

CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

In olden days people as to walk into travel agency company to buy the tickets. To overcome this problem '**Online Bus Ticket Booking System**' are introduced. Online Bus Ticket Reservation System is a Web based application that works within a reserve seats, cancellation of reservation and different types of route enquires used on securing quick reservations. this project will provide an option to the customer to book the tickets in online. Enquiries used on securing quick reservations. this project will provide an option to the customers to book the tickets in online. using this website customers can book online tickets and reserve the seat. ticket booking and tracking bus and travel made. It maintains all customer details, bus details, reservation details. In order to achieve the design, Structured Systems Analysis and Design Methodology was adopted.

1.2 DESCRIPTION

Badariah (2007) emphasized that the online ticket booking system which was developed at politeknik kota kula teregganu(PKKT) was to make sure that users could make their online booking to their desired transport companies with facilities provided by the new system. He pointed out that the methodology. reservation System as should be used in a bus transportation system, a facility which is used.

In addition, PHP Hypertext Preprocessor (PHP) language was used for the front- end of the software while the back end was designed using MySQL. The software achieved is capable of improving the customer hand and relationship management. It is recommended that despite the present functionality of the designed software. an additional functionality such as the use of E-mail to send tickets and notifications to the customer and an online payment using credit cards/debit cards should be implemented into the system. Furthermore, other operations carried such as the courier services should also be integrated in order to enhance the system.

CHAPTER 2

REQUIREMENT ANALYSIS

2.1 EXISTING AND PROPOSED SYSTEM

2.1.1 EXISTING SYSTEM:

Online Bus Ticket Reservation System enables the customer to buy bus ticket, make payment, and ask for information online easily. sell bus ticket using Bus Ticket Reservation System after checking the bus ticket availability for the customer and print the bus ticket to the customer.

2.1.2 PROPOSED SYSTEM:

- Providing a web-based bus ticket reservation function where a customer can buy bus ticket through the online system without a need to queue up at the counter to purchase a bus ticket.
- Enabling customers to check the availability and types of busses online. Customer can check the time departure for every bus through the system.
- Easing bus ticket payment by obtaining a bank pin after payments is made to the various designated banks.
- Ability of customers to cancel their reservation.
- Admin user privileges in updating and canceling payment, route and vehicle records

2.2 TOOLS AND TECHNOLOGIES USED

2.2.1 TOOLS USED :

SUBLIME TEXT :

Easy to write the codes because of the intelligence which makes the coding easier and also, it provides multi language support and support multi-platforms.

XAMPP :

A cross platform web-server which helps us to test our application on a local server before deploying it, this feature reduces the future risk of our application.

2.2.2 TECHNOLOGIES USED : HTML, CSS, JavaScript

HTML : Hypertext markup Language, a standard system for TextFiles to achieve font, color, graphics and hyperlink effect on world wide web pages.

SERVER SIDE : PHP

PHP : PHP stands for PHP: Hypertext Pre-processor. PHP is a server side scripting language like ASP. Scripts are executed on server. PHP supports many database (MySQL, Informix, Oracle, ODBC etc). PHP is an open source software (OSS). It runs on various platforms (Windows, Mac OSX etc).

Back End : MySQL

MySQL is a database server. MySQL is one of the best RDBMS being used for developing web-based software applications. It is an ideal for both small and large applications. MySQL supports standard SQL. It complies on the number of platforms.

2.3 HARDWARE AND SOFTWARE REQUIREMENTS

2.3.1 SOFTWARE REQUIREMENTS:

- Operating system: Windows XP or above
- Text editor: Sublime Text 3
- Web server: Apache
- Database server: MySQL
- Browsers: Chrome, Firefox or any other browsing application

2.3.2 HARDWARE REQUIREMENTS:

- Processor: Intel dual core or above
- Processor speed: 2GHz
- RAM – 1 GB
- Hard Disk – Minimum 40 GB

CHAPTER 3

SOFTWARE REQUIREMENT SPECIFICATION

3.1 INTRODUCTION

A software requirements specification (SRS) is a document that captures complete description about how the system is expected to perform. It is usually signed off at the end of requirements engineering phase. Software requirements specification establishes the basis for an agreement between customers and contractors or suppliers on how the software product should function. Software requirements specification is a rigorous assessment of requirements before the more specific system design stages, and its goal is to reduce later redesign.

