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**Mini Project Name: Online Flight Ticket Booking System**

**Subject: Human Machine Interaction (CSC801)**

**Sem:VIII**

Question No	Question
1	<p>Redesign the Website/App for the apps you have studied in HMI (the domain you selected) .</p> <p>Try to incorporate following</p> <ol style="list-style-type: none"><li>1. Quantitative and Qualitative Research - Questions</li><li>2. Personas</li><li>3. Card sorting</li><li>4. Task Flow Diagram</li><li>5. Wire frames etc.</li></ol> <p>Please refer the attached case study and stuck to the format. You can also refer the below link for similar case studies.</p> <p><a href="https://uxdesign.cc/ux-case-studies/home">https://uxdesign.cc/ux-case-studies/home</a></p>

Answer:

# Online Flight Ticket Booking System

## Mini Project Report of HUMAN MACHINE INTERACTION

Submitted in partial fulfilment of the requirements for the degree of

**Bachelor of Engineering (Computer Engineering)**

by:

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**Internal Approval Sheet**



**TERNA ENGINEERING COLLEGE, NERUL**

**Department of Computer Engineering**

Academic Year 2019-20

**CERTIFICATE**

This is to certify that the mini project entitled **“Online Flight Ticket Booking System”** is a bonafide work of

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**Head of Department**

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## Project Report Approval

This Mini Project Report – an entitled “**Online Flight Ticket Booking System**” by following students is approved for the degree of ***B.E. in "Computer Engineering"***.

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## Declaration

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Place: \_\_\_\_\_

## Acknowledgement

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. I would like to extend my sincere thanks to all of them.

I am highly indebted to (Name of your Organization Guide) for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.

I would like to express my gratitude towards my parents & member of Terna Engineering College for their kind co-operation and encouragement which help me in completion of this project.

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Date: \_\_\_\_\_

Place: \_\_\_\_\_

## **Abstract**

The aim of this project is to explain the system of online ticketing used by airlines by explaining the mechanism and presenting a sample application. The theory describes the evolution and working of airline reservation system. Various aspects related to online flight booking are explained in this project. The main focus of the thesis was developing a working application. A basic application similar to the models used by airlines companies today was developed with the use of various software and programs. Research in sources such as e-books, web articles, documentations and tutorial is completed for the development. The thesis describes how the online ticket booking works with the help of different diagrams and illustrations. The thesis concluded that with the progress of ever-changing technology, the trend of booking online is likely to develop with more features. While there are a few limitations, the convenience of booking tickets online and the possible enhancements will lead to an even advanced form of booking tickets online.

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## **CHAPTER 1: INTRODUCTION**

World has seen the most technological boom in the last fifty years, with the innovations in every field made possible now for making the human life easier and more comfortable. Airlines industry has evolved into one of the most sophisticated and fascinating industries of today. Airlines industry has made the dream of flying of the humans into a reality in less than a century. Today, millions of people fly every day. This has strengthened not only the economies of places but also connected people and cultures. The advancement of technology has led to big progress in the system of flight ticket booking over the years. Tickets are the documents that confirm purchase and guarantee a seat on the airplane for the chosen journey. Tickets are required as a proof to get the boarding pass at the airport, which is needed in order to board the aircraft. The traditional tickets on the early days of air travel were made of paper and were to be collected from the travel agencies or airline office after purchasing. Along with globalization and the development of aviation industry, the process of ticket purchasing has also changed. Since the rapid growth and use of internet since the 2000s, ticket purchasing has been possible online. Decreasing number of people are now using the traditional paper ticket while almost all major airlines have given the possibility of online tickets, commonly known as e-ticket. A ticket today contains the information of the passenger's name, date of travel, the flight number, destination and origin of travel, fare, taxes, baggage information, rules on changes and refunds, form of payments and the validity of the ticket.

In this thesis, the system behind online ticket booking especially used by airlines is going to be explained along with a demonstration of a working application to show sample online booking. Various sources such as e-books, online articles and websites have been referred to gather the materials for the

thesis. The thesis has been completed with the co-operation with the supervisor to take in his valuable 2 ideas and suggestions for the improvement of the work. The paper has been written with the help of information absorbed from the sources mentioned above and displayed with own understanding. The topic has been chosen as a result of author's interest in the mechanism of modern flight booking process. After introduction, chapter two of the thesis named "Online Ticket Booking" is discussed. In it, a brief introduction of online ticket booking, the evolution of ecommerce, airline reservation system and working mechanism of flight booking are described. From chapter three onwards, the thesis is focused on the development process of online ticket booking application that has been developed. In chapter three, different programs and software that are used in the development are briefly described. The key aspects that are needed in the development of the working application are described in chapter four. Those aspects are briefly described and explained why they were necessary in developing the project. Chapter four is followed by chapter five on the topic, which is about the design aspect of the application. Under this chapter, design of the database used, system design and logic of the website are explained and illustrated. Chapter six is dedicated to the various stages of development progress. This is the biggest chapter of thesis where the process of development are described and shown with graphs. The chapter is divided into many sub-chapters, where each sub-chapter focuses on different aspects of the development. This chapter is accompanied with many graphs and screenshots of the code used in the making of application. The last chapter of the thesis, chapter seven, is about the advantages, disadvantages and the challenges faced during the making of application. The advantages and disadvantages sections are about the general pros and cons of the popular online flight booking system that we use today while the challenges is about the personal challenges faced during the

development of the project. The final part of the thesis will present the conclusions.

## **1.1 PROBLEM STATEMENT:**

To simplify the ticket booking processes and drastically reduce the stress involve in ticket booking, there is need to designing web based software that handle all ticket booking activities.

The following are some of the problems/challenges facing the current system:

- Duplication of ticket by customers.
- Insecurity of data because it is prone to vandalization and unauthorized accessibility.
- Poor information storage method: The use of office files and file cabinet is not a good form of information storage.
- Poor billing and report generation process.
- Lack of prompt updating: Various changes to information like changing booking or cancelling booking are difficult to reflect in paper work.
- Data losses: Loss of data perhaps would happen if all information is kept only inside papers and not in the databases

## **1.2 AIM OF PROJECT:**

The main aims of the project are to create a reliable and easy to use web based system which will simplify the ticket booking processes.

Other aims of the work include the following

- To work towards the elimination of ineffective modes of operation. It centers on the users having a good atmosphere for work thereby minimizing stress.
- To work towards combating all the problems discovered on the existing system, which are listed under the problems of study.
- Safeguarding of information and ticket fees through effective monitoring.
- Electronic security is maintained as the fans, customers and management are able to login and access the system depending on their privileges.

- They are also able to work on the policies and claims more effectively and efficiently.
- The level of accuracy in the proposed system will be higher. All operations would be done correctly and it ensures that whatever ticket sold is from the stadium management team and genuine.

### **1.3 Purpose of Project:**

The main purpose of this vision document is to list the requirements of the Airline Reservation System project. This document also helps us to collect and analyse the ideas gathered for the project. This vision document will be subject to change, if more requirements are added to the project. This document is mainly prepared to set stage for the design phase of the project. The document being prepared is the first version of vision document for the Airline Reservation System project.

### **1.4 Objectives of the Project:**

#### **General Objective**

The main goal of the proposed system is to make online the processes of the air ticket reservation and cancelation system.

#### **Specific Objectives**

Some of the Specific Objectives of the system are listed below:

- To create a distributed system that will be used by customers.
- To ensure that ticket reservation is easy and user friendly for customers.
- To satisfy customers need by reaching them at their place.
- Reduce the work load of the ticket officers.
- Provide large number of ticket reservation and cancelation service in a few time

### **1.5 Scope:**

We are trying to give a live reporting which is updated by Airline Companies so that customer gets a live Flights checking, Available seats, Pricing and also planning to provide seats as per their choice so that they can travel very comfortably their journey. We will try to provide food facility and choice to customers so that they can feel like their home and more effective amenities. We

are also trying to make more attention on Business class people and their requirement

### **1.6 Limitations of Project:**

Online flight booking system has its own set of limitations as well. Prospective clients in Asia and other parts of the world where the connection speed and availability is poor may find it hard to access the website of flight companies and book tickets. In much of the less developed part of the world, besides internet connectivity, the limited knowledge and access to technology can also hinder the chances of using this service. As a result, many people in the developing world still use the traditional method of purchasing tickets from the offices of travel agents. Machine failures such as lost connection or unresponsive program can sometimes also cause the disappearance of all the flight itinerary. Furthermore, the customer might not be able to get correct or enough information from the website alone as it is not done face to face with a person who knows everything about the connections, offers and company policies. Then there is also the issue of security: it is sometimes possible that somebody can steal your credit card information but developers are improving the security of the system more and more with the advancement of technology.

### **1.7 Significance of the Project:**

The significance of this research is to help the staffs attain excellence, accuracy, and effectiveness in the data or information with aid of an information management system.

### **1.8 Assumptions:**

The design of the system is assumed to be cost effective but beneficial to stadium. The design will reduce the problem facing staff or operators of the organization.

## **CHAPTER 2: METHODOLOGY**

### **2.1: System Analysis:**

#### **Feasibility:**

Feasibility study is to check the viability of the project under consideration. Theoretically various types of feasibilities are conducted, but we have conducted three type of feasibilities explained as under.

#### **ECONOMIC FEASIBILITY:**

With the manual system the operating cost of the system is about 60 Lacks P.A.. This cost comprises salary of 25 people, stationary, building rent, electricity, water, telephone etc. But with the new system this reoccurring cost comes out to be about 20 Lacks P.A. Hence the new system is economically feasible.

#### **TECHNICAL FEASIBILITY:**

The new system requires only 6 trained persons to work with the system and in overall 10 people per office are sufficient. So we will identify 6 best people from existing system and train them.

As our existing system is purely manual, so we need a one-time investment of Rs 4 Lakhs for the purchase of 7 computers, 5 Ticket printers, a laser printer, AC and networking etc. It requires 20 Lacks PA as a operating cost.

