Veer Narmad South Gujarat University, Surat.

Department of Information and Communication Technology

Project Report

2nd Semester

M.Sc. (Information and Communication Technology)

2 Year course

Year 2019 – 2020

"The Tour"

Guided By :

Dr. Dhaval Joshi

Submitted By :

YashpalSingh G. Rajpurohit

Harsh C. Patel

J.P. Dawar Institute Of Information Science & Technology,

Veer Narmad South Gujarat University, Udhna Magdalla Road, Surat, Gujarat.

Acknowledgement

First and foremost, praises and thanks to the Almighty God, for His showers of blessings throughout the work to complete the project successfully.

We would like to express our deep and sincere gratitude and like to thank **Dr. Dhaval Joshi** and Internal Guide **Ms. Niti Tamakuwala**

for providing valuable advise, guiding us throughout the Project.

Also we would thank to our Professor for their expert advice, encouragement and helping us throughout this project.

We are extremely grateful to our parents for their love, prayers, care and support.

We would also like to thank all our friends who always helped and supported us to complete the project

Last but not the least we would like to thanks all the colleagues who have really motivated us in the project work.

Thanking All

YashpalSingh G. Rajpurohit.

Harsh C. Patel

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1. Introduction

1.1 Company Profile

1.2 Project Profile

Introduction:

COMPANY PROFILE	
Company Name:	Department of ICT,VNSGU.
Director Name:	Dr. Dhaval Joshi
Address:	J.P. Dawar Institute Of Information Science & Technology, Veer Narmad South Gujarat University,Udhna Magdalla Road, Surat, Gujarat
Contact No.:	8488020249
Email:	Dhaval.joshi81@gmail.com

Project Profile

Project title : 'The Tour'

Name of Institute : J.P. Dawer Institute OF Science And Technology ,
Veer Narmad South Gujarat University,Surat.

Front End Tool : JavaScript,Angular, ASP.NET MVC

Back End : C#.NET, SQLServer, Web API

Operating System : Window 10

Other Technology : Entity Framework

Project Guide : Dr. Dhaval Joshi.

Internal Guide : Ms. Niti Tamakuwla.

Submitted by : YashpalSingh GiridhariSingh R.
Harsh C. Patel.

2. Proposed System

2.1 Project Propose

2.2 Project Scope

2.3 Project Objective

2.4 Advantage

2.5 Limitations

❖ Project Propose:

- The main aim is to design a computerized system to book a holiday package with almost every facility as per consumers requirement.
- Design system that is user-friendly and easy to operate.

❖ Project Scope:

➢ Admin Side :-

- Login/Logout
- Admin can Create and Update Package
- Admin can view Customer Details.
- Admin can view Feedback, Complain and Suggestion.
- Manages Admin Dashboard.

➢ Consumer Side :-

- Register
- Login
- Search for available Package via place.
- Filter Packages via guide/food/hotel/ activity.
- Customize package by removing options like guide/hotel/activity.
- Book Selected Package.
- Payment
- Print/Download the package receipt/tickets.

❖ Project objectives :

- This system will allow to plan and book your holiday package quickly and easily via internet.
- It saves a lot of time, energy & money, moreover it provides quick & efficient services.
- As it provides a complete whole holiday package, now the consumer don't have to rush to various dealers to for booking things like hotels, guides, etc.
- Easy Booking with customization, easy Payment, receipt generation with very less effort.

❖ Advantages:

- Easy to plan trip by easily booking holiday package.
- Can customize the package according to the users need.
- Simple and easy User Interface for fast booking.
- Saves time and energy.

❖ Limitations:

- Only valid within the Nation.
- This site is only in English.
- There is no Travel option included in Package

3. Environment Description

3.1 Hardware & Software Requirements

3.2 Technology Used

Hardware & Software Requirements

❖ Hardware Specification :

Processor : Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz 2.70

RAM : 4.00GB (3.79 GB usable)

Hard Disk : Basic 931.51 GB Online

Monitor : 15.6” HD True Life Display

Keyboard : Spill-Resistant Keyboard

Mouse : Optical, Laser, Scroll (any one can use, Wireless)

System Type : 64-bit Operating System, x64-based processor

❖ Software Specification:

➢ Software Requirements (for Development):

- Microsoft Visual Studio 2019.
- Microsoft SQL Server Management Studio.

➢ Operation System (for development):

- Windows 10

➢ Server Configuration:

- IIS Server
- Microsoft SQL Server
- Visual Studio 2019

➢ For Client Side:

- Mozilla Firefox / Google Chrome / Any HTML5 And CSS3 Browser

❖ **Technology :**

- Entity Framework
- Web API
- Angular
- Java Script
- Bootstrap
- ASP.NET MVC

4. System Planning

4.1 Feasibility Study

4.2 Software Engineering Model

4.3 Risk Analysis

4.4 Project Schedule

❖ Feasibility study:

a) Technical Feasibility:-

Technical feasibility of any system is the availability of both the hardware and the software for the proposed system. This system is technically feasible because according to the requirement MYSQL-Server is good back end and PHP good front-end also for operating system for windows family.

b) Financial Feasibility:-

The financial feasibility foe any implies good investment for the organization. There is no overhead cost for software or hardware. The installation of the system is easy and will require less effort to install on the system even with old processors machine.

c) Economical Feasibility:-

Finance matter can restrict to the level of development. However our management is assuring that any needs will be fulfilled immediately. The management has provided the required resources. From the financial point of view the project is feasible. We guess there will not be any bigger monetary requirement for our project.

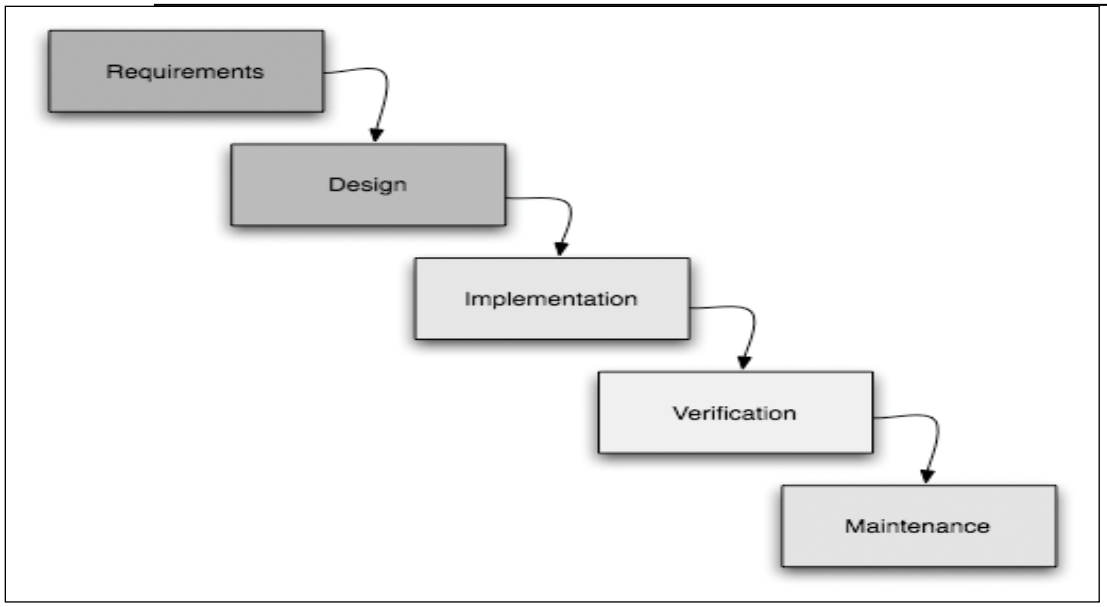
d) Operational Feasibility:-

The primary question that arises is, will the proposed system impact the working of other existing system. The function of the system is also dependent on the other modules of the package. The operational can discussed as.

❖ Software Process Model:

Waterfall model:

A waterfall is a model is also known as Linear Sequential Model. The waterfall model suggests a systematic, sequential approach to software development that begin with the system level and progresses through analysis design, coding, testing and support. It is very easy to understand the waterfall model. The waterfall model works in sequence. In the waterfall model the team members are have dependent to each other.



Advantages of Waterfall Model:

- It is provide a template into which the methods for analysis, designing, coding, testing and support can be placed.
- The classical life cycle remains a widely used procedural model for software engineering.
- The waterfall model provides a clear objectives and stable project requirements which are essential for quality software development.
- In the waterfall model progress of system is measurable.

Disadvantages of Waterfall Model:

- The waterfall model requires all requirements explicitly, but it is often difficult for the customer to state all requirements explicitly.
- The customer must have patience. A working version of a program will not be available until late in the project time-span.
- It is a slow process.
- The waterfall model is time consuming. Backtracking is not possible in this approach.
- The linear nature of the classic lifecycle leads to “blocking states” in which some project team member must wait for other members of the team to complete the task s which given to them.

❖ Risk Analysis:

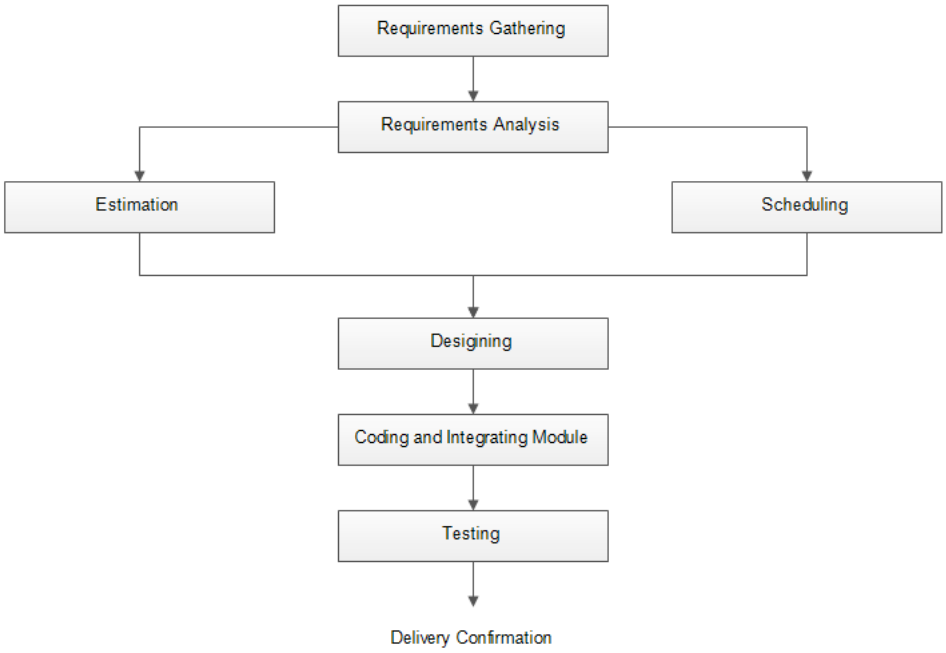
In Software Testing some unavoidable risk might take place like:

- Change in Requirements or incomplete requirements.
- Time allocation for testing.
- Developers delaying to deliver the built for testing.
- Urgency from client for delivery.

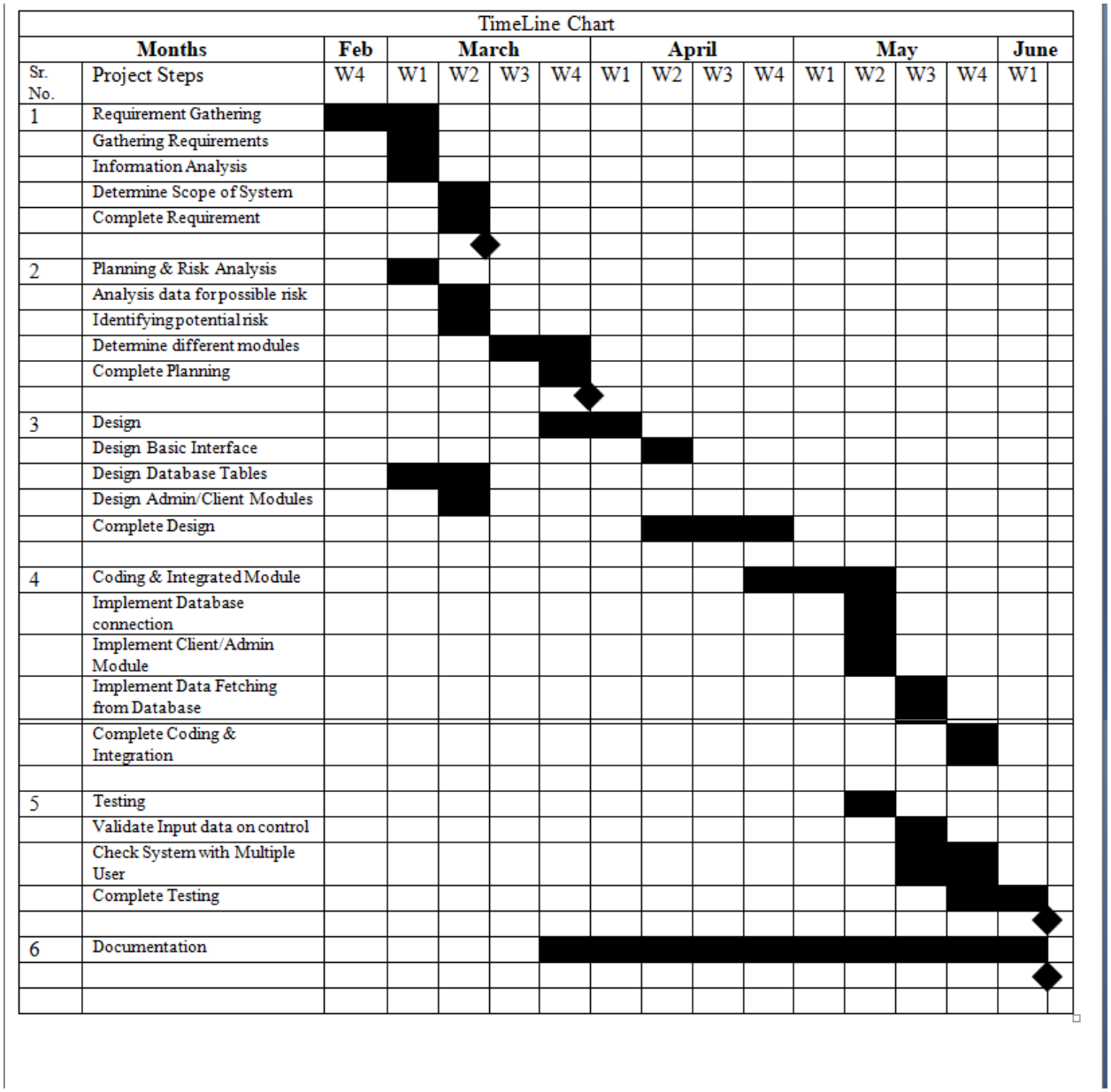
To overcome the risks, following activities can be done:

- Conducting Risk Assessment Review meeting with the development team.
- Identify and describe the risk magnitude indicators: High, Medium, Low.
- Creation of Risk Assessment Database for future maintenance.