3.2 FUNCTIONAL REQUIREMENT:

ADMIN: Admin should have complete Knowledge of the website. Admin has the following control over the website.

- The administrator will verify and adds all the buslist .
- Admin manages services like view the bookings
- The administrator view the payment user made on the system
- The administrator view the buslist, view feedback.
- Admin refund money if any user for the cancel the reservation of the seat.

USER: User will have an account. Different planners being registered and their services.

- The user can sign up/do registration with the system
- The registered user can login to the proposed system
- User can view the buslist and searches for the seat.
- The user can check for the available seat
- User can book the seat for the reservation.
- The user can also do payment for the seat on the proposed system
- The user can print receipt on the system as evidence of payment.
- User can cancel their reservation.

3.3 NON FUNCTIONAL REQUIREMENT:

- Efficiency: The system is built using pre-defined guided process and the data from all system are stored in one central database.
- Extensibility: The system supports future modifications without any side effects.
- Portability: The system can run in any operating system with latest version of the browser installed.
- Flexibility: The system keeps on updating the data according to the changes that take place.
- Reliability: As the system is centered on the database, the reliability depends on the maintenance of the database.
- Usability: The interface is user friendly.it is easy to access and understand.
customer can easily view the product and order

CHAPTER: 4

ANALYSIS AND DESIGN

4.1 INTRODUCTION:

Software design is a process through which requirements are translated in to a representation of the software. In detail design we specify how the modules in the system interact with each other. Detailed specification is given by explaining in natural language for the modules is supposed to do. Detail design specification describes the features of the system. Detail design is the refinement of the system design that essentially expands system design to contain more detail description of the processing logic of the components and data structure such that design can be easily implemented.

4.2 CONTEXT FLOW DIAGRAM (CFD):

Context flow diagram is a top level data flow diagram. It only contains one process node that generalizes the function of the entire system in relationship to external entities. In context diagram the entire system is treated as a single process and all its inputs, outputs, sinks and sources are identified and shown.

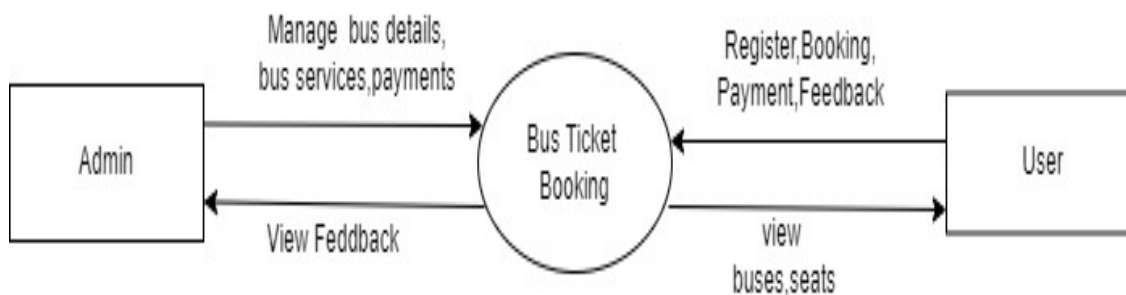


Figure 1:Level 0 CFD

4.3 DATA FLOW DIAGRAM (DFD):

Data Flow Diagram is a graphical representation of a system or a portion of the system. It consists of data flows, process, sources and sink and stores all the description through the use of easily understandable symbols.

DFD is one of the most important modelling tools. It is used to model the system, components that interact with the system, uses the data and information flows in the system.

OBJECTIVES:

- To graphically document boundaries of a system.
- To provide hierarchy breakdown of the system.
- To show movement of information between a system and its environment
- To document information flows within the system.
- To aid communication between users and developers.