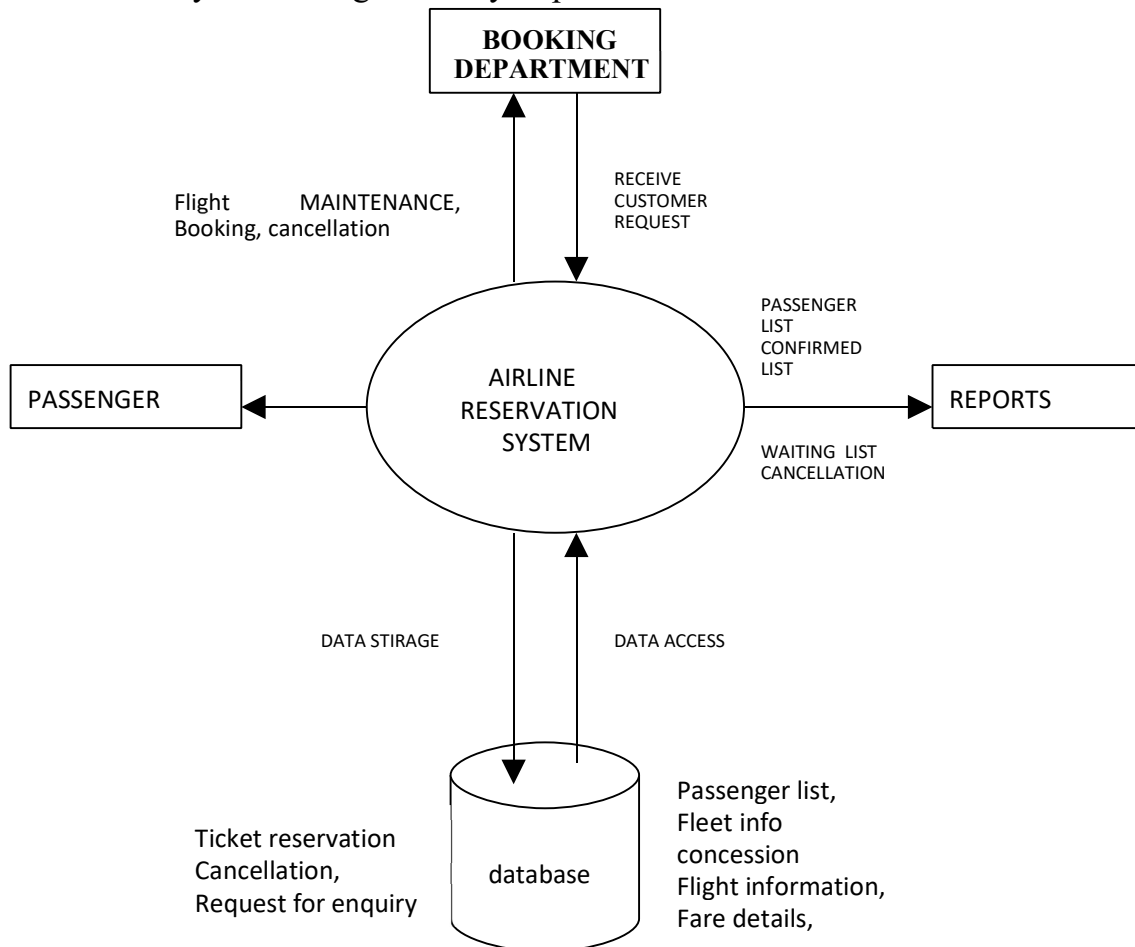
With the above details our system is technically feasible as after investing 24 Lacks in a year, the company is still saving Rs 25 Lacks PA.

#### **OPERATIONAL FEASIBILITY:**

The new solution is feasible in all sense but operationally it is not. The new system demands the expulsion of at least 15 people from the company. It creates an environment of joblessness and fear among the employees. It can lead to an indefinite strike in the company also. So the management must take corrective actions prior in advance in order to start the further proceedings.

## BLOCK DIAGRAM:

This was the most important phase of my project life cycle .It had connected my maximum time .The block diagram given bellow depict various fact which were understood by one during the analysis phase.



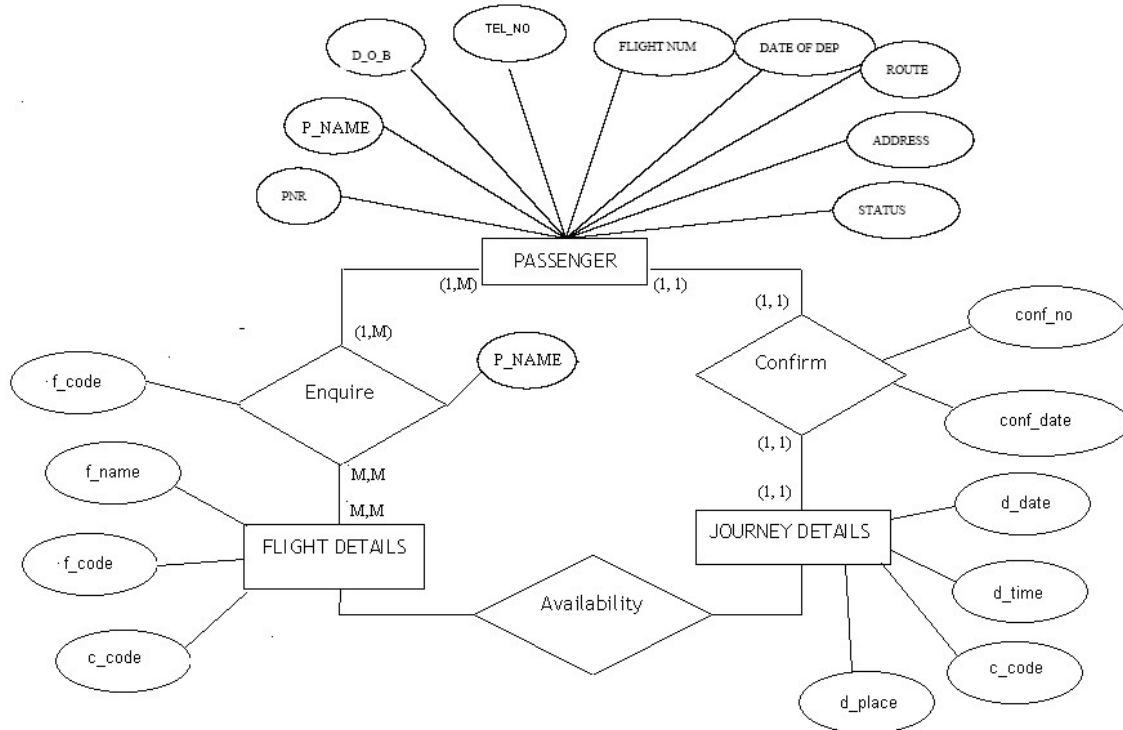
## 2.2 SYSTEM DESIGN:

In this phase initially I had designed E-R diagram of the processes, in order to identify various entities and relationship set, entity set, attributes, link attributes. The Diagram of this process as under.

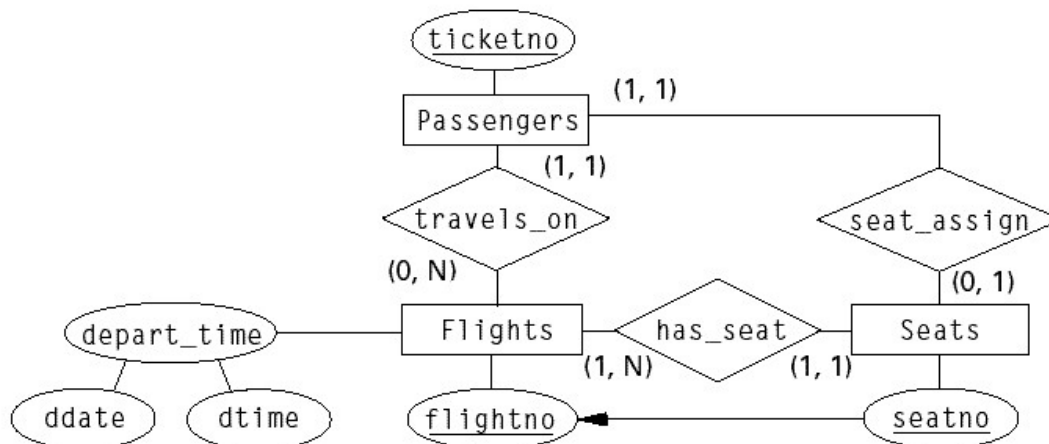
After this step we had tried design the data base for the new system and normalized it

The tables motivated in data dictionaries enclosed as annex II is an outcome of this step. The symbol of entities are shown bellow

## ER- DIAGRAM for Flight Reservation System:



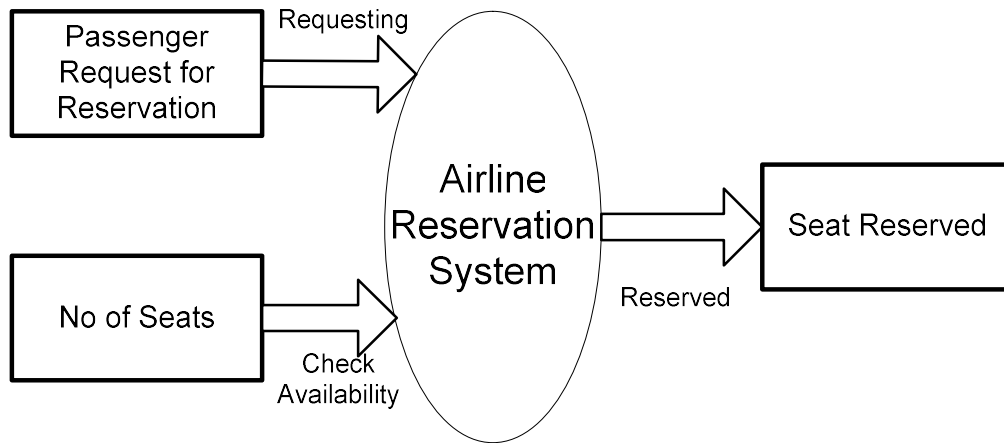
## ER- DIAGRAM FOR PASSENGER:



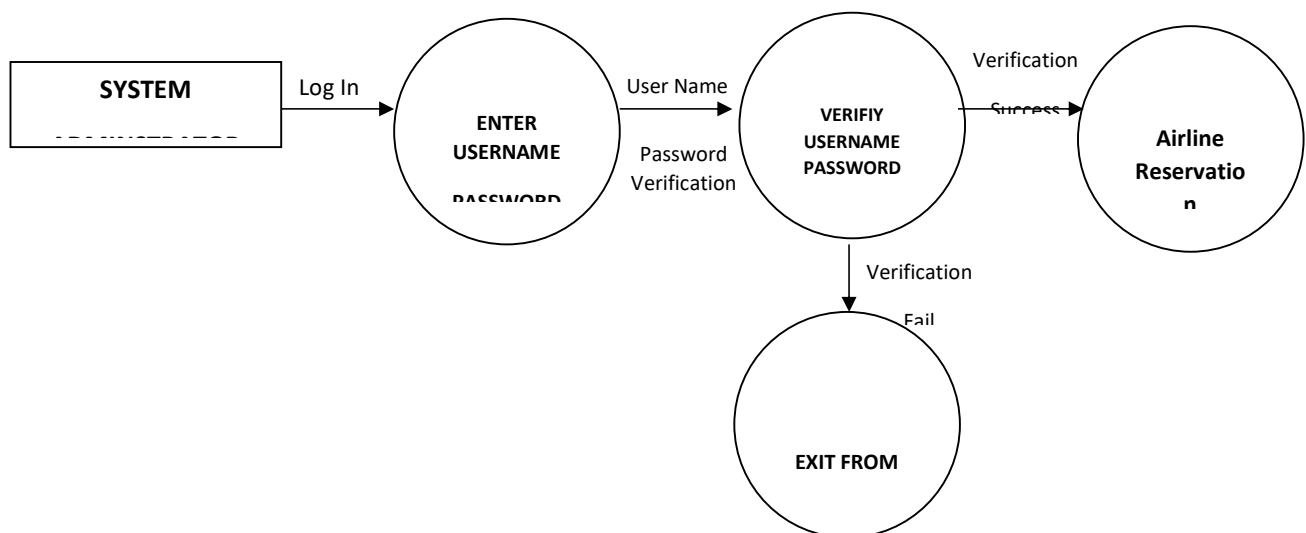


## DFD DIAGRAMS

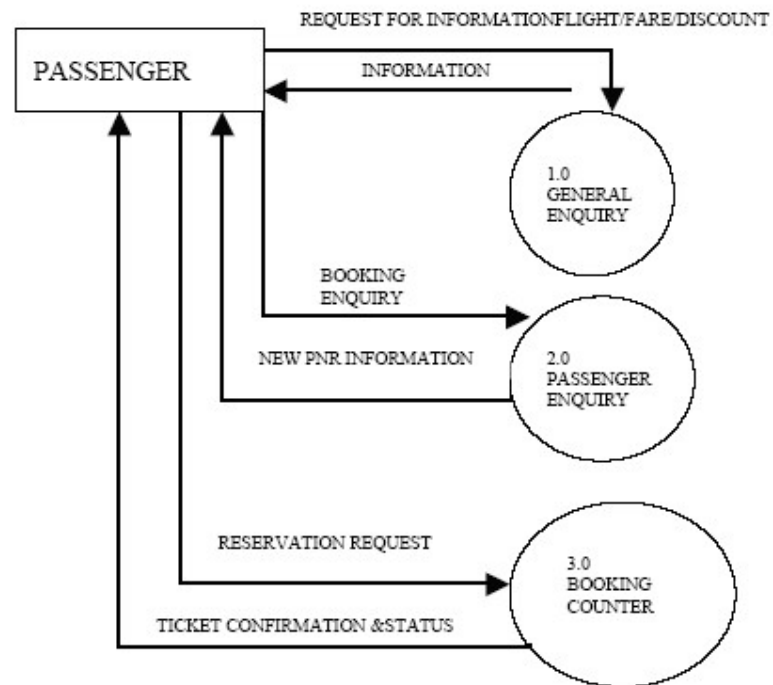
### DFD for Airline Reservation System



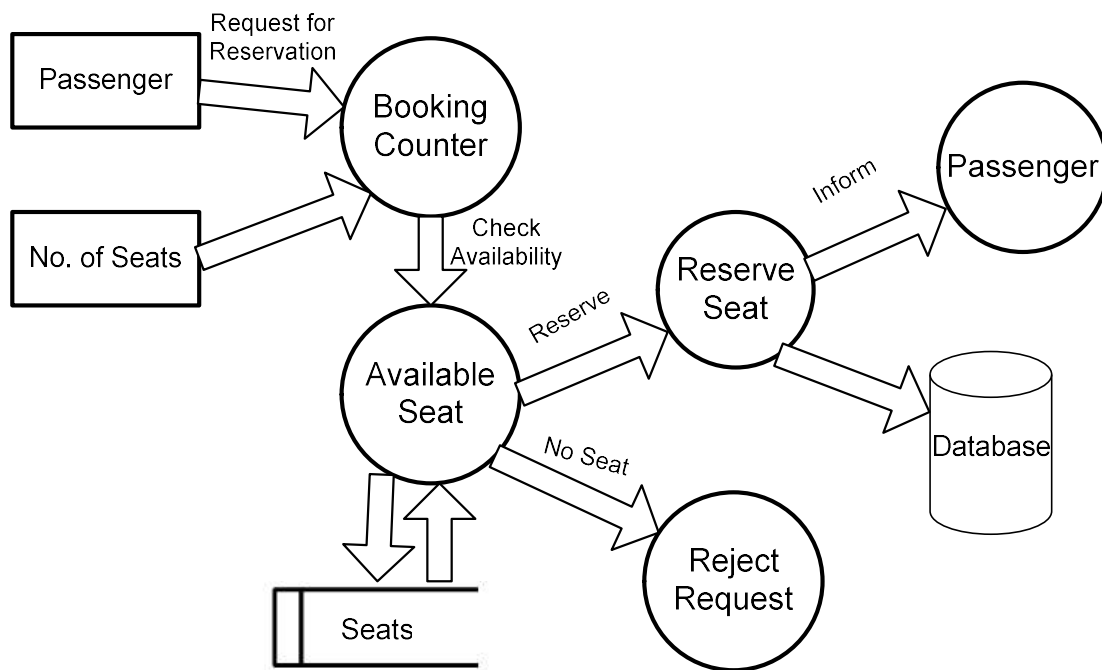
### First Level of Data Flow Diagram for System Login



**Second Level of Data Flow Diagram for**  
**General Inquiry System**



**Third Level DATA FLOW DIAGRAM**  
**OF BOOKING SECTION**



### 2.3 Software and Hardware Requirements:

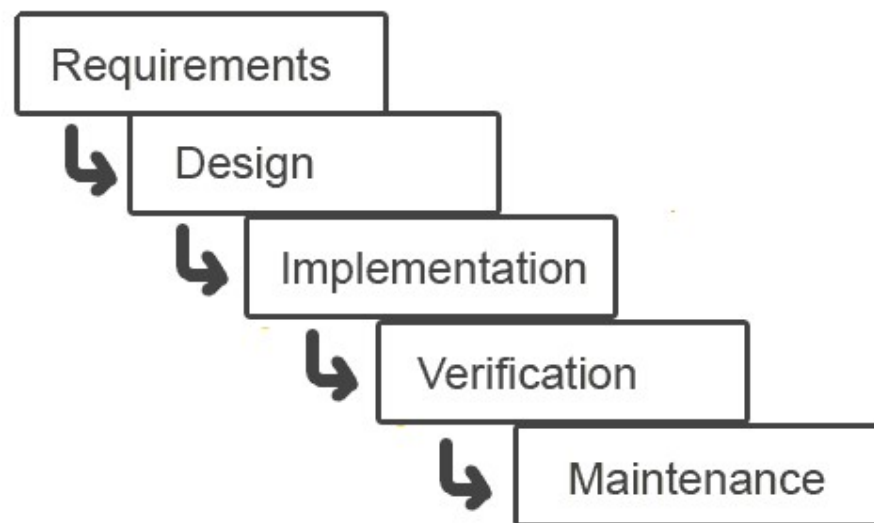
- Intel core i3 2nd generation is used as processor because it is faster & provide reliable and stable working environment.
- A RAM size of 4 gb is used as it will provide fast reading & writing capabilities.

### 2.4 Process Model:

The field of software engineering is related to the development software in systematic manner unlike simple programs which can be developed in isolation

and there may not be any systematic approach being followed. As there is large difference between programming and software engineering. As it provide models that lead to the production of well documented software in a manner that is predictable. For a mature process, it should be possible to determine in advance how much time and effort will be required to produce the final product. To develop successful software I have to follow some models, which act as guidelines.

The model I have used is **Waterfall Model or Classic Life Cycle**. In this model first of all the existed system is observed. Then customer requirements are taken in consideration then planning, modeling, construction and finally deployment.



## **2.5 Functional Requirements:**

The functional requirements of the Airline Reservation System are divided among the Customer and the administrator of the application. These functional requirements can be explained in detail as follows

### **1. Use Case name: User Registration**

#### **Description:**

This use case describes the scenario where the user registers with the application by providing all the necessary details, in order to make reservations or bookings for flights, motels, special packages.

#### **Actor:**

User or the Customer

#### **Input:**

The user or the customer will have to provide all the necessary details present in the customer registration form of the application.

#### **Output:**

All the details entered in the customer registration page will be verified and accepted by the system into the database.

### **2 Use Case name: User Login**

#### **Description:**

This use case describes the scenario where the user logs into the application, with the username and password he has provided while registering with the system.

#### **Actor:**

User or the Customer

#### **Input:**

The user or the customer creates a username and password at the time of registering with the system. He then uses them to logon to the system and make reservations or view any information.

**Output:**

The application then verifies the authenticity of the username and password that the customer has provided and allows the user to view the information available on the system, if the username and password are valid.

**3 Use Case name: Contact the company****Description:**

This use case describes the scenario where the user contacts the company for any information.

**Actor:**

User or the Customer

**Input:**

The customer can contact the airline company, requesting them for any information he needs.

**Output:**

The application verifies the authenticity of the username and password that the customer has provided and allows the user to view the contact information for the company.

**4 User Case name: Booking Instructions****Description:**

This use case describes the scenario where the user views the instructions for booking flights, packages, or motels.

**Actor:**

User or the Customer

**Input:**

After the customer logs onto the application with his username and password, he can look up the instructions posted on the website for booking flights, packages.

**Output:**

The application verifies the authenticity of the username and password and displays the how to book instructions page.

### **5 Use Case name: Book Flights**

#### **Description:**

This use case describes the scenario where the user books airline tickets.