❖ Task Dependency:



❖ Timeline Chart:



TimeLine Chart

Months		Feb	March				April				May				June	
Sr. No.	Project Steps	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	W2	W3	W4	W1	
1	Requirement Gathering															
	Gathering Requirements															
	Information Analysis															
	Determine Scope of System															
	Complete Requirement															
2	Planning & Risk Analysis															
	Analysis data for possible risk															
	Identifying potential risk															
	Determine different modules															
	Complete Planning															
3	Design															
	Design Basic Interface															
	Design Database Tables															
	Design Admin/Client Modules															
	Complete Design															
4	Coding & Integrated Module															
	Implement Database connection															
	Implement Client/Admin Module															
	Implement Data Fetching from Database															
	Complete Coding & Integration															
5	Testing															
	Validate Input data on control															
	Check System with Multiple User															
	Complete Testing															
6	Documentation															

5. Unified Modeling Language

5.1 Use Case Diagram

5.2 Sequence Diagram

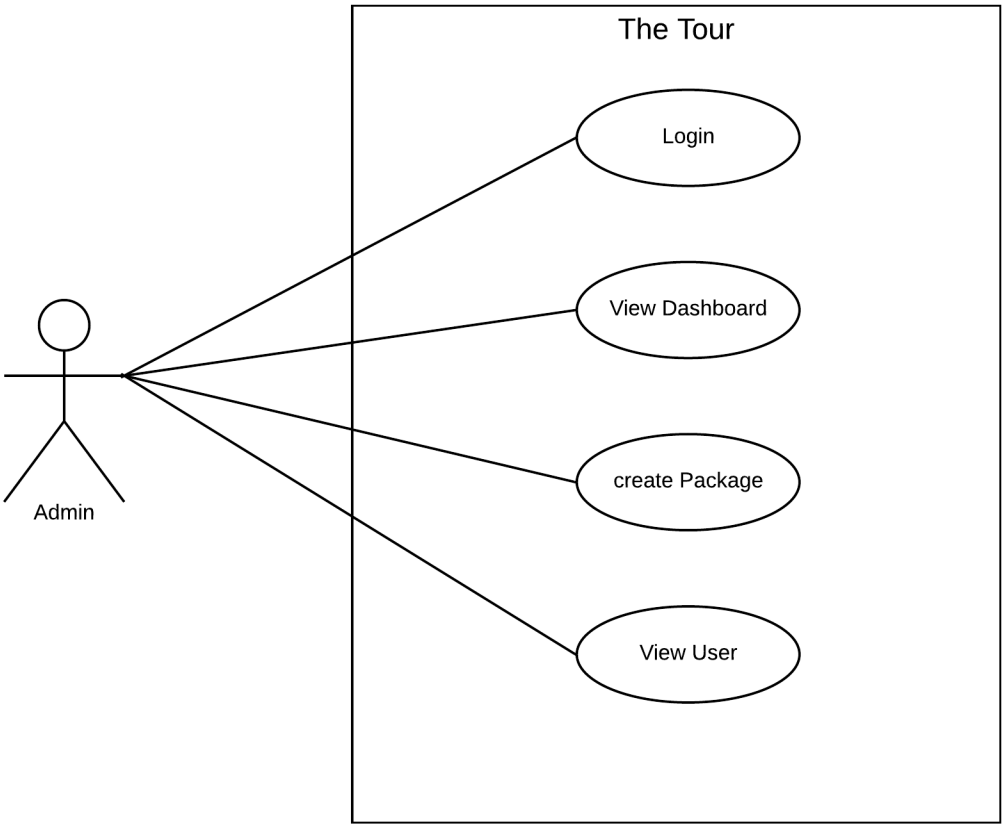
5.3 Relationship Diagram

5.4 CRC

5.5 Activity Diagram

❖ **Use Case Diagram :**

Admin:-



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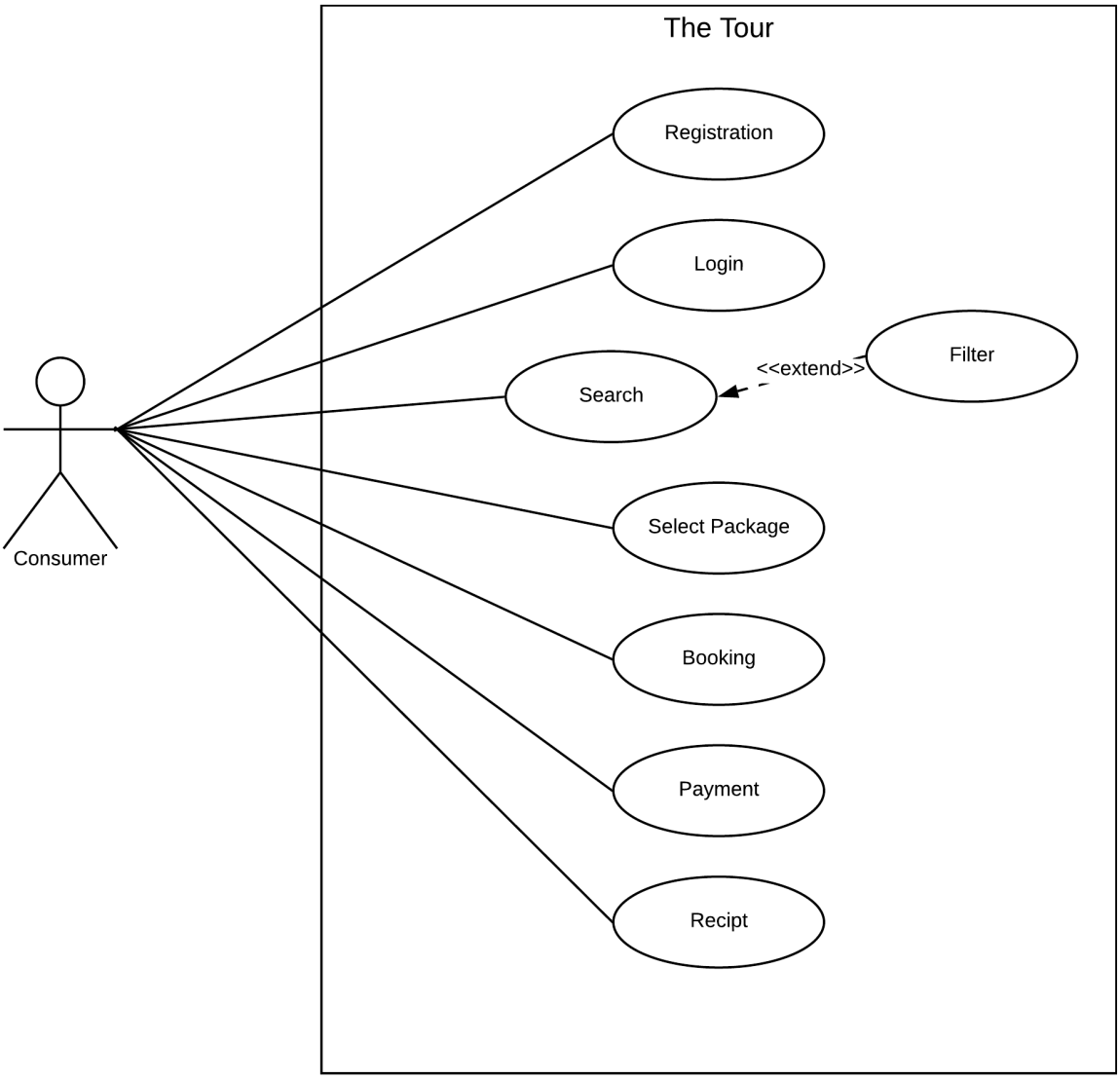
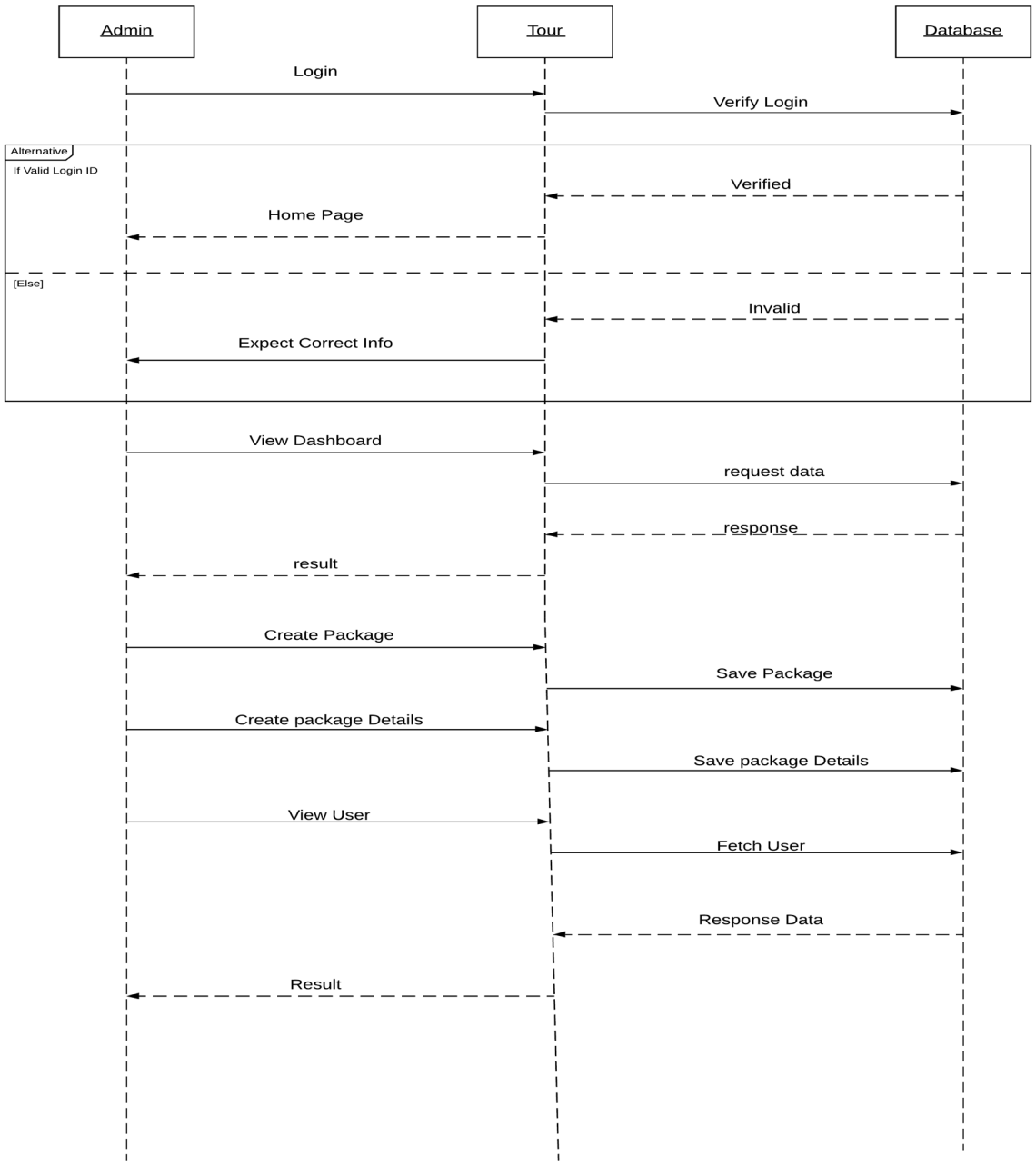
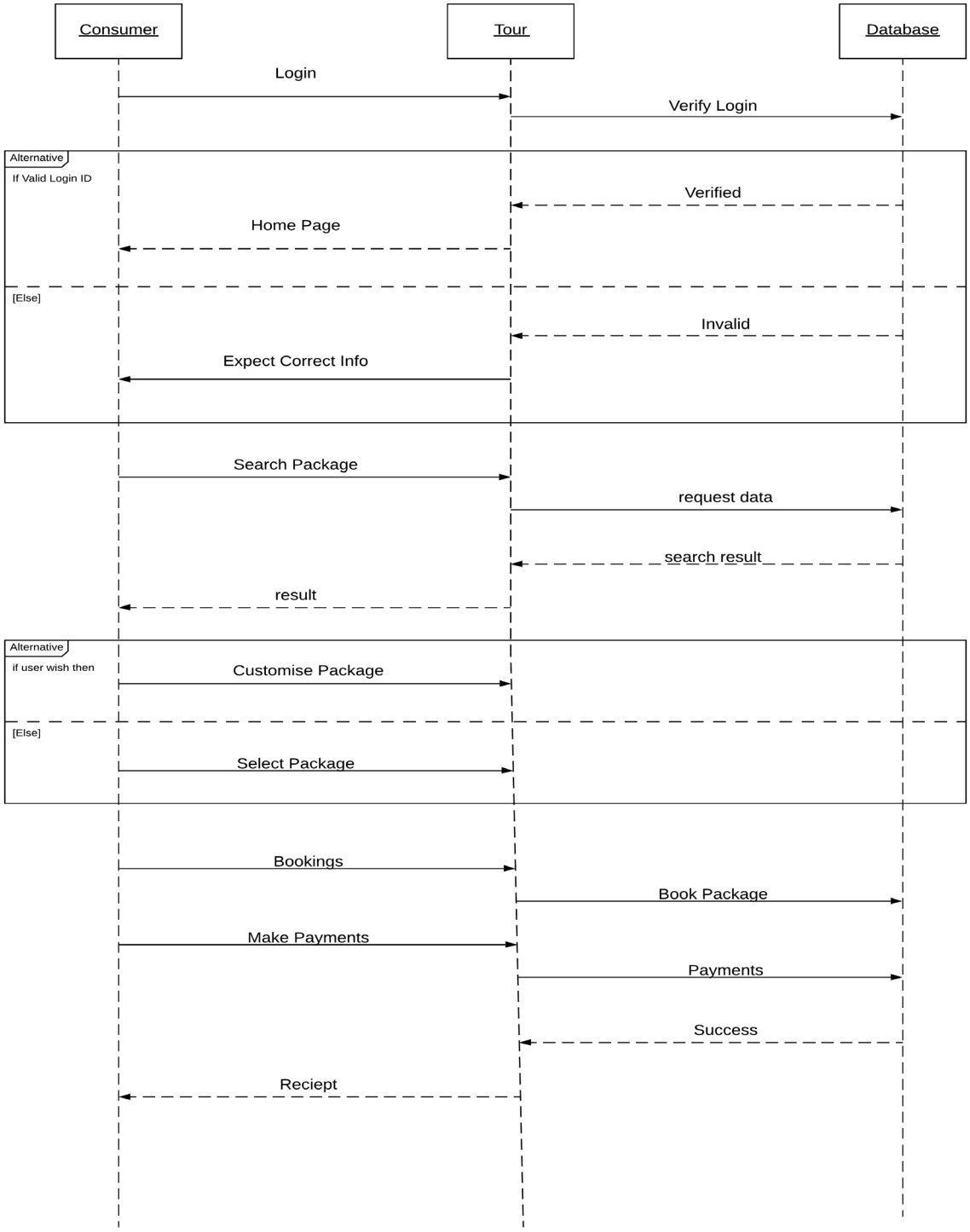

