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SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

“Tours And Travels Application”

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Submitted By:

Group No: 01

Roll No.
229001
229047

Name:
Abhijit Gaikwad
Dhanraj Nilakhe

Mrs. Sonali Mogal
Project Guide

Mr. Rohit Puranik
Centre Coordinator

ABSTRACT

Management System is a complete tourist fully integrated tourism web site. The website covers all the areas required for an including tourism; this project is developed to manage the tourist in the tourism management web site. The main module in this project are login, tourist management, complaints and reports tourism.

Here I have developed a project on Tour and Travel. Online Tour and Travel Booking is a system that gives you the facility of booking any type of packages (Summer special packages, Manali tour packages, Shimla special packages, adventures etc.). This system is made, so that customer can easily book ticket for all packages of tourist place such as hills, trekking, adventures, spirituals and user can also register for hotels for different types of room. The project 'Tours and Travels' is developed to replace the currently existing system, which helps in keeping records of the customer, details of destination as well as payment received. It saves the precious asset that is time, and also accuracy, reliability and uniformity can be maintained. This project is useful for the manager of the company as it helps them to search the data faster than existing system, to get customer record easily and report of the customer payment, etc. are generated as per requirement. Details of different types of tours which include tours like family tours, couple tours, general tours, date and time of departure and the fair of the tours etc. are maintained. Through this site we can provide different types of travel packages to the custom. These sites provide everything related to it itineraries.

ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, **Mrs. Sonali Mogal** for providing me with the right guidance and advice at the crucial juncture and for showing me the right way. I extend my sincere thanks to our respected **Centre Co-Ordinator Mr. Rohit Puranik**, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

Abhijit Gaikwad (229001)

Dhanraj Nilakhe (229047)

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INTRODUCTION

This project is a Tours and Travels Application. Online Tour and Travel is a very user-friendly project. In this project user can easily understand and book all packages and also register for hotel. In this project there are various types of forms, like all types of packages, book for package and Room Registration Page in which user can insert his personal needs & facilities then upload his form by which user can register in the web site. In this website user can also pay money through credit card. This site provides different packages, destination, and hotel booking services in one particular state of India. Himachal Pradesh is very popular hill station of north India. Visitors enjoy snow covered mountain peaks and adventure sports like trekking, mountaineering and skiing. In this website, according to the tour packages it provides services like online booking facilities for all packages and hotels registration to the customer. In this project user can easily understand and fill up the Room Reservation form. User can search for various types of rooms. Online Tour and Travel is a web-based application made in Asp.Net. So, with the help of this project user can apply for packages of tour and room reservation. AREA OF A COMPUTER SCIENCE Web Development is a broad term for the work involved in developing a web site for the internet or an Intranet (a private network). Web development can range from developing the simplest static single page of plain text to the most complex web-based internet applications, electronic businesses, and social network services. Using Web development, we can design different types of websites and the web application. A more comprehensive list of tasks to which web development commonly refers, may include web engineering, web design, web content development, client liaison, ecommerce development. Among web professionals, "web development" usually refers to the main non-design aspects of building web sites: writing markup and coding.

1.1 PROJECT OBJECTIVE

This application is developed to provide best travelling services to the customers and travel agents. We have developed tours and travel management system to provide a search platform where a tourist can find their tour places according to their choices. This system also helps to promote responsible and interesting tourism so that people can enjoy their holidays at their favorable places. This system also helps to develop tourism with different cultures so that they enrich the tourism experience and build pride. We develop this system to create and promote forms of tourism that provide healthy interaction opportunities for tourists and locals and increase better understanding of different cultures, customs, lifestyles, traditional knowledge and believes. This system also provides a better way to connect with various events.

This system also gives tours related information like which places are tourist attractions, cities, and provinces. Tourist can also get the Map and navigation system and temperature and weather information. Tourist can also book tours through our tours and travels management system. This system also keeps a history of visited places of its users.

Below are the modules of this application

1.2 PROJECT OVERVIEW

The central concept of the application is to allow the customer to shop virtually using the internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an RDBMS at the server side (store).

The server processes the customers, and the items are shipped to the address submitted by them. The application was designed into two modules first is for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of this product is a departmental store where the application is hosted on the web and the administrator maintains the database. The application, which is deploy the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction. Data entry into the application can be done through various screens designed for various levels of users. Once the authorized personal feed the relevant data into the system, several reports could be generated as per the security.

1.3 PROJECT SCOPE

This web application will be a platform for users to search destinations as per client's requirement and schedule. It will also help user to choose the transportation type.

This web application will also give the choice to select the package client as per their choice.

21.1 STUDY OF THE SYSTEM

A travel management system is **a software product that manages all components of your business travel**. Typically, they are integrated with travel service providers, offering real-time quotes, bookings, and trip logistics in one place