#### **Actor:**

User or the Customer

#### **Input:**

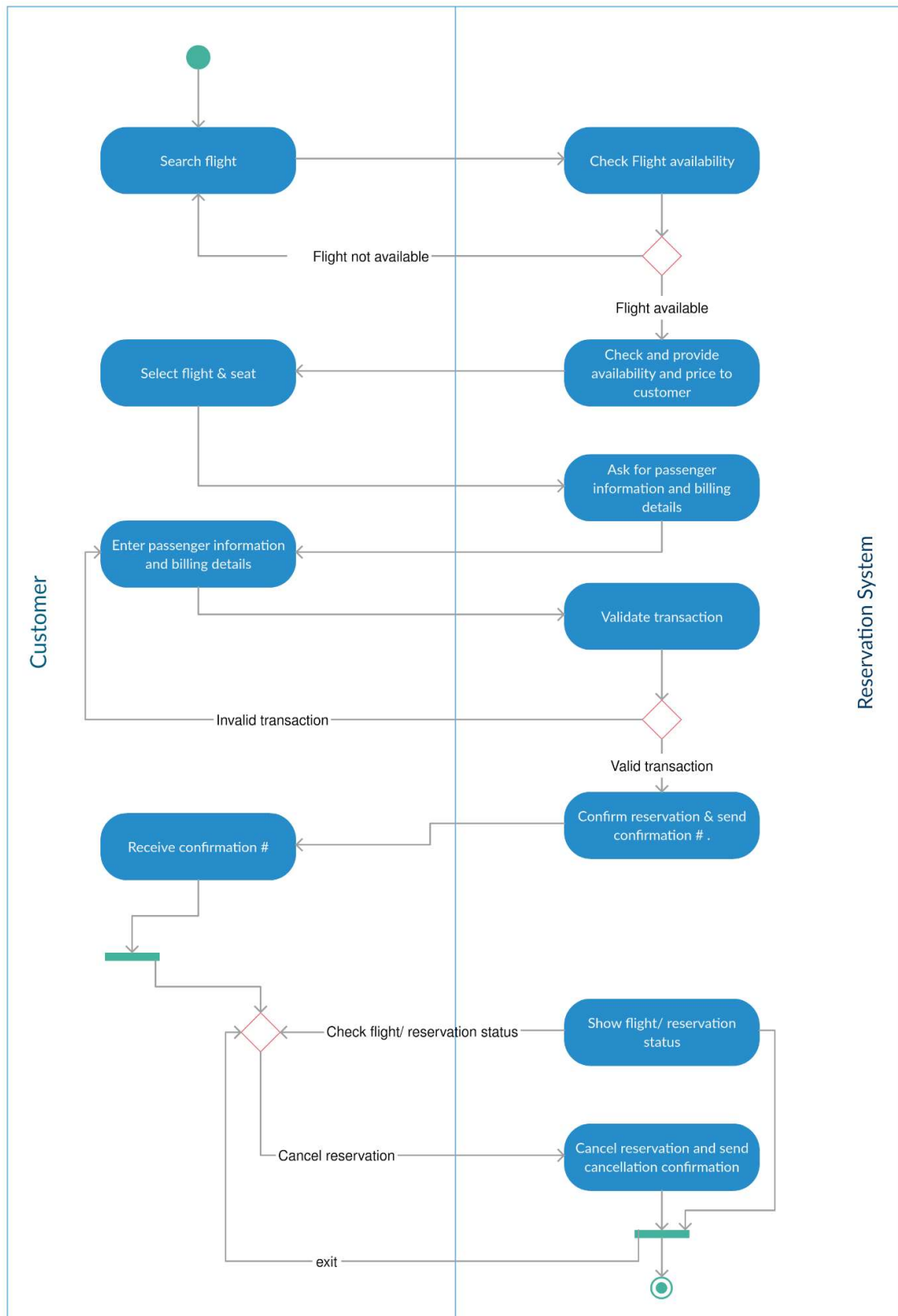
After logging into the application, the customer looks up the information related to various airlines and checks the availability of seats on flights. If he finds that there are any available tickets, he then purchases them.

#### **Output:**

The application verifies the authenticity of the username and password and then displays information related to various flights to the customer.

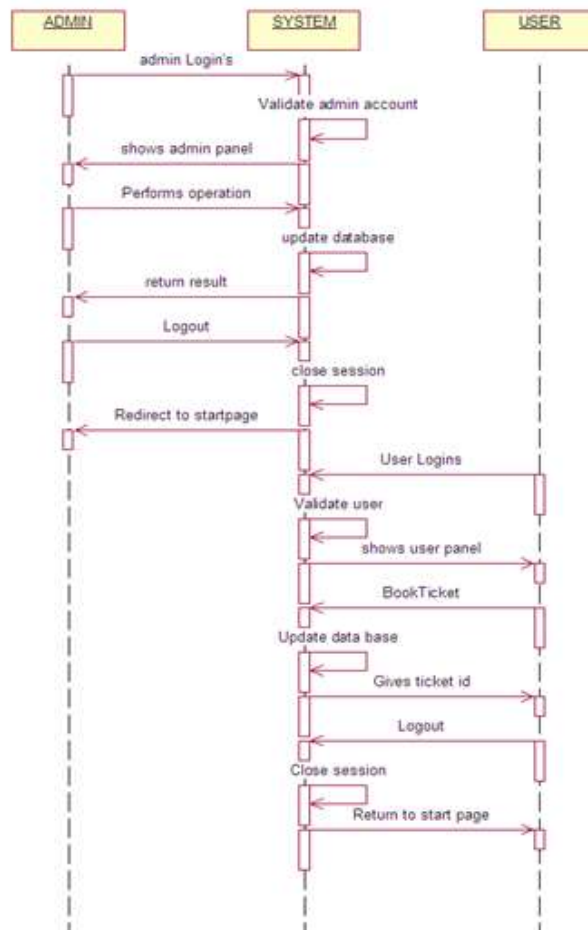
## **2.6 Diagrams:**

## Activity Diagram

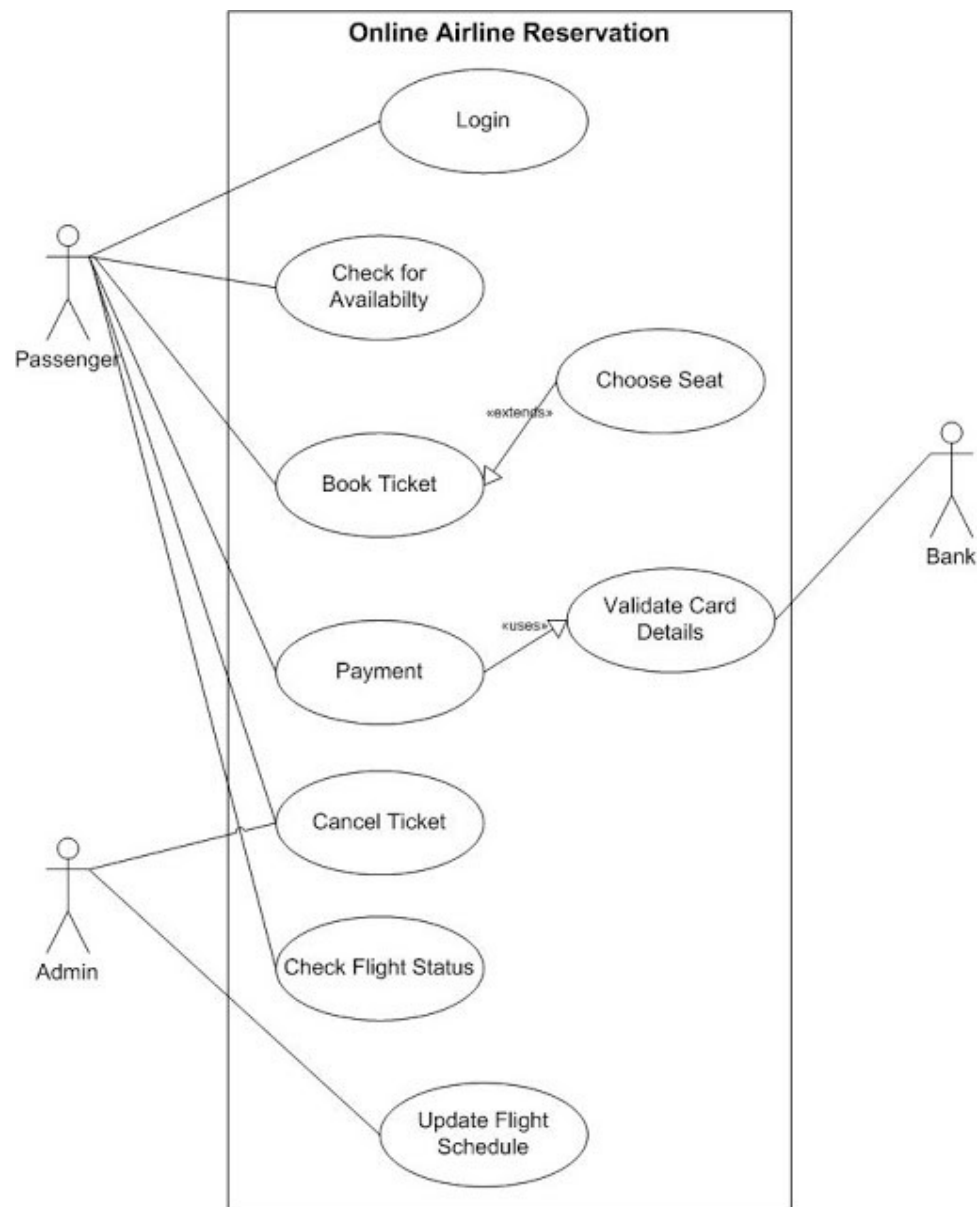




## Sequence Diagram:



## 3. USE CASE DIAGRAM:



## CHAPTER 3. WIREFRAME DESIGN

Wireframing is a way to design a website service at the structural level. A wireframe is commonly used to lay out content and functionality on a page which takes into account user needs and user journeys. Wireframes are used early in the development process to establish the basic structure of a page before visual design and content is added.



***Wireframing is essential in UI design:***

A wireframe is a layout of a web page that demonstrates what interface elements will exist on key pages. It is a critical part of the interaction design process.

The aim of a wireframe is to provide a visual understanding of a page early in a project to get stakeholder and project team approval before the creative phase gets under way. Wireframes can also be used to create the global and secondary navigation to ensure the terminology and structure used for the site meets user expectation.

The wireframe illustrates a homepage layout within a rectangular border. At the top is a wide rectangular box labeled "IMAGE". Below this is a horizontal navigation bar containing five links: "About us", "AdminPage", "How to book", "Contact Us", and "Home". The main content area is divided into two columns. The left column features a box labeled "Images". The right column contains a login form with two input fields labeled "Email ID" and "Password", followed by two buttons labeled "L" and "New".

WIREFRAME FOR HOMEPAGE:

IMAGE

Customerdetails Flight details Hoteldetails Packagedetails Cancellations

## WIREFRAME FOR CUSTOMER

Login

Email

Password

\*\*\*\*\*

Sign IN

Cancel

Sign Up

## LOGIN SECTION

## CHAPTER 4: CARD SORTING

Card sorting is a UX research technique in which users organize topics into groups. Use it to create an IA that suits your users' expectations. **Card sorting** is a UX research method in which study participants group individual labels written on notecards according to criteria that make sense to them. This method uncovers how the target audience's domain knowledge is structured, and it serves to create an information architecture that matches users' expectations.

