Usman Tour &Travels

FINAL YEAR PROJECT REPORT

Submitted by

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Submitted to

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ACKNOWLEDGEMENTS

I am grateful and would like to express my sincere gratitude to my supervisor *Ma'am Munazza Mah Jabeen*. for her invaluable guidance, continuous encouragement and constant support in making this project possible. I really appreciate her guidance from initial stage through the end which helped me develop an understanding of this project thoroughly. Without her guidance and assistance, it would be tougher to complete. I sincerely thank her for the time spent proofreading and correcting my mistakes. Many thanks to Preston University for providing me the opportunity to explore my capabilities in programming and implementing my ideas to a good use. Having said that it was all possible because of good staff and great management of Preston University.

Special acknowledgement to all the teachers who have guided me in my life and in my studies and special thanks to my father, mother and my family members who always support me in my difficult time, without there guidance I wouldn't have accomplished any of this and also thanks to all the class mates who have pushed me out of my shyness and have helped me in facing my fears.

DECLARATION

This Final Year Project is presented in partial fulfilment of the requirements for a Bachelor of Computer Science Degree in Computer Science. It is entirely my own work and has not been submitted to any other University or higher education institution, or for any other academic award in this University. Where use has been made of the work of other people it has been fully acknowledged and fully referenced.

CERTIFICATE

This is to certify that the project entitled, “Usman Tour & travels" submitted by "Muhammad Umer Sajjad" in partial fulfillment of the requirements for the award of "Bachelor of Computer Science" at the "Preston University" is an authentic work carried out by him under my supervision and guidance.

To the best of my knowledge, the matter embodied in the project has not been submitted to any other University / Institute for the award of any Degree or Diploma.

Date: 8th January 2019

Assistant Professor Munazza Mah Jabeen,

Department of Computer Science, Preston University

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ABSTRACT

Our aim is to design and create a data management system for Usman Tour & Travels. This enables customer to rent a vehicle that can be used temporarily during a specified period of time. This system increase customer retention and simplify vehicle and staff management.

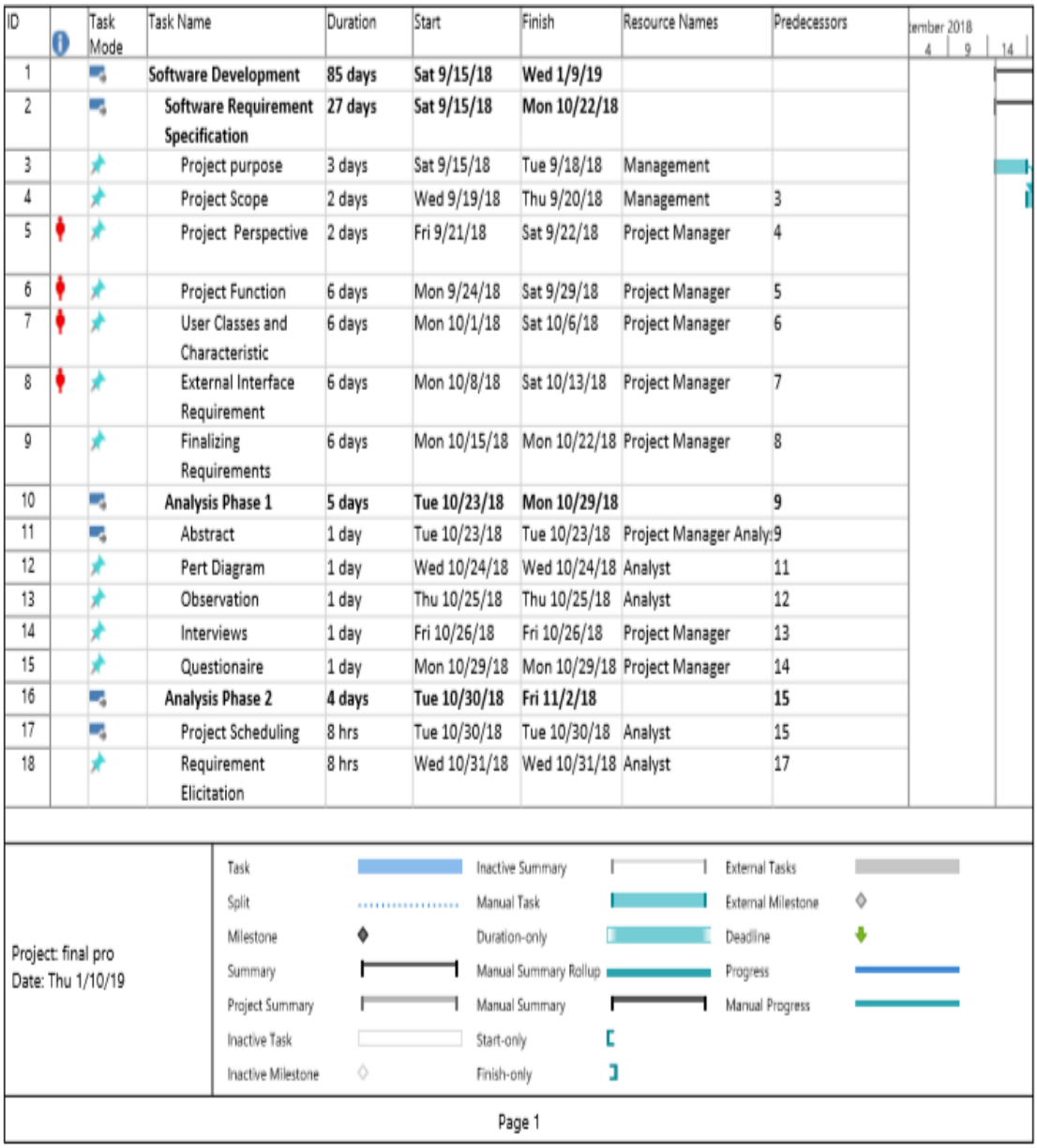
The software Usman Tour & Travels has a very user-friendly interface. Thus the users will feel very easy to work on it. By using this system client can manage their rental, payments and vehicle issues.

The new data can be added or an existed data can be edited or deleted too by the administrators.

The customer should create a new account before logging in or he/she can log into the system with his/her created account. Then he/she can view the available cars in a branch and make a reservation for a car.

Thus using this system benefits both the owner and the customer in different ways.

Pert Diagram



ID	Task Mode	Task Name	Duration	Start	Finish	Resource Names	Predecessors
1		**Software Development**	**85 days**	**Sat 9/15/18**	**Wed 1/9/19**		
2		**Software Requirement Specification**	**27 days**	**Sat 9/15/18**	**Mon 10/22/18**		
3		Project purpose	3 days	Sat 9/15/18	Tue 9/18/18	Management	
4		Project Scope	2 days	Wed 9/19/18	Thu 9/20/18	Management	3
5		Project Perspective	2 days	Fri 9/21/18	Sat 9/22/18	Project Manager	4
6		Project Function	6 days	Mon 9/24/18	Sat 9/29/18	Project Manager	5
7		User Classes and Characteristic	6 days	Mon 10/1/18	Sat 10/6/18	Project Manager	6
8		External Interface Requirement	6 days	Mon 10/8/18	Sat 10/13/18	Project Manager	7
9		Finalizing Requirements	6 days	Mon 10/15/18	Mon 10/22/18	Project Manager	8
10		**Analysis Phase 1**	**5 days**	**Tue 10/23/18**	**Mon 10/29/18**		**9**
11		Abstract	1 day	Tue 10/23/18	Tue 10/23/18	Project Manager Analy	9
12		Pert Diagram	1 day	Wed 10/24/18	Wed 10/24/18	Analyst	11
13		Observation	1 day	Thu 10/25/18	Thu 10/25/18	Analyst	12
14		Interviews	1 day	Fri 10/26/18	Fri 10/26/18	Project Manager	13
15		Questionaire	1 day	Mon 10/29/18	Mon 10/29/18	Project Manager	14
16		**Analysis Phase 2**	**4 days**	**Tue 10/30/18**	**Fri 11/2/18**		**15**
17		Project Scheduling	8 hrs	Tue 10/30/18	Tue 10/30/18	Analyst	15
18		Requirement Elicitation	8 hrs	Wed 10/31/18	Wed 10/31/18	Analyst	17

Figure 1 Pert Diagram Part 1

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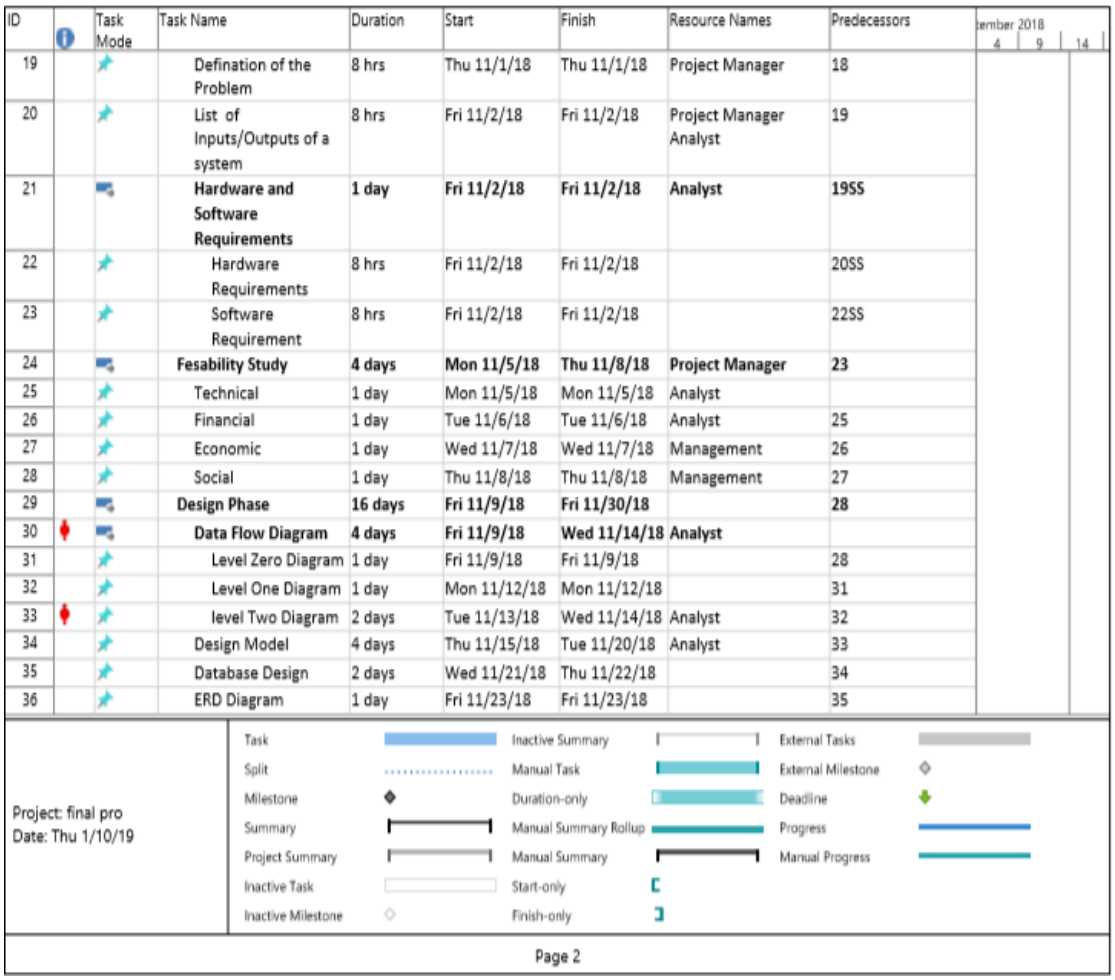