The Tour
Registration
Login
Search
<<extend>>
Filter
Select Package
Booking
Payment
Recipt
Consumer

❖ Sequence Diagram :

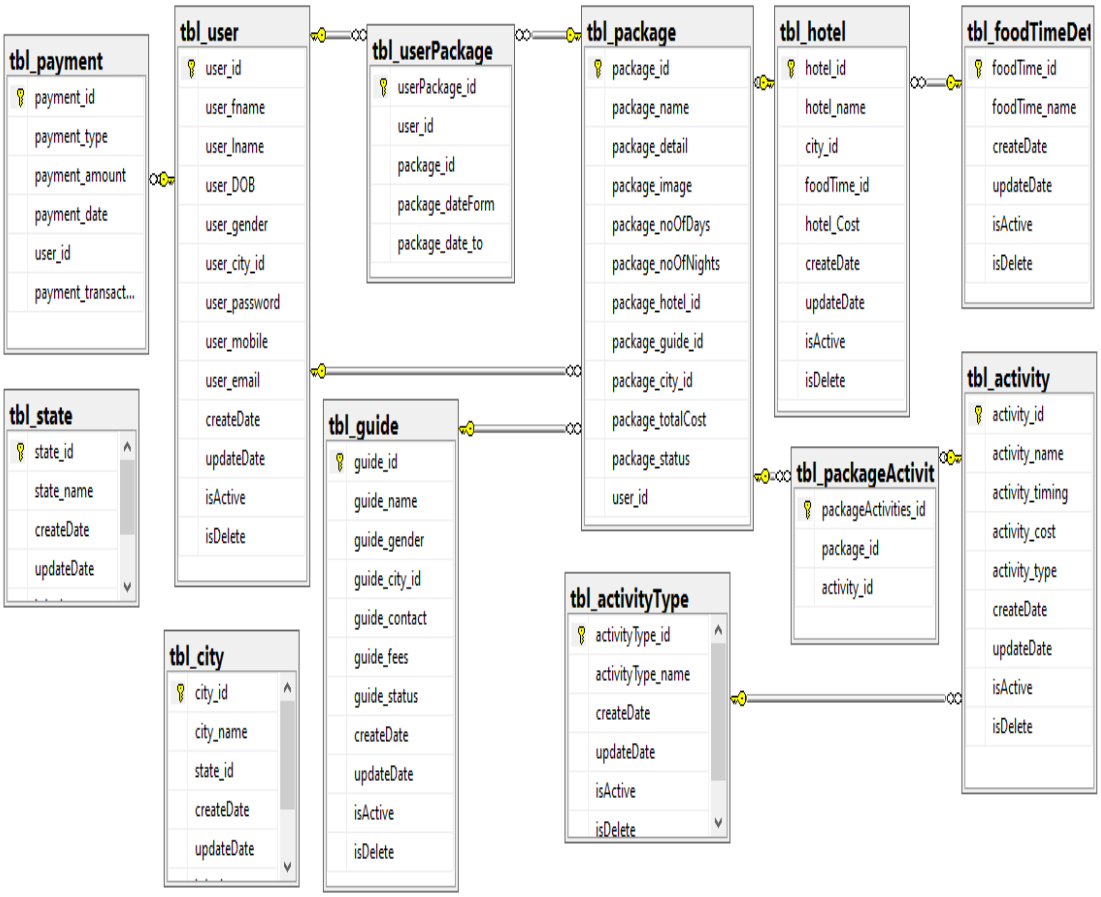
1. Admin Side:



2. Consumer Side:



❖ Relationship Diagram:



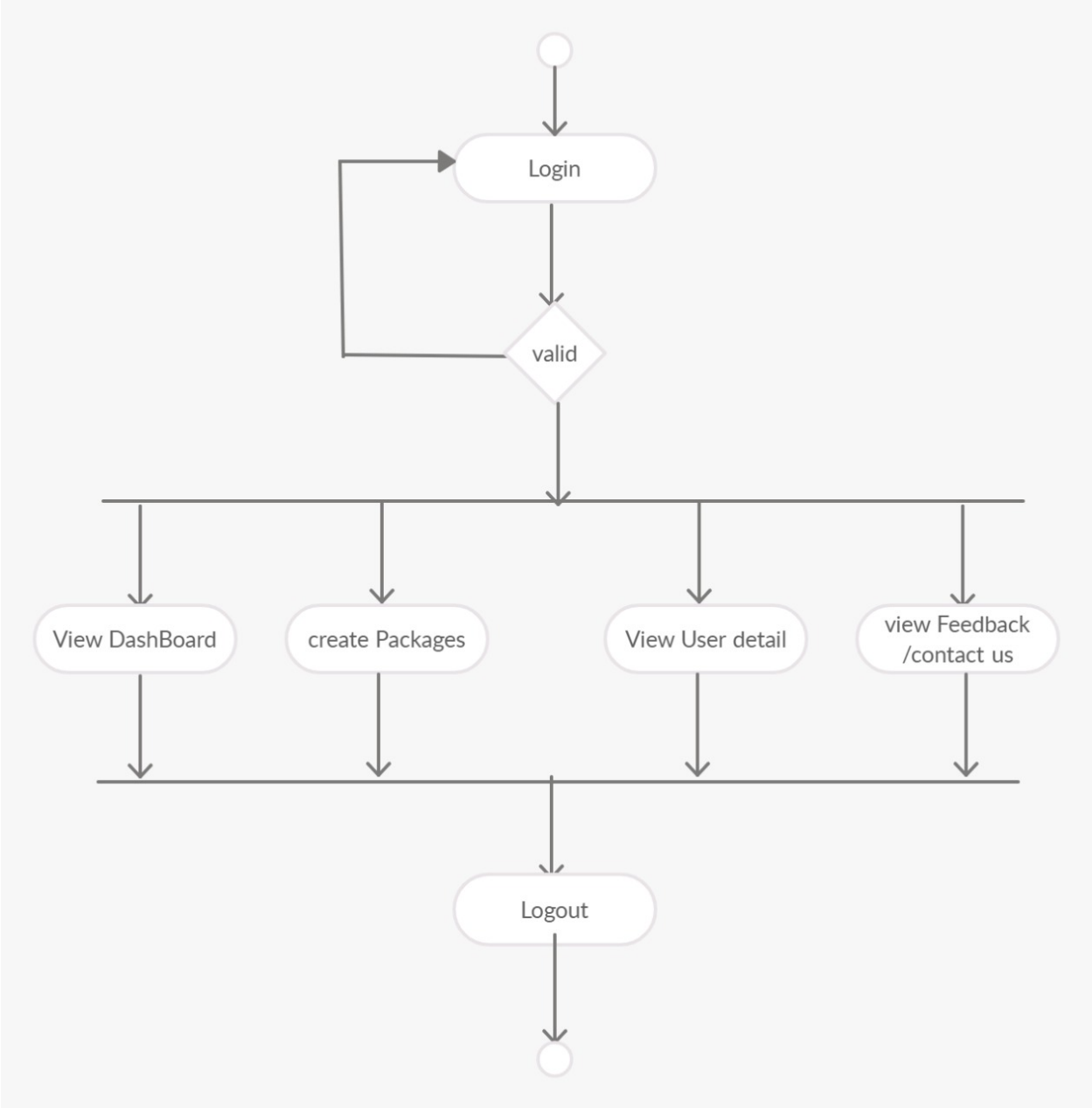
❖ **CRC:**

Attributes	**Consumer**	**Responsibility**
user_id user_fname user_DOB user_email user_mobile	Search Package View Package Detail Book Package Detail	
	Package	**Collobrstion**

Attributes	**Consumer**	**Responsibility**
package_id package_name package_detail package_image	Create Package	
	Package	**Collobrstion**

❖ **Activity Diagram:**

Admin:



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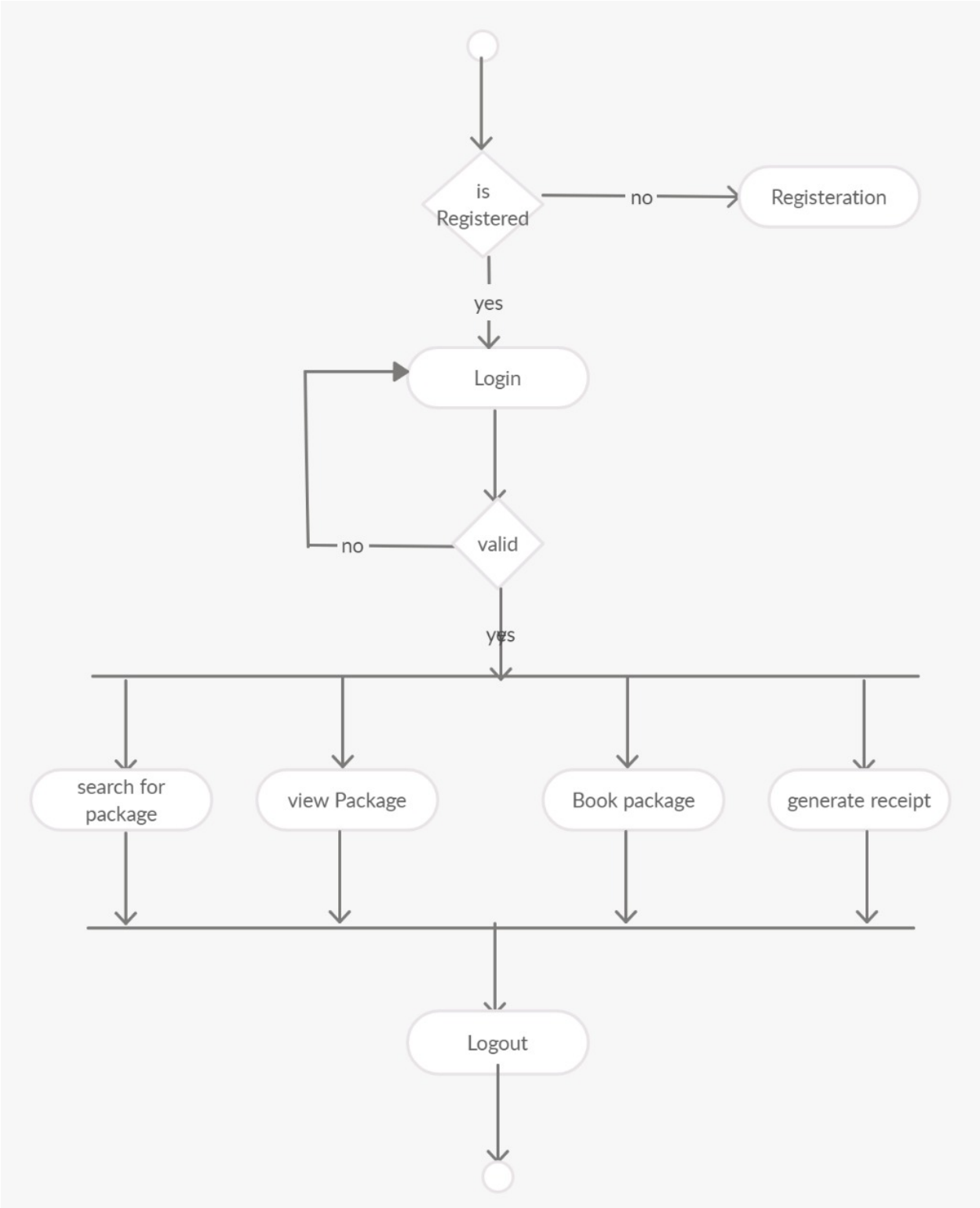

is Registered
no
Registeration
yes
Login
valid
no
yes
search for package
view Package
Book package
generate receipt
Logout

6. Software Design

6.1 Database Design

6.2 Interface Snapshot

❖ **Database Diagram :**

1. **Table Name :** tbl_foodTimeDetails

Sr.No.	Field Name	Datatype	constraint
1	foodTime_id	Int	Primary Key
2	foodTime _name	varchar(20)	
3	createDate	Datetime	
4	updateDate	Datetime	

2. **Table Name :** tbl_activityType

Sr.No.	Field Name	Datatype	Constraint
1	activityType_id	Int	Primary Key
2	activityType_name	varchar(25)	
3	createDate	Datetime	
4	updateDate	Datetime	

3. **Table Name:** tbl_state

Sr.No.	Field Name	datatype	constraint
1	state_id	int	Primary Key
2	state_name	varchar(20)	
3	createDate	datetime	
4	updateDate	datetime	

4. **Table Name:** tbl_city

Sr.No.	Field Name	Datatype	constraint
1	city_id	int	Primary Key
2	city_name	varchar(30)	
3	state_id	int	Foreign Key
4	createDate	datetime	
5	updateDate	datetime	

5. **Table Name:** tbl_activity

Sr.No.	Field Name	Datatype	constraint
1	activity_id	int	Primary Key
2	activity_name	varchar(25)	
3	activity_timing	time(7)	
4	activity_cost	money	
5	activity_type	int	Foreign Key
6	createDate	datetime	
7	updateDate	datetime	