Card sorting is a method used to help design or evaluate the information architecture of a site. In a card sorting session, participants organize topics into categories that make sense to them and they may also help you label these groups. Card sorting helps us gain valuable insight about the structure of data.

### Types of Card Sorting –

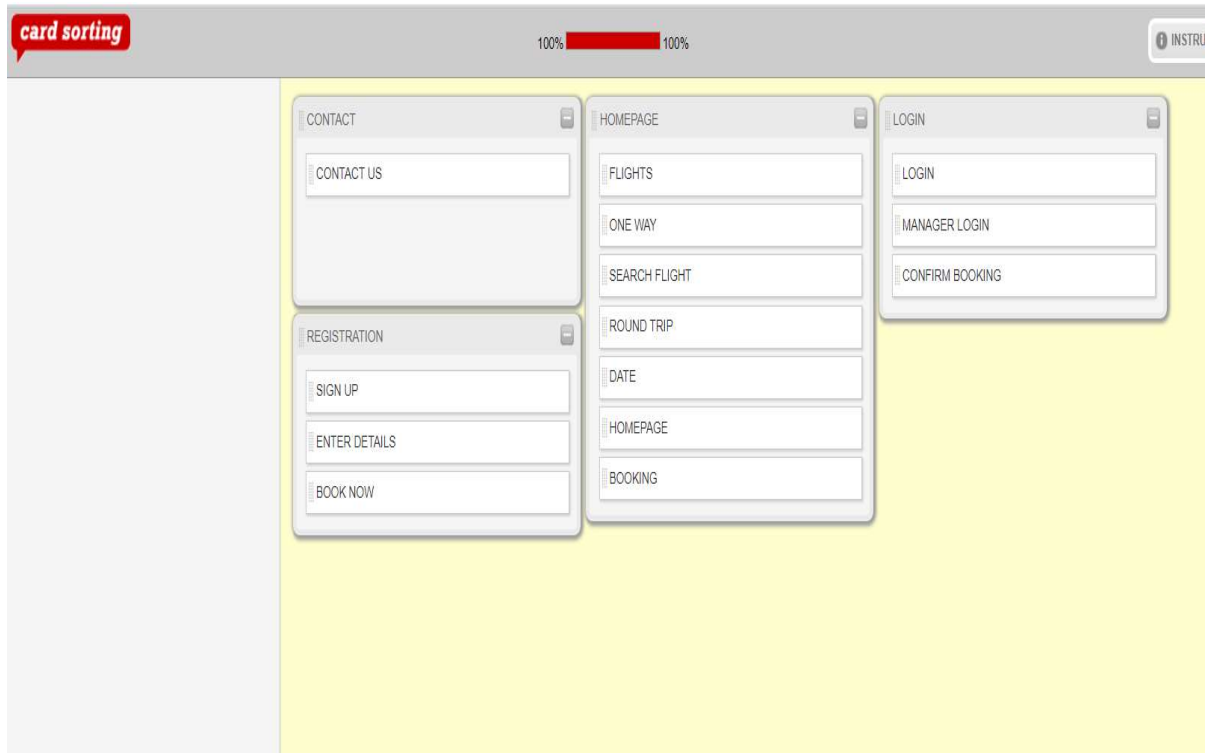
**Open** — In open card sorting, each participant is given a stack of cards. The participant is then asked to group those cards together any way they want. Then they make labels for the groups they created.

**Close** — In closed card sorting, the researchers create the labels for the groups. Participants are given a stack of cards and are asked and are asked to put each card into a group.

**Remote card sorting** - When conducting a remote card sorting session a user will work independently via their own computers to sort the cards that are provided through an online software tool. There are a number of online software tool available on the market today which allow you to setup and distribute to as many users as you require for the test. Some of the most common online software tools are Optimal Sort, Simple card sort and Usabilitest. These online software tools provide you with a number of ways to analyse the data. As the test is conducted remotely there is no contact with the user so there is no way of understanding the reasoning behind why the user has arranged the cards in a certain way.

Card sorting is a highly useful technique in information architecture; it is used to understand how users think about your content. It can help you organize content so that it suits your users' mental models, rather than the point of view of your company.

We have used usabilitytest.com Card Sorting as we found it optimal for our card sorting as well as we get free trial for 48 hrs.



Card Sorting for Online Flight Booking System

## **Chapter 5: IMPLEMENTATION AND TESTING**

### **5.1 Testing:**

This project is tested in web-based environment. All forms in the project have been validated using JavaScript. All conditions of algorithms are tested. All PHP code is debugged and errors are removed.

### **5.2 Implementation:**

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

- **FRONT END:**

JSP, HTML, CSS, JAVA SCRIPTS are utilized to implement the frontend.

- **Java Server Page (JSP)**

Different pages in the applications are designed using jsp. A java sever page component is a type of java servlet that is designed to fulfill the role of a user interface for a java web application. Web development write JSPs as text files that combine HTML or XHTML code, XML elements, and embedded JSP actions

and commands. Using JSP, one can collect input from users through web page.

- **HTML (Hyper Text Markup Language)**

HTML is a syntax used to format a text document on the web.

- **CSS (Cascading Style Sheets)**



CSS is a style sheet language used for describing the look and formatting of a document written in a markup language.

- **Java Script**

JS is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, Communicate asynchronously, and alter the document content that is displayed.

- **PHP**

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page: PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data.

## **BACK END**

The back end is implemented using MYSQL which is used to design the databases.:

- **MYSQL**

MySQL is the world's second most widely used open-source relational database management system (RDMS). The SQL phrase stands for structured query.

## CODE:

### homepage.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>AirYatri Company</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="shortcut icon" type="image/x-icon"
href="https://lh3.googleusercontent.com/-
HtZivmahJYI/VUZKoVuFx3I/AAAAAAAAAcM/thmMtUUPjbA/Blue_square_A-
3.PNG" />
    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
    <link rel="stylesheet" href="forcompany.css">
    <link rel="stylesheet" href="homepage.css">
    <link rel="stylesheet" href="AdminSignin.css">
    <script src="login.js"> </script>
    <script src="jump.js"> </script>
</head>
<body>
    <nav class="navbar navbar-default navbar-fixed-top">
        <div class="container">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-
toggle="collapse" data-target="#myNavbar">
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
```

```

        </button>
        <a class="navbar-brand" href="homepage.html"><span
class="glyphicon glyphicon-home"></span> Home</a>
    </div>
    <div class="collapse navbar-collapse" id="myNavbar">
        <ul class="nav navbar-nav navbar-right">
            <li id = "cart">
                <a class="navbar-brand"
href="cartshow.php"><span class="glyphicon glyphicon-shopping-cart"></span>
Shopping Cart</a>
            </li>
            <li class="dropdown" id = "new">
                <a class="dropdown-toggle" data-
toggle="dropdown" href="#"><span class="glyphicon glyphicon-user"> Sign
in&nbsp;</span><span class="caret"></span>
                </a>
                <ul class="dropdown-menu multi-level"
role="menu" aria-labelledby="dropdownMenu">
                    <li><a
href="signup.html">Register</a></li>
                    <li class="dropdown-submenu">
                        <a tabindex="-1" href="#">Sign
in</a>
                        <ul class="dropdown-menu">
                            <li><a tabindex="-1"
href="Adminpage.html">Manager Sign in</a></li>
                            <li><a
href="customersignin.html">Customer Sign in</a>
                        </li>
                        </ul>
                    </li>
                </ul>
            </li>

```

```

        </ul>
    </li>
    <li class="dropdown" id = "old">
        <a class="dropdown-toggle" data-
toggle="dropdown" href="#" ><span class="glyphicon glyphicon-user"
id="wuser">Welcom!</span>
        <span class="caret"></span>
    </a>
    <ul class="dropdown-menu multi-level"
role="menu" aria-labelledby="dropdownMenu">
        <li><a
href="showhistory.php">History</a></li>

        <li><a href="#"
id="logout">Sign out</a></li>
    </ul>
</li>
</ul>
</div>
</div>
</nav>
<div class="jumbotron text-center">
    <h1>AirYatri.com</h1>
    <p>We specialize in your air plan!</p>
</div>
<section id="content">
    <div class="container" id="homepage">
        <h1><b>Search Flights</b></h1>
        <br />
        <p><b>Choose your flight option</b></p>
        <div class="btn-group btn-group-justified">
            <div class="btn-group">
                <button id="button1" type="button" href="#oneway"
class="btn btn-primary">One-way</button>

```

```

        </div>
        <div class="btn-group">
            <button id="button2" type="button" href="#roundtrip"
class="btn btn-primary">Round-trip</button>
        </div>
        <div class="btn-group">
            <button id="button3" type="button" href="#all" class="btn btn-
primary">Search all flights</button>
        </div>
    </div>
    <hr />
    <div id="oneway">
        <form role="form" action="SearchResultOneway.php"
method="post">
            <div class="row">
                <div class="col-sm-6">
                    <label for="from">From:</label>
                    <!--<input type="text" class="form-control" id="from"
name="from" placeholder="City or Code" required>-->
                    <select class="form-control" name="from" id="from"
placeholder="City or Code" required>
                        <option value="Banglore">Banglore(BLR)</option>
                        <option value="Mumbai">Mumbai(BOM)</option>
                        <option value="Delhi">Delhi(DEL)</option>
                        <option
value="Hyderabad">Hyderabad(HYD)</option>
                        <option value="Chennai">Chennai(MAA)</option>
                    </select> </div>
                <div class="col-sm-6">
                    <label for="to">To:</label>
                    <!--<input type="text" class="form-control" id="to" name="to"
placeholder="City or Code" required>-->
                    <select class="form-control"
name="to" id="to" placeholder="City or Code" required>

```

```

        <option value="Banglore">Banglore(BLR)</option>
        <option value="Mumbai">Mumbai(BOM)</option>
        <option value="Delhi">Delhi(DEL)</option>
        <option
value="Hyderabad">Hyderabad(HYD)</option>
        <option value="Chennai">Chennai(MAA)</option>
    </select>
</div>
</div>
<hr >
<div class="row">
    <div class="col-sm-6">
        <label for="depart">Depart:</label>
        <input type="date" class="form-control" id="depart"
name="depart" required>
    </div>
</div>
<div class="row">
<hr >
<div class="col-sm-6">
    <label for="class">Class:</label>
    <select class="form-control" name="class">
        <option value="Economy">Economy</option>
        <option value="Business">Business</option>
    </select>
</div>
</div>
<br>
<div class="row">
<div class="col-sm-6">
    <label class="radio-inline">
        <input type="radio" name="stop" value="nonstop" checked>Non-
Stop
    </label>

```