4.3.1 LEVEL 1 DFD

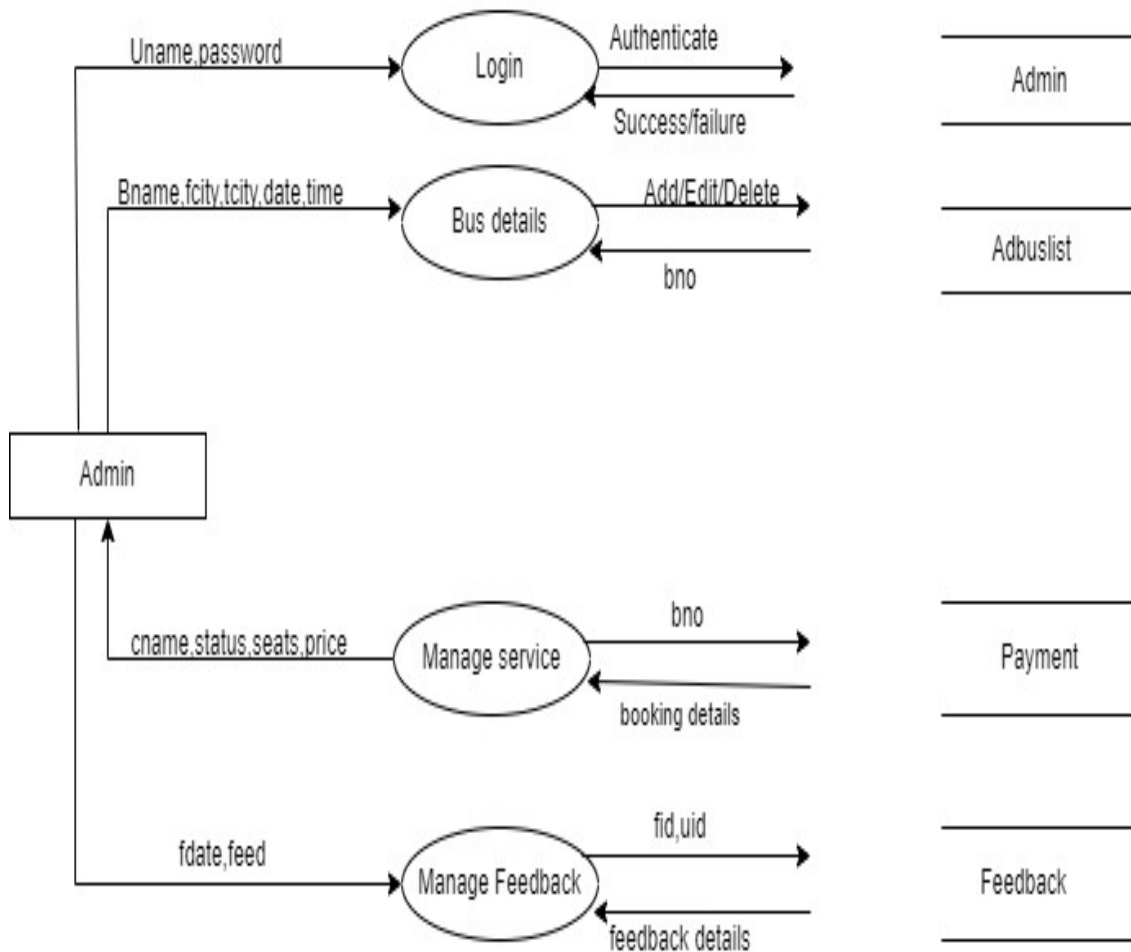


Figure 2:Level 1 DFD

4.3.2 LEVEL 2 DFD

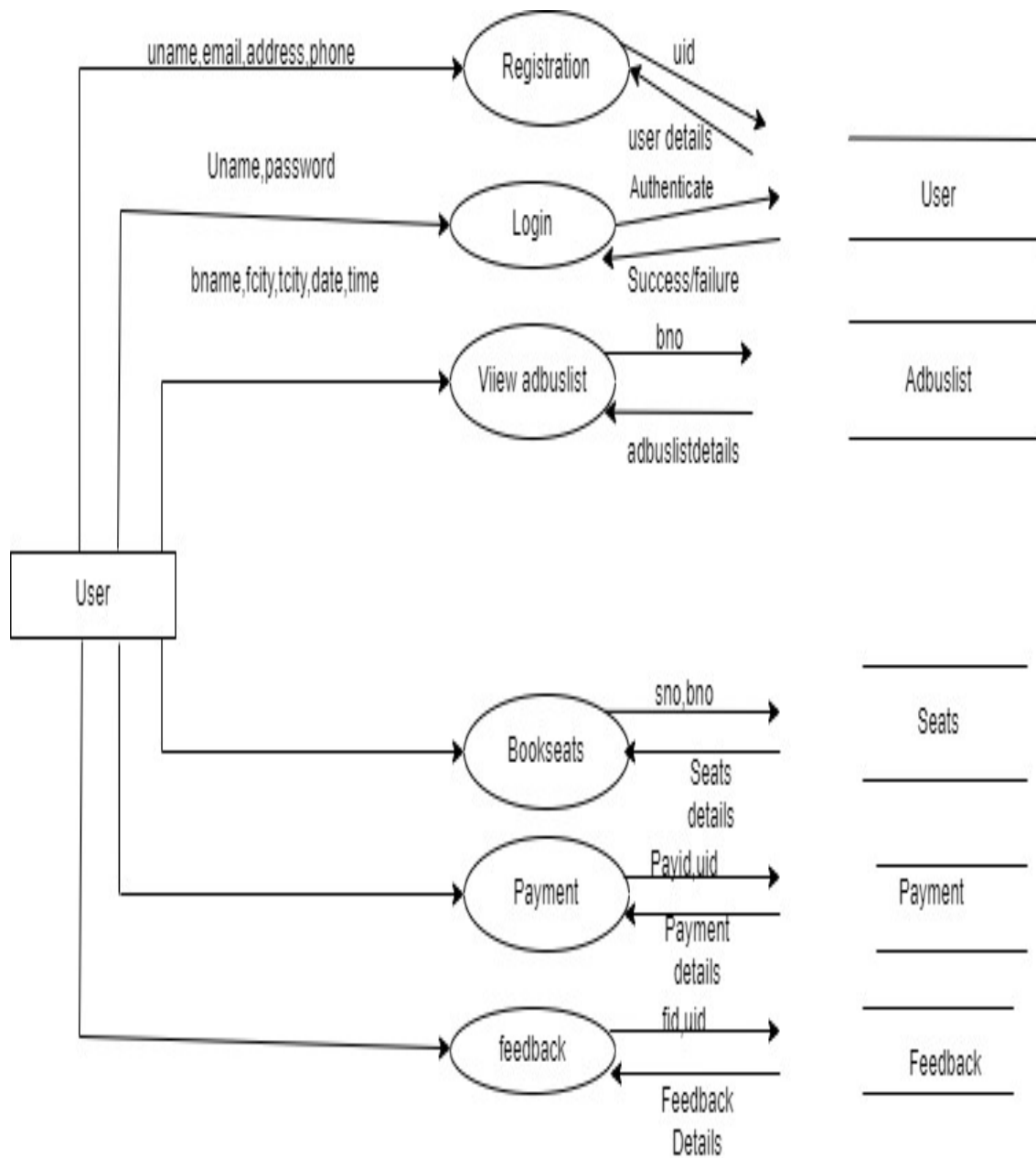


FIGURE 3 : Level 2 DFD

4.4 ER-DIAGRAM

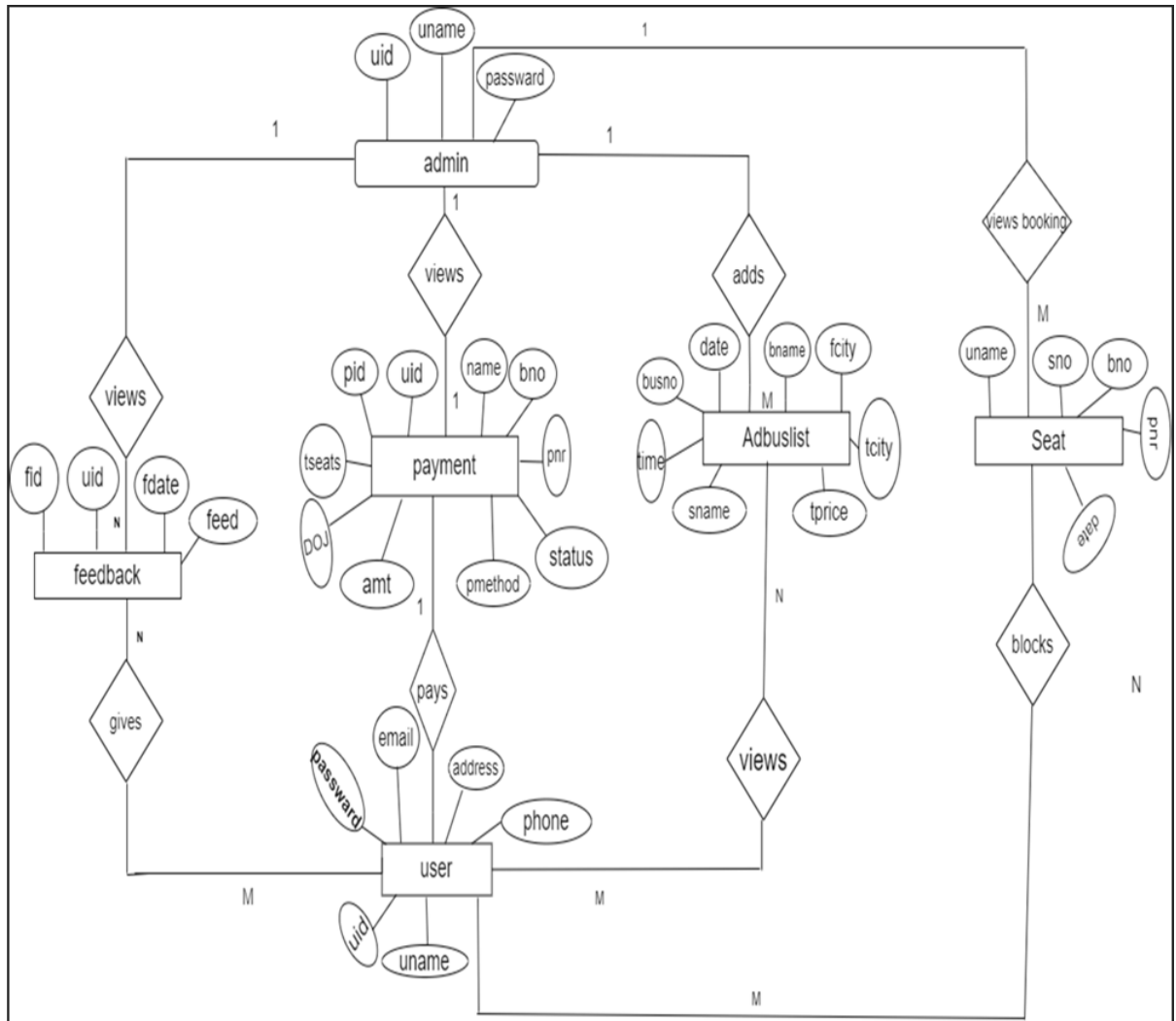


Figure 4:ER-DIAGRAM

CHAPTER: 5

IMPLEMENTATION

5.1 INTRODUCTION:

Implementation is the stage of the Project when the theoretical is turned into a working system. At this stage workload and the latest upheaval shifts to the user department. If the Implementation stage is not clearly planned and controlled it can cause choice. The term Implementation has different meaning, ranging from the conversion of the basic application to a compatible replacement of a computer system. Implementation is used here to mean the process converting a new or a revised System design into an operational one. During the implementation stage we convert the detail code in a programming language.