ID	Task Mode	Task Name	Duration	Start	Finish	Resource Names	Predecessors
19		Defination of the Problem	8 hrs	Thu 11/1/18	Thu 11/1/18	Project Manager	18
20		List of Inputs/Outputs of a system	8 hrs	Fri 11/2/18	Fri 11/2/18	Project Manager Analyst	19
21		**Hardware and Software Requirements**	**1 day**	**Fri 11/2/18**	**Fri 11/2/18**	**Analyst**	**19SS**
22		Hardware Requirements	8 hrs	Fri 11/2/18	Fri 11/2/18		20SS
23		Software Requirement	8 hrs	Fri 11/2/18	Fri 11/2/18		22SS
24		**Fesability Study**	**4 days**	**Mon 11/5/18**	**Thu 11/8/18**	**Project Manager**	**23**
25		Technical	1 day	Mon 11/5/18	Mon 11/5/18	Analyst	
26		Financial	1 day	Tue 11/6/18	Tue 11/6/18	Analyst	25
27		Economic	1 day	Wed 11/7/18	Wed 11/7/18	Management	26
28		Social	1 day	Thu 11/8/18	Thu 11/8/18	Management	27
29		**Design Phase**	**16 days**	**Fri 11/9/18**	**Fri 11/30/18**		**28**
30		**Data Flow Diagram**	**4 days**	**Fri 11/9/18**	**Wed 11/14/18**	**Analyst**	
31		Level Zero Diagram	1 day	Fri 11/9/18	Fri 11/9/18		28
32		Level One Diagram	1 day	Mon 11/12/18	Mon 11/12/18		31
33		level Two Diagram	2 days	Tue 11/13/18	Wed 11/14/18	Analyst	32
34		Design Model	4 days	Thu 11/15/18	Tue 11/20/18	Analyst	33
35		Database Design	2 days	Wed 11/21/18	Thu 11/22/18		34
36		ERD Diagram	1 day	Fri 11/23/18	Fri 11/23/18		35

Figure 2 Pert Diagram Part 2

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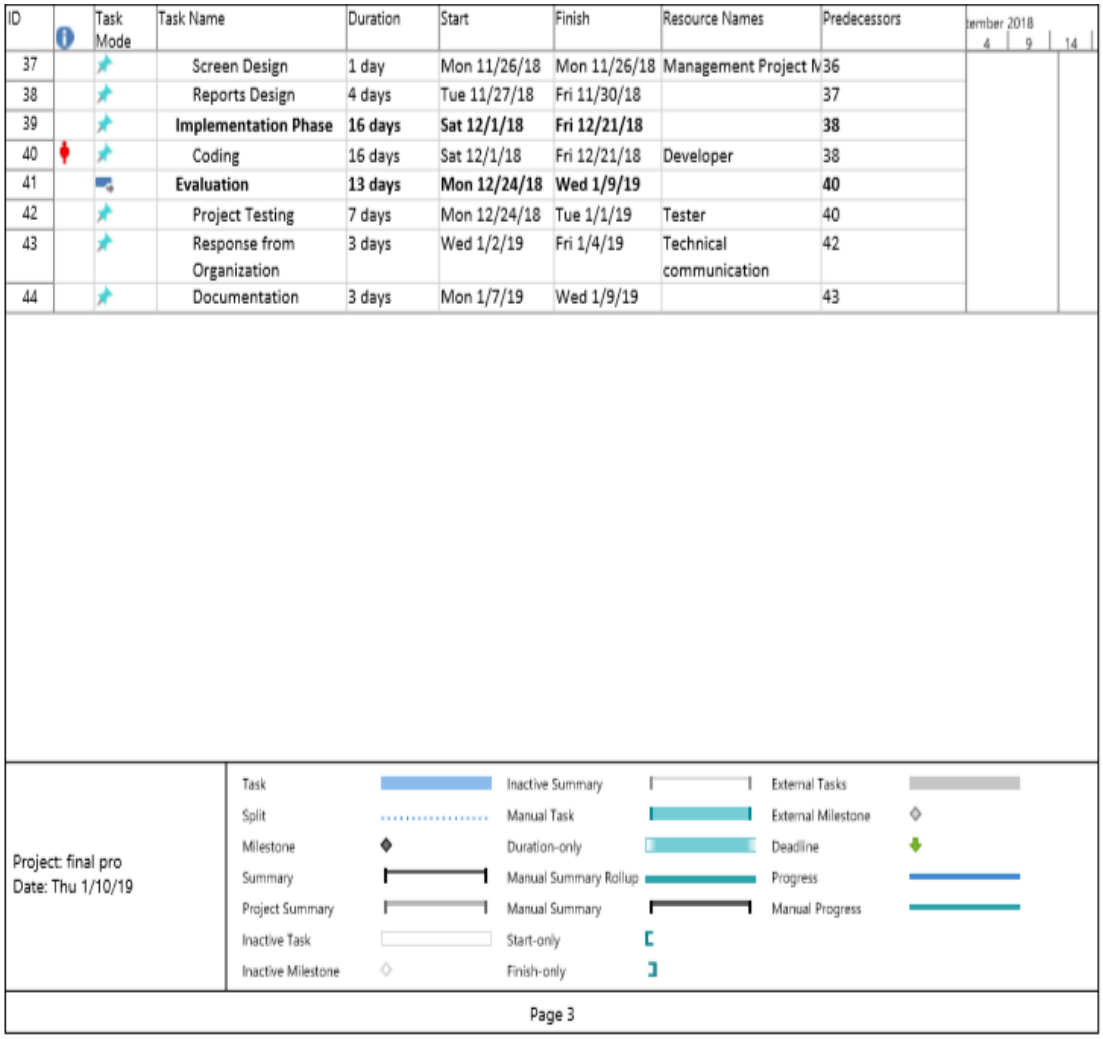

ID	Task Mode	Task Name	Duration	Start	Finish	Resource Names	Predecessors
37		Screen Design	1 day	Mon 11/26/18	Mon 11/26/18	Management Project M	36
38		Reports Design	4 days	Tue 11/27/18	Fri 11/30/18		37
39		**Implementation Phase**	**16 days**	**Sat 12/1/18**	**Fri 12/21/18**		**38**
40		Coding	16 days	Sat 12/1/18	Fri 12/21/18	Developer	38
41		**Evaluation**	**13 days**	**Mon 12/24/18**	**Wed 1/9/19**		**40**
42		Project Testing	7 days	Mon 12/24/18	Tue 1/1/19	Tester	40
43		Response from Organization	3 days	Wed 1/2/19	Fri 1/4/19	Technical communication	42
44		Documentation	3 days	Mon 1/7/19	Wed 1/9/19		43

Figure 3 Pert Diagram Part 3

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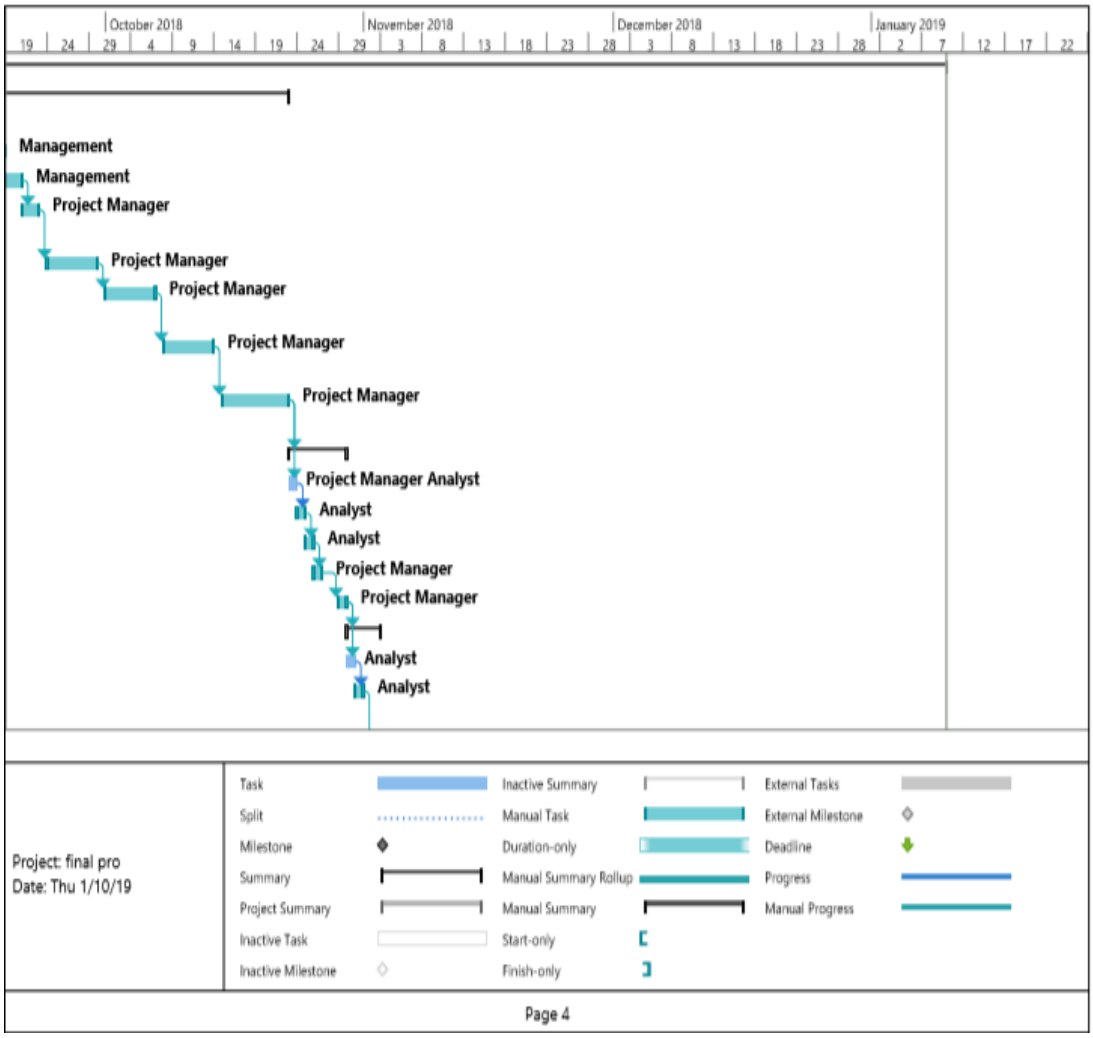

Figure 4 Pert Diagram Part 4

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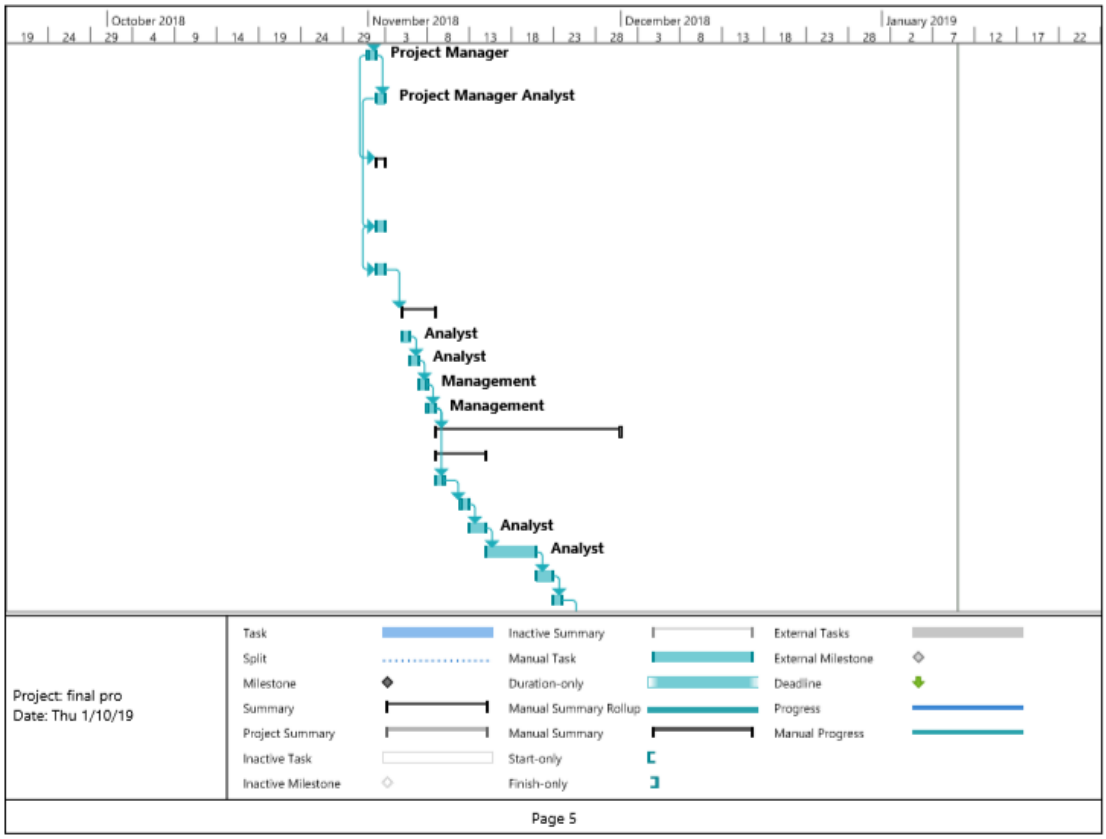