21.1.1 MODULES:

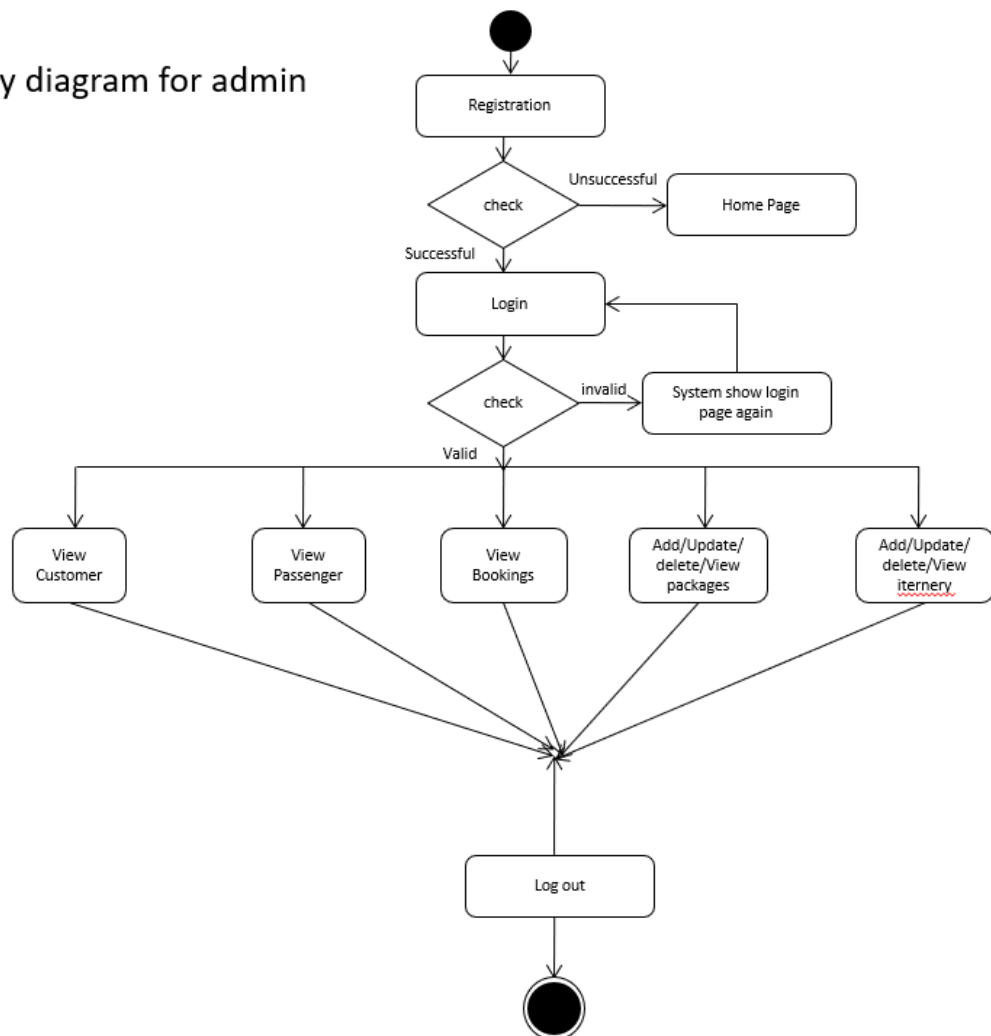
The system after careful analysis has been identified to be presented with the following modules and roles.

The modules involved are:

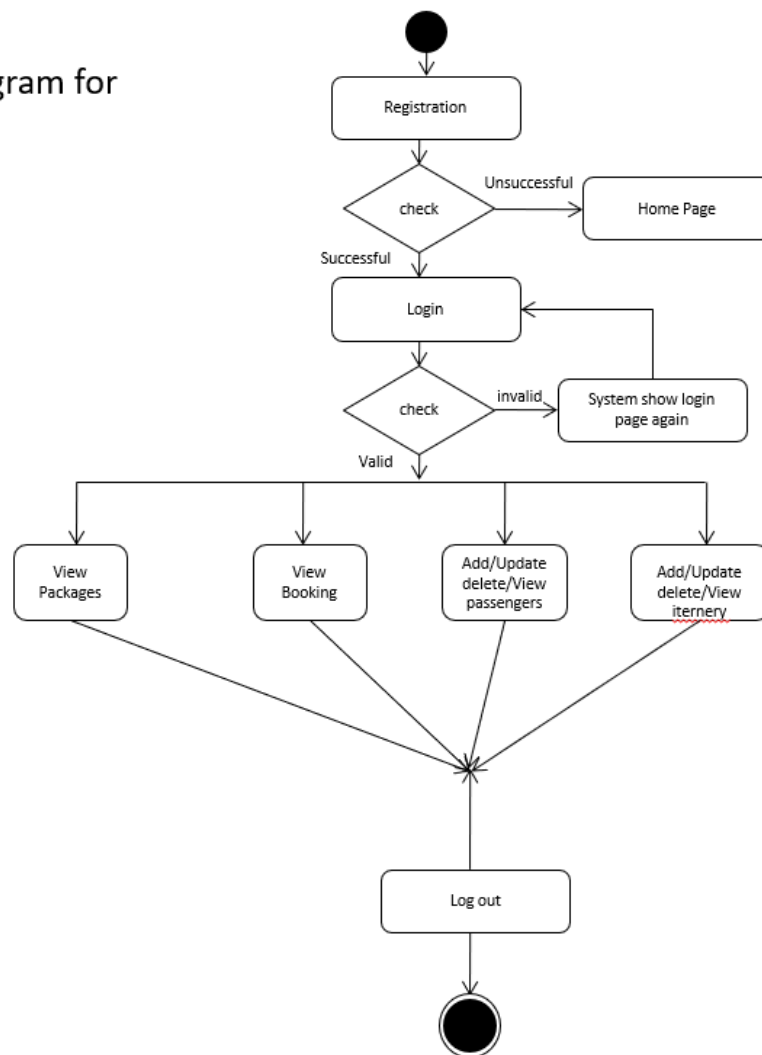
- Admin
- Users

System Diagram-

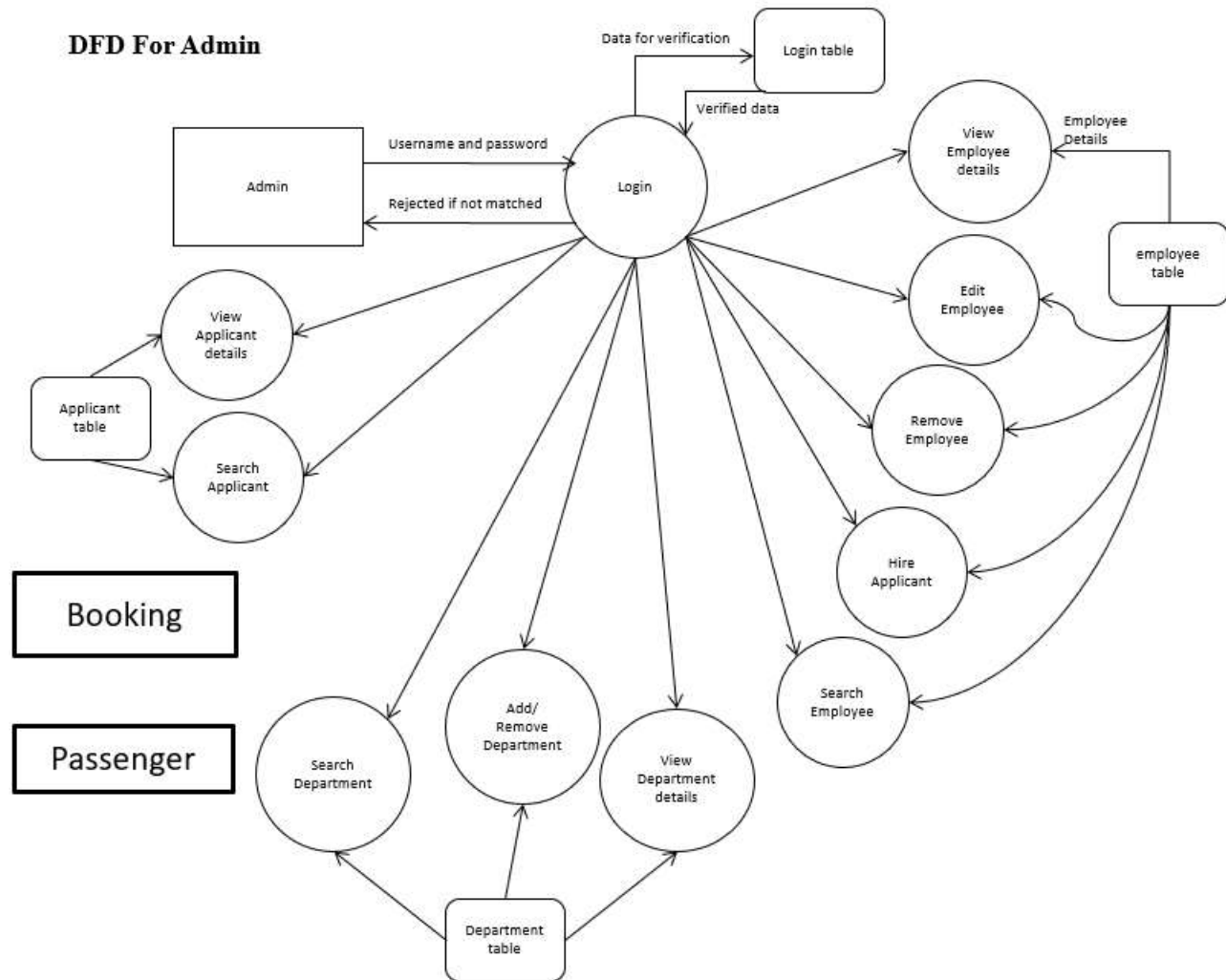
Activity diagram for admin

