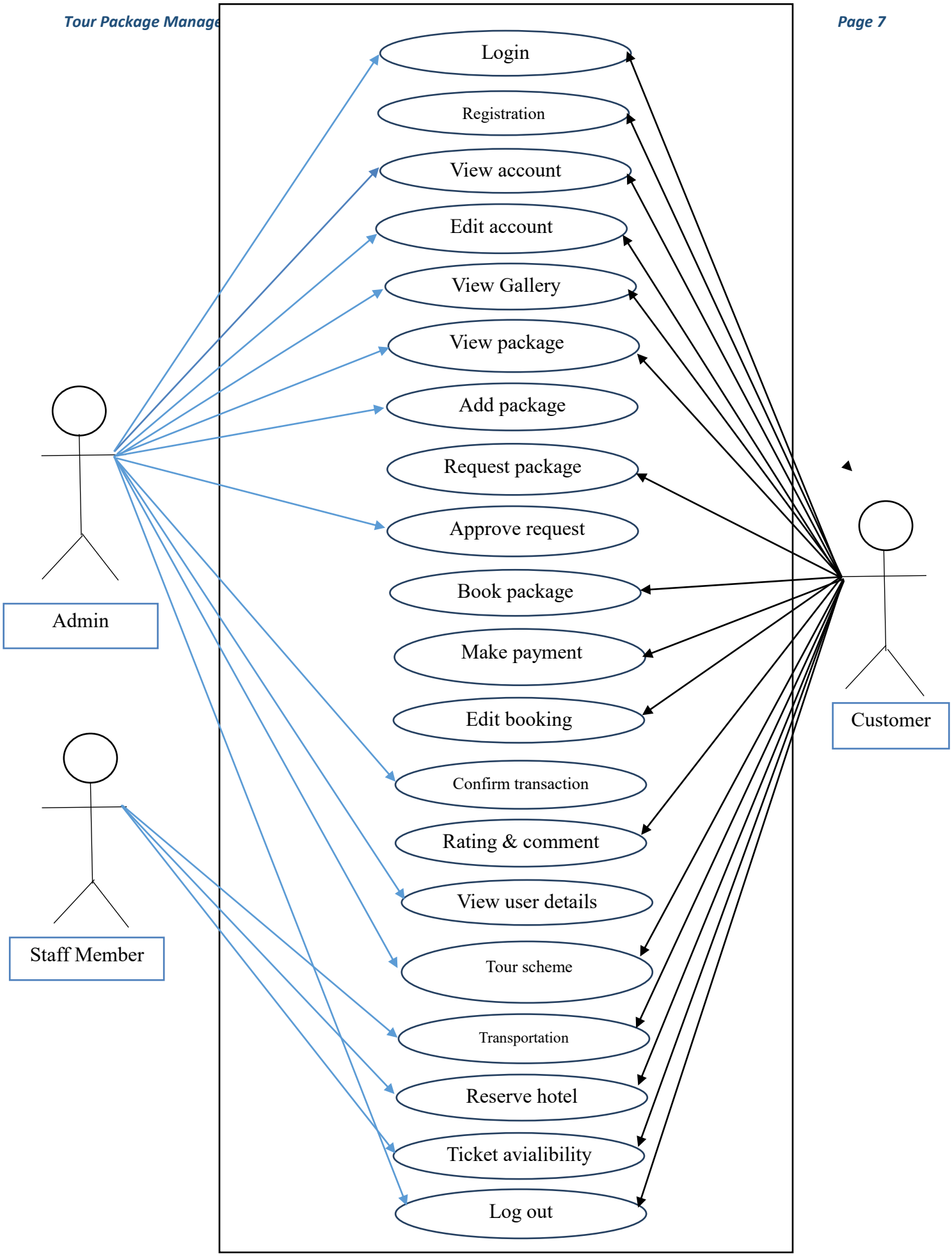
Scalable: Tour Package management system should satisfy a maximum number of customer needs.

Transparent: The user don't need to worry about the security thinking that authentication is taking place without the requirement of entering password.

5.5 Business Rules

This system needs to have some own business policy such as:
1.Booking or cancellation rules for any package.
2.Payment method rules.
3.Confirmation of the booking date.

6. Use Case Diagram


Login
Registration
View account
Edit account
View Gallery
View package
Add package
Request package
Approve request
Book package
Make payment
Edit booking
Confirm transaction
Rating & comment
View user details
Tour scheme
Transportation
Reserve hotel
Ticket avialibility
Log out
Admin
Staff Member
Customer

6.1 Use case description

6.1.1 Sign Up/Login

Use-Case 01	
Use Case Name:	Sign Up/Login
Brief Description:	All the users like customer, new customer, admin, staff member have to log in the system.
Priority:	Essential
Trigger:	A user can enter the system and can do his respective job.
Precondition:	User must have an email address.
Basic Path:	1. Server will send the user a log in form. 2. User has to give his User ID and password.
Alternate Path:	N/A
Post condition:	If both the User ID and password is correct then a user can access the next page.
Exception Path:	If the connection is terminated before the form is submitted, the fields are cleared and the Server is returned to the wait state.