Figure 5 Pert Diagram Part 5

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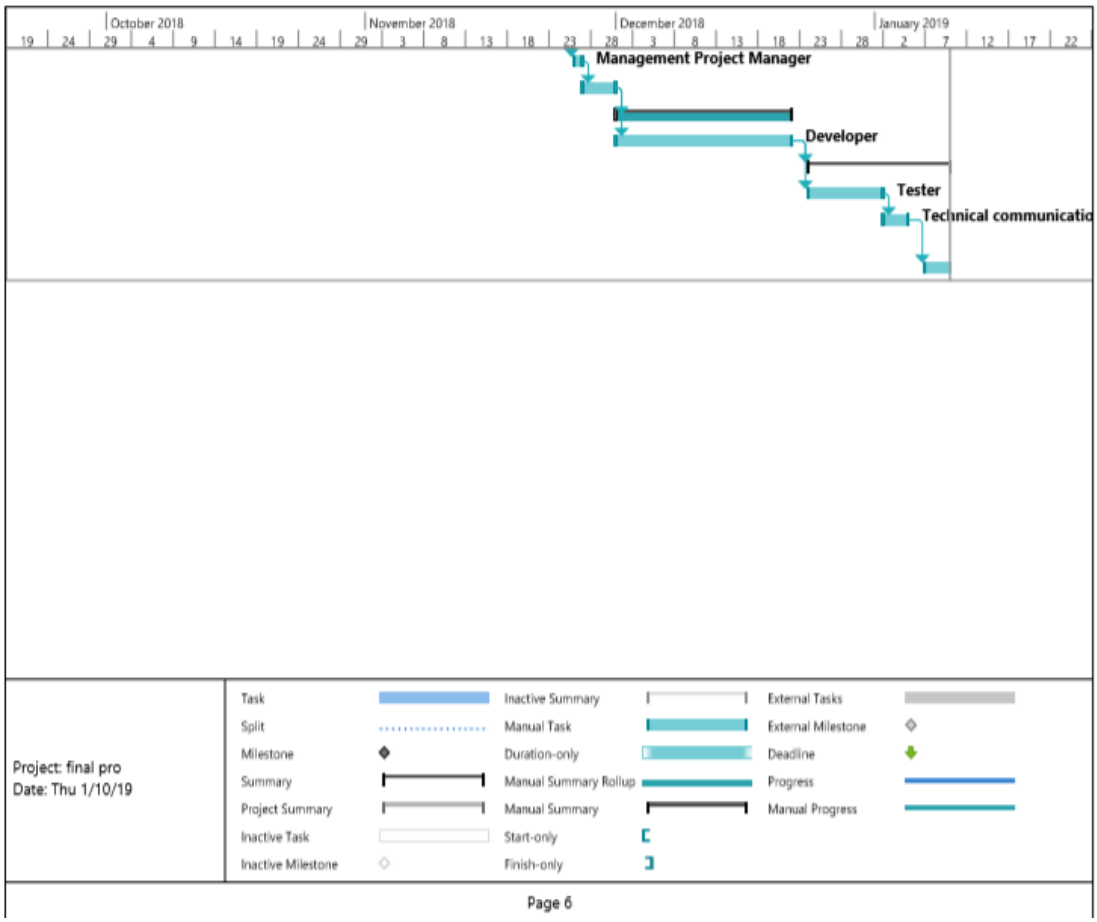

Figure 6 Pert Diagram Part 6

Chapter 1

Software Requirement and Specification

Introduction

Purpose

The purpose of this project is to provide software to Usman Tour & Travels that maintain the information about the customer details, vehicle details, driver details, booking details and transaction details of the customer.

Document Conventions

Main Section Titles

Font: Times New Roman

Face: Bold

Size: 16

Sub Section Titles

Font: Times New Roman

Face: Bold

Size: 14

Other Text Explanations

Font: Times New Roman

Face: (Heading 3 bold) Normal

Size: 12

Intended Audience and Reading Suggestions

•This Software Requirement Specification (SRS) document is intended for:

•Developers: Determine the goals and mission of the website.

•Users: The customer will feel free to work on the web site. Client can easily manage their rental, payment, and vehicle issues.

•Testers: Teachers and Professors will understand and test the software.

•This SRS help the customer to use the system to rent a car. The customer should create a new account before logging into the system. Then customer can view the available cars in the showroom and make a reservation for the car.

Product Scope

The system will be work according to the scope of the Usman Tour & travels (UT&T).

Provide online car catalog for users as an alternative for them to select car if they want to choose car by their own.

•Allows admin to search user information from the database based on the user's ID card number or their name.

•Allow admin to add a new car.

•Allow admin to manage booking of cars.

•Allow admin to given car on rent to the proper and legal customers.

•Allow the user to view feedback and enquires posted by users.

User:

The user will be able to sign up into the system, which once verified and approved by the administrator. The user will be able to login into the website.

•All authorized users can access the system.

•Allow the user to view information of available car.

•Allow the user to enquire about the car.

•Allow the user to book a car.

•Allow the user to easily get the car on rent.

•Also allow the user to give feedback.

OBJECTIVES

To transform the manual process of hiring car to a computerize system.

To ease customer's task whenever they need to rent a car.

Overall Description

Product Perspective

The project system falls under Web Development category. I have adopted Web Designing as front end for the software and PHP as back end.

Web designing is the process of creating websites. It works on several different aspects, including webpage layout, content production, and graphic design.

PHP is the one of the most popular development language for web based system that is efficient for web program.

Product Functions

Customer Details:

In customer details, we store all data of the customer, both New and Existing customer.

Vehicle Details:

In vehicle details, we store all the data of the vehicles in the showroom along with the mileage and the cost.

The data can be updated whenever needed.

Driver Details:

In driver details, we store all the data of the drivers working in the company with their availability.

Booking Details:

In booking details, we store the data of cars booked by the customers.

These details can also be read by the customer whenever required.

Transaction Details:

In transaction details we store the data of the transaction of the customer.

User Classes and Characteristics

Admin:

•Admin can login to the system.

•Verify the car information database.

•Generate price strategy.

•Handle the payment system.

•Finalize the order.

•Cancel the order.

Employee:

•It updates the database.

•Give information to the customer about the car.

•Provides the alternatives.

•Maintain contacts.

Maintenance Manager:

•It checks for the maintenance.

•Give to the maintenance.

•Give information to the admin.

•Update the database.

Customer:

•Customer can login to the system.

•Visit the website.

•Place the order.

•Cancel the order

Operating Environment

Development language >>PHP, HTML, CSS, Java-Script

Operating system >> Window 10

Documentation tool >>Microsoft word.

Development Platform >> sublime Text 3

Design and Implementation Constraints

The application will use PHP, JavaScript, Web Designing and CSS as main web technologies.

It completely relays on the windows functionality platform.

Each customer must keep their password as confidential.

More over the customer must have individual ID for creating a login in the database.

User Documentation

It is made as simple as web beginners can also use it easily with best web GUI functionality.

Assumptions and Dependencies

Customer database consists all the information about a customer with Name, Age, Log-in ID, Log-in Pass Word, Registration num.

Car database consists all general information of the available cars and cars auctions, such as brand, passenger capacity, miles, available date, etc.

Reservation database contains all the reservations the Usman Tour & Travels have. The information includes date made reservation, date to pick up car, customer's name, reservation number.

Dependencies:

The following are identified as some of the risk factors or dependencies:

Non-availability of required vehicles.

Connection down.

Busy schedule due to unpredictable holidays

External Interface Requirements

User Interfaces

It has been required that every form's interface should be user friendly and simple to use. Beside there should be facility of accessing the system through keyboard along with the mouse

Hardware Interfaces

No extra hardware interfaces are needed.

The system will use standard hardware and data communication resources.

This includes, general network connection at the server/hosting site, network server and network management tools.

Software Interfaces

Any Web Browser that is used to view the websites.

Adobe Photoshop is used to help in creating the templates.

Communications Interfaces

This system use communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.

This application will communicate with the database that holds all the booking information.

User can contact with server side through HTTP protocol by means of a function that is called HTTP server.

This function allows the application to use the data retrieved by server to fulfill the request fired by the user.

System Features

System Feature 1

Description and Priority

This software is used to monitor the user status of the various users using the system.

Stimulus/Response Sequences

The stimulus/response for the different classes of user are:

Administrator: login, view account, view real time users.

Functional Requirements

These are some of statements of services the system should provide, how the system should react to particular inputs.

It specifies the application functionality that the developer must build into the product to enables user to accomplish their tasks.

Reservation:

•The system must allow the customer to register for reservation.

•The system shall allow the customer to view detail description of particular car.

•The system must notify on selection of unavailable car while reservation.

•The system must view list of available cars during reservation.

Log in:

•The system should allow manager to login to the system using their username and password.

•The system should allow employee to login to the system using their username and password.

•The system shall allow the manager to create new user account.

•The system shall allow manager to change account password.

Car:

•The system should allow staff to register new cars.

•The system shall allow customer to select cars in the list.

•The system shall allow customer staff to Search cars by specific record.

•The system shall allow staff to display all available car.

•The system shall allow customer to display all available car.

The system shall allow staff to display all rented car.

REQ-1: System shall contain GUI to start the interaction.

REQ-2: The web application should respond according to the user selection.

System Feature 2 (and so on)

Other Nonfunctional Requirements

Performance Requirements

The system response time for every instruction conducted by the user must not exceed more than a minimum of 10 seconds.

The system should have high performance rate when executing user's input and should be able to provide response within a short time span usually 50 second for highly complicated task and 20 to 25 seconds for less complicated task.

Safety Requirements

All transaction, logged information, updates, user activities are backup at the end of each day automatically.

Security Requirements

The system provides username and password to prevent the system from unauthorized access.

The user's password must be greater than eight characters.

The subsystem should provide a high level of security and integrity of the data held by the system. Authorized personnel of the company can gain access to the company's secured page on the system; and only users with valid password and username can login to view user's page.

Software Quality Attributes

Reliability:

The system can be used by multiple users concurrently.

Any user can access the system with using even a low performance PC.

Availability:

The system is available during 24 hours of the day.

Maintainability:

The system shall provide the capability to back-up the data.

Portability:

User can log in to the system at any time.

Chapter 2 Analysis Phase

REQUIREMENT ELICITATION

Observation:

•Manual reservation of car should be online.

•Client can easily get driver information and car detail online.

•User can easily book their car through online booking.

Project Dependencies:

•The following are identified as some of the risk factors or dependencies:

•Non-availability of required vehicles.

•Connection down.

•Busy schedule due to unpredictable holidays

Interviews:

•This methodology encapsulates two types of methods.

•These methods are closed and open interview.

•The team has selected an open interview for interviewing the manager and employees for recognizing the existing working procedure of the company.

•The team will be able be to gather more information about the company.

Questionnaires:

Q1. What makes your different from other company who rents a car?