6. **Table Name:** tbl_user

Sr.No.	Field Name	Datatype	constraint
1	user_id	int	Primary Key
2	user_fname	varchar(25)	
3	user_lname	varchar(25)	
4	user_DOB	date	
5	user_gender	char(1)	
6	user_city_id	int	Foreign Key
7	user_password	varchar(25)	
8	user_mobile	varchar(10)	
9	user_email	varchar(30)	
10	createDate	datetime	
11	updateDate	datetime	
13	usertype	int	

7. **Table Name:** tbl_hotel

Sr.No.	Field Name	Datatype	constraint
1	hotel _id	int	Primary Key
2	hotel_name	varchar(50)	
3	city_id	int	Foreign Key
4	foodTime_id	int	Foreign Key
5	hotel_Cost	money	
6	createDate	datetime	
7	updateDate	datetime	

8. **Table Name:** tbl_guide

Sr.No.	Field Name	Datatype	constraint
1	guide_id	int	Primary Key
2	guide_name	varchar(50)	
3	guide_gender	char(1)	
4	guide_city_id	int	Foreign Key
5	guide_contact	varchar(10)	
6	guide_fees	money	
7	guide_status	bit	
8	createDate	datetime	
9	updateDate	datetime	

9. **Table Name:** tbl_package

Sr.No.	Field Name	Datatype	constraint
1	package_id	int	Primary Key
2	package_name	varchar(60)	
3	package_detail	varchar(100)	
4	package_image	text	
5	package_noOfDays	int	
6	package_noOfNights	int	
7	package_hotel_id	int	
8	package_guide_id	int	
9	package_city_id	int	
10	package_totalCost	money	
11	package_status	bit	
12	user_id	int	
13	createDate	datetime	

14	updateDate	datetime	

10. Table Name: tbl_userPackage

Sr.No.	Field Name	Datatype	constraint
1	userPackage _id	int	Primary Key
2	user_id	int	Foreign Key
3	package_id	int	Foreign Key
4	Package_dateFrom	date	
5	Package_dateTo	date	
6	createDate	datetime	
7	updateDate	datetime	

11. Table Name: tbl_packageActivities

Sr.No.	Field Name	Datatype	constraint
1	packageActivities_id	int	Primary Key
2	package_id	int	Foreign Key
3	activity_id	int	Foreign Key
4	createDate	datetime	
5	updateDate	datetime	

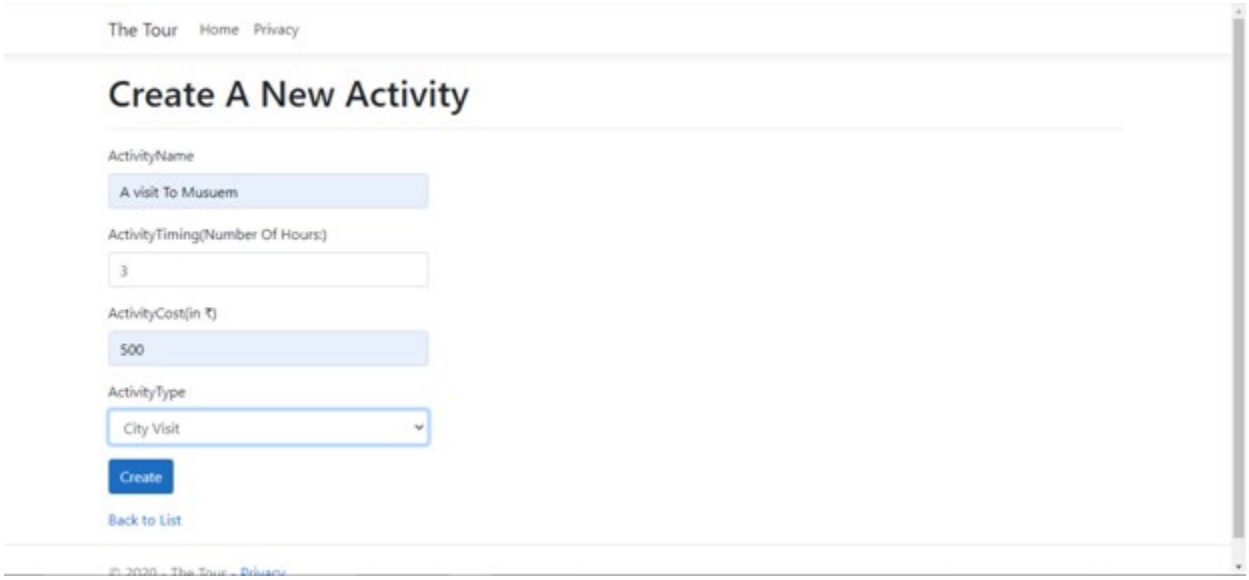
12. Table Name: tbl_payment

Sr.No.	Field Name	Datatype	constraint
1	Payment_id	int	Primary Key
2	payment_type	varchar(10)	
3	payment_amount	money	
4	payment_date	date	

5	user_id	int	Foreign Key
6	payment_transaction_id	varchar(30)	

❖ CRUD on Activity Table:-

✓ Create Activity Page:-



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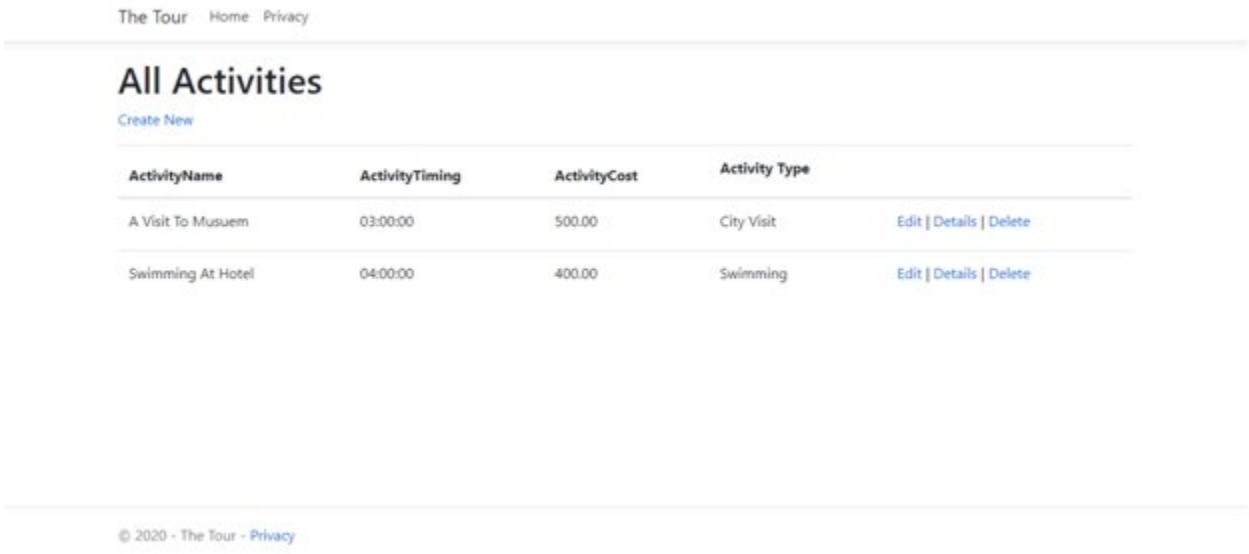

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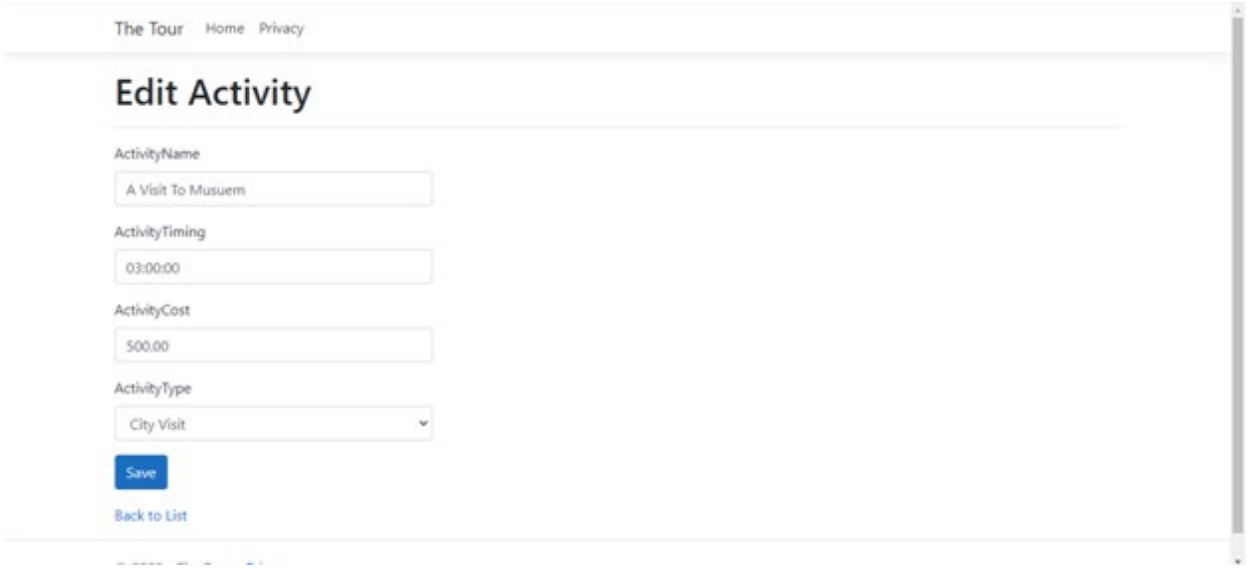

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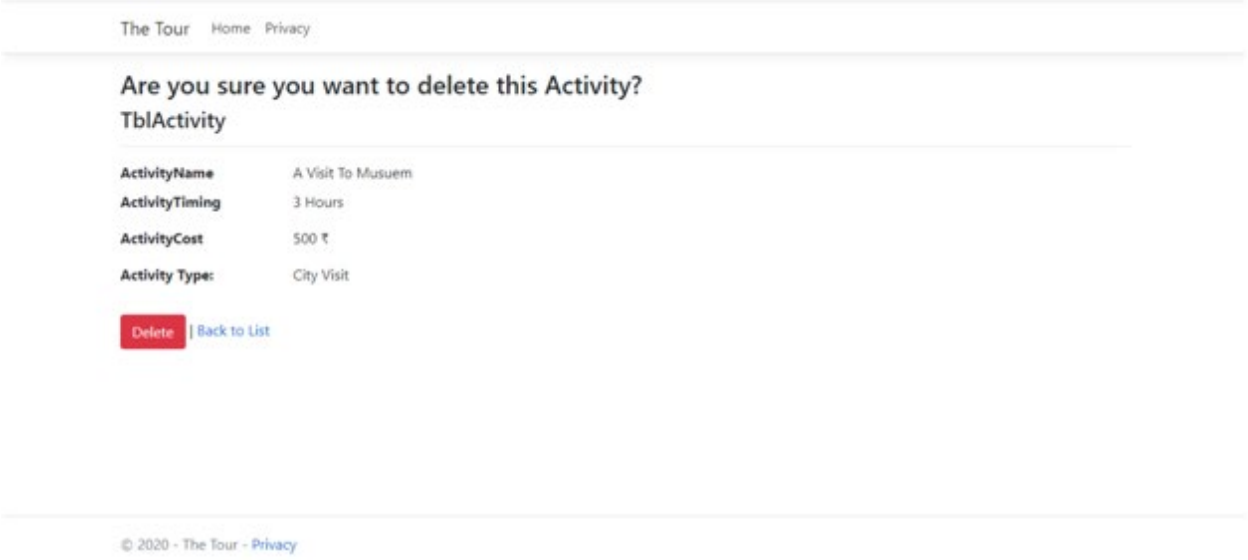

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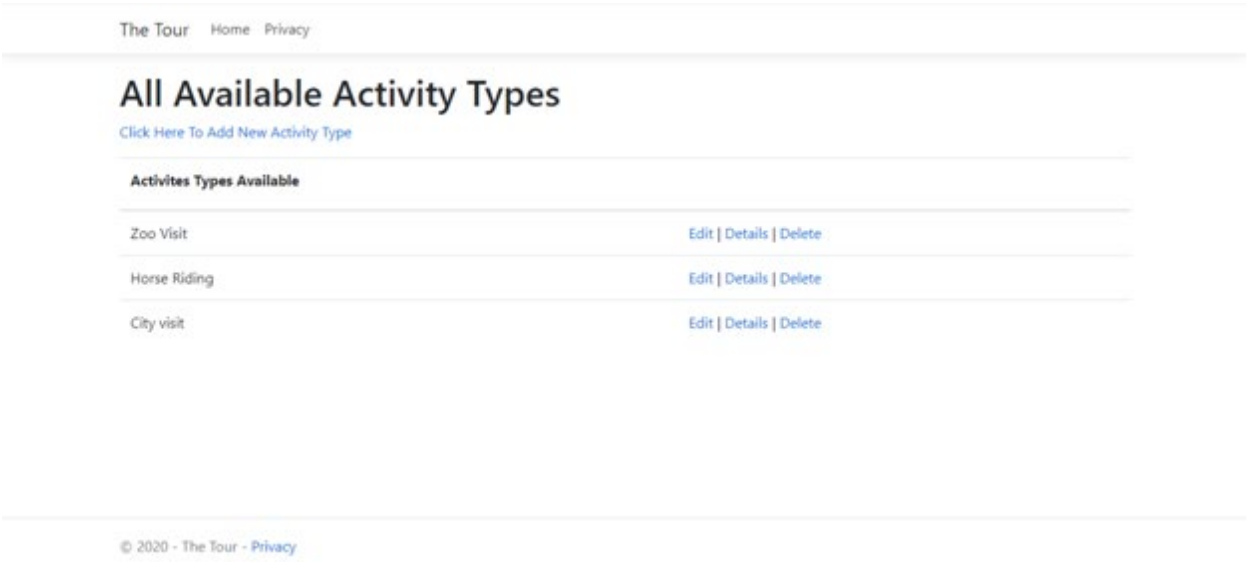