```

        <label class="radio-inline">
            <input type="radio" name="stop" value="1stop">1 Stop
        </label>
    </div>
</div>
<br>
<div class="btn-group btn-group-justified">
    <div class="btn-group">
        <button type="submit" class="btn btn-
success">Submit</button>
    </div>
    <div class="btn-group">
        <button type="reset" class="btn btn-info"
value="Reset">Reset</button>
    </div>
</div>
</form>
</div>

<div id="roundtrip">
    <form role="form" action="SearchResultRoundtrip.php"
method="post">
        <div class="row">
            <div class="col-sm-6">
                <label for="from">From:</label>
                <!--<input type="text" class="form-control" id="from"
name="from" placeholder="Code " required>--->
                <select class="form-control" name="from" id="from"
placeholder="City or Code" required>
                    <option value="Banglore">Banglore(BLR)</option>
                    <option value="Mumbai">Mumbai(BOM)</option>
                    <option value="Delhi">Delhi(DEL)</option>

```

```

        <option
value="Hyderabad">Hyderabad(HYD)</option>
        <option value="Chennai">Chennai(MAA)</option>
    </select>

</div>

<div class="col-sm-6">
    <label for="to">To:</label>
    <!--<input type="text" class="form-control" id="to"
name="to" placeholder="Code" required>--->
        <select class="form-control" name="to" id="to"
placeholder="City or Code" required>
            <option value="Banglore">Banglore(BLR)</option>
            <option value="Mumbai">Mumbai(BOM)</option>
            <option value="Delhi">Delhi(DEL)</option>
            <option
value="Hyderabad">Hyderabad(HYD)</option>
            <option value="Chennai">Chennai(MAA)</option>
        </select>

    </div>
</div>
<hr >
<div class="row">
    <div class="col-sm-6">
        <label for="depart">Depart:</label>
        <input type="date" class="form-control" id="depart"
name="depart" required>
    </div>
    <div class="col-sm-6">
        <label for="return">Return:</label>
        <input type="date" class="form-control" id="return"
name="return" required>
    </div>
</div>

```



```

</div>
<hr>
<div class="row">
  <div class="col-sm-6">
    <label for="class">Class:</label>
    <select class="form-control" name="class">
      <option value="Economy">Economy</option>
      <option value="Business">Business</option>
    </select>
  </div>
</div>
<br>
<div class="form-group">
  <label class="radio-inline">
    <input type="radio" name="stop" value="nonstop"
checked>Non-Stop
  </label>
</div>
<div class="btn-group btn-group-justified">
  <div class="btn-group">
    <button type="submit" class="btn btn-
success">Submit</button>
  </div>
  <div class="btn-group">
    <button type="reset" class="btn btn-info"
value="Reset">Reset</button>
  </div>
</div>
</form>
</div>
<div id="all">
  <form role="form" action="SearchResultAll.php" method="post">
    <div class="row">
      <div class="col-sm-6">

```

```

        <label for="selectdate">Select a date:</label>
        <input type="date" class="form-control" id="selectdate"
name="selectdate" required>
    </div>
</div>
<br>
<div class="row">
    <div class="col-sm-6">
        <button type="submit" class="btn btn-primary">Show
ALL</button>
    </div>
</div>
</form>

</div> </div>    </section>
<footer class="container-fluid text-center">
    <a href="#signUpPage" title="To Top">
        <span class="glyphicon glyphicon-chevron-up"></span>
    </a>
    <p>AirYatri.com</p>
</footer>
</body>
</html>

```

### homepage.css

```

#homepage {
    width: 800px;
    font-size: 16px;
    height: 600px;
}

.container
{

    color: black !important;
    font-family: monospace;

```

```

}
.navbar-header .navbar-brand {
    color: #000 !important;
}
.nav navbar-nav navbar-right li a
{
    color: black !important;
    font-family: sans-serif !important;
}
.collapse navbar-collapse li a
{
    color: black !important;
    font-family: sans-serif;
}
.jumbotron
{
    background-color: antiquewhite;
    margin-bottom: 0px;
}
.jumbotron h1
{
    text-align: center;
    font-family: sans-serif;
    font-weight: bold;
    font-style: italic;
    color: black;
    font-size: 50px;
}
.jumbotron h1::after
{
    content: "";
    background-color: palevioletred;
    display: block;

```

```

        height: 3px;
        width: 170px;
        margin: 10px auto 5px;
    }
.jumbotron p
{
    font-family: sans-serif;
    font-weight: bold;
    font-style: italic;
    color: black;
}
#content
{
    padding-top: 0px;
    background-image: url(home.jpg);
}
.container
{

    background-color: antiquewhite;
    color: black !important;
    border-radius: 2px;
}
.contents
{
    padding-top: 20px;
    font-family: sans-serif;
    align-items: center;
    background-color: antiquewhite;
    color: black !important;
    border-radius: 2px;
    border: 10px;
}

```

```
.contents h1::after
{
    content:";
    background-color: palevioletred;
    display: block;
    height: 3px;
    width: 170px;
    margin: 10px auto 5px;
}
```

### signup.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Airprice.com - airline tickets, cheap flights</title>
    <meta name="language" content="english" />
    <meta name="keywords" content="airprice, travel, cheap airfare, discount
airfare" />
    <meta http-equiv="content-type" content="text/html; charset=utf-8" />
    <meta http-equiv="Content-Style-Type" content="text/css" />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">
    <link rel="shortcut icon" type="image/x-icon"
href="https://lh3.googleusercontent.com/-
HtZivmahJYI/VUZKoVuFx3I/AAAAAAAAAAcM/thmMtUUPjbA/Blue_square_A-
3.PNG" />
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
    <link rel="stylesheet" href="forcompany.css">
    <link rel="stylesheet" href="AdminSignin.css">
    <link rel="stylesheet" href="pswd.css">
    <link rel="stylesheet" href="manda.css">
```

```

<script src="pswd.js"></script>
<script src="manda.js"></script>
<script src="formValidation.js"></script>
<script src="checkUser.js"></script>
<script src="login.js"> </script>
</head>
<body id="signUpPage" data-spy="scroll" data-target=".navbar" data-offset="60">
  <nav class="navbar navbar-default navbar-fixed-top">
    <div class="container">
      <div class="navbar-header">
        <button type="button" class="navbar-toggle" data-
toggle="collapse" data-target="#myNavbar">
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand" href="homepage.html"><span
class="glyphicon glyphicon-home"></span> Home</a>
      </div>
      <div class="collapse navbar-collapse" id="myNavbar">
        <ul class="nav navbar-nav navbar-right">
          <li id = "cart">
            <a class="navbar-brand"
href="cartshow.php"><span class="glyphicon glyphicon-shopping-cart"></span>
Shopping Cart</a>
          </li>
          <li class="dropdown" id = "new">
            <a class="dropdown-toggle" data-
toggle="dropdown" href="#"><span class="glyphicon glyphicon-user"> Sign
in&nbsp;</span><span class="caret"></span>
            </a>

```

```

        <ul class="dropdown-menu multi-level"
role="menu" aria-labelledby="dropdownMenu">
        <li><a
href="signup.html">Register</a></li>

        <li class="dropdown-submenu">
        <a tabindex="-1" href="#">Sign
in</a>

        <ul class="dropdown-menu">
        <li><a tabindex="-1"
href="Adminpage.html">Manager Sign in</a></li>

        <li><a
href="customersignin.html">Customer Sign in</a></li>

        </li>

        </ul>

        </li>

        </ul>

        </li>
        <li class="dropdown" id = "old">
        <a class="dropdown-toggle" data-
toggle="dropdown" href="#" ><span class="glyphicon glyphicon-user"
id="wuser">Welcom!</span>

        <span class="caret"></span>

        </a>

        <ul class="dropdown-menu multi-level"
role="menu" aria-labelledby="dropdownMenu">

        <li><a
href="showhistory.php">History</a></li>

        <li><a href="#"

id="logout">Sign out</a></li>

```

```

        </ul>
    </li>
</ul>
</div>
</div>
</nav>
<div class="jumbotron text-center">
    <h1>Airprice.com</h1>
    <p>We specialize in your air plan!</p>
</div>

<div class="container">
    <div class="page-header">
        <h2>Sign Up</h2>
    </div>
    <form name="myForm" onsubmit="return validateForm()"
class="form-horizontal" role="form" action="register.php" method="post">
        <div class="form-group">
            <label class="control-label col-sm-2"
for="username"><span style="color:red;">*</span> Username:</label>
            <div class="col-sm-6">
                <input type="username" class="form-control"
id="username" placeholder="only alphabetical or numeric characters"
name="username">
            </div>
            <div class="col-sm-2">
                <input type="button" class="btn btn-success
btn-block" id="check_username_availability" value="Check Availability">
            </div>
            <span class="error">Username is required</span>
        </div>
    </div>

```



```

        <div class="col-sm-offset-2 col-sm-6"
id="username_availability_result">
        </div>
</div>

<div class="form-group">
    <label class="control-label col-sm-2"
for="pwd1"><span style="color:red;">*</span> Password:</label>
    <div class="col-sm-6">
        <input type="password" class="form-control"
id="pwd1" placeholder="No special characters, at least one letter, one capital letter,
one number" name="pwd1">
    </div>
    <span class="error">Password is required</span>
</div>
<div class="form-group" id="pswd_info">
    <h4>Password must meet the following
requirements:</h4>
    <ul>
        <li id="letter" class="invalid">At least one
letter</li>
        <li id="capital" class="invalid">At least one
capital letter</li>
        <li id="number" class="invalid">At least one
number</li>
        <li id="length" class="invalid">At least 6
characters</li>
    </ul>
</div>
<div class="form-group">
    <label class="control-label col-sm-2"
for="firstname"><span style="color:red;">*</span> First Name:</label>
    <div class="col-sm-6">

```

```

        <input type="firstname" class="form-control"
id="firstname" placeholder="Enter Your First Name" name="firstname">
    </div>
    <span class="error">First Name is required</span>
</div>
<div class="form-group">
    <label class="control-label col-sm-2"
for="middlename">Middle Name:</label>
    <div class="col-sm-6">
        <input type="middlename" class="form-control"
id="middlename" name="middlename" placeholder="Enter Your Middle Name">
    </div>
</div>
<div class="form-group">
    <label class="control-label col-sm-2"
for="lastname"><span style="color:red;">*</span> Last Name:</label>
    <div class="col-sm-6">
        <input type="lastname" class="form-control"
id="lastname" placeholder="Enter Your Last Name" name="lastname">
    </div>
    <span class="error">Last Name is required</span>
</div>
<div class="form-group">
    <label class="control-label col-sm-2"
for="email"><span style="color:red;">*</span> Email:</label>
    <div class="col-sm-6">
        <input type="email" class="form-control"
id="email" placeholder="Enter Your Email" name="email">
    </div>
    <span class="error">Email is required</span>
</div>
<div class="form-group">
    <label class="control-label col-sm-2"
for="gender">Gender:</label>