Q2. What is the objectives of your company?

Q3. What is the mission of your company?

Q4. How many branches does your company have?

Q5. How many employees do you have?

Q6. How does your current system work?

Is it manual?

is it computerized?

is it semi computerized?

Q7. If your answer for question number 6 is choice “b” or “c” what computer applications do you use?

Q8. How many cars do you have?

Q9. What kinds of car models do you have?

Q10.What is the procedures or steps when a customer rents a car?

Q11.What qualifications are expected from a customer who wants to rent a car?

Q12.Where do you keep customer and rental information’s?

Q13.How do you keep track of which cars are rented and which are not?

Q14.How many cars a client can rent at a time?

Q15. How do you generate customer and rental information’s?

Definition of the Problem:

Candidates:

Candidates includes every type of person who have internet facility. e.g.

•A normal person

•A politician

•A doctor

•An Engineer etc.

Scope:

•The scope of this project is developing web based system for UT&T car rent company only for Usman Tour & Travels.

•The functions which cover in this project are we are focusing on making rent vehicle and online reserve.

•Customers as well as the company's staff

•Will be able to use the system effectively.

Requirement Analysis Phase II

List of inputs to the systems:

•It is car hiring website in which you can hire a car for vacations, parties, events, pick and drop service etc.

•Client will check the availability of vehicles and hire them according to their schedule.

List of Output from the system:

•First company will check the client's reservation's.

•After checking the reservations of clients they will send vehicles details according to the client requirement.

•Company will also share the details of driver and the vehicle.

Hardware and Software Requirement:

Software requirements:

•Development language >>PHP, HTML, CSS, Java-Script

•Operating system >> Window 10

•Documentation tool >>Microsoft word.

•Development Platform >> sublime Text 3

Hardware requirements:

•The system will use standard hardware and data communication resources.

•This includes, general network connection at the server/hosting site, network server and network management tools.

Feasibility Study:

Technical feasibility:

•To execute this whole start-up, we need proper working personnel.

•As well as we need a proper system through which we provide the best services to our customers.

•The requirement of human resource is as follow:

Finance manager	1
Marketing and sales manager	1
Personnel manager	1
Receptionist	1
Chauffeurs	5
Web developer	2

Table 1 Technical Feasibility

Financial Feasibility:

•We have been able to pull cash that will be enough for us to successfully launch a standard car rental services company with fleets of comfortable and reliable cars.

•We will contract the servicing and maintenances of all our cars.

•This table show the estimated figures of the first year of the start-up.

Printing & Stationary	10,000
Car maintainability	10,00,000
Fuel	5,00,000
Rent	50,000
Parking Charges	20,000
Maintenances	1,00,000
Telephone charges	25,000
Electrical Charges	30,000

Table 2 Financial Feasibility

Economic Feasibility:

Economic analysis could also be referred to as cost/benefit analysis.

It is the most frequently used method for evaluating the effectiveness of a system.

Determine the benefits and savings that are expected from a candidate system and compare them with costs.

If benefits outweigh costs, then the decision is made to design and implement the system.

An entrepreneur must accurately weigh the cost versus benefits before taking an action.

Possible questions raised in economic analysis are:

•Is the system cost effective?

•Do benefits outweigh costs?

•The cost of doing full system study

•The cost of business employee time

•Estimated cost of hardware

•Estimated cost of software/software development

•Is the project possible, given the resource constraints?

•What are the savings that will result from the system?

Chapter 3 Design Phase

Design Phase

Level Zero Diagram

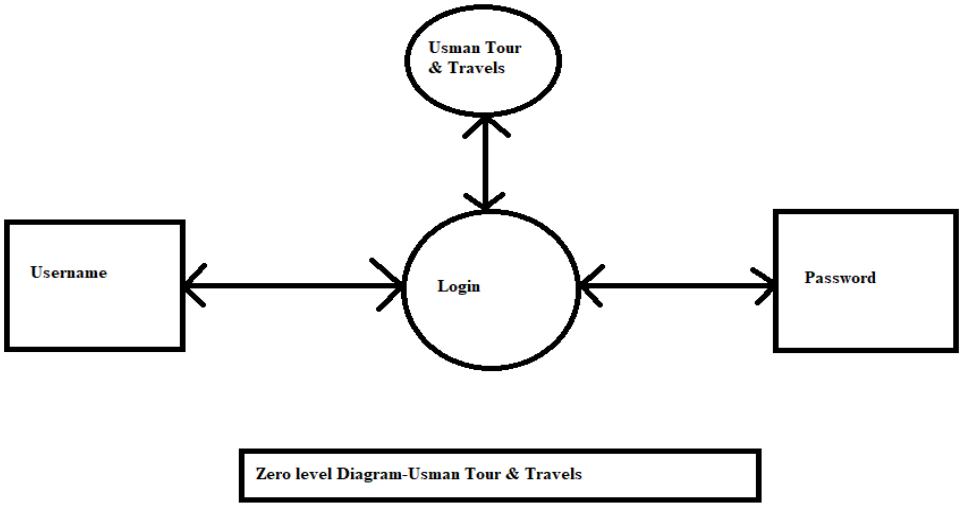

Figure 7 Zero level

Level First Diagram:

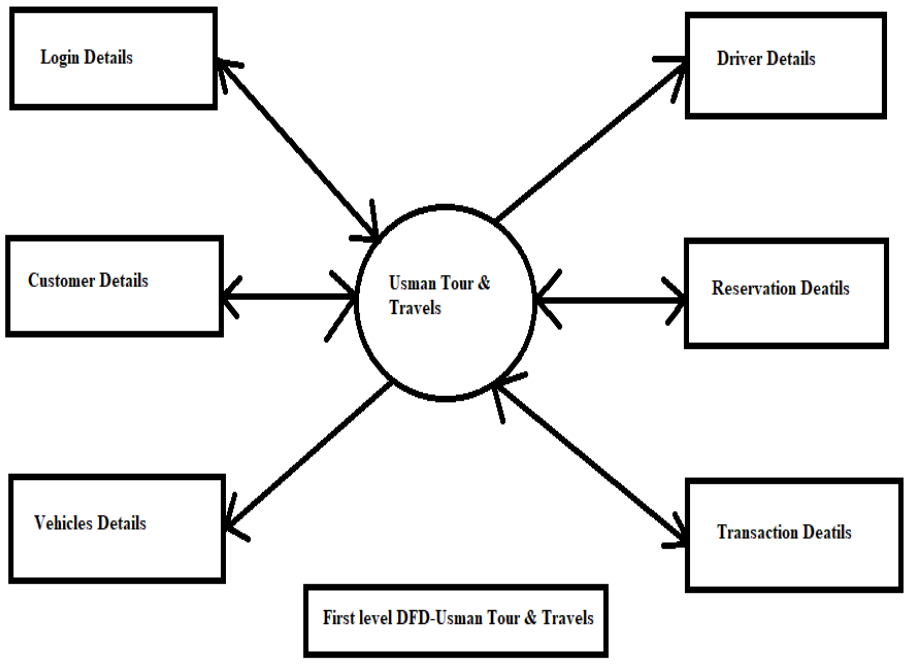

Figure 8 First Level

Level Second Diagram:

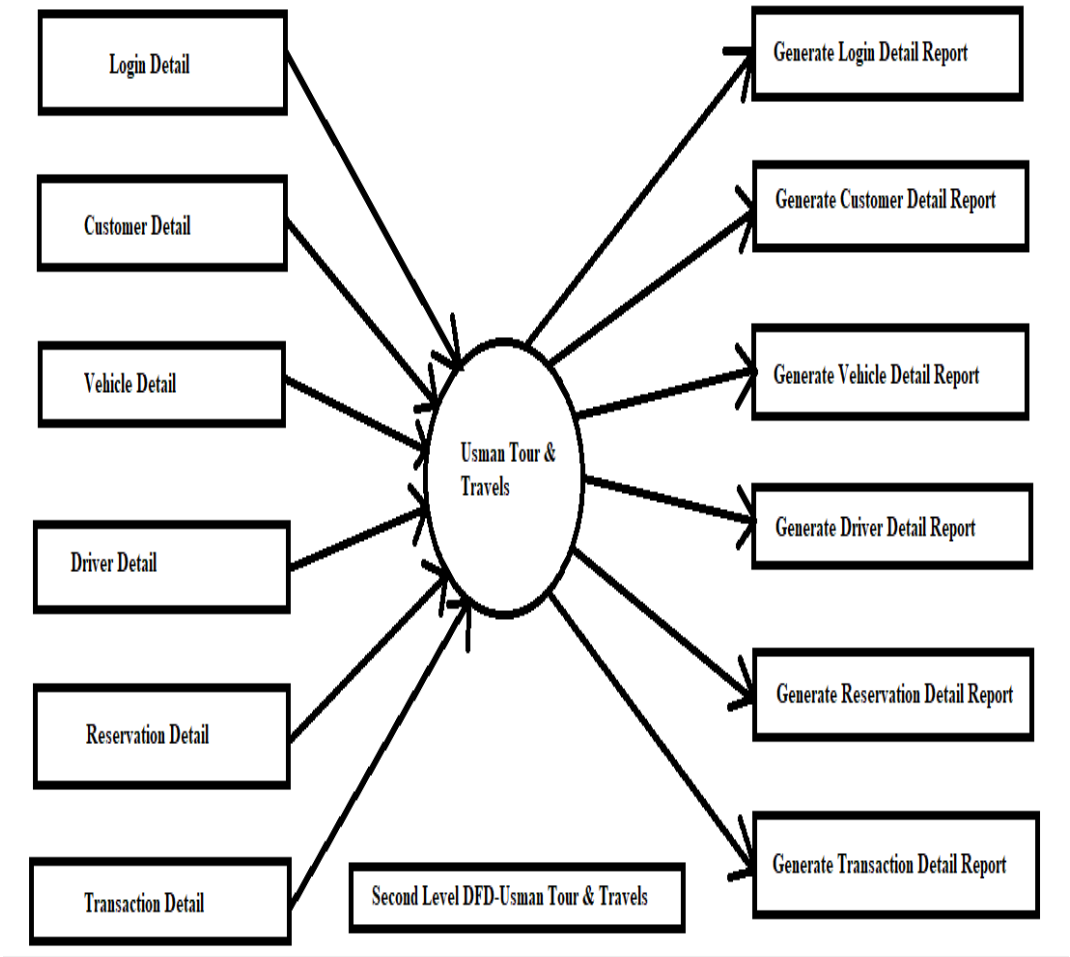

Figure 9 Second level

Design Model:

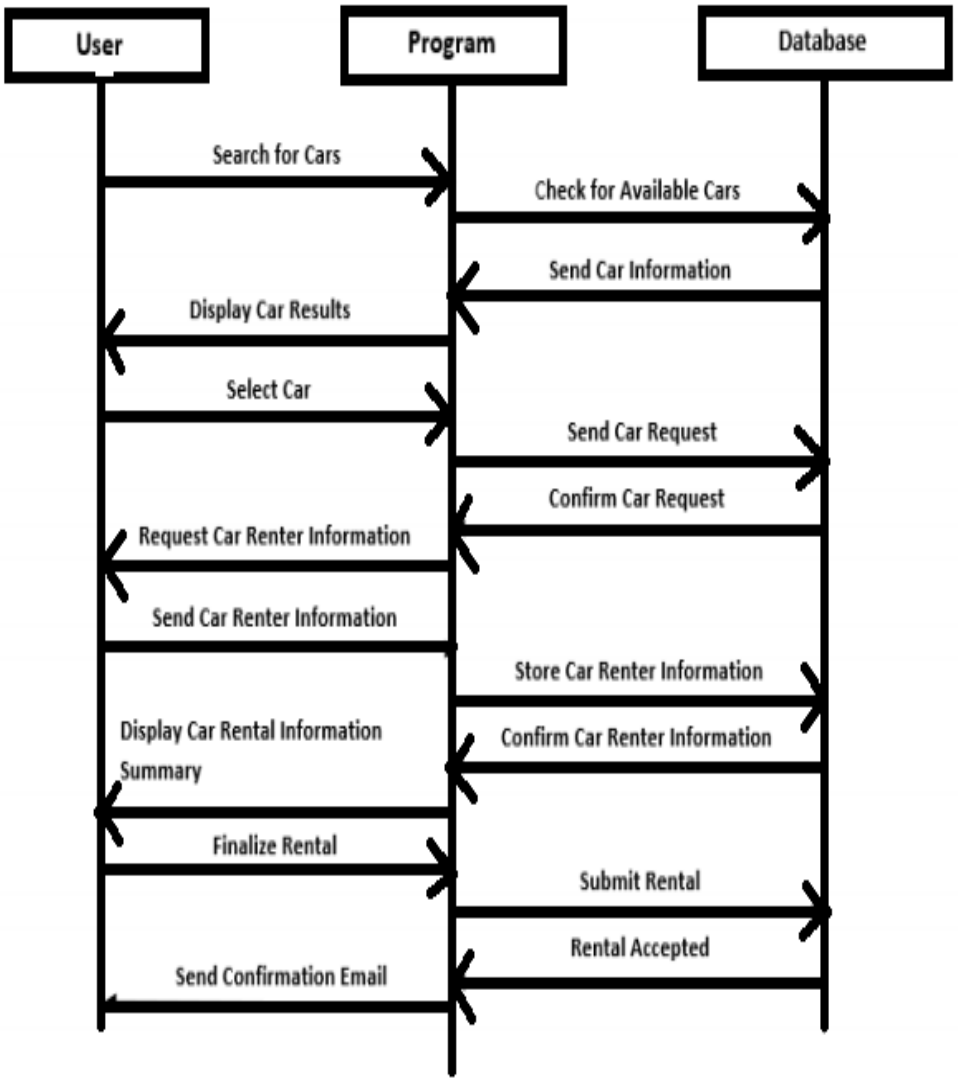

Figure 10 Design Model

Database Design (Data Dictionary):

Login Table:

#	Name	Type	Collation	Attributes	Null	Default
1	id	int(100)			No	*None*
2	username	varchar(25)	latin1_swedish_ci		No	*None*
3	password	varchar(30)	latin1_swedish_ci		No	*None*
4	role	varchar(25)	latin1_swedish_ci		No	*None*
5	email	varchar(60)	latin1_swedish_ci		No	*None*

Table 3 login

Customer

#	Name	Type	Collation	Attributes	Null	Default
1	id	int(100)			No	*None*
2	username	varchar(25)	latin1_swedish_ci		No	*None*
3	email	varchar(30)	latin1_swedish_ci		No	*None*
4	contact no	int(25)			No	*None*
5	address	varchar(100)	latin1_swedish_ci		No	*None*
6	license	varchar(20)	latin1_swedish_ci		No	*None*
7	password	varchar(20)	latin1_swedish_ci		No	*None*

Table 4 Customer

Vehicle

#	Name	Type	Collation	Attributes	Null	Default
1	id	int(150)			No	*None*
2	Vehicle_image	blob			Yes	*None*
3	car_name	varchar(25)	latin1_swedish_ci		No	*None*
4	reg_num	varchar(30)	latin1_swedish_ci		No	*None*
5	model	int(10)			No	*None*
6	color	varchar(20)	latin1_swedish_ci		No	*None*
7	status	varchar(15)	latin1_swedish_ci		No	*None*
8	rent	int(20)			No	*None*
9	fuel	varchar(10)	latin1_swedish_ci		No	*None*

Table 5 vehicle

Driver

#	Name	Type	Collation	Attributes	Null	Default
1	id	int(100)			No	None
2	name	varchar(25)	latin1_swedish_ci		No	None
3	contact num	int(30)			No	None
4	Status	varchar(25)	latin1_swedish_ci		No	not available
5	cnic	int(60)			No	None
6	address	varchar(20)	latin1_swedish_ci		No	None
7	license no	varchar(64)	latin1_swedish_ci		No	None
8	experience	varchar(10)	latin1_swedish_ci		No	None

Table 6 Diver

Rates

#	Name	Type	Collation	Attributes
1	model	int(10)		
2	rent/day	varchar(25)	latin1_swedish_ci	
3	night/charges	int(30)		

Table 7 Rates

Transaction

#	Name	Type	Collation	Attributes	Null	Default
1	id	int(100)			No	*None*
2	reservation_id	int(11)			No	*None*
3	status	varchar(30)	latin1_swedish_ci		No	not paid
4	net_amount	int(11)			No	*None*
5	advance_paid	varchar(11)	latin1_swedish_ci		No	*None*

Table 8 Transaction

Reservation

#	Name	Type	Collation	Attributes	Null	Default
1	id	int(100)			No	None
2	customer_id	varchar(25)	latin1_swedish_ci		No	None
3	vehicle_id	varchar(30)	latin1_swedish_ci		No	None
4	days	varchar(25)	latin1_swedish_ci		No	None
5	location	varchar(60)	latin1_swedish_ci		No	None

Table 9 Reservation

ERD Diagram:

Login details

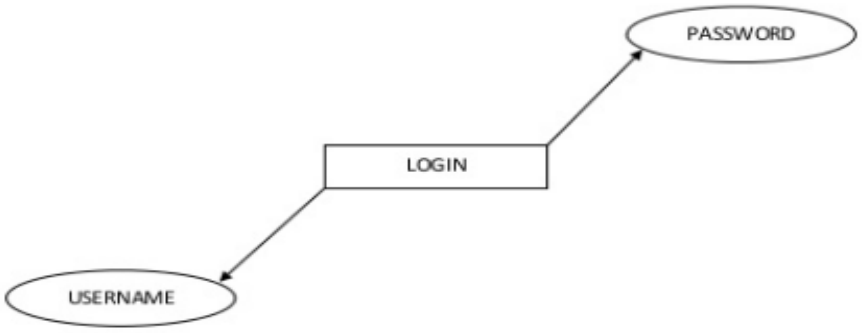

Figure 11 ERD Part 1

Customer Details:

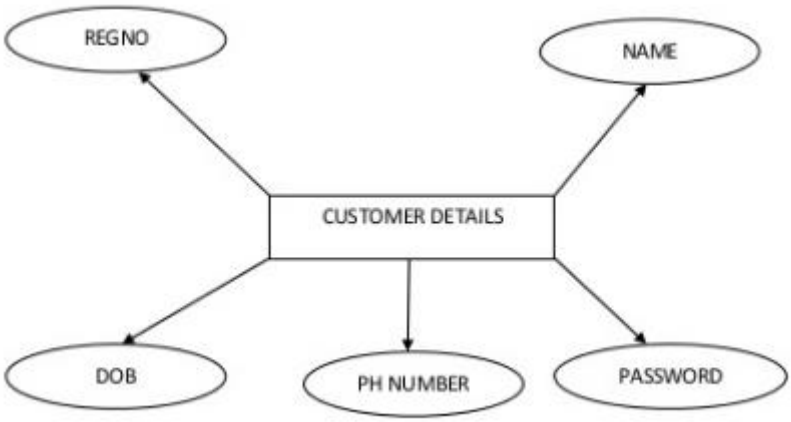

Figure 12 ERD Part 2

Driver Details:

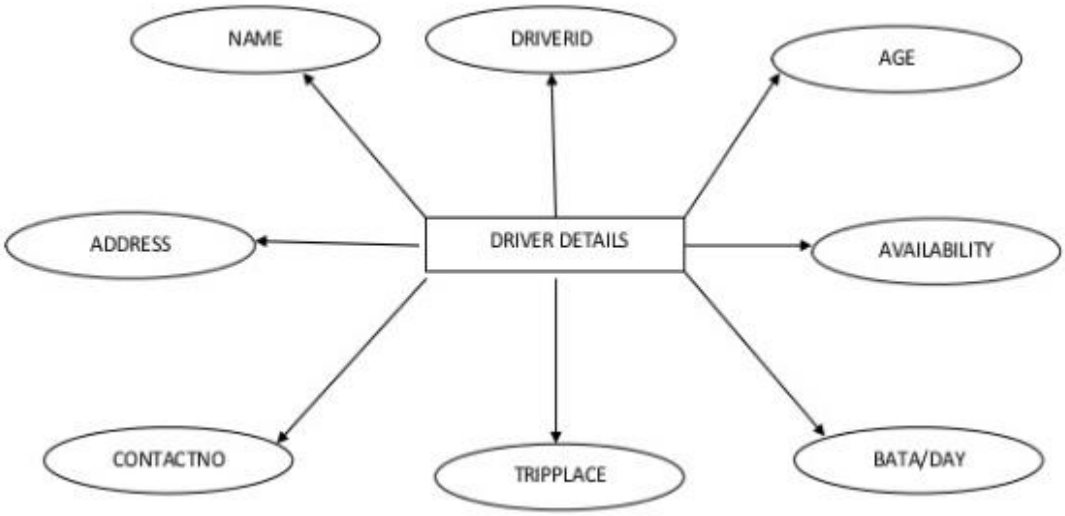

Figure 13 ERD Part 3

Reservation details:

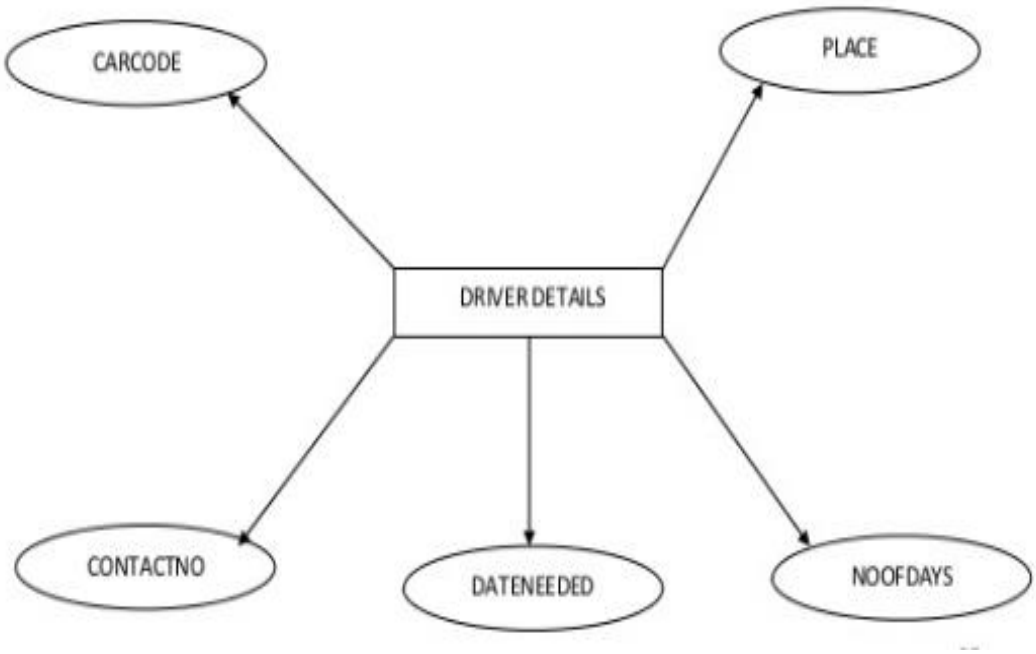

Figure 14 ERD Part4

Transaction Details:

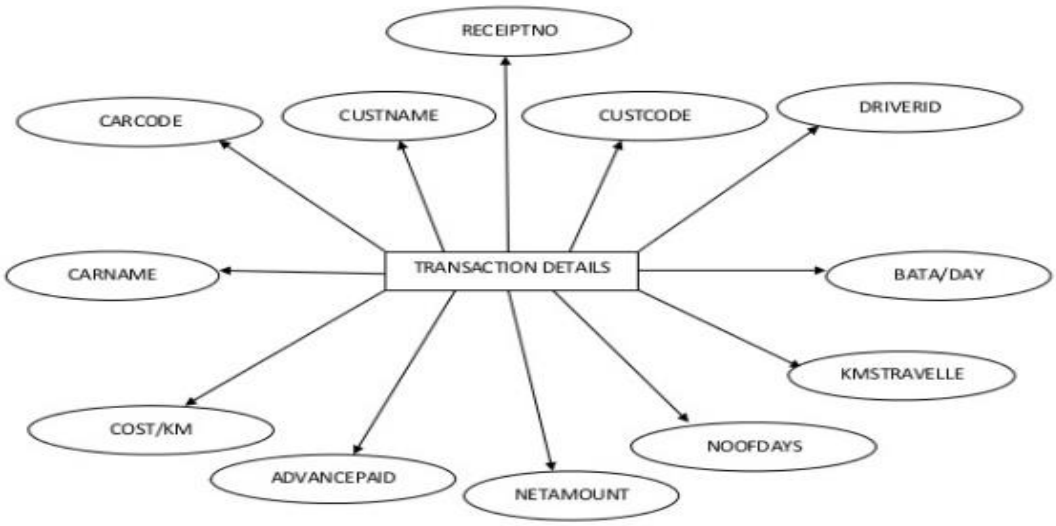

Figure 15 ERD Part 5

Screen Design:

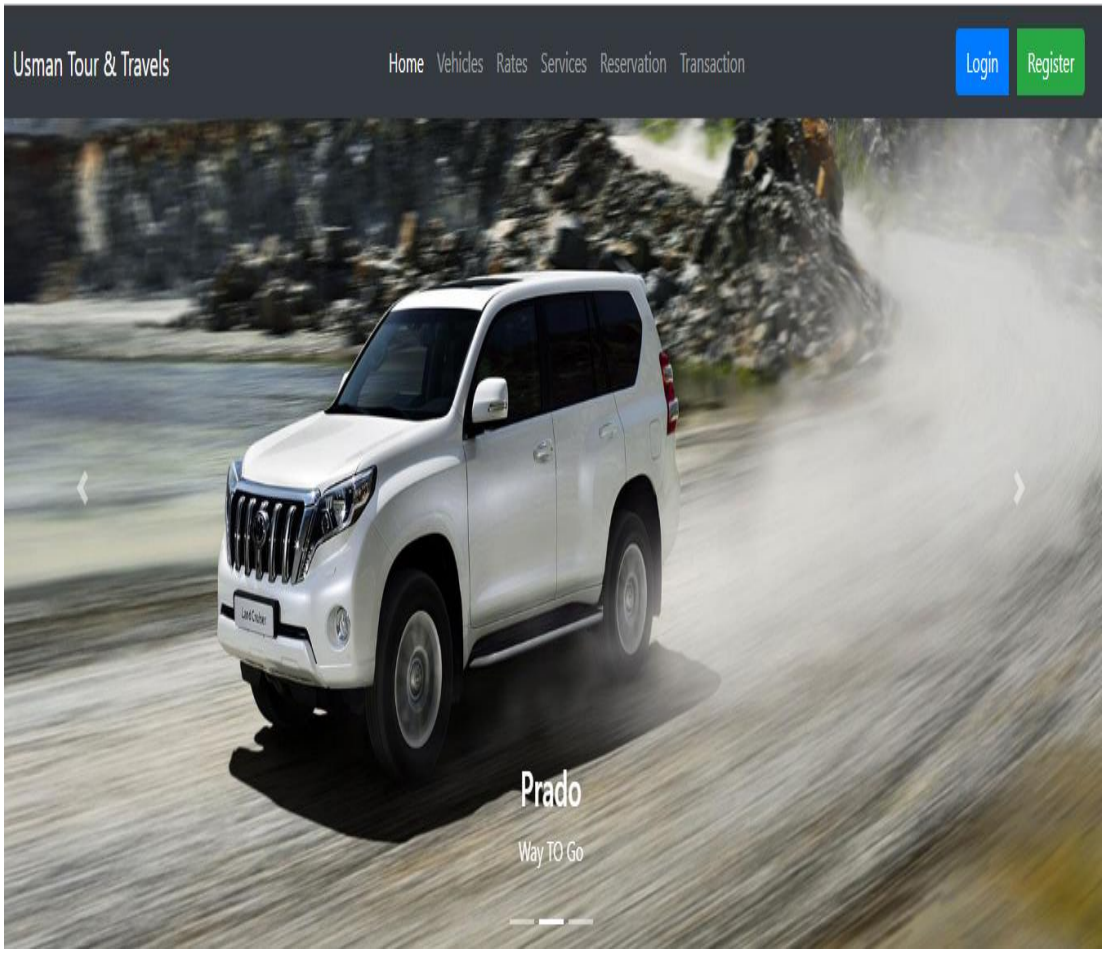

Figure 16 Design 1

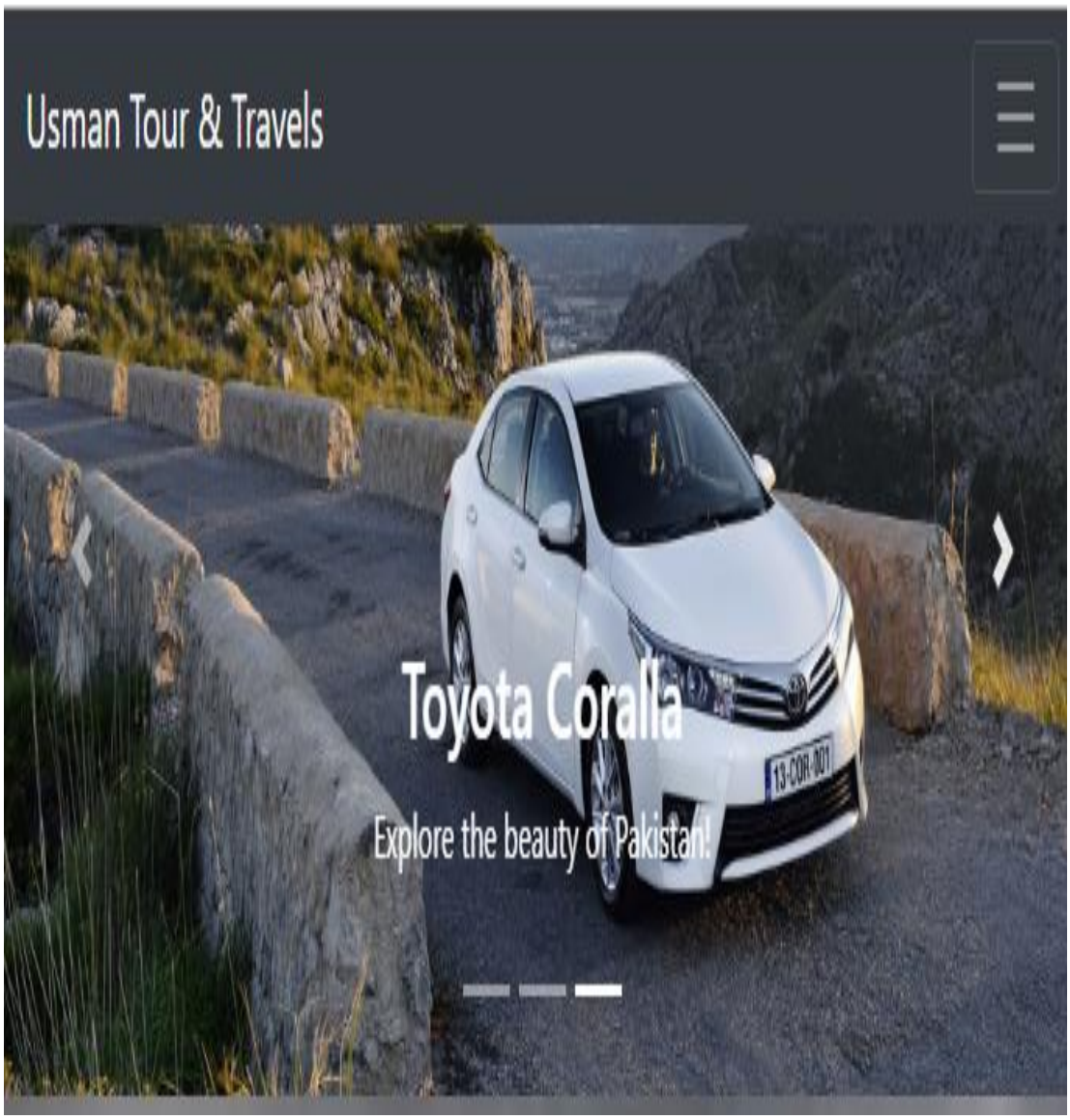

Figure 17 Design 2

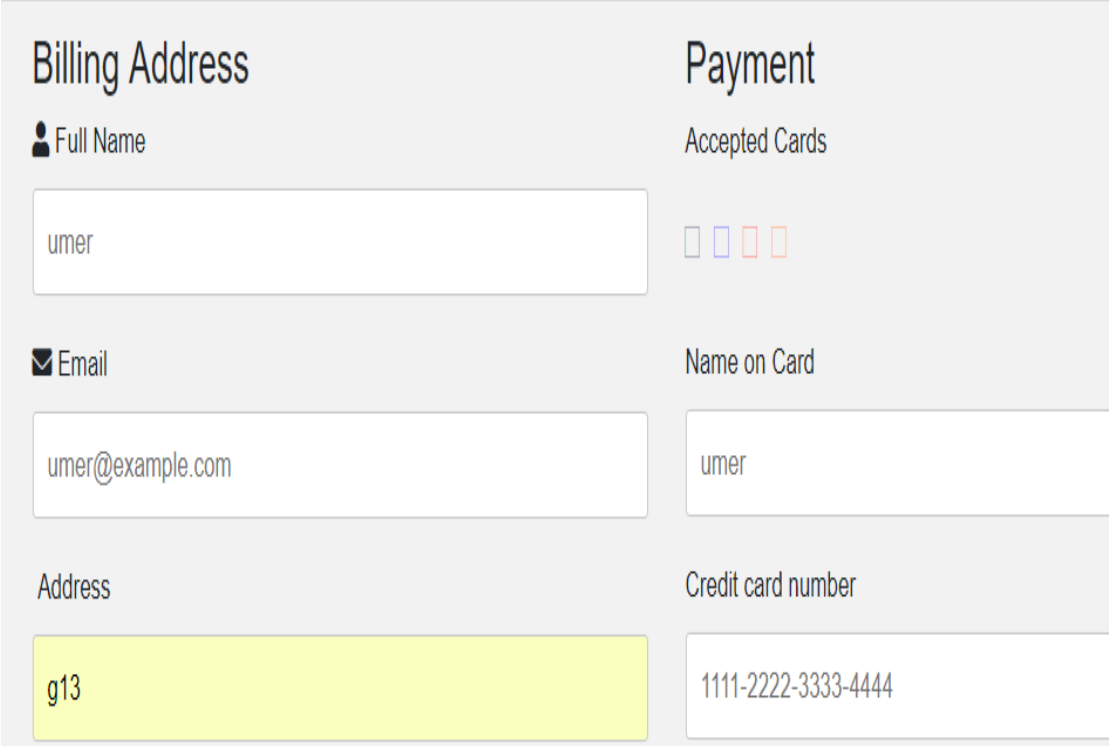

Figure 18 Design 4

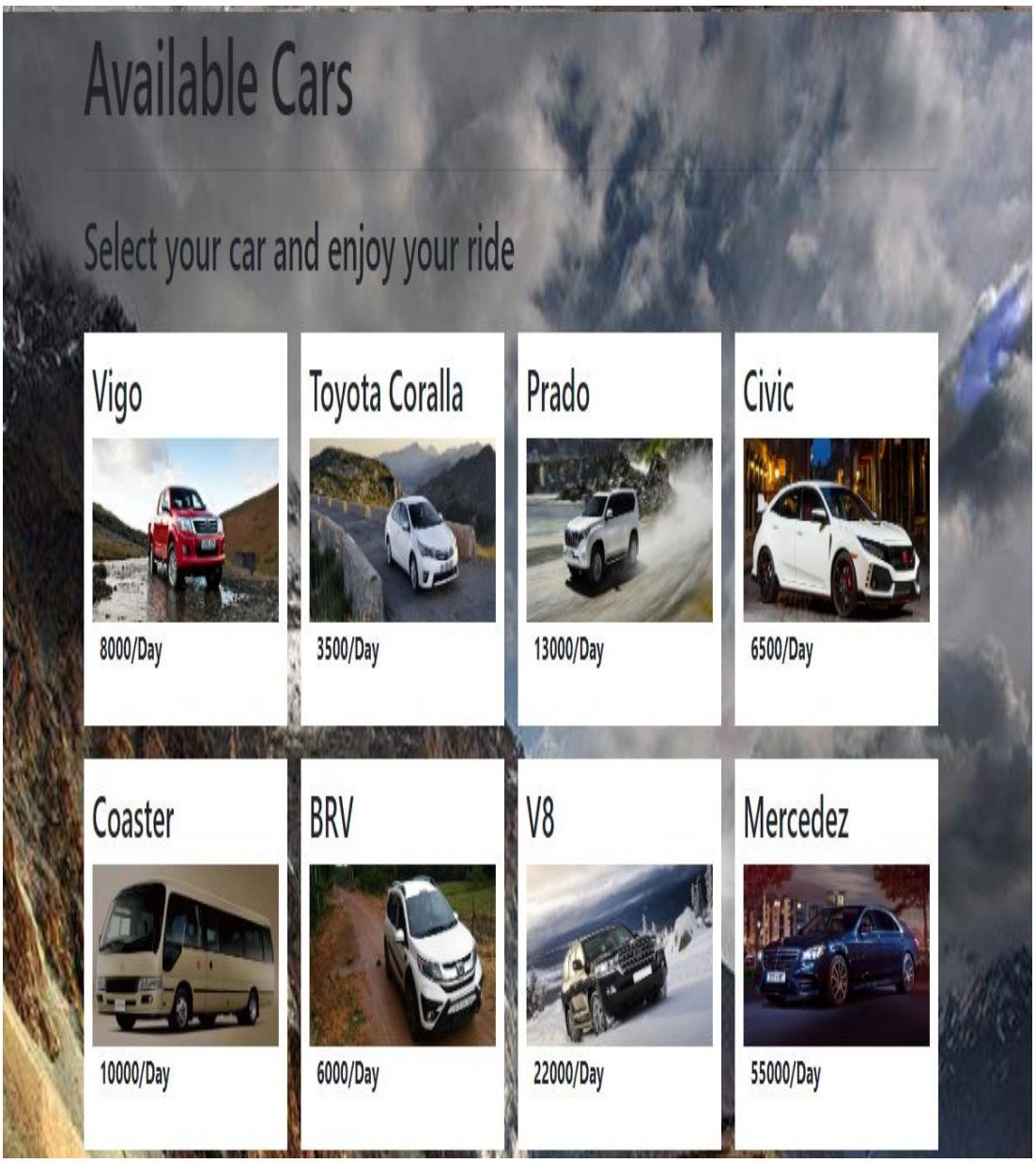

Figure 19 Design 5

Chapter 4 Implementation Phase

Implementation Phase

Coding

```
  <?php
 include ("server.php");
?>


<!doctype html>
<html lang="en">
 <head>
   <!-- Required meta tags -->
   <meta charset="utf-8">
   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">


   <!-- Bootstrap CSS -->
   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css">
 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
```

```
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
integrity="sha384-
MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdkn
LPMO" crossorigin="anonymous">

    <link rel="stylesheet"
href="https://use.fontawesome.com/releases/v5.4.1/css/all.css" integrity="sha384-
5sAR7xN1Nv6T6+dT2mhtzEpVJvfS3NScPQTrOxhwjIuvcA67KV2R5Jz6kr4abQsz
" crossorigin="anonymous">

    <link rel="stylesheet" type="text/css" href="indexStyle.css">

    <title>UsmanTour&Travels</title>
  </head>
  <body>
<nav class="navbar navbar-expand-md navbar-dark bg-dark fixed-top">
  <a class="navbar-brand" href="#">Usman Tour & Travels</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-
expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
```

```
  </button>
  <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
    <div class="navbar-nav mx-auto">
      <a class="nav-item nav-link active" href="index.php">Home</a>
      <a class="nav-item nav-link" href="vehecle.php">Vehicles</a>
      <a class="nav-item nav-link" href="Rates.php">Rates</a>
      <a class="nav-item nav-link" href="Services.php">Services</a>
      <a class="nav-item nav-link" href="Reservation.php">Reservation</a>
      <a class="nav-item nav-link" href="Transaction.php">Transaction</a>

    </div>
<?php
    if (isset($_SESSION['username']))
    {
       echo '<div class="dropdown">
        <button class="btn btn-secondary dropdown-toggle" type="button" id="dropdownMenuButton" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">'.
          $_SESSION['username'].
        '</button>
        <div class="dropdown-menu" aria-labelledby="dropdownMenuButton">
```


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```
      <a class="dropdown-item" href="profile.php">my profile</a>
      <a class="dropdown-item" href="logout.php">logout</a>
    </div>
    </div>';
  }

  else
  {
   ?>
    <div class="btn-group">
     <button data-toggle="modal" data-target="#loginModal" name="loginBtn" style="margin: 5px;" class="btn btn-primary">Login</button>
     <button data-toggle="modal" data-target="#regModal" name="registerBtn" style="margin: 5px;" class="btn btn-success">Register</button>
    </div>
  <?php
  }
  ?>
</div>
</nav>
<!--Login Modal -->
```

```
<div class="modal" id="loginModal">
  <div class="modal-dialog">
    <div class="modal-content">

      <!-- Modal Header -->
      <div class="modal-header">
        <h4 class="modal-title">Login</h4>
        <button type="button" class="close" data-dismiss="modal">&times;</button>
      </div>

      <!-- Modal body -->
      <div class="modal-body">
        <div class="container">

  <form method="POST">
    <div class="form-group">
      <label for="email">Email:</label>
      <input type="email" class="form-control" id="email" placeholder="Enter email"
name="email">
    </div>
    <div class="form-group">
```

```
    <label for="pwd">Password:</label>
    <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="password">
  </div>
  <div class="form-group form-check">
    <label class="form-check-label">
      <input class="form-check-input" type="checkbox" name="remember"> Remember me
    </label>
  </div>
  <button name="loginBtn" type="submit" class="btn btn-primary">Submit</button>
 </form>
</div>
<h1>Available Cars</h1>
<hr>


<h2>Select your car and enjoy your ride</h2>



<!-- Portfolio Gallery Grid -->
```

```
<div class="row">
  <div class="column">
    <div class="content">
      <h3>Vigo</h3>
      <img src="images/p1.jpg" alt="Mountains" style="width:100%">
      <p><b> &nbsp8000/Day  </b></p>
    </div>
  </div>
  <div class="column">
    <div class="content">
      <h3>Toyota Coralla</h3>
    <img src="images/image4.jpg" alt="Lights" style="width:100%">
      <p><b> &nbsp3500/Day  </b></p>
    </div>
  </div>
  <div class="column">
    <div class="content">
      <h3>Prado</h3>
    <img src="images/image3.jpg" alt="Nature" style="width:100%">
      <p><b> &nbsp13000/Day </b></p>
    </div>
```

```
 </div>
 <div class="column">
  <div class="content">
   <h3>Civic</h3>
  <img src="images/image1.jpg" alt="Mountains" style="width:100%">
   <p><b> &nbsp6500/Day </b></p>
  </div>
 </div>


 <div class="column">
  <div class="content">
   <h3>Coaster</h3>
  <img src="images/p3.jpg" alt="Lights" style="width:100%">
   <p><b> &nbsp10000/Day </b></p>
  </div>
 </div>


 <div class="column">
  <div class="content">
   <h3>BRV</h3>
  <img src="images/p4.jpg" alt="Lights" style="width:100%">
```

```
    <p><b> &nbsp6000/Day </b></p>
   </div>
  </div>

  <div class="column">
   <div class="content">
    <h3>V8</h3>
   <img src="images/p5.jpg" alt="Lights" style="width:100%">
    <p><b> &nbsp22000/Day </b></p>
   </div>
  </div>

  <div class="column">
   <div class="content">
    <h3>Mercedez</h3>
   <img src="images/p6.jpg" alt="Lights" style="width:100%">
    <p><b> &nbsp55000/Day </b></p>
   </div>
  </div>
<!-- END GRID -->
</div>
```

```
<div class="footer-bottom-area bg-dark-light section-padding-sm">
        <div class="container">
          <div class="row widgets footer-widgets">

            <div class="col-lg-3 col-md-6 col-12">
              <div class="single-widget widget-about">
                <h5 class="widget-title">About Us</h5>

                <p>We are a team of designers and developers that create high quality </a></p>
              </div>
            </div>

            <div class="col-lg-3 col-md-6 col-12">
              <div class="single-widget widget-quick-links">

              </div>
            </div>
```


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```
                <div class="col-lg-3 col-md-6 col-12">
                    <div class="single-widget widget-quick-links">
                        <h5 class="widget-title">Customer Service</h5>
                        <ul>
                            <li><a href="#">Driver Details</a></li>
                            <li><a href="Rates.php">Rates</a></li>
                            <li><a href="#">Vehicles</a></li>
                            <li><a href="#">Return Policy</a></li>
                            <li><a href="#">Contact Us</a></li>
                        </ul>
                    </div>
                </div>

                <div class="col-lg-3 col-md-6 col-12">
                    <div class="single-widget widget-contact">
                        <h5 class="widget-title">Contact Us</h5>
                        <ul>
                            <li class="address">
                                <span class="icon"><i class="fa fa-map-
marker"></i></span>
                                <p>Address Jahangir Plaza, Blue Area</p>
```

```
                        </li>
                        <li class="phone">
                            <span class="icon"><i class="fa fa-phone"></i></span>
                            <p><a href="#">+923348757739</a></p>
                        </li>
                        <li class="fax">
                            <span class="icon"><i class="fa fa-fax"></i></span>
                            <p><a href="#">+91 7568 54 3012</a></p>
                        </li>
                        <li class="email">
                            <span class="icon"><i class="fa fa-envelope-
o"></i></span>
                            <p><a href="#">umarthechampion@hotmail.com</a></p>
                        </li>
                    </ul>
                </div>
            </div>

        </div>
    </div>
</div>
```

```
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script  src="https://code.jquery.com/jquery-3.3.1.slim.min.js"  integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
integrity="sha384-
ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIP
m49" crossorigin="anonymous"></script>
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
integrity="sha384-
ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwE
ULTy" crossorigin="anonymous"></script>
  </body>
</html>
<html>
<head>
```

```
 <title>Admin</title>
 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css">
 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">

   <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.4.1/css/all.css" integrity="sha384-5sAR7xN1Nv6T6+dT2mhtzEpVJvfS3NScPQTrOxhwjIuvcA67KV2R5Jz6kr4abQsz" crossorigin="anonymous">
 <link rel="stylesheet" type="text/css" href="adminstyle.css">
</head>
 <body>
        <nav class="navbar navbar-expand-md navbar-dark bg-dark fixed-top">
                <a class="navbar-brand" href="#">Usman Tour & Travels</a>
                <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
```

```
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
            <div class="navbar-nav mx-auto">
                <a class="nav-item nav-link active" href="adminpanel.php">Home <span class="sr-only">(current)</span></a>
                <a class="nav-item nav-link" href="addvehicles.php">Add Vehicles</a>
                <a class="nav-item nav-link" href="viewreservations.php">View Reservations</a>
                <a class="nav-item nav-link" href="viewtransaction.php">View Transactions</a>
                <a class="nav-item nav-link" href="adddriver.php">Add Drivers</a>
                <a class="nav-item nav-link" href="logout.php">Logout</a>
            </div>
            </div>
    </nav>
    <div class="container">
        <h1>Welcome Admin</h1>
    </div>
```

```
 </body>
</html>


<?php
$db = mysqli_connect("localhost", "root", "", "usmantours");
session_start();


if (isset($_POST['regBtn']))
{
 $name = $_POST['name'];
 $email = $_POST['email'];
 $contact = $_POST['contact'];
 $address = $_POST['address'];
 $license = $_POST['license'];
 $password = $_POST['password'];


 $sql = "INSERT INTO customer(`username`,`email`,`contact
no`,`address`,`license`,`password`)
VALUES('$name','$email','$contact','$address','$license','$password')";
 $sql_var = "INSERT INTO users(`username`,`password`,`role`,`email`)
VALUES('$name','$password','customer','$email')";
```