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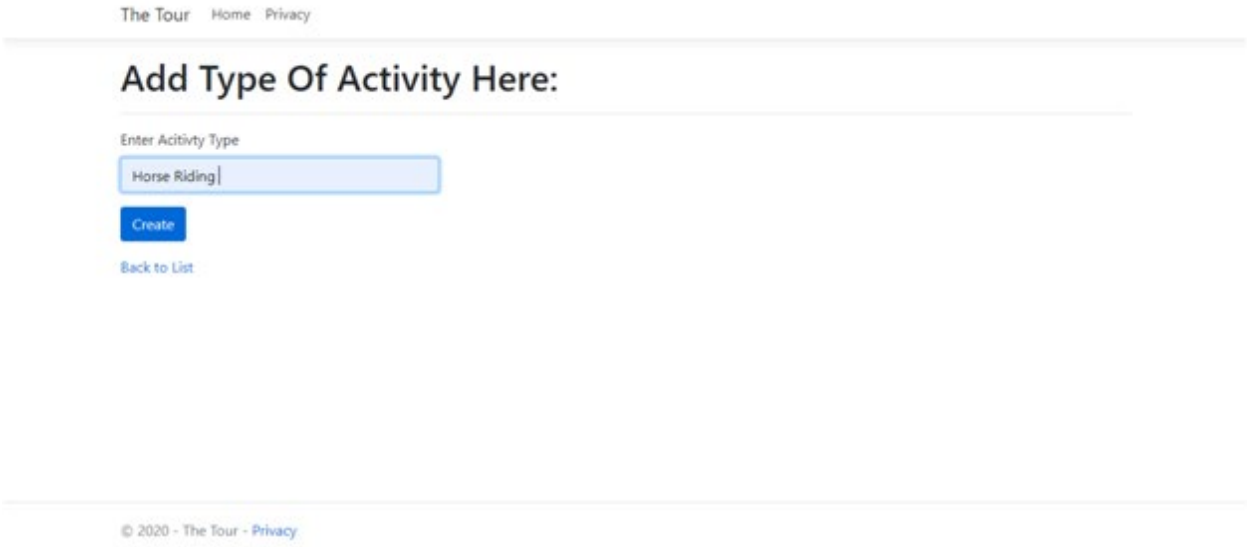

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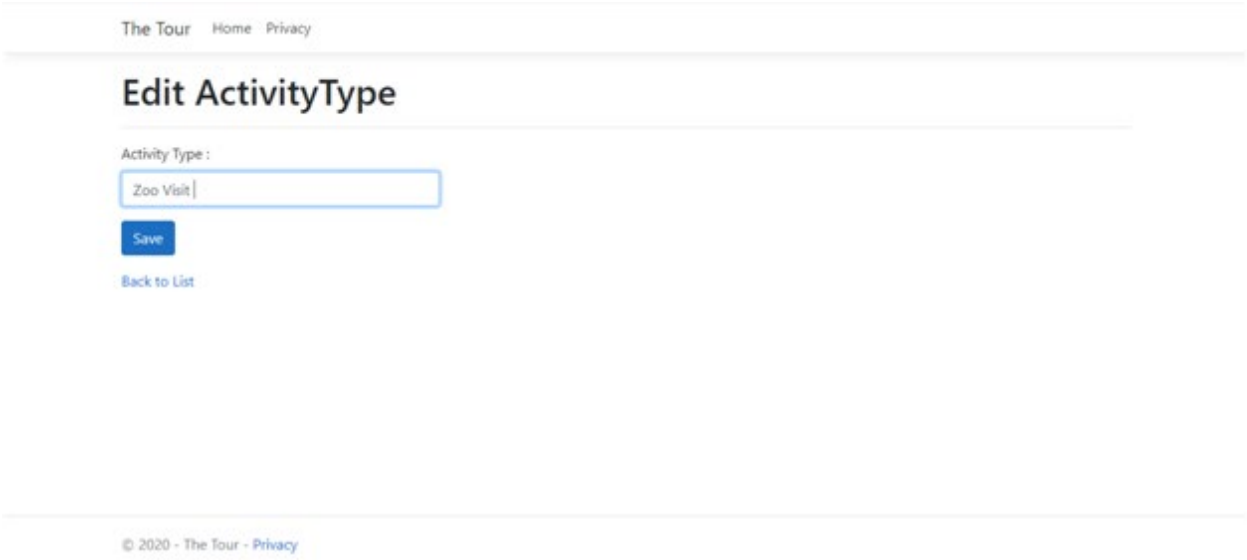

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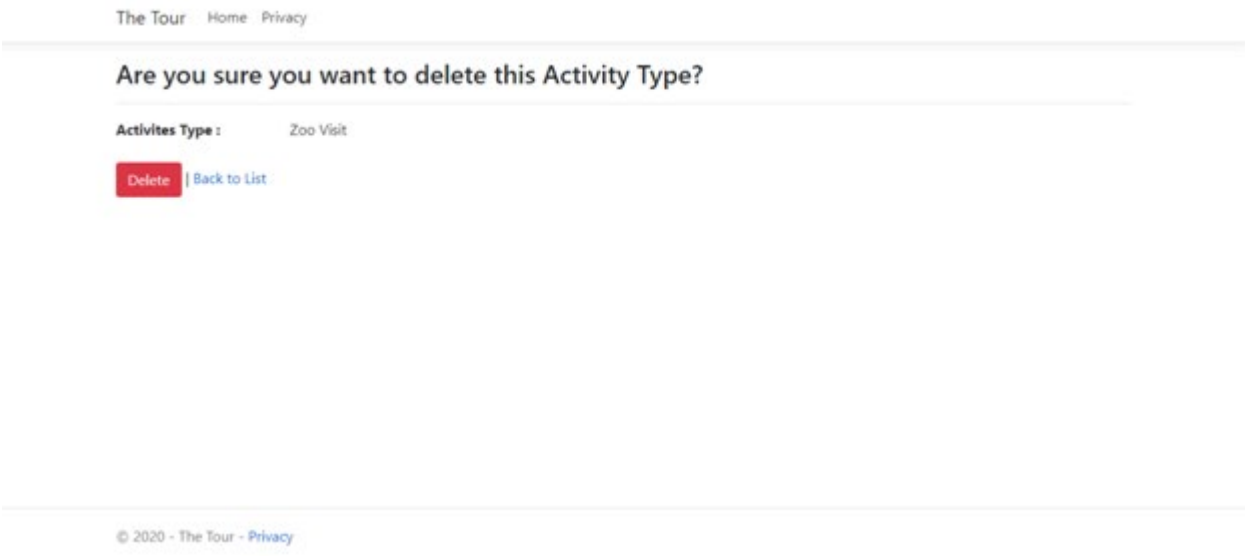

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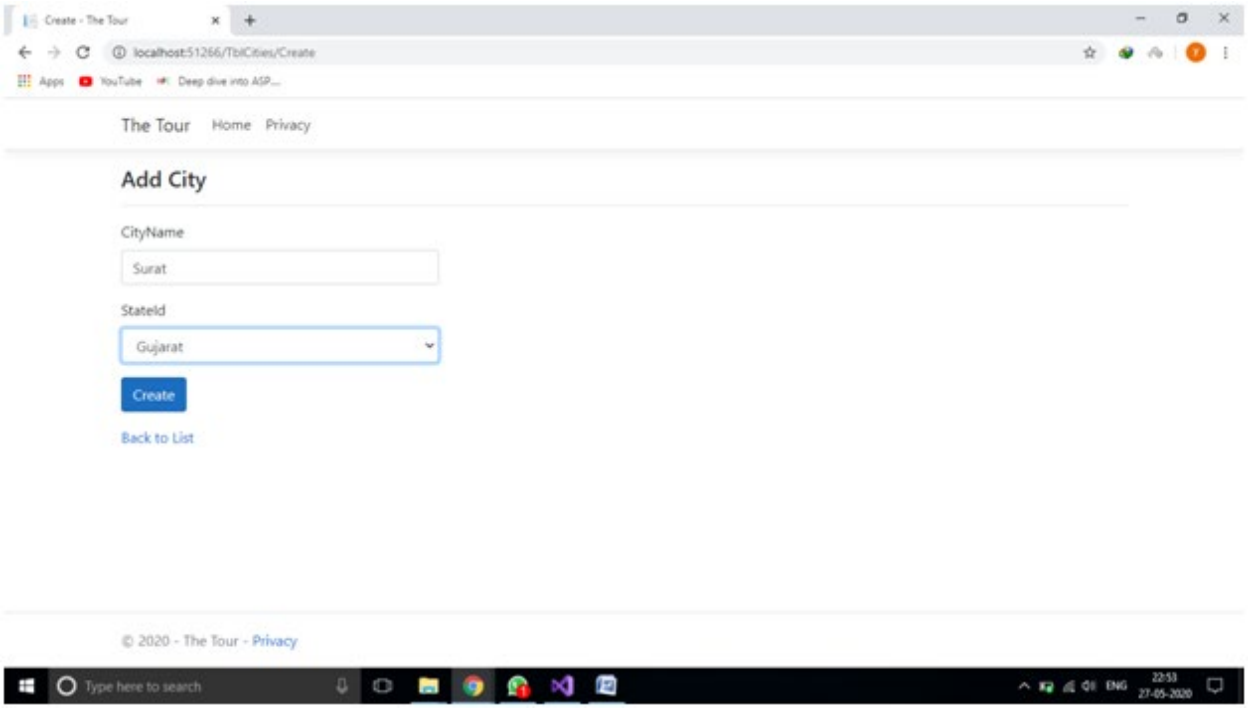

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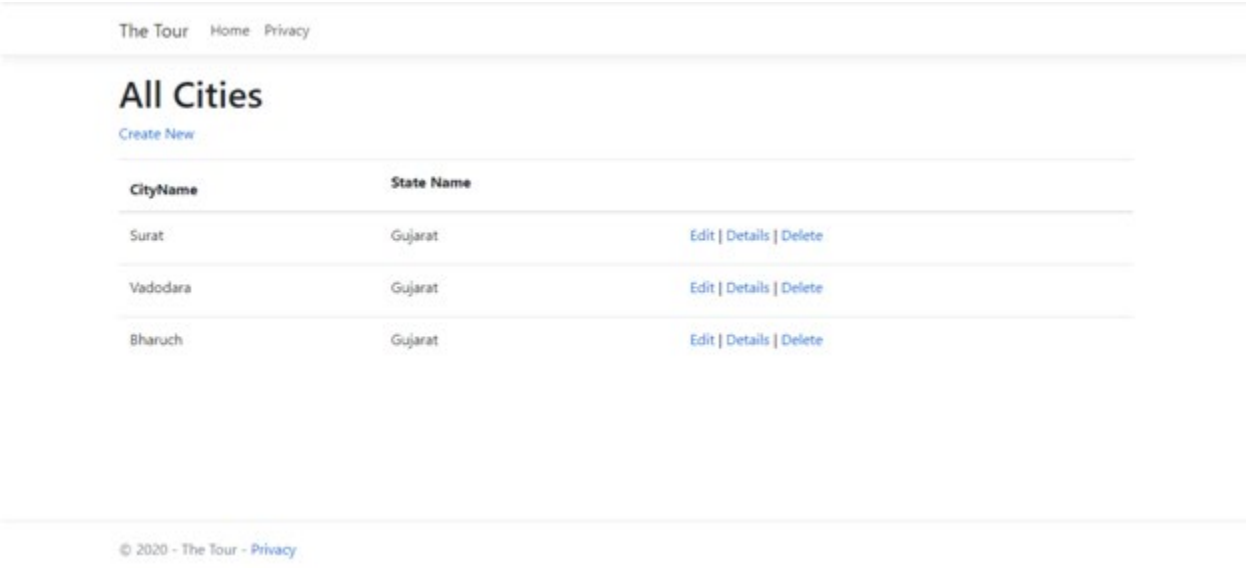

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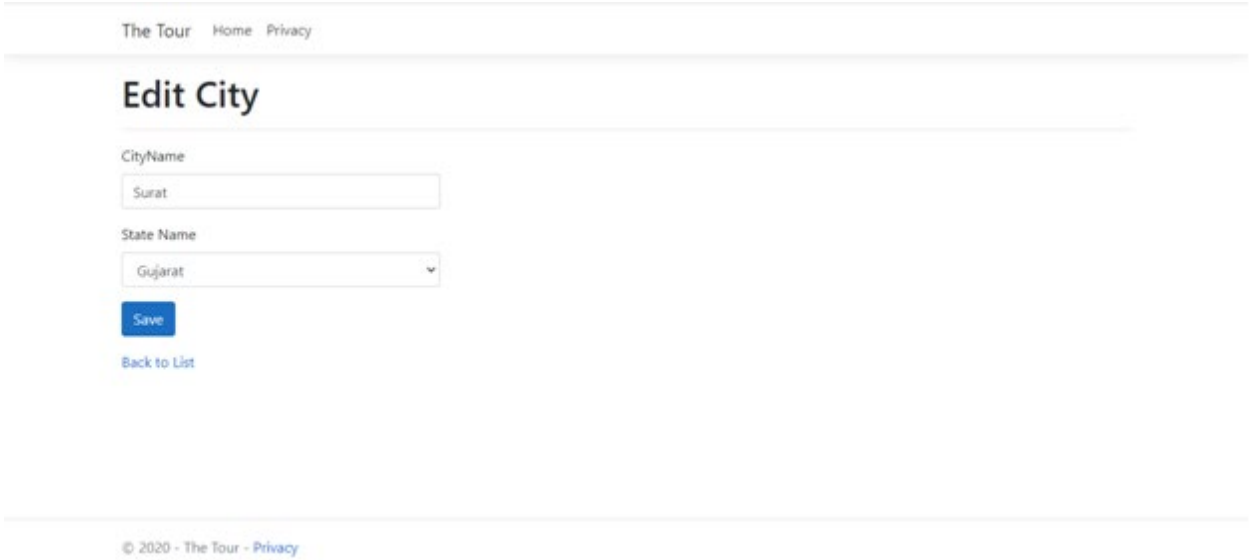