5.2 REGISTRATION:

Registration is done by user by giving username, password and contact, email, address details. Then only he/she is able to login into the user page. By clicking “REGISTER “ registration will be confirmed. If there is any field is missing or filled with invalid data it will show the proper message.

5.3 LOGIN:

Login must be done by user(customer& admin)by giving username and password after registration to move further. Validation will be performed. If try to login with unregistered login name and password it shows message as “Invalid username and password”.

5.4 USER HOME PAGE:

After login ,user page will load. It will show the option to edit his/her profile, Menu and Feedback

5.4.1 MY PROFILE:

This shows the his/her profile details. Also allow him/her to edit their details. Validation will have applied for contact number, password, name, email, address,. it should contain 10 digits. password. should contain special character and number and alphabets. email should contain valid special character.

5.4.2 MY TRAVELS:

My travels page shows the details of ticket like bus name, busno, fromcity,tocity,doj,time, price of that ticket and he/she can view that ticket history.

5.4.3 SELECT TRIP:

In Trip page shows the details regarding the trip,Here we choose the leaving to trip (fromcity),going to(tocity),date.these details will shows in the trip page.

5.4.4 BUS DETAILS:

In bus detail page shows all the bus details after selecting tocity and fromcity.it shows in details like busno, busname, fromcity, tocity,date, time, stationname.

5.4.5 BOOK SEATS:

If he/she books any seats then book page will shows his/her booking details like pnr, date, doj, amt.

5.4.6 PAYMENT:

In payment page it will show the all payment details like bno, pnr,doj,amt,name.then he/she pay the money through card or cash. then get the receipt.

5.4.7 FEEDBACK:

In feedback page it will show the all feedback details like name, email,phone,msg. then he/she gives the feedback of their journey or trip.

5.4.8 LOGOUT:

Logout from the page panel, go to home page.

5.5 ADMIN HOMEPAGE:

After login admin page will load. It will show the option to manage bus details, Manage services, feedback, profile.

5.5.1 BUS DETAILS:

Bus details page shows the details of buses like bno, bname, fromcity, tocity, time and stationname, price and he can add and view the details of buses. Without filling the all details he cannot submit.

5.5.2 MANAGE SERVICES:

View booking page will shows booking details like bno, bname, cname, date, pnr, total amount, seats, station name by this admin will manage the booking record.

5.5.3 FEEDBACK:

This shows the Feedback details like name, feed, fdate. Admin can delete feedback details.

5.5.4 MY PROFILE:

This shows the his profile details. Also allow him to edit their details. Validation will have applied for contact number, password, name, email, address,. it should contain 10 digits. password. should contain special character and number and alphabets. email should contain valid special character.

5.5.5 LOGOUT:

Logout from the page panel, go to home page.

CHAPTER: 6

TESTING

6.1 INTRODUCTION:

Software testing is an investigation conducted to provide stakeholders with information about the quality of the product or service under test. Testing has been defined as the process of analysing a software item to detect the differences between existing and required conditions and to evaluate the features of the software item. Software testing is the process used to assess the quality of computer software.

6.2 TEST CASES FOR USER INTERFACE

6.2.1 HOME PAGE:

Sl. No	Test Condition	Expected Output	Obtained Result	Status
1.	When the user clicks the Home in the menu.	It should displays the Home page.	It displayed Home page.	Successful
2.	When the user clicks the About us in the menu	It should displays the About Us page	It displayed About Us page.	Successful
3.	When the user clicks the Accounts in the menu.	It should displays the Accounts page	It displayed Accounts page.	Successful

6.2.2 USER REGISTRATION FORM:

Sl. No	Test Condition	Expected Output	Obtained Result	Status
1.	When the user clicks “create an Account”	It should displays the User Registration page	It displays the User Registration page	Successful
2.	If the name field is Invalid name and click “Register” button.	It should displays Please match the Requested format only alphabet.	It displays Please match the Requested format only alphabet.	Successful
3.	If the user enters Invalid Password and click “Register” button	It should displays Please match the Requested format Six or more digits	It displays Please match the Requested format Six or more digits	Successful
4.	If the email field is Invalid and click “Register” button	It should displays Please include an ‘@’ in the email address.	It displays Please include an ‘@’ in the email address	Successful
5.	If the address field is empty.	It should displays Please fill out this field.	It displays Please fill out this field	Successful
6.	If you enter Invalid Phone number with Characters.	It should displays Please fill out this field.	It displays Please fill out this field	Successful