6.1.2 Registration

Use-Case 02	
Use Case Name:	Registration
Brief Description:	In order to get a password and User ID all the user need to register in the system.
Priority:	Essential.
Trigger:	User can have his/her own profile.

Precondition:	User are connected to the internet and on tour package management Homepage.User need to be matured enough to travel.
Basic Path:	1. Server will take the user's live photo,first name ,middle name,last name,address,email,phone,password. 2. Fill the form and click register. 3. Tour package management server checks to see if all required fields are empty or not. 4. If any of the required fields are empty,the server returns a message and returns the registration form. 5. If it is not empty the Server will store it in the database,the server returns the user to the Homepage
Alternate Path:	N/A
Post condition:	A new user profile is created in the user table of the tour package management database.
Exception Path:	If the connection is terminated before submission, the fields are cleared and the Server is returned to the wait state.

6.1.3Manage Account

Use-Case 03	
Use Case Name:	Manage Account
Brief Description:	Registered user can be able to delete or edit or view their own profile.
Priority:	optional
Trigger:	Registered user choose to edit or delete their account.
Precondition:	User are connected to the internet and on the Tour Package management Homepage.
Basic Path:	1. User click Menu and select 'Your Profile' and server shows the user their profile. 2. After editing or deleting account ,Tour Package Management Server returns a success message verifying the user Id and password.

Alternate Path:	N/A
Post condition:	A customer is deleted from the user table of the Tour Package Management System.
Exception Path:	If the connection is terminated before the form is submitted, the fields are cleared and the Server is returned to the wait state.

6.1.4Add/edit package

Use-Case 04	
Use Case Name:	Add/edit Package
Brief Description:	Admin can create new package or edit any previous package or update price of any package.
Priority:	Essential
Trigger:	Admin choose to create new package.
Precondition:	Package creator must be an admin and connected to the internet.
Basic Path:	1. Server presents a form of fields package name,package type,image of the tour places,price,description,password. 2. Admin fill the form and click create package. 3. server checks to see if all required fields are not empty 4. If the required fields are not empty, the Tour package server creates a new package. 5. If any of the required fields are empty, the tour package management server returns a message and returns the create new package form. 6. Server returns the admin to Homepage.
Alternate Path:	N/A
Post condition:	New package is added to the package list.
Exception Path:	If the connection is terminated before submission, the fields are cleared and the Server is returned to the wait state.

6.1.5Booking by online Payment

Use-Case 05	
Use Case Name:	Booking by online payment
Brief Description:	User can view the package list and book a package by paying online.
Priority:	Essential
Trigger:	User choose to book a package
Precondition:	User are registered and logged in to the system and connected to internet.
Basic Path:	1. Server shows all types of amazing package.User likes a package and choose book.Then server presents the user with a summary of the package and a form of fields email,pay pal password. 2. Fill in the form and click login. 3. If the required fields are not empty, the server creates a new booking and waiting for the transaction verification. 4. If main admin receives the transaction,he will send the transaction confirmation message with a security code.
Alternate Path:	N/A
Post condition:	User can edit or delete the booking if he/she wishes.
Exception Path:	If the connection is terminated before the form is submitted, the fields are cleared and the Server is returned to the wait state.

6.1.6 Request package

Use-Case 06	
Use Case Name:	Request Package
Brief Description:	If the user is not satisfied with any package that is provided by the system,user can send package request.
Priority:	optional
Trigger:	User request the admin for a package
Precondition:	User are connected to the internet.
Basic Path:	1. User will choose package request option,server will presents with a form fields:Package type,Date,From,To,duration. 2. User will fill and send to the admin. 3. Admin will consider the package and approve it if it seems profitable to the system.
Alternate Path:	N/A
Post condition:	N/A
Exception Path:	If the connection is terminated before submission, the fields are cleared and the Server is returned to the wait state.

6.1.7Maintenance

Use-Case 07	
Use Case Name:	Maintenance
Brief Description:	Admin maintain entire tour scheme by distributing duties to its employee
Priority:	Essential.

Trigger:	Admin can plan new package.
Precondition:	User are connected to the internet
Basic Path:	In the server there are a section where hotel ,food,transportation and other services data are stored by different staff members.On the basis of these data admin maintains the whole system.
Alternate Path:	N/A
Post condition:	N/A
Exception Path:	If the connection is terminated before the form is submitted, the fields are cleared and the Server is returned to the wait state.