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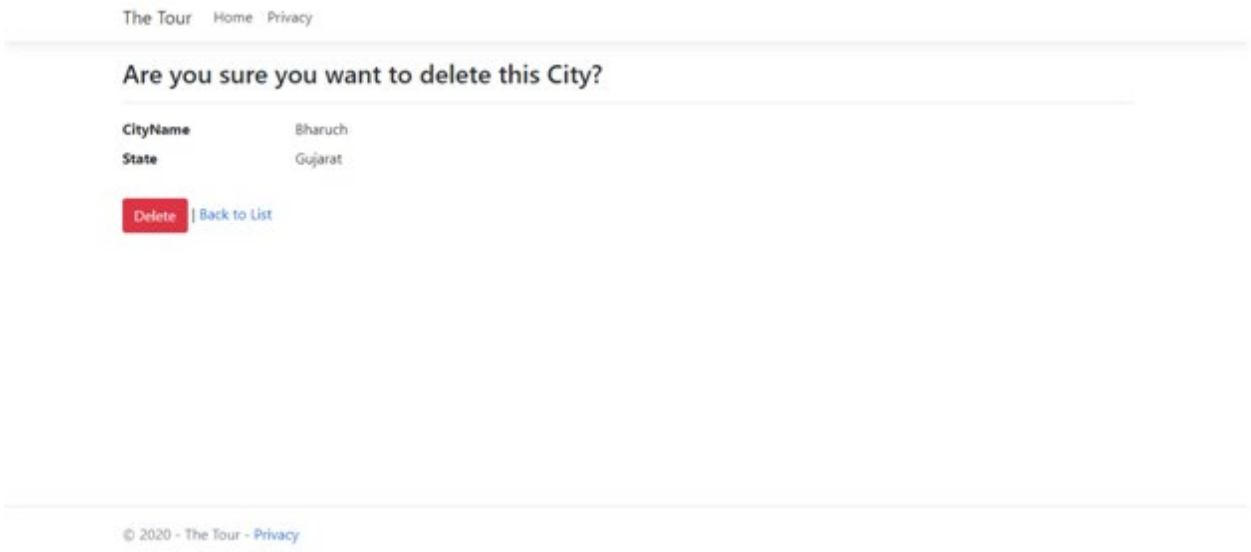

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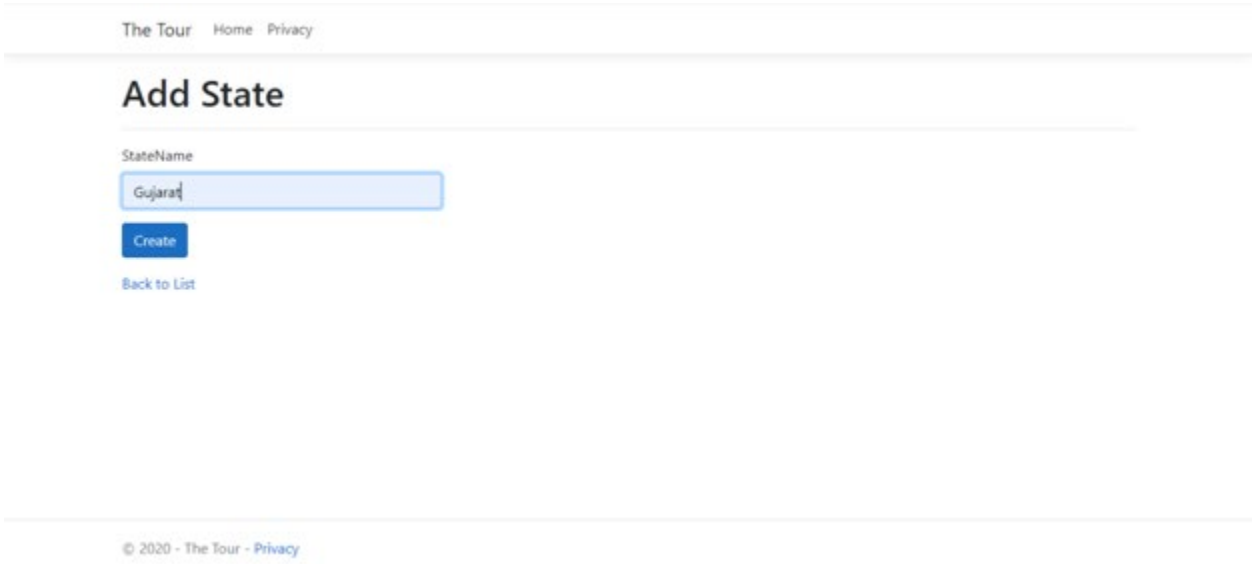

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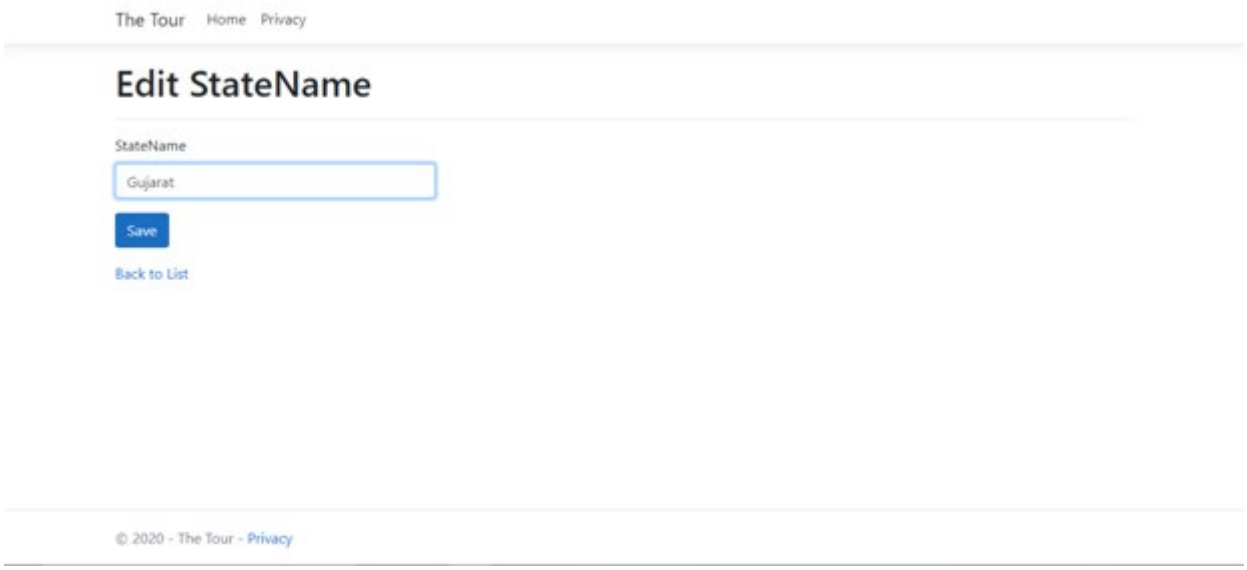

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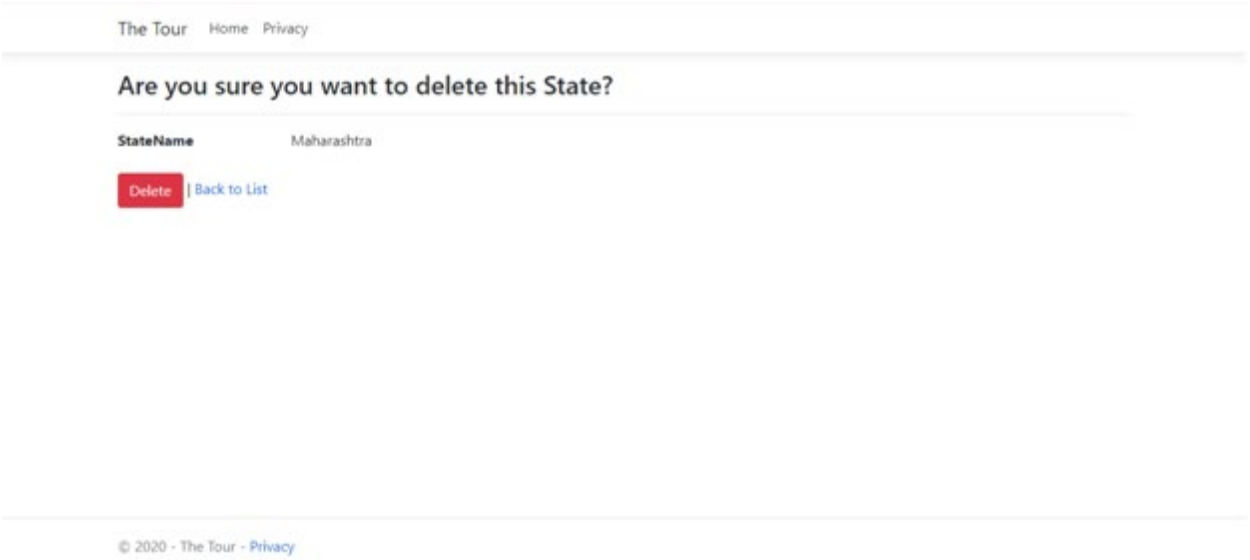

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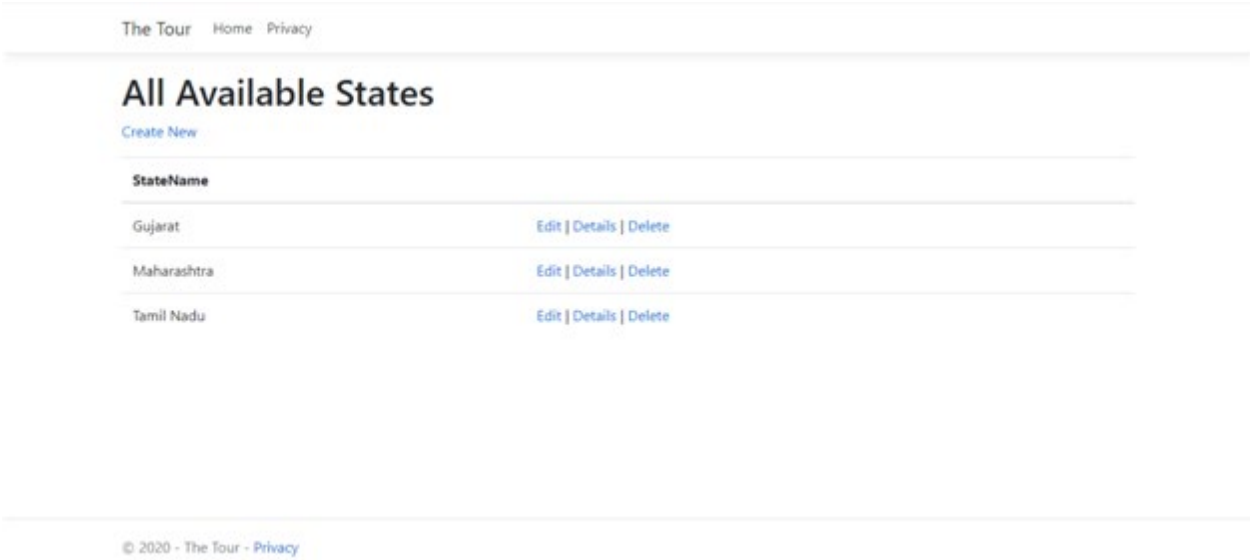

❖ CRUD on Guide Table:-

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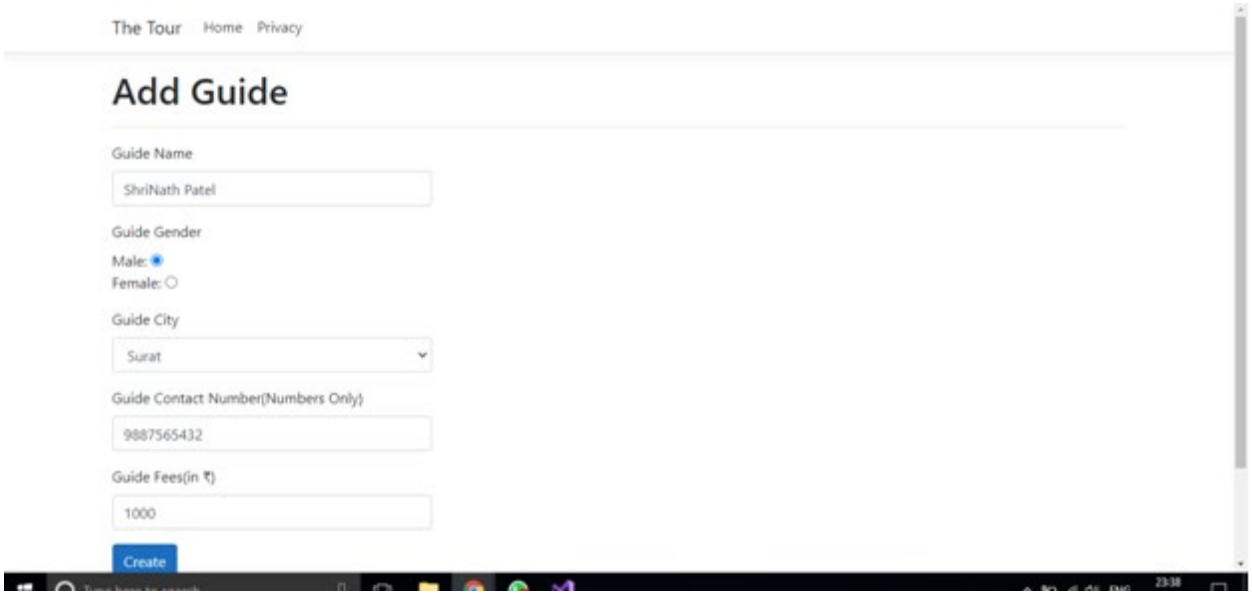