```

```

        <div class="col-sm-6">
            <label class="radio-inline">
                <input type="radio" name="gender"
value="Female">Female
            </label>
            <label class="radio-inline">
                <input type="radio" name="gender"
value="Male">Male
            </label>
        </div>
    </div>
    <div class="form-group">
        <label class="control-label col-sm-2"
for="birthday">Birthday:</label>
        <div class="col-sm-6">
            <input type="date" class="form-control"
id="birthday" name="birthday">
        </div>
    </div>
    <div class="form-group">
        <label class="control-label col-sm-2" for="tel"><span
style="color:red;">*</span> Phone:</label>
        <div class="col-sm-6">
            <input type="tel" class="form-control" id="tel"
placeholder="Enter Your Phone Number" name="tel">
        </div>
        <span class="error">Phone is required</span>
    </div>

    <div class="form-group">
        <div class="col-sm-offset-2 col-sm-6">
            <button type="submit" class="btn btn-primary
btn-block" name="btn-signup" id="signup">Sign Up</button>
        </div>
    </div>

```

```

        </div>
    </form>
    <br /><br /><br />
</div>
<footer class="container-fluid text-center">
    <a href="#signUpPage" title="To Top">
        <span class="glyphicon glyphicon-chevron-up"></span>
    </a>
    <p>Airprice.com</p>
</footer>
</body>
</html>
Customersign.html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Airprice.com - airline tickets, cheap flights</title>
    <meta name="language" content="english" />
    <meta name="keywords" content="airprice, travel, cheap airfare, discount
airfare" />
    <meta http-equiv="content-type" content="text/html; charset=utf-8" />
    <meta http-equiv="Content-Style-Type" content="text/css" />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">
    <link rel="shortcut icon" type="image/x-icon"
href="https://lh3.googleusercontent.com/-
HtZivmahJYI/VUZKoVuFx3I/AAAAAAAAAcM/thmMtUUPjbA/Blue_square_A-
3.PNG" />
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
    <link rel="stylesheet" href="forcompany.css">

```

```

        <link rel="stylesheet" href="customersignin.css">
        <link rel="stylesheet" href="AdminSignin.css">
        <script src="login.js"> </script>
    </head>

    <body id="signUpPage" data-spy="scroll" data-target=".navbar" data-offset="60">
        <nav class="navbar navbar-default navbar-fixed-top">
            <div class="container">
                <div class="navbar-header">
                    <button type="button" class="navbar-toggle" data-
toggle="collapse" data-target="#myNavbar">
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                    </button>
                    <a class="navbar-brand" href="homepage.html"><span
class="glyphicon glyphicon-home"></span> Home</a>
                </div>
                <div class="collapse navbar-collapse" id="myNavbar">
                    <ul class="nav navbar-nav navbar-right">
                        <li id="cart">
                            <a class="navbar-brand"
href="cartshow.php"><span class="glyphicon glyphicon-shopping-cart"></span>
Shopping Cart</a>
                        </li>

                        <li class="dropdown" id="new">
                            <a class="dropdown-toggle" data-
toggle="dropdown" href="#"><span class="glyphicon glyphicon-user"> Sign
in&nbsp;</span><span class="caret"></span>
                            </a>
                            <ul class="dropdown-menu multi-level"
role="menu" aria-labelledby="dropdownMenu">

```

```

</li><a
href="signup.html">Register</a></li>

<li class="dropdown-submenu">
    <a tabindex="-1" href="#">Sign
in</a>

    <ul class="dropdown-menu">
        <li><a tabindex="-1"
href="Adminpage.html">Manager Sign in</a></li>
        <li><a
href="customersignin.html">Customer Sign in</a></li>
    </ul>
</li>

</ul>

</li>

<li class="dropdown" id = "old">
    <a class="dropdown-toggle" data-
toggle="dropdown" href="#" ><span class="glyphicon glyphicon-user"
id="wuser">Welcom!</span>
    <span class="caret"></span>
</a>
    <ul class="dropdown-menu multi-level"
role="menu" aria-labelledby="dropdownMenu">
        <li><a
href="showhistory.php">History</a></li>

        <li><a href="#"
id="logout">Sign out</a></li>
    </ul>
</li>

```

```

        </ul>
    </div>
</div>
</nav>
<div class="jumbotron text-center">
    <h1>AirYatri.com</h1>
    <p>Your one and only cheap and best online ticket platform!!!</p>
</div>

<div class="container" id="signin">
    <h2>Welcome , please sign-in.</h2>
    <p>We want your visit to be fast and easy. Please enter your
username and password to get started. If you need to set up your profile, please <a
href="signup.html">register now</a>.</p>

    <form action="login.php" method="post">
    <div class="container" id="main">
        <h3>Your username:</h3>
        <input type="text" class="form-control" id="username"
placeholder="Enter Your Username" name="username" required>
        <h3>Your password:</h3>
        <input type="password" class="form-control" id="pwd"
placeholder="Enter Your Password" name="pwd" required>

    </div>
    <br />
    <div class="col-sm-offset-2 col-sm-6">
        <div class="checkbox">
            <label><input type="checkbox"> Remember my
username when I return</label>
        </div>
    </div>

    <div class="col-sm-offset-2 col-sm-8">

```

```

        <button type="submit" class="btn btn-success btn-block"
name="btn-login">Sign In</button>
    </div>
</form>

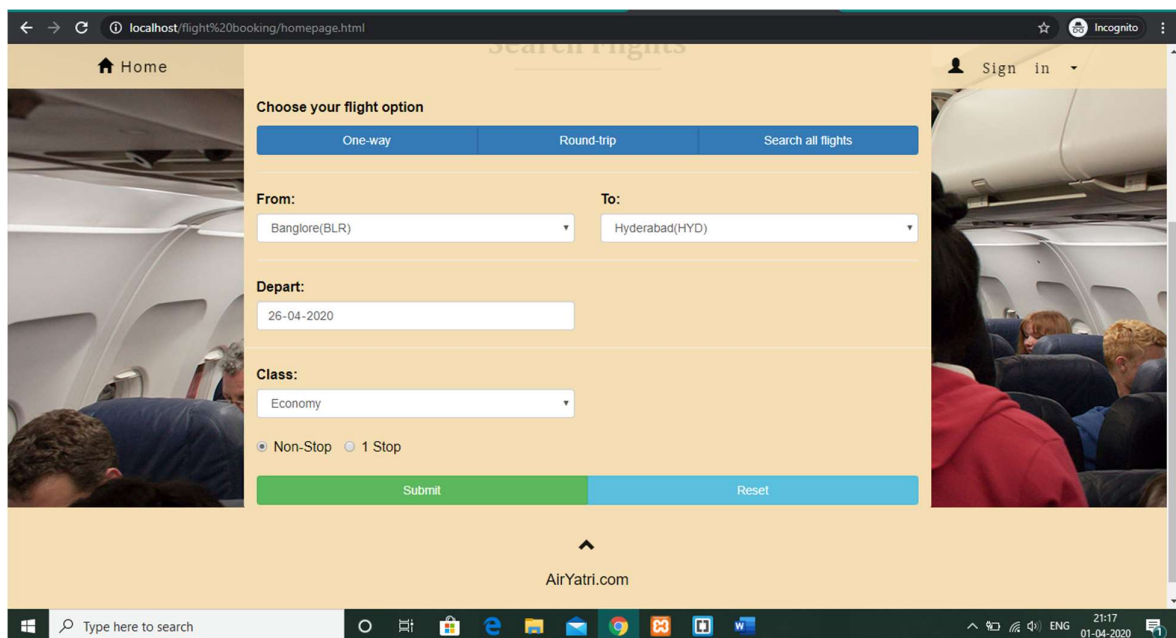
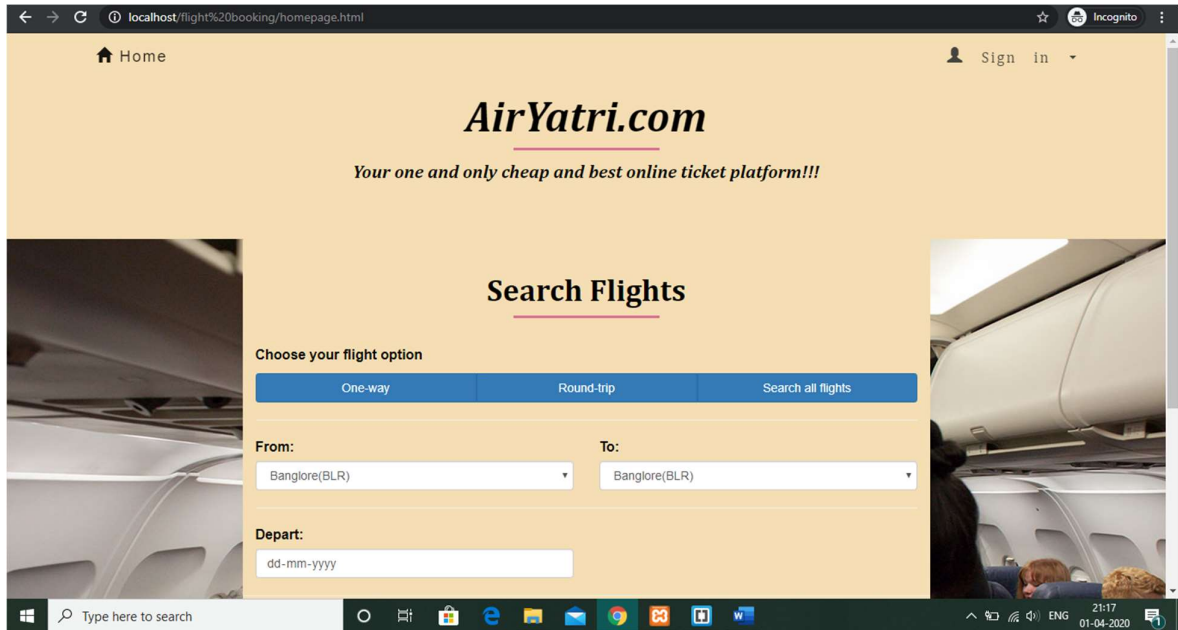
</div>
<br /><br />
<footer class="container-fluid text-center">
    <a href="#signUpPage" title="To Top">
        <span class="glyphicon glyphicon-chevron-up"></span>
    </a>
    <p>Airprice.com</p>
</footer>
</body>
</html>

```



## 6. RESULTS AND UI OF WEBSITE

### 2. Output



The image displays two screenshots of the AirYatri.com website interface.