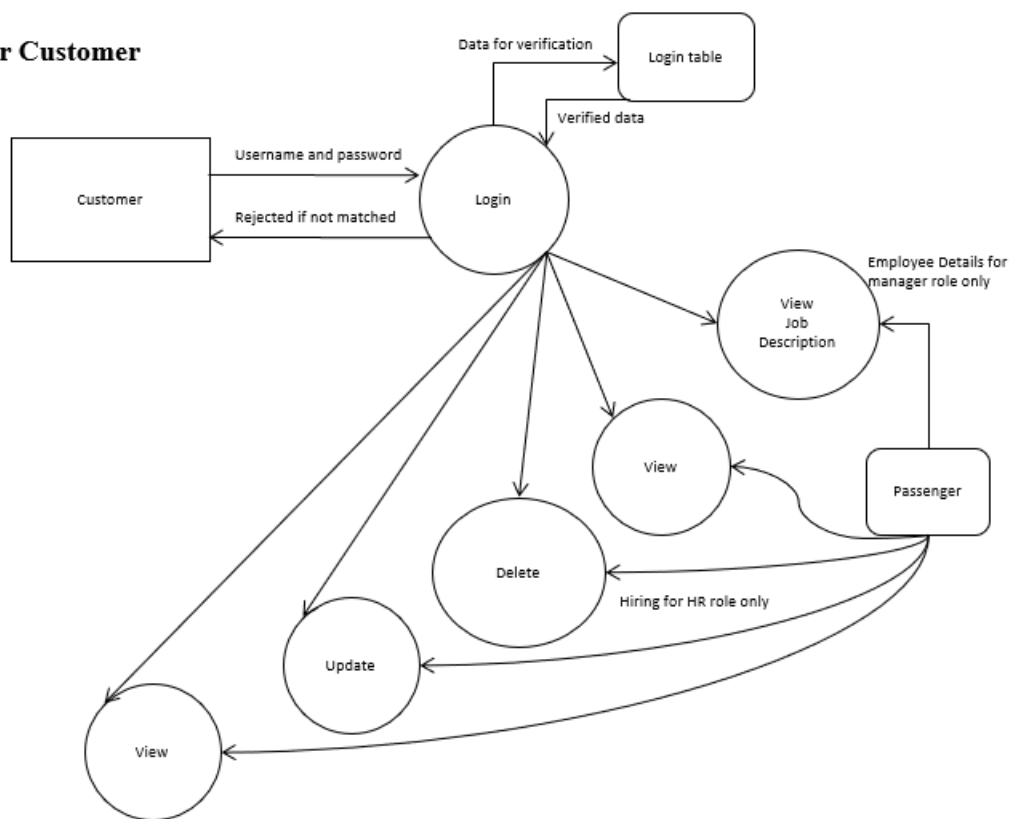


Activity diagram for Customer

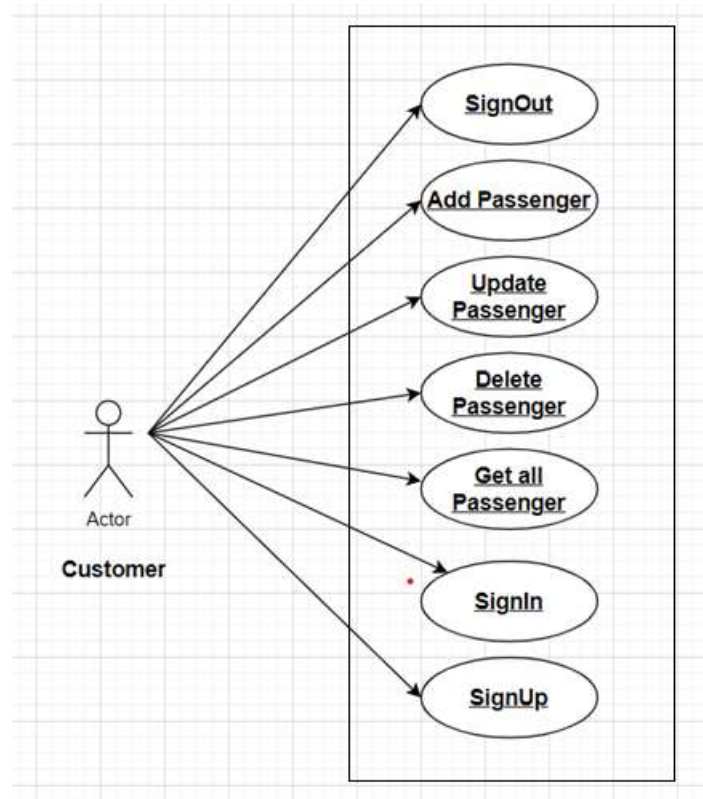


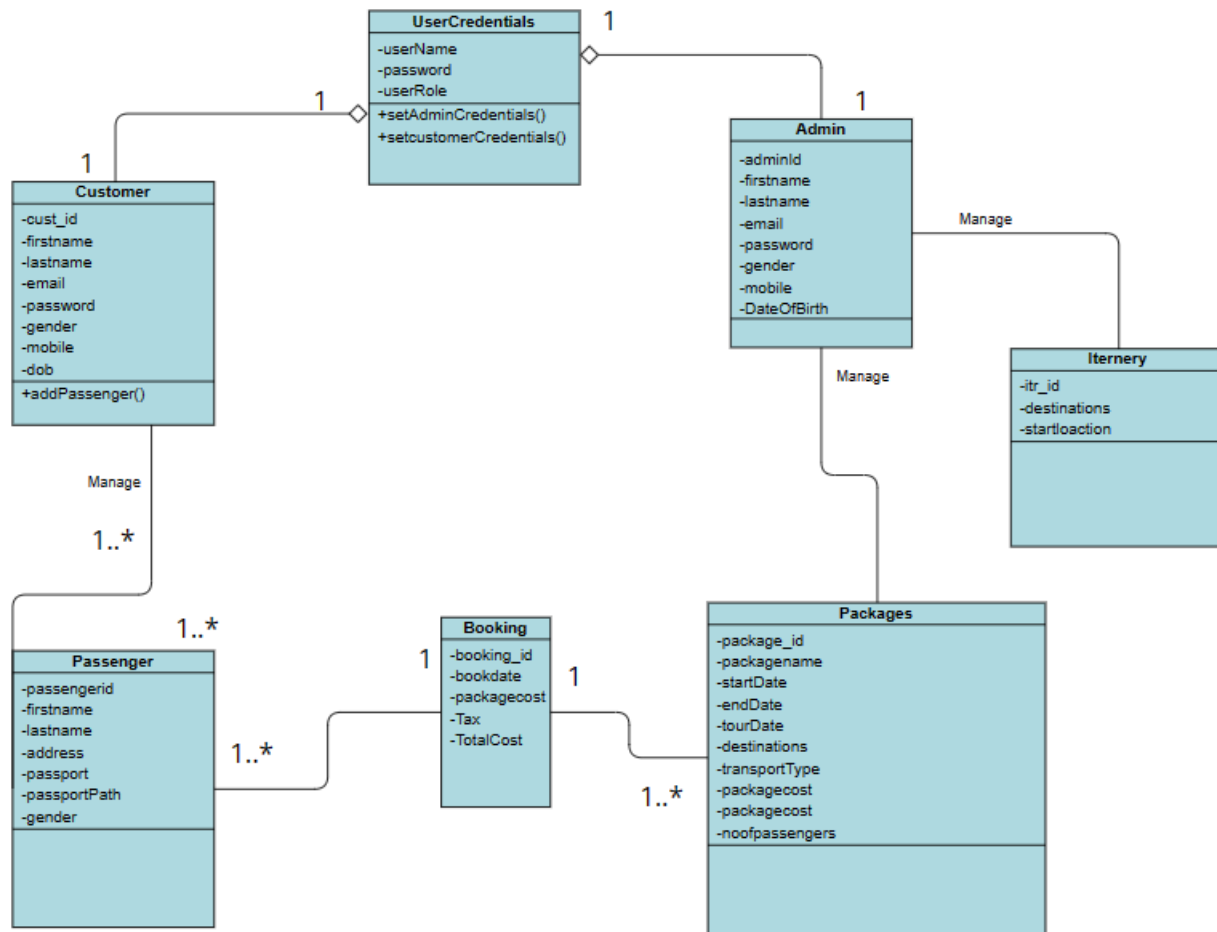
Data Flow Diagram:

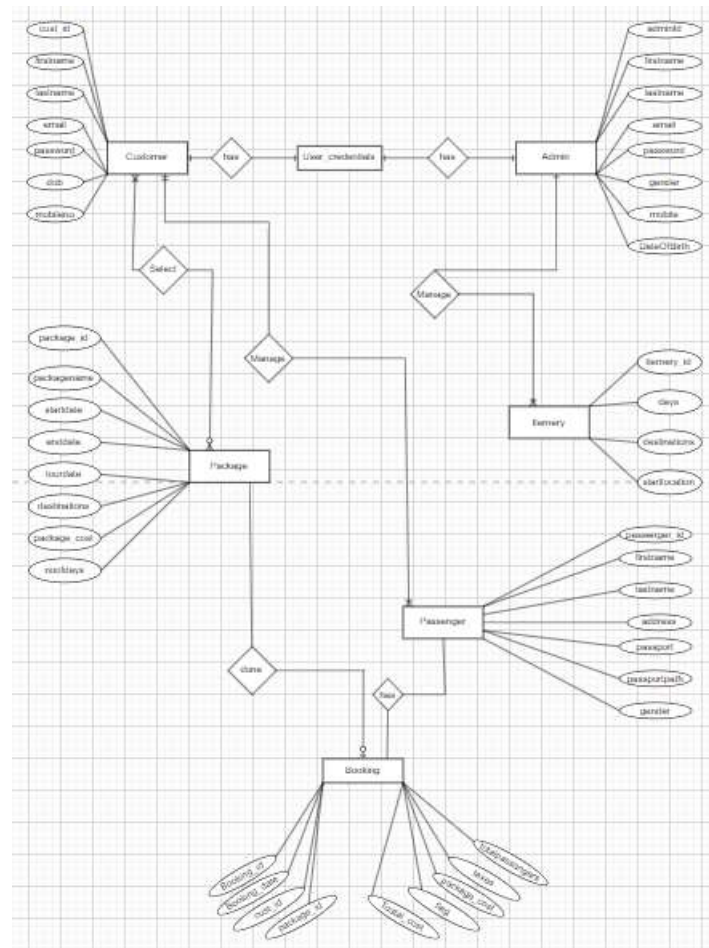


DFD For Customer

USE CASE DIAGRAM-

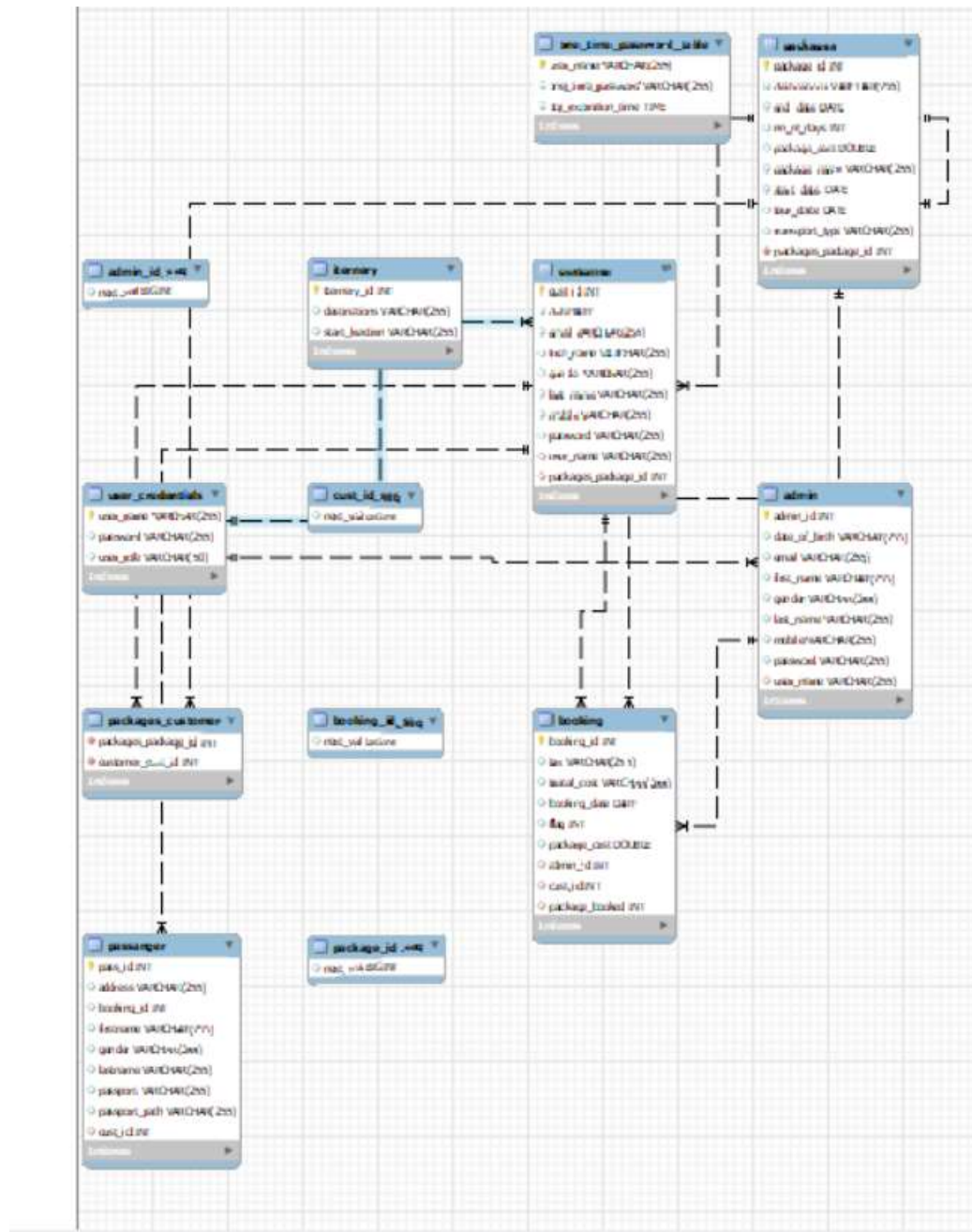
USE CASE DIAGRAM-

**Class Diagram**



Manual E-R Diagram

E-R Diagram:



➤ **Add Products**

The shopping cart contains different kinds of products of different category. The products can be classified into different categories by name. Admin can add new products into the existing system with all its details including an image.

➤ **Update Packages**

Administrator can delete the products based on the stock of that particular product.

➤ **All Packages**

Admin will have a list view of all the existing products. He can also search for a particular product by name.

➤ **Delete Packages**

Admin can add delivery boy for the system. Admin can see the details of delivery boy and the order delivery.

➤ **Remove Delivery Boy**

Admin have the privilege to remove the delivery boy.

➤ **Add Supplier**

Admin have the privilege to add the supplier and according supplier category he can add products and he can manage the available products stocks.

➤ **Remove Supplier**

Admin have the privilege to remove the supplier.

➤ **Search Product**

Only admin is having the privilege to add a supplier. He can search the product to manage the product

➤ **Customer sign in, sign out, create account**

This feature is provided to customer so he can sign in, sign out and create account for new customer.

➤ **Search Product**

Customer can search the product as per his wish in specific category.

➤ **Add to Cart**

Customer can add products to cart which he wants to buy the products.

➤ **Payments**

Customer have a privilege to his order he can see his order details.

➤ **Order Details**

Customer have a privilege to his order he can see his order details.