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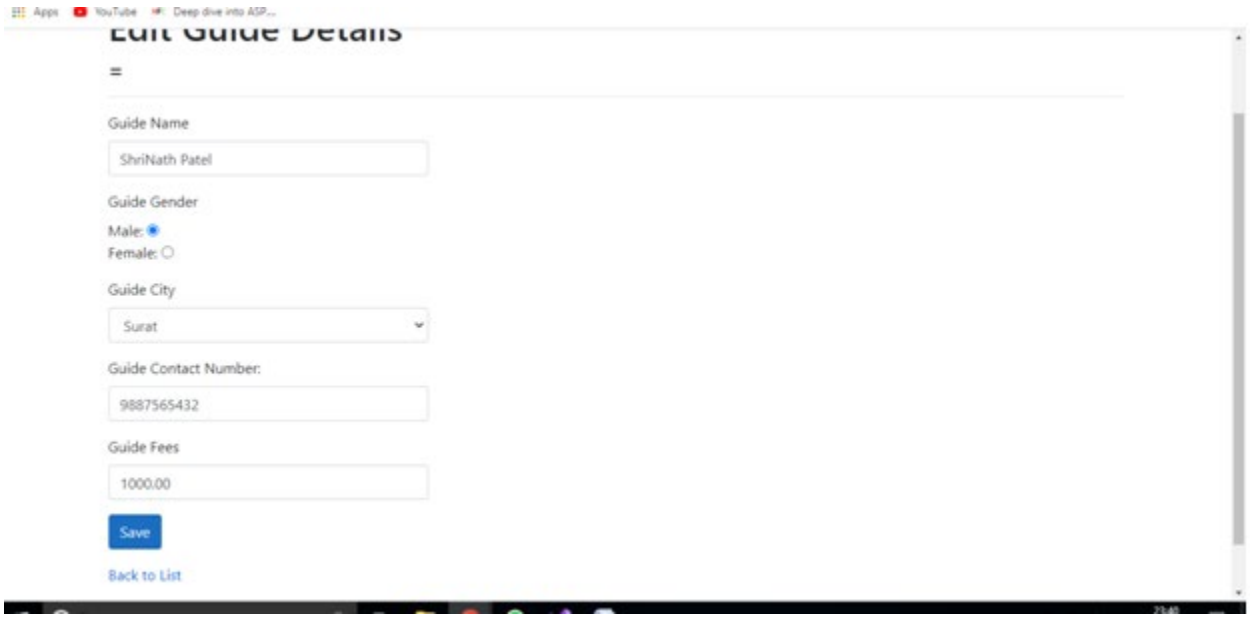
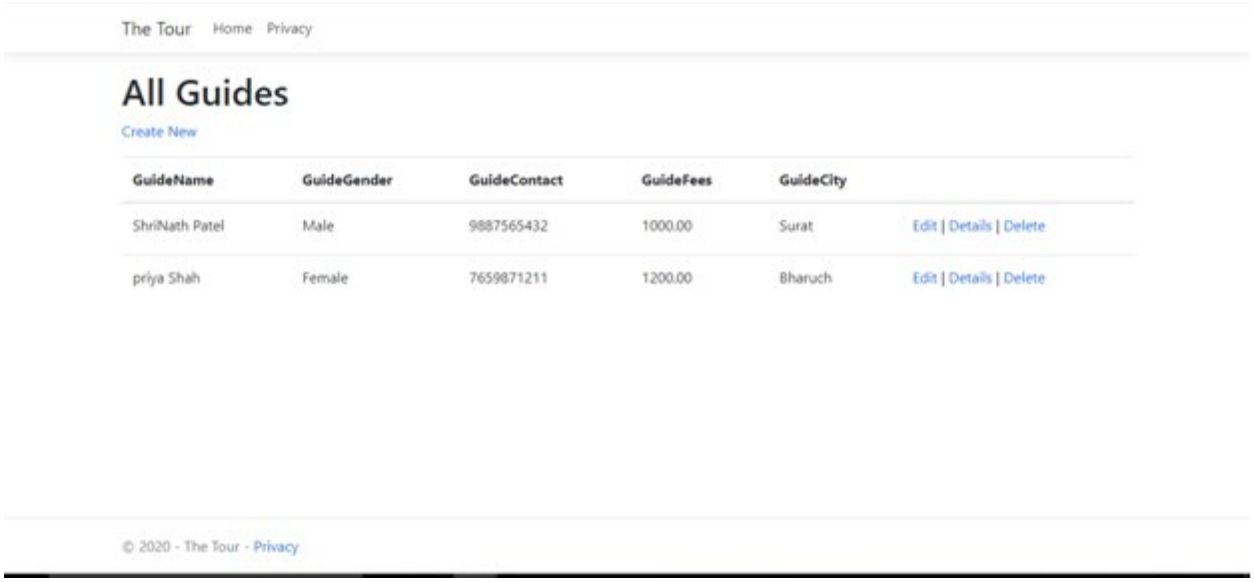
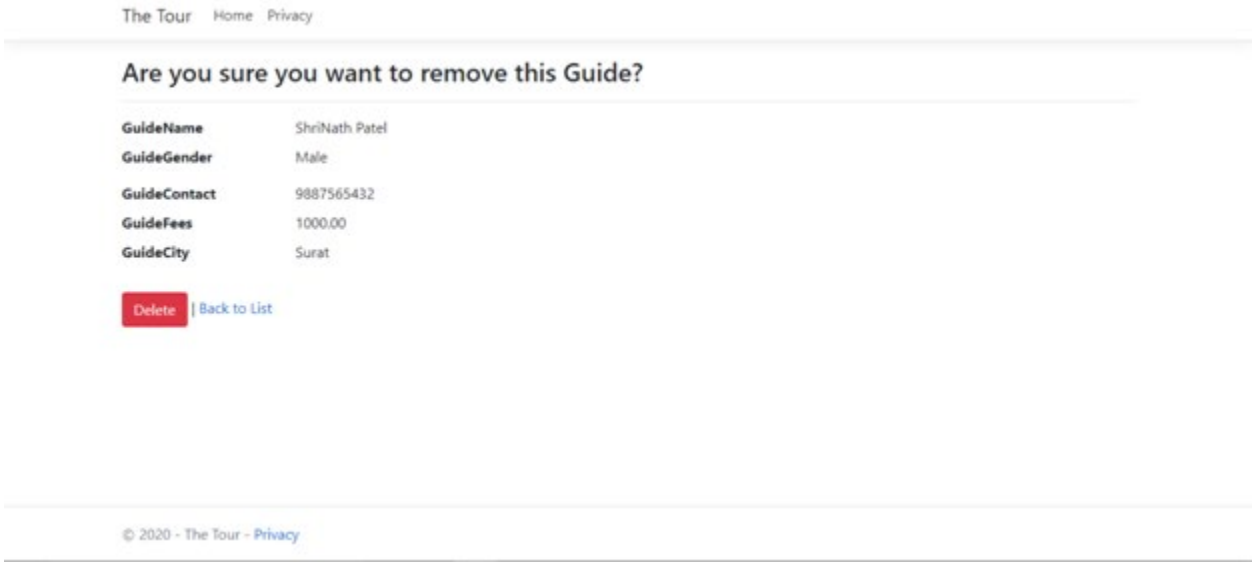