6.2.3 USER LOGIN FORM

Sl. No	Test Condition	Expected Result	Obtained Result	Status
1	If User clicks on login button without entering username and password.	It should displays Please fill out this field.	It displays Please fill out this field.	Successful
2	If username is entered but password is blank.	It should displays Please fill out this field.	It displays Please fill out this field.	Successful
3	If password is entered but username is blank.	It should displays Please fill out this field.	It displays Please fill out this field.	Successful
4	If the username or password is incorrect.	It should display Invalid username and password.	It displays Enter valid username and password .	Successful
5	If the valid username and valid password is entered	It should display main page.	It displays main page.	Successful

6.3 USER DASHBOARD:

SI.NO	TEXT DESCRIPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	On load of page	It should display option to Trip ,Menu, Feedback, profile	Successful

6.3.1 TRIP:

SI.NO	TEXT DESCRIPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	Clicking on trip	It should display option to searches for the busses to book the seat.	Successful

6.3.2 BUS DETAILS:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVEDOUTPUT
1	Clicking on bus details	It should display option to view buses and to reserve the seat.	Successful

6.3.3 BOOKINGS:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVEDOUTPUT
1	Clicking on my booking	It should display to reserve the seats details	Successful

6.3.4 PAYMENTS:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	Clicking on payments	It should display option to payment details.	Successful

6.3.5 FEEDBACK:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	Clicking on Feedback	It should display the feedback details and allows add, View and delete the feddback	Successful

6.3.6 MY PROFILE:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	Clicking on “my profile”	It should display option to view profile and edit and change password option	Successful

6.4 ADMIN LOGIN FORM:

Sl. No	Test Condition	Expected Result	Obtained Result	Status
1	If admin clicks on login button without entering username and password.	It should display Please fill out this field.	It displays Please fill out this field.	Successful
2	If username is entered but password is blank in admin page.	It should display Please fill out this field.	It displays Please fill out this field.	Successful
3	If password is entered but username is blank in admin page.	It should display Please fill out this field.	It displays Please fill out this field.	Successful
4	If the username or password is incorrect in admin page.	It should display Invalid username and password.	It displays Enter valid username and password.	Successful
5	If the valid username and valid password is entered in admin page.	It should display main page.	It displays main page.	Successful

6.4.1 ADMIN DASHBOARD:

Sl.NO	TEXT DESCRIPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	On load of page	It should display option to Bus Details, Manage Services, Feedback, Profile.	Successful

6.4.2 BUS DETAILS:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVEDOUTPUT
1	Clicking on bus details	It should display bus details and allows add, edit or delete the buslist.	Successful

6.4.3 MANAGE SERVICES:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	Clicking on Manage services	It should display the view booking details.	Successful

6.4.4 FEEDBACK:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	Clicking on Feedback	It should display the feedback details and allows add, View and delete the feddback	Successful

6.4.5 MY PROFILE:

SI.NO	TEXT DESCRPTION	EXPECTED OUTPUT	OBSERVED OUTPUT
1	Clicking on “my profile”	should display option to view profile, change password and edit option	Successful

CHAPTER : 7

CONCLUSION

It can be observed that computer applications are very important in every field of human endeavor. Here all the information about customer that made reservation can be gotten just by clicking a button with this new system, some of the difficulties encountered with the manual system are overcome. It will also reduce the workload of the staff, reduce the time used for making reservation at the bus terminal and also increase efficiency. The application also has the ability to update records in various files automatically thereby relieving the company's staff the stress of working from file security of data. This project, as a whole, will give a new way in bus reservations and ticketing processes. The automation and management of seats and reservations will be done online. However, this project does not limit the walk-in passengers that is lessens the use of papers like in the traditional way of ticketing.

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