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```
 $result = mysqli_query($db, $sql);
 $r = mysqli_query($db, $sql_var);
 if ($result)
 {
                    echo "<script type='text/javascript'>alert('saved');</script>";
 }
 else
 {
          echo "<script type='text/javascript'>alert('error');</script>";
 }
}

if (isset($_POST['loginBtn']))
{
 $email = $_POST['email'];
 $password = $_POST['password'];

 $sql = "SELECT * FROM users WHERE email = '$email' AND password =
'$password'";
 $result = mysqli_query($db, $sql);
```

```
 $count = mysqli_num_rows($result);



 if ($count>0)

 {

        while ($row= mysqli_fetch_array($result, MYSQLI_ASSOC))

        {

                $_SESSION['username'] = $row['username'];

                if ($row['role']== 'admin')

                {

                        echo '<script> location.href = "adminpanel.php" </script>';

                }

                else

                {

                        echo '<script> location.href = "index.php" </script>';

                }

        }

 }

 else

 {

        echo "<script type='text/javascript'>alert('wrong pass');</script>";

 }
```

```
}
if (isset($_POST['AddVeh']))
{
 $target_dir = "uploads/";
 $target_file = $target_dir . basename($_FILES["img"]["name"]);
 $uploadOk = 1;
 $imageFileType = strtolower(pathinfo($target_file,PATHINFO_EXTENSION));
 $veh_name = $_POST['veh_name'];
 $reg = $_POST['reg_no'];
 $model = $_POST['model'];
 $color = $_POST['color'];
 $status = $_POST['status'];
 $rent = $_POST['rent'];
 $fuel = $_POST['fuel'];
 $sql = "INSERT INTO vehicles(`car_name`,`reg_num`,`model`,`color`,`status`,'rent',`fuel`) VALUES($veh_name','$reg','$model','$color','$status','$rent','fuel')";
 $result = mysqli_query($db, $sql);
 if($result)
 {
        echo "<script type='text/javascript'>alert('Vehicle Added');</script>";
```

```
 }
 else
 {
        echo "<script type='text/javascript'>alert('Query not run');</script>";
 }
}
?>


body, html{
 height: 100%;
 margin: 0px auto;
}

* {
   box-sizing: border-box;
}
.background{
        background-image: url("Images/Background.jpg");
        height: 100%;
        background-size: cover;
        background-repeat: no-repeat;
        background-position: right;

}

.topNav{
```

```
 background-color: #ffff;
 width: 100%;
 height: 120px;
}

 .carousel-inner img {
      width: 100%;
      height: 100%;
  }



/* Center website */
.main {
    max-width: 1000px;
    margin: auto;

}

h1 {
    font-size: 50px;
    word-break: break-all;
}

.row {
    margin: 8px -16px;
}

/* Add padding BETWEEN each column */
```

```
.row,
.row > .column {
    padding: 8px;
}

/* Create four equal columns that floats next to each other */
.column {
    float: left;
    width: 25%;
}

/* Clear floats after rows */
.row:after {
    content: "";
    display: table;
    clear: both;
}

/* Content */
.content {
    background-color: white;
    padding: 10px;
}

/* Responsive layout - makes a two column-layout instead of four columns */
@media screen and (max-width: 900px) {
    .column {
        width: 50%;
    }
}
```

```
/* Responsive layout - makes the two columns stack on top of each other instead of next to each other */
@media screen and (max-width: 600px) {
    .column {
        width: 100%;
    }
}

.content:hover{

 transform: scale(1.07);
}
.content{
 transition: 0.5s;
}

.jumbotron:hover{

 transform: scale(1.02);
}

.jumbotron{
 transition: 0.5s;
}

.footer {
    position: fixed;
    left: 0;
    bottom: 0;
```

```
    width: 100%;
    background-color: red;
    color: white;
    text-align: center;
}

.color{
 background-image: url("images/wallp1.jpg");
 background-position: center;
 background-repeat: no-repeat;
 background-size: cover;
}
```

Chapter 5 Testing & Evaluation Phase

INTRODUCTION TO SYSTEM TESTING

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub-assemblies, assemblies and/or a finished product It is the process of exercising software with the intent of ensuring that the

Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

TYPES OF TESTING

Unit testing

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .it is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

Integration testing

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with

the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

Functional test

Functional tests provide systematic demonstrations that functions tested are available as specified by the business and technical requirements, system documentation, and user manuals.

Functional testing is centered on the following items:

Valid Input	identified classes of valid input must be accepted.
Invalid Input	identified classes of invalid input must be rejected.
Functions	identified functions must be exercised.
Output	identified classes of application outputs must be exercised

Systems/Procedures: interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes, and successive processes

must be considered for testing. Before functional testing is complete, additional tests are identified and the effective value of current tests is determined.

System Test:

System testing ensures that the entire integrated software system meets requirements. It tests a configuration to ensure known and predictable results. An example of system testing is the configuration oriented system integration test. System testing is based on on process descriptions and flows, emphasizing pre-driven process links and integration points.

White Box Testing:

White Box Testing is a testing in which in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is purpose. It is used to test areas that cannot be reached from a black box level.

Black Box Testing:

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box.

you cannot “see” into it. The test provides inputs and responds to outputs without considering how the software works.

Unit Testing:

Unit testing is usually conducted as part of a combined code and unit test phase of the software lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

Test strategy and approach

Field testing will be performed manually and functional tests will be written in detail.

Test objectives

•All modules must work properly.

•All modules are placed on their respective Option.

•Correct variables are being used.

•Correct variables are saved and retrieved.

Features to be tested

•Can Support multi adapter.

•Can download missing dependencies.

•Stopping at user command.

INTEGRATION TESTING

Software integration testing is the incremental integration testing of two or more integrated software components on a single platform to produce failures caused by interface defects.

The task of the integration test is to check that components or software applications, e.g. components in a software system or – one step up – software applications at the company level – interact without error.

Test Results

All the test cases mentioned above passed successfully. No defects encountered.

ACCEPTANCE TESTING:

User Acceptance Testing is a critical phase of any project and requires significant participation by the end user. It also ensures that the system meets the functional requirements.

Test Results:

All the test cases mentioned above passed successfully. No defects encounte

Test Cases

Project Name: Usman Tour & Travels

Test Case

Test Case ID: Fun_1
Test Priority (Low/Medium/High): Med
Module Name: login screen
Test Title: Verify login with valid username and password
Description: Test the login page

Test Designed by: <Umer Sajjad>
Test Designed date: <Tue 8/01/19>
Test Executed by: <Umer Sajjad>
Test Execution date: <Tue 10/01/19>

Pre-conditions: User has valid username and password
Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Navigate to login page	umarsajjad@hotmail.com	User should be able to login	User is navigated to	Pass	
2	Provide valid username	Umer Sajjad		dashboard with successful		
3	Provide valid password	123456		login		
4	Click on Login button					

Post-conditions:
User is validated with database and successfully login to account. The account session details are logged in database.

Table 10 Test case 1

Project Name: Usman Tour & Travels

Test Case

Test Case ID: Fun 2
Test Priority (Low/Medium/High): Med
Module Name: Checking Driver
Test Title: Verify the available Driver
Description: Test the login page to see the available driver

Test Designed by: <Umer Sajjad>
Test Designed date: <Tue 8/01/19>
Test Executed by: <Umer Sajjad>
Test Execution date: <Tue 10/01/19>

Pre-conditions: User has valid username and password
Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Navigate to login page	zeeshan@gmail.com	User should be able to login	User is navigated to	Pass	
2	Provide valid username	Zeeshan		dashboard with successful		
3	Provide valid password	12345		login		
4	Click on Login button					
5	Status of driver		Available / Not Available	Available	Pass	

Post-conditions:
User is validated with database and successfully login to account. The account session details are logged in database.

Table 11 Test case 2

Project Name: Usman Tour & Travels

Test Case Template

Test Case ID: Fun_1
Test Priority (Low/Medium/High): Med
Module Name: login screen
Test Title: Verify login with valid username and password
Description: Test the login page

Test Designed by: <Umer Sajjad>
Test Designed date: <Tue 8/01/19>
Test Executed by: <Umer Sajjad>
Test Execution date: <Tue 10/01/19>

Pre-conditions: User has valid username and password
Dependencies:

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1	Navigate to login page	umarsajjad@hotmail.com	User should be able to login	User is navigated to	Pass	
2	Provide valid username	Umer Sajjad		dashboard with successful		
3	Provide valid password	123456		login		
4	Click on Login button					

Post-conditions:
User is validated with database and successfully login to account. The account session details are logged in database.

Table 12 Test case 3

Chapter 6 Conclusion & Future Enhancement

Conclusion

The main aim of making Usman Tour and Travels website is to transform the manual process of hiring car to a computerize system. To ease customer's task whenever they need to rent a car. This website can further be enhanced to meet the user's requirements. Provide online car catalog for users as an alternative for them to select car if they want to choose car by their own. It is easily approachable for the user to book a car whenever they need. The web based car rental system has offered an advantage to both customer as well as Car Rental Company to efficiently and effectively manage the business and satisfies customer's need at the click of button.

Future Enhancement

In future there will be a lot of thing which will be added in the websites to help and more provide facilities to the customer. Some important facilities which will be added in the website are:

In future we will provide more advance software for Usman Tour & Travels which include more facilities to the customer.

- Integrate multiple load balancers to distribute the loads of the system.
- Create more master and slave database structure to reduce the overload of the database queries.
- Support Graphical User Interface.

Chapter 7

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Chapter 8
Appendix

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Glossary

UT&T: Usman Tour and Travels.

Waterfall model: The waterfall model is a sequential design process, used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of conception, initiation, analysis, design, construction, testing, production/implementation and maintenance.

Data flow diagram: A data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system, modeling its process aspects. A DFD is often used as a preliminary step to create an overview of the system, which can later be elaborated.

Use case: In software and systems engineering, a use case is a list of actions or event steps, typically defining the interactions between a role (known in the Unified Modeling Language as an actor) and a system, to achieve a goal. The actor can be a human or other external system.

Feasibility study: an assessment of the practicality of a proposed plan or method. "A feasibility study into the possibility of harnessing natural water power"

Context Diagram: The Context Diagram shows the system under consideration as a single high-level process and then shows the relationship that the system has with other external entities.

DFD: A Data-Flow Diagram (DFD) is a graphical visualization of the movement of data through an information system. DFDs are one of the three essential components of the structured-systems analysis and design method (SSADM).

Data modeling: Data modeling is a well-established pseudo-discipline. Most people in the information technology field are familiar with some kind of data structure diagram (sometimes referred to more specifically as entity relationship diagrams).

Administrator: An administrator is a person whose job involves helping to organize and supervise the way that an organization or institution functions.

Database: Collection of all the information monitored by this system.

Expedition: A journey undertaken by a group of people with a particular purpose.

HTTP: HTTP means Hypertext Transfer Protocol. HTTP is the underlying protocol used by the World Wide Web.

Operating System: An operating system is system software that manages computer hardware and software resources

Processor: A processor is the logic circuitry that responds to and processes the basic instructions that drive a computer.

Software Requirements Specification: A document that completely describes all of the functions of a proposed system and the constraints under which it must operate.

User: A is a user is a person who utilizes a computer or network service.