➤ **Buy Product**

Customers can buy product from his cart by doing payment.

➤ **Wish List**

Customer can have a wish list for future buying products he can add products in the wish to list.

SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems, and using the information to recommend improvements on the system. System analysis is a problem-solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified, and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

2.1 EXISTING SYSTEM

The current system for Tours and Travels manually and from the available product choose the item customer want and buying the item by payment of the price of the item.

- ✓ It is less user-friendly.
- ✓ User must go to shop and select products.
- ✓ It is difficult to identify the required product.
- ✓ Description of the product limited.
- ✓ It is a time-consuming process
- ✓ Not in reach of distant users.

2.2 PROPOSED SYSTEM

In the proposed system customer need not go to the shop for buying the products. He can order the product he wish to buy through the application in his Smartphone. The shop owner will be admin of the system. Shop owner can appoint moderators who will help owner in managing the customers and product orders. The system also recommends a home delivery system for the purchased products.

The system consists of two parts. A web application which can provide the online shopping service for the customer to access the web service from his Smartphone/System. Web application should be able to help the customer for selecting his item and to help the owner in managing the orders

from the customers.

Problem Statement:

The tourism industry faces a great challenge in the age of the information technology development. The traditional tourism distribution channel faces a threat of the emerging IT environment. Throughout years the tourism industry was dependent on the intermediaries, who enabled the interaction between the suppliers and the customers. Nowadays, however, the suppliers can reach the customer directly via internet having the geographical distance barriers and costs associated to them, disappeared. The internet age changed the complexity of the tourism distribution, enabling the entry of the new virtual intermediaries characterized by a strong competitive advantage towards other players of the sector. The internet allows a wide range of benefits for the companies and the customers, making the information widely available, reducing the difficulties in purchasing, marketing and distribution, allowing the sellers and the buyers to direct transact with each other. However, companies still face the difficulties on how to capture the benefits in order to position themselves in the digital reality. The entry of the new tourism intermediaries, known as the online travel agencies, introduced an innovative approach to the integration platform, collecting the suppliers and integrating them into a one stop shopping place for the customers. The success of the platform depends however on the participation level of the tourism products 'suppliers. This raises the question of how to attract the various tourism suppliers to join the platform. The thesis presents a cost/benefit analysis of the joining the platform for every participant. The analysis considers the financial aspects of the decision, but also the intangibles which should influence the long-term strategy for every tourism supplier (hotels, airlines, car rentals companies, cruises). The evaluation compares different distribution channels of the suppliers, both the traditional and emerging ones. The real-life examples to support arguments presented are mostly based on the current world successful cyber-mediaries: Expedia, Travelocity and Orbitz.

2.3.1 SYSTEM OBJECTIVES

- To provide a Web application for online Tours and Travels Applications.
- To provide an online shopping web site for the same shop.

2.3.2 SYSTEM REQUIREMENTS

Operating System: Windows

Technology: Java and J2EE

Web Technologies: Html, JavaScript

IDE: My Eclipse

Web Server: Tomcat

Database: MySql5.0

Java Version: J2SDK1.5

2.3.3.1 NON-FUNCTIONAL REQUIREMENTS

Database Security:

An unauthorized person cannot access the panel and database, do not read and write the information. It should maintain the security of the client's payment method.

Reservations Requirement:

Travel management system should reserve a travel package in maximum 30 to weekly evaluation by the project guide.

Reliability Requirement:

Travel management system should provide a reliable environment to both customers and owner.

Admin should be able to upload delete update new packages without any error.

Usability Requirement:

The travel Management System in PHP is designed for user friendly environment and ease of use.

Availability:

The travel Management System in PHP should be available for 24 hours because it offers international tourists reserved packages from different countries so it should be available for 24 hours.

Efficiency Requirement:

When an online package of travel implemented customer can have reserved packages in an efficient manner.

SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. Its emphasis on translating design. Specifications to performance specification. System design has two phases of development.

- Logical Design
- Physical Design

During logical design phase the analyst describes inputs (sources), outputs(destinations), databases (data sores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

3.1 INPUT AND OUTPUT DESIGN

3.1.1 INPUT DESIGN:

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry operators can be controlled by input design. The user-originated inputs are converted to a computer-based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

3.1.2 OUTPUT DESIGN:

Computer output is the most important and direct source of information to the user. Output design

is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications.

DATABASE DESIGN

3.2 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- Primary key - the field that is unique for all the record occurrences
 - Foreign key - the field used to set relation between tables
- Normalization is a technique to avoid redundancy in the tables.

3.3 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

3.3.1 FRONT END:

React is a library which is developed by Facebook and is utilized to implement the frontend. React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

3.3.2 BACKEND:

The back end is implemented using MySQL which is used to design databases.

MySQL:

MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language. An application software called Navicat was used to design the tables in MySQL.

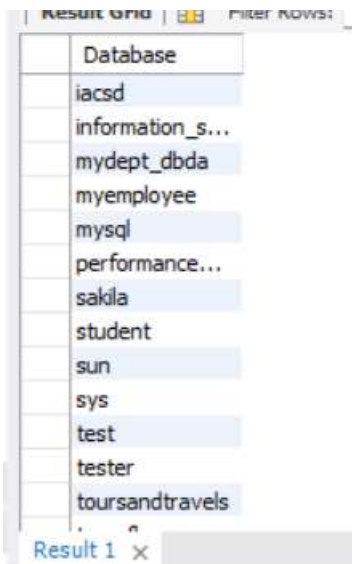
Spring-Boot:

This is used to connect MySQL and fetch data from database and store the data in database. 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, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular

in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Open-source Framework.