✓ **Display Guide Page:-**

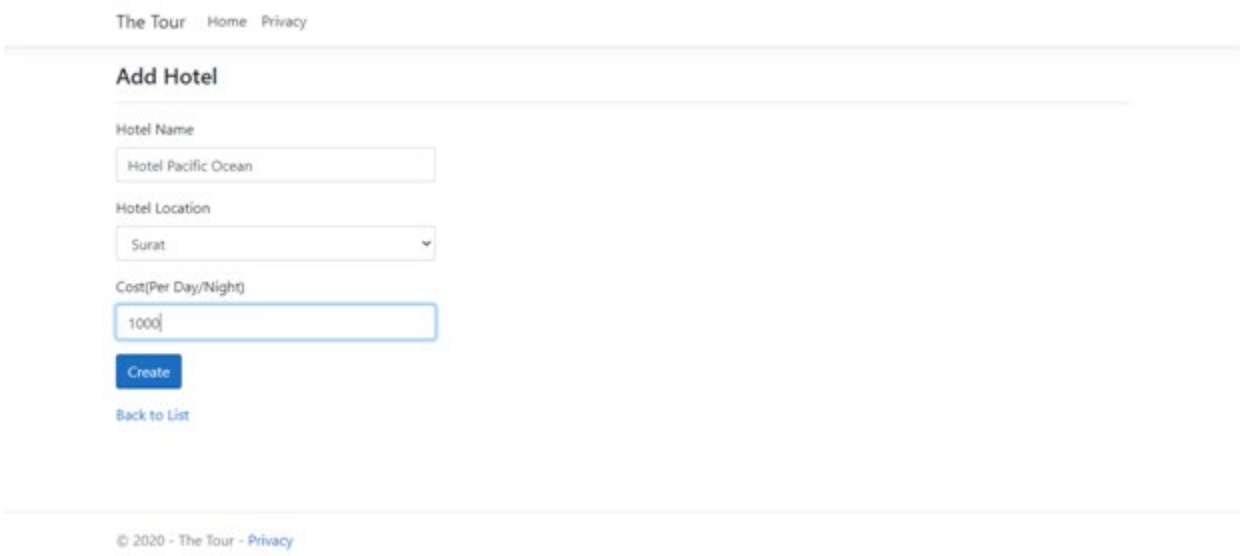


✓ **Delete Guide Page:-**

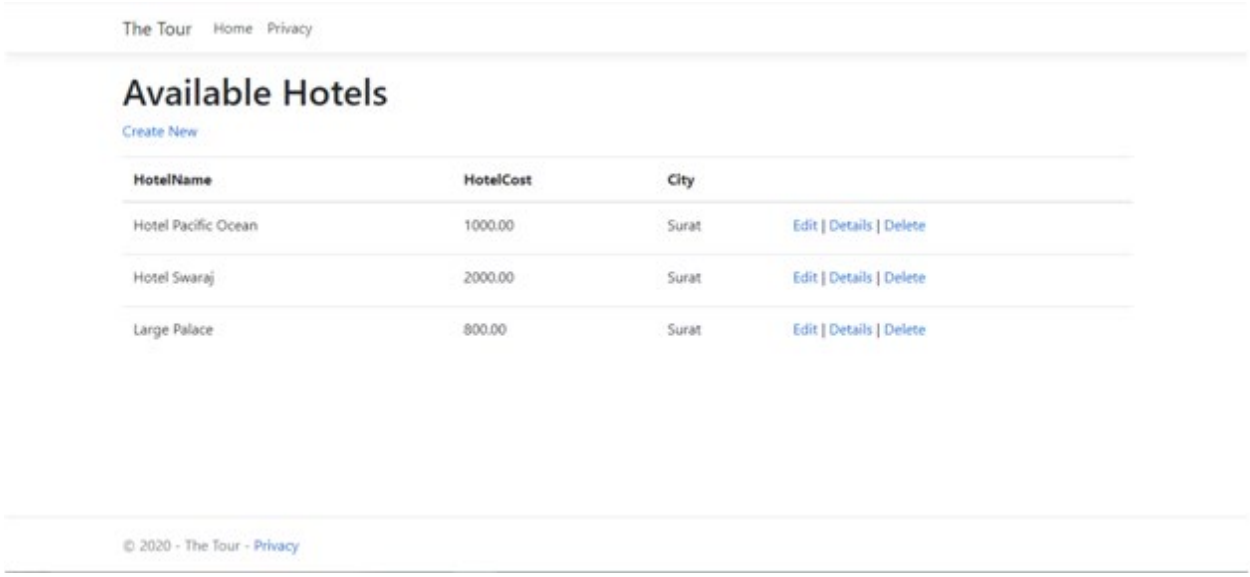


❖ CRUD on Hotel Table:-

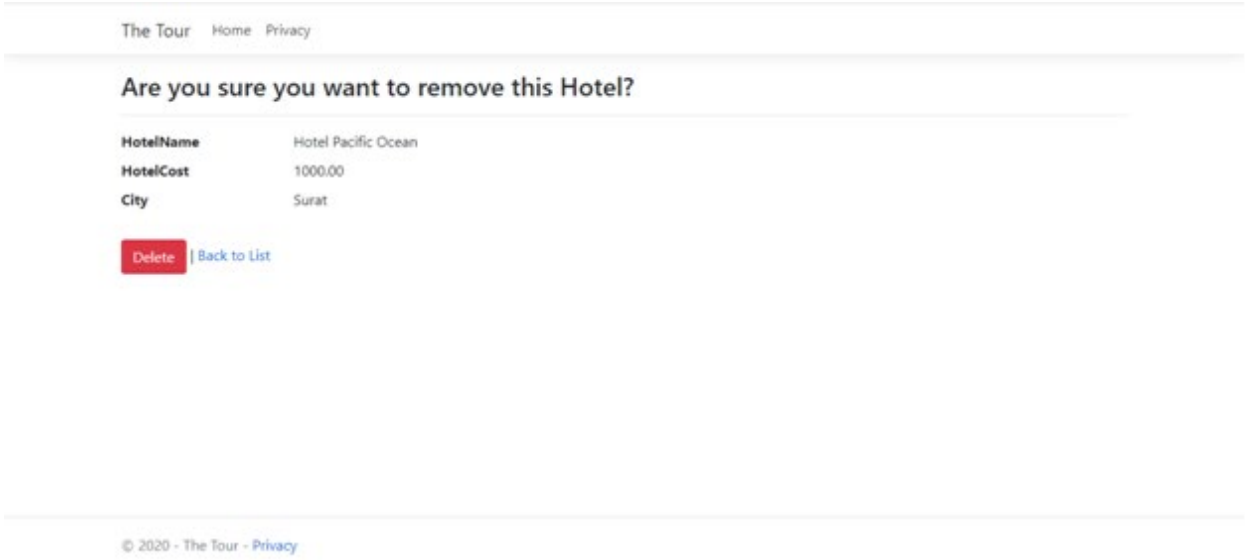
✓ Add Hotel Page:-



✓ Display Hotel Page:-

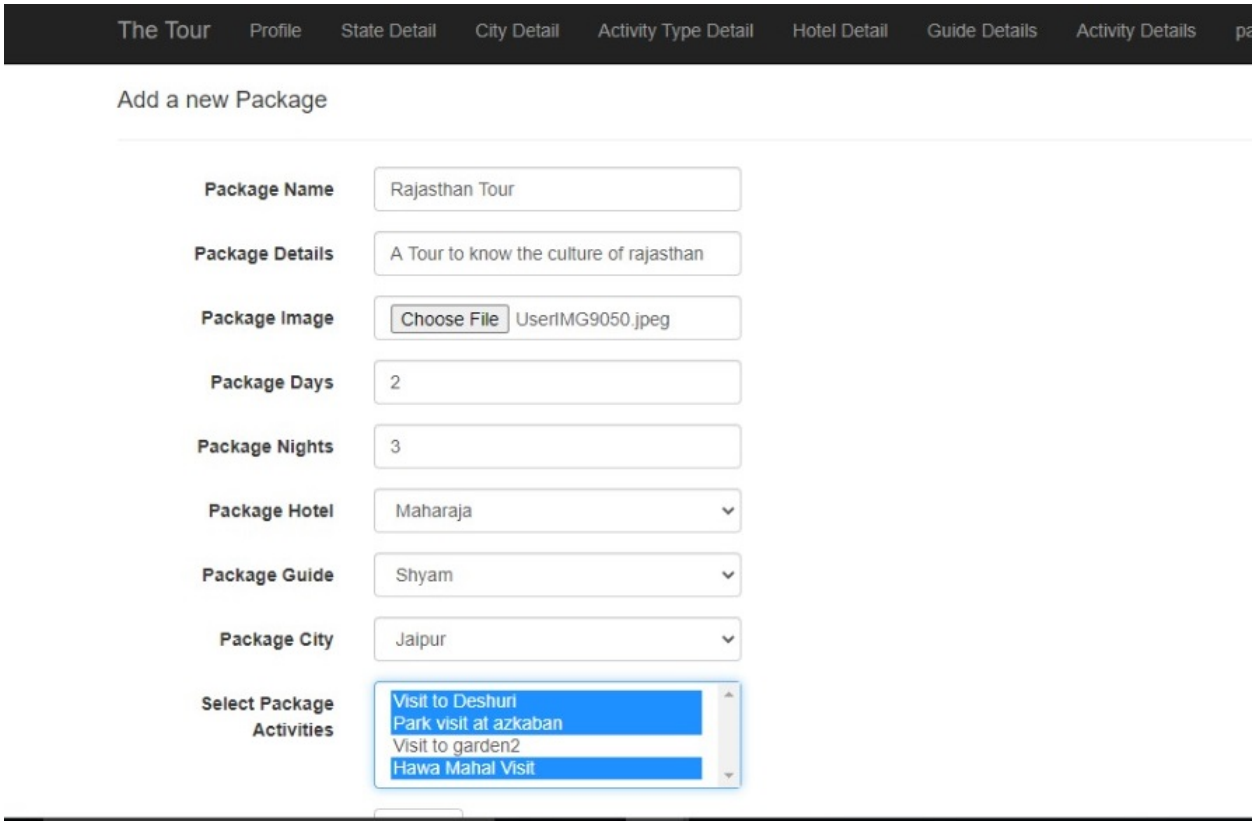


- ✓ **Delete Hotel Page:-**

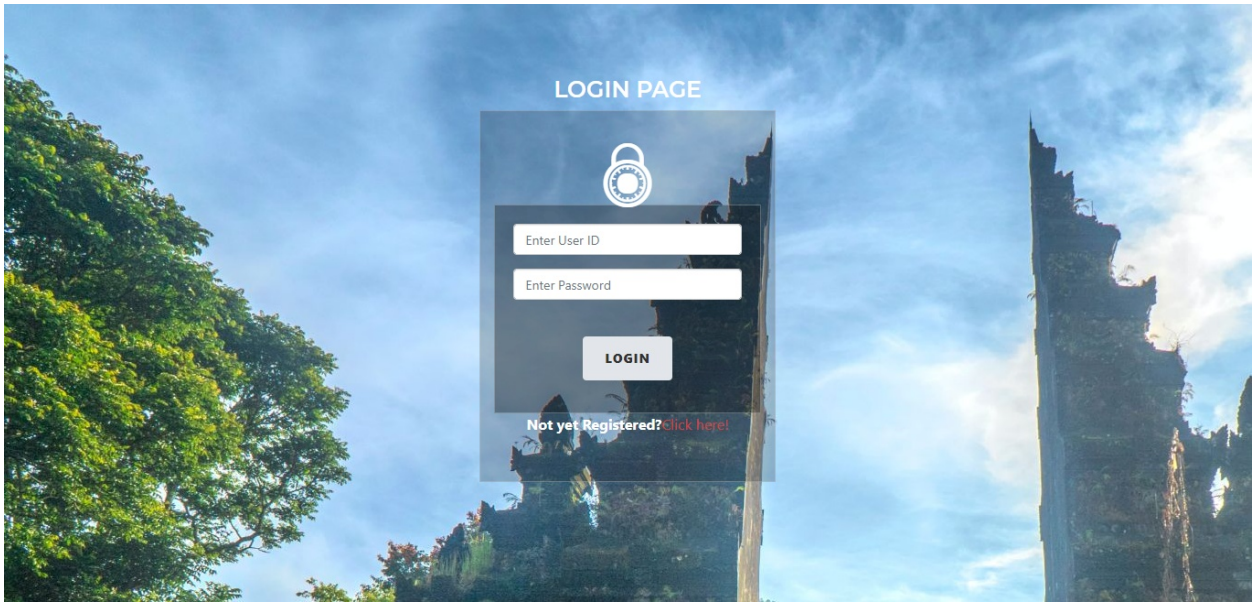


❖ CRUD on Activity Type Table:-

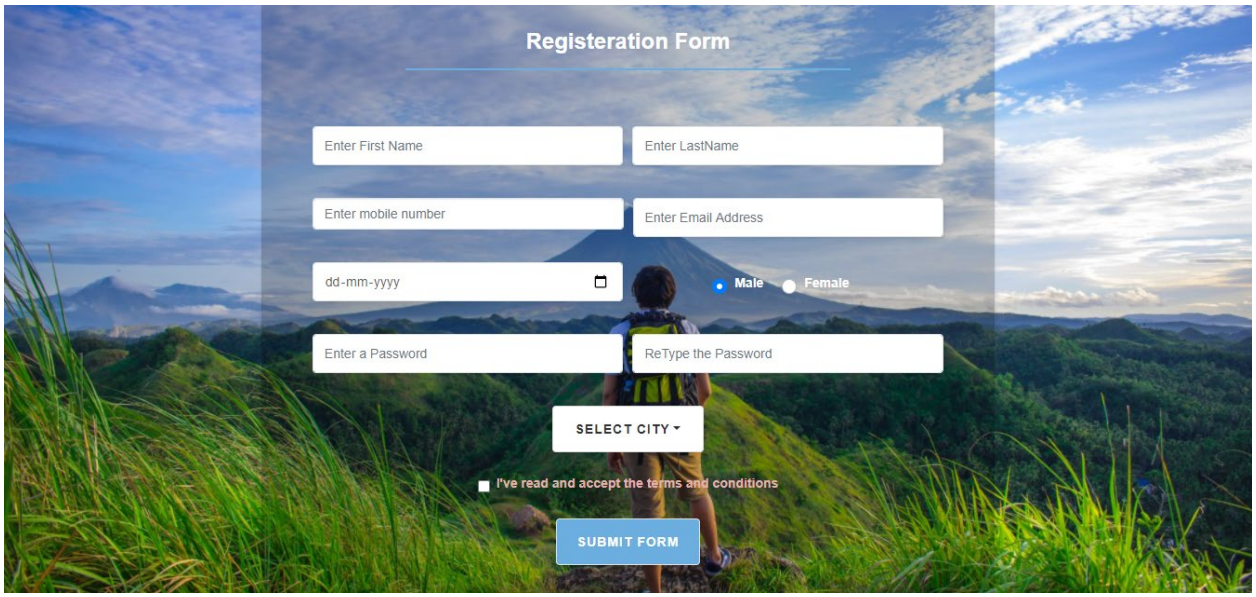
✓ Create Package Page:-



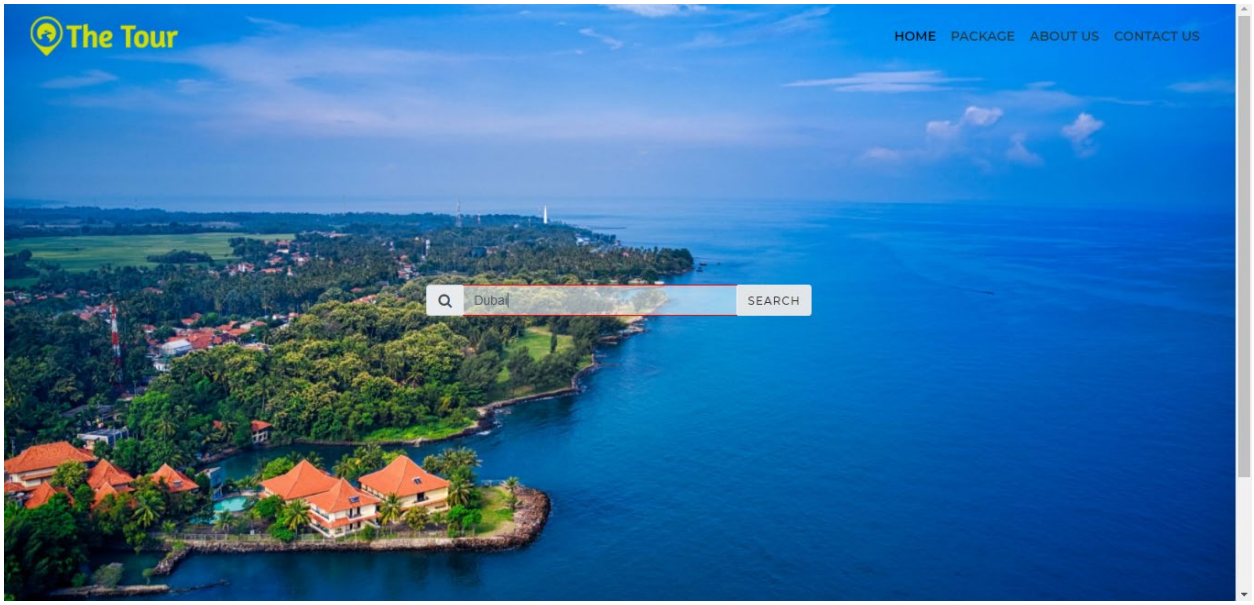
- Login Page:-



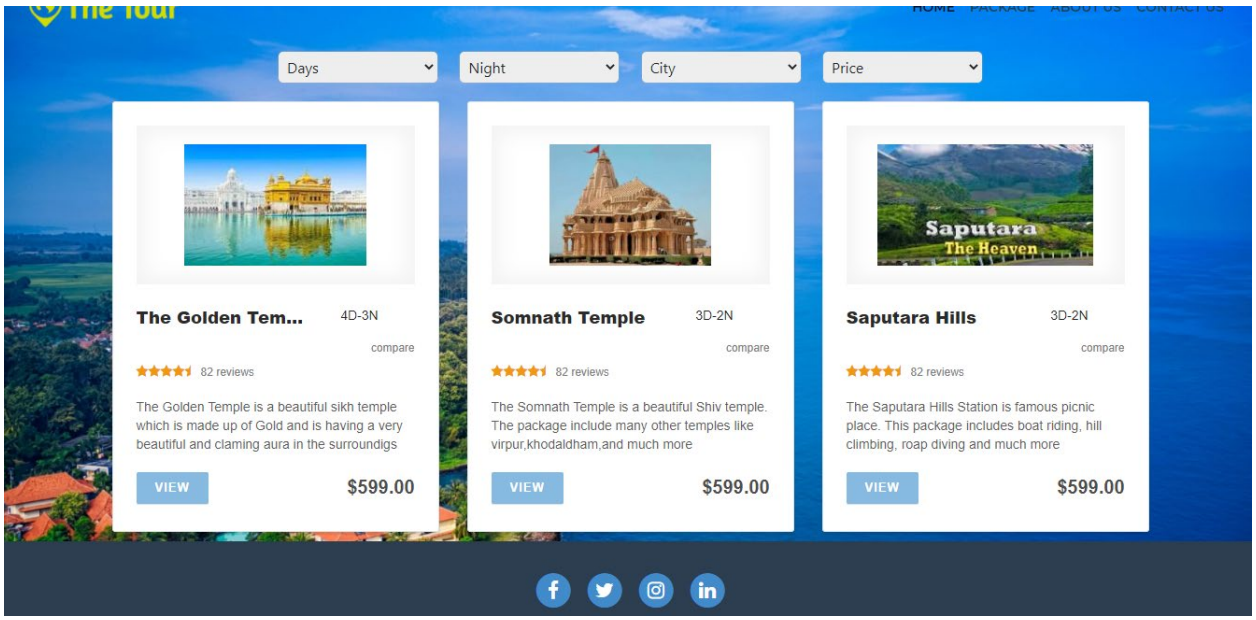
- Registration Page:-



- Home Page:-



- Package List Page:-



7. Testing Principles and Methods

7.1 Unit Testing

7.2 Integration Testing

7.3 Test Cases

❖ **Unit Testing:**

The primary goal of units testing is to take the smallest piece of testable software in the application, isolate it from the reminder of the code, and determine whether it behaves exactly as you except.

Each unit was tested separately before integration them into module to test the interface between modules. For that prepare case.

It allow for automation of the testing process, reduces difficulties of error contained in more complex paces of the application, the test coverage is often enhanced because attention is giving to each unit.

❖ **Integration Testing:**

Integration testing is logical extension of unit testing. Integrations testing takes as its input module that have been checked out by unit testing, group them in larger aggregates, applies testes define in an integration test plan to those aggregates, and deliver as its output the integrated system ready for system testing. Integration testing is done for checking whether all modules are worked properly or not after integrations.

Purpose of integration testing is to verify functional, performance and reliability requirement placed on major design items.

❖ Test Cases:

- Login Page Testing:

Sr. No.	Input Field	Input Value	Valid/Invalid	For Valid Value	For Invalid Value
1.	Email ID	Email ID	Valid	No Error	
		Other Text	Invalid	Error	Error message will be shown.
		NULL	Invalid	Error	Error message will be shown.
2.	Password	Text	Valid	No Error	
		Number	Valid	No Error	
		Symbol	Invalid		Error message will be shown.
		NULL	Invalid	Error	Error message will be shown.

- Registration Page Testing:

Sr. No.	Input Field	Input Value	Valid/Invalid	For Valid Value	For Invalid Value
1.	First Name	Text	Valid	No Error	
		Numbers/Symbols	Invalid	Error	Error message will be shown.
		NULL	Invalid	Error	Error message will be shown.
2.	Last Name	Text	Valid	No Error	
		Numbers/Symbols	Valid	Error	Error message will be shown.
		Symbol	Invalid	Error	Error message will be shown.
3.	Select Gender	Selected	Valid	No Error	
		Not Selected	Invalid	Error	Error message will be shown.
4.	Mobile Number	Number	Valid	No Error	
		Text/ Special Character	Invalid	Error	Error message will be shown.
		Null	Invalid	Error	Error message will be shown.
5.	Birth Date	Proper Format	Valid	No Error	
		Improper Format	Invalid	Error	Error message will be shown.
		Null	Invalid	Error	Error message will be shown.
6.	Select City	Selected	Valid	No Error	
		Not Selected	Invalid	Error	Error message will be shown.
7.	Email Id	email format	Valid	No Error	
		Not proper format	Invalid	Error	Error message will be shown.
		Null	Invalid	Error	Error message will be shown.
8.	Password	Text, Numbers	Valid	No Error	
		Less than 8 characters	Invalid	Error	Error message will be shown.
		NULL	Invalid	Error	Error message

					will be shown.
9.	Retype Password	Text, Numbers	Valid	No Error	
		Less than 8 characters	Invalid	Error	Error message will be shown.
		NULL	Invalid	Error	Error message will be shown.

8. Future Enhancement

❖ Future Enhancement:

- International Trip Package
- Inclusion of Travel option in Package
- Expansion of Customizing Package

9. Bibliography

❖ Bibliography:

- https://github.com/
- https://makemytrip.com/
- https://youtube.com/