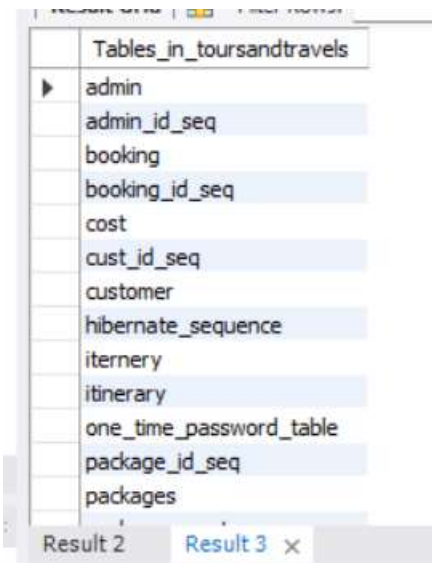
TABLE STRUCTURE:

Tables:



A screenshot of a database tool's 'Result Grid' window. The window has a title bar with 'Result Grid' and a 'Filter Rows' button. The grid contains a single column labeled 'Database'. The rows list various databases: iacsd, information_s..., mydept_dbda, myemployee, mysql, performance..., sakila, student, sun, sys, test, tester, and toursandtravels. The 'toursandtravels' row is highlighted. Below the grid, there is a tab labeled 'Result 1' with a close button 'x'.

Database
iacsd
information_s...
mydept_dbda
myemployee
mysql
performance...
sakila
student
sun
sys
test
tester
toursandtravels



A screenshot of a database tool's 'Result Grid' window. The window has a title bar with 'Result Grid' and a 'Filter Rows' button. The grid contains a single column labeled 'Tables_in_toursandtravels'. The rows list various tables: admin, admin_id_seq, booking, booking_id_seq, cost, cust_id_seq, customer, hibernate_sequence, iternery, itinerary, one_time_password_table, package_id_seq, and packages. The 'admin' row is highlighted. Below the grid, there are two tabs: 'Result 2' and 'Result 3', both with close buttons 'x'.

Tables_in_toursandtravels
admin
admin_id_seq
booking
booking_id_seq
cost
cust_id_seq
customer
hibernate_sequence
iternery
itinerary
one_time_password_table
package_id_seq
packages

Result Grid | Filter Rows:

Tables_in_toursandtravels
booking_id_seq
cost
cust_id_seq
customer
hibernate_sequence
iternery
itinerary
one_time_password_table
package_id_seq
packages
packages_customer
passanger
roles

Result 4 x

Result Grid | Filter Rows: | Export: | Wrap Cell Center

	Field	Type	Null	Key	Default	Extra
►	booking_id	int	NO	PRI	NULL	auto_increment
	bookingdate	varchar(255)	YES		NULL	
	cust_id	int	YES	MUL	NULL	
	flag	int	YES		NULL	
	package_id	int	YES		NULL	
	touramount	double	YES		NULL	
	totalamount	double	YES		NULL	
	taxes	double	YES		NULL	
	passangers	int	YES		NULL	
	tax	varchar(255)	YES		NULL	
	toatal_cost	varchar(255)	YES		NULL	
	booking_date	date	YES		NULL	
	package_cost	double	YES		NULL	

Result 5 x

Result Grid

Filter Rows:

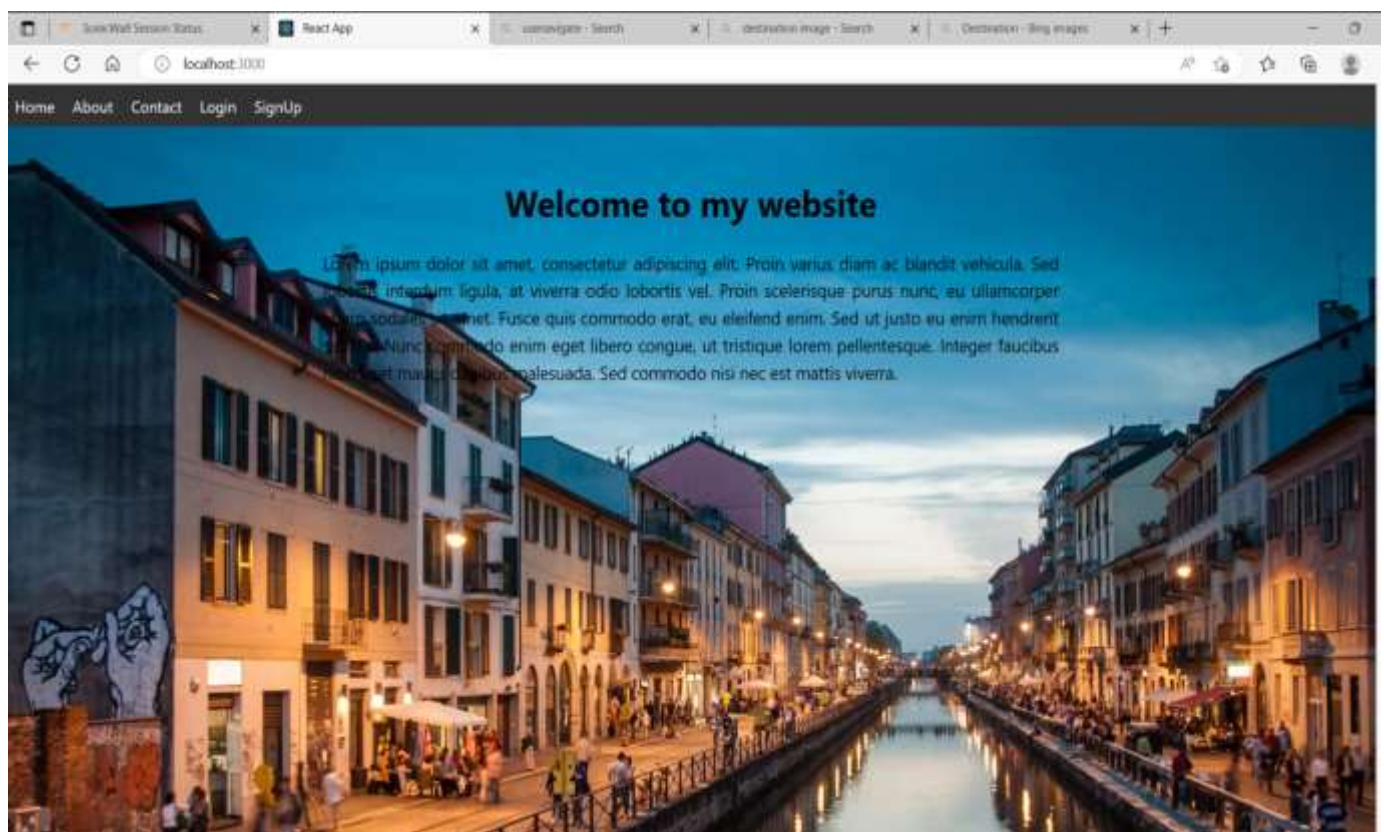
Export:

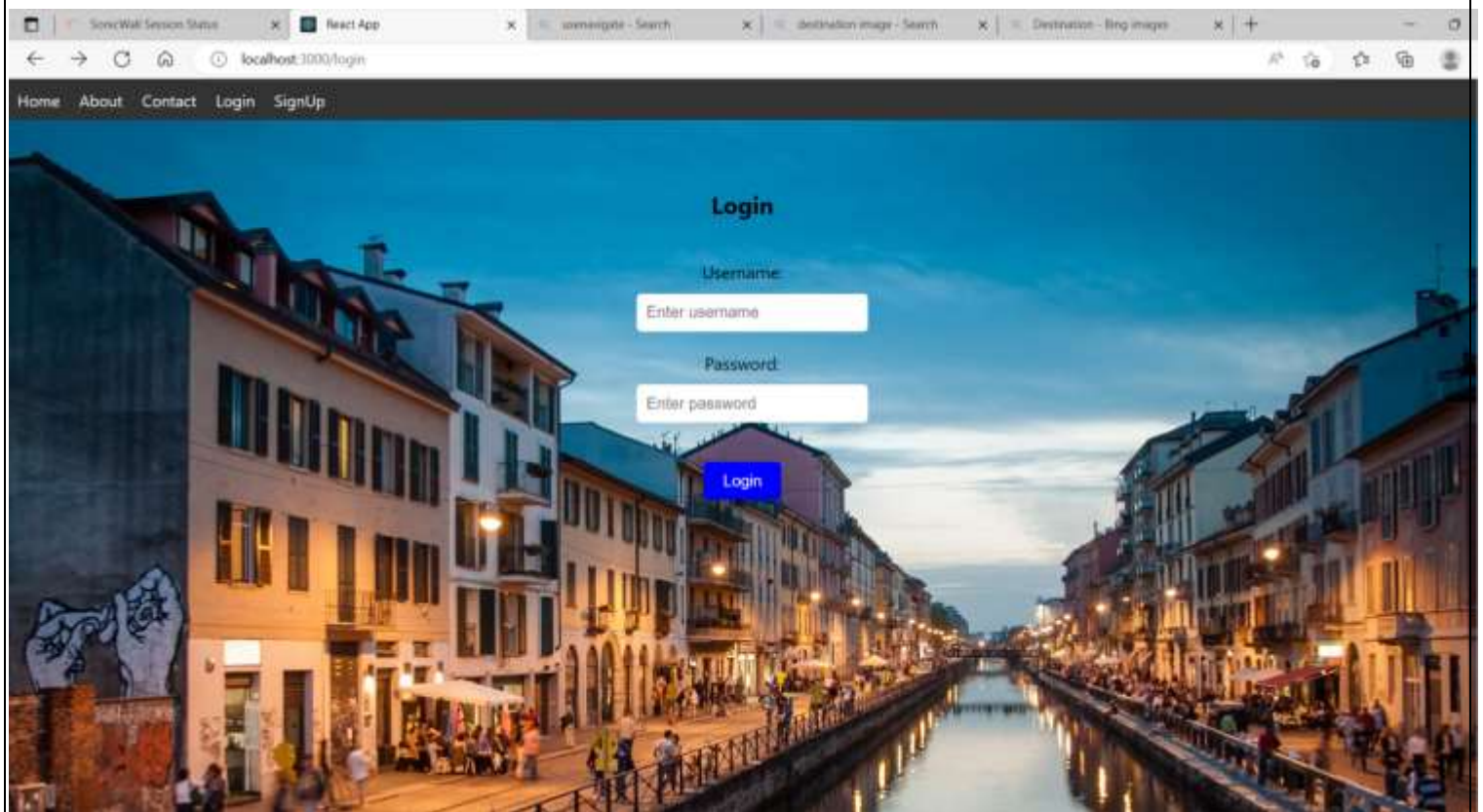
Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	package_id	int	NO	PRI	NULL	auto_increment
	enddate	varchar(255)	YES		NULL	
	package_name	varchar(255)	YES		NULL	
	sectormaster_id	int	YES		NULL	
	startdate	varchar(255)	YES		NULL	
	tourdates	varchar(255)	YES		NULL	

PHOTO

1.Home Page





2.Login Page

3.Sign Up Page

Signup

First Name:

Last Name:

Email:

Password:

Gender:
--Select Gender--

Mobile:

Date of Birth:

CONCLUSION

The following conclusions can be deduced from the empirical research chapter

The majority of the respondents are tour operators of the tourism product owners' businesses are situated in the North West Province of the respondents have years or less experience in the tourism industry. Only have or more years of experience y The primary market that the tourism product owners cater for is business travelers

Only cater for tourists with disabilities of the respondents indicate that the market for tourists with disabilities is one that is undervalued and misunderstood indicate that tourists with disabilities are a potential market by indicate that tourists with disabilities are an economically viable market indicate that people with disabilities are a growing market for travel, sport and leisure oriented products of the respondents indicate that they will in future cater for tourists with disabilities of the tourism product owners indicate that tourists with disabilities will not create any problems for them p- It is important that tourism product owners don't feel that tourists with disabilities have to pay more when staying at their facility. Of the respondents indicate that travelers with disabilities don't have to pay more when they stay at a facility or make use of their services. Only indicate that tourists with disabilities have to pay more of the tourism product owners indicate that they will not experience any difficulties with regard to tourists with disabilities of the tourism product owners have an excellent attitude towards people with disabilities of the respondents indicate that their attitude towards people with disabilities is causing them to lose business, whilst disagree that their attitudes are causing them to lose business ;.. of the tourism product owners indicate that tour operators feel uncomfortable when dealing with people with disabilities, whilst disagree of respondents feel that it will cost too much to make their facility or vehicle.

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<https://angular.io/docs> <https://javaee.github.io/javaee-spec/javadocs/>
<https://www.w3schools.com>