**Top Screenshot (Login Page):** The URL is `localhost/flight%20booking/customersignin.html`. The page features a header with a "Home" link and a "Sign in" button. The main heading is "AirYatri.com" with the tagline "Your one and only cheap and best online ticket platform!!!". Below this, a message says "Welcome , please sign-in." followed by instructions: "We want your visit to be fast and easy. Please enter your username and password to get started. If you need to set up your profile, please [register now](#)." The login form includes fields for "Your username:" (placeholder: "Enter Your Username") and "Your password:" (placeholder: "Enter Your Password"). There is a checkbox for "Remember my username when I return" and a green "Sign In" button.

**Bottom Screenshot (Sign Up Page):** The URL is `localhost/flight%20booking/signup.html`. The header is identical to the login page. The main heading is "AirYatri.com" with the same tagline. Below this, the section is titled "Sign Up". The form includes fields for "Username:" (placeholder: "only alphabetical or numeric characters"), "Password:" (placeholder: "No special characters, at least one letter, one capital letter, one number"), "First Name:" (placeholder: "Enter Your First Name"), "Middle Name:" (placeholder: "Enter Your Middle Name"), and "Last Name:" (placeholder: "Enter Your Last Name"). A green "Check Availability" button is positioned next to the username field.

localhost/flight%20booking/signup.html

Home Sign Up

Sign in

\* Username: Asdfg

\* Password:

\* First Name: Asdf

Middle Name:

\* Last Name: GHI

\* Email: asdfghi@wef.com

Gender: ☒ Female ☐ Male

Birthday: 24-10-1990

\* Phone: 123456789

localhost/flight%20booking/homepage.html

Home Shopping Cart Welcome Asdfg

# AirYatri.com

Your one and only cheap and best online ticket platform!!!

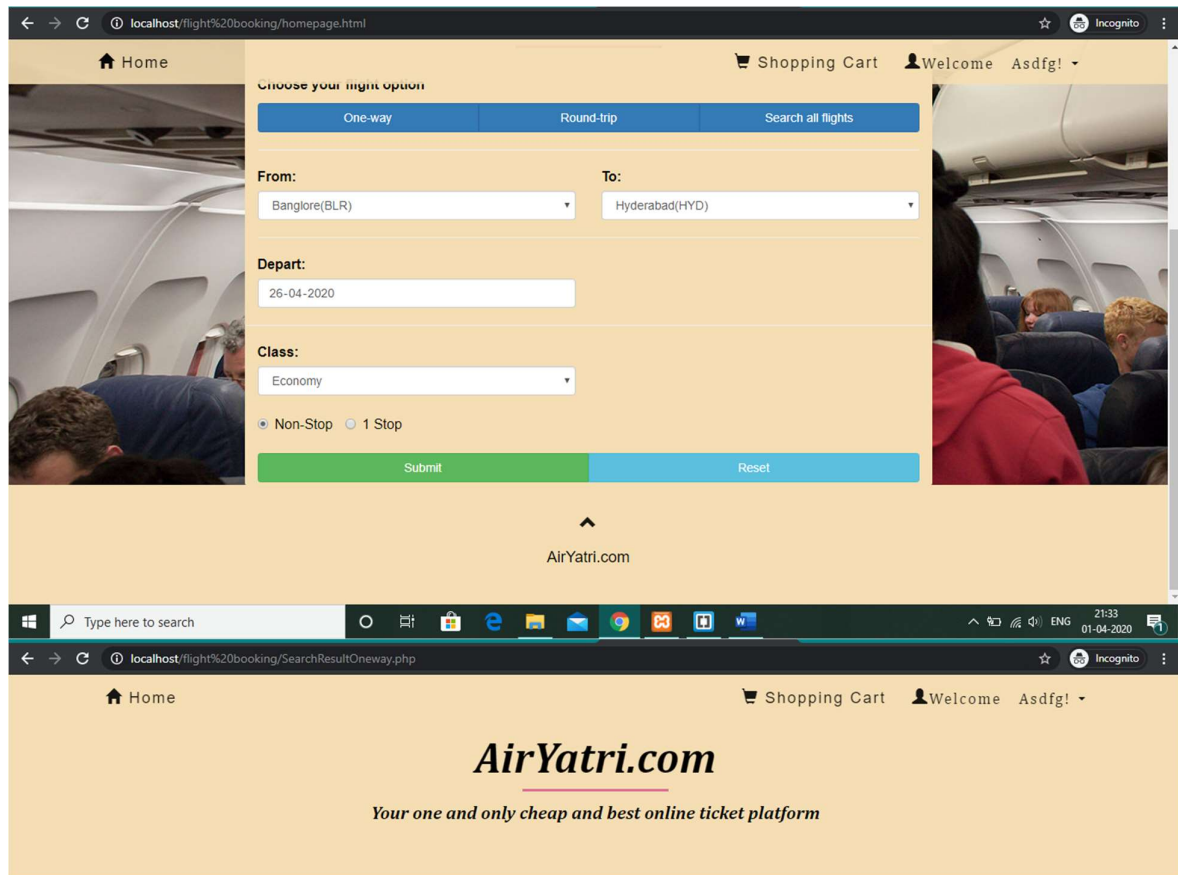
## Search Flights

Choose your flight option

One-way Round-trip Search all flights

From: Bangalore(BLR) To: Hyderabad(HYD)

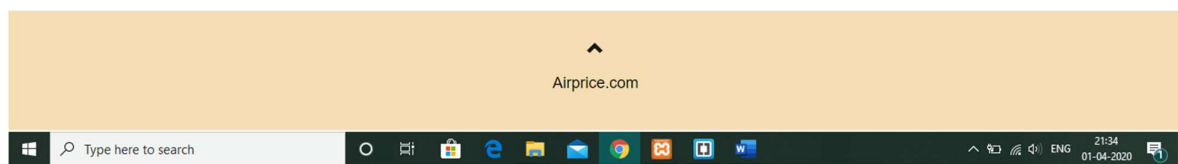
Depart: 26-04-2020



## Search Result

Search Result: 1 result(s)

Flight	Aircraft	Date	Departure	Departure Time	Arrival	Arrival Time	Class	Capacity	Price	Remain Seats	Reserve
AA100	Airbus A320	2020-04-26	BLR	18:35:00	HYD	21:00:00	Economy	200	180	199	<a href="#">Add to Chart</a>



← → ↻ localhost/flight%20booking/cartshow.php ☆ Incognito

Home Shopping Cart Welcome Asdfg!

# AirYatri.com

Your one and only cheap and best online ticket platform!!!

## Shopping cart

In the shopping cart:

Time	Flight	Aircraft	Date	Departure	Departure Time	Arrival	Arrival Time	Class	Price	Pay
2020-04-01 11:07:38	AA100	Airbus A320	2020-04-26	BLR	18:35:00	HYD	21:00:00	Economy	180	Delete

Total: \$180 Pay

Windows Type here to search 21:39 01-04-2020


← → ↻ localhost/flight%20booking/pay.php ☆ Incognito

Home Shopping Cart Welcome Asdfg!

# AirYatri

Your one and only cheap and best online ticket platform!!!

## Payment Finish



^

Airprice.com

Windows Type here to search 21:40 01-04-2020

## CHAPTER 7: CONCLUSION

The world has advanced into the era of internet technology. Even mundane chores such as paying bills, making purchases and booking holidays are increasingly being done on the internet. The airline industry made use of the internet boom by developing airlines reservation system (ARS), which has now evolved into Computer Reservation System (CRS). Using the CRS technology now, it is easily possible to book flights online through the company websites or through third-party websites. It is predicted that the CRS, with features such as online reservation and check-in, will be used by the vast majority of aircraft companies in the world in the coming years. The competition among the airline companies, the drop in fares over the years, and the availability and accessibility of the flight deals have led to the soar in number of people flying. Nowadays, the websites of airlines companies provide all kinds of facilities such as package tours, accommodation services, airport transfer, car rental as well as 3D illustrations through websites and pictures of the destinations. These features and the convenience of booking from your home makes online flight booking very attractive to the customers. There is no doubt that the online flight booking system is here to stay. Although only the areas in the world with high speed connection and internet accessibility are the largest customers of this system currently, the internet reach throughout the world is rapidly growing. It can be expected of not only the airlines industries but also other travel and tourism industries to add even more features and enhance the online system of booking and other services. The internet security and the limited customers from only the developed side of the world are currently the biggest general challenges. But since various research and results show that the business of airlines has increased by folds upon the introduction of online flight booking system, it is almost certain that there will be further development and enhancement in the already user-friendly online system of most airlines today with the rapid growth of technology.

## REFERENCES:

### 3. References

- [1] Atkinson, B. 2015. How does online check in work? Available: <http://www.travelsupermarket.com/blog/how-does-online-check-in-work/>. Accessed: 17th September, 2015.
- [2] Borodescu, C. 2013. Web Sites vs Web Apps: What The Experts Think. Available: <http://www.visionmobile.com/blog/2013/07/web-sites-vs-web-apps-what-the-experts-think/>. Accessed: 17th September, 2015.
- [3] Chaffee, A. 2012. What is a web application? Available: <http://www.jguru.com/faq/view.jsp?EID=129328/>. Accessed 30th July, 2015.
- [4] Crosby, T. 2007. How Airline E-Tickets Work. Available: <http://adventure.howstuffworks.com/destinations/travel-guide/tips/how-airline-etickets-work.htm/>. Accessed 5th August, 2015.
- [5] Kaplan-Moss, J., Holovaty, A. 2007. The Definitive Guide to Django. New York. Apress.
- [6] Laird, C., Soraiz, K. 1998. Getting Started with Python. SunWorld Online.
- [7] Lie, H., Bos, B. 1999. Cascading Style Sheets, level 1. Available: <http://www.w3.org/TR/1999/REC-CSS1-19990111/>. Accessed: 17th September, 2015.
- [8] Ross, G. 2013. Airline Reservation Systems History 101. Available: <https://www.cbtravel.com/blog/2013/11/airline-reservation-systems-history-101/>. Accessed: 17th September, 2015.
- [9] Rouse, M. 2015. e-commerce (electronic commerce or EC) definition, Available: <http://searchcio.techtarget.com/definition/e-commerce/>. Accessed 10th August, 2015.
- [10] Rouse, M. 2005. Website definition. Available: <http://searchsoa.techtarget.com/definition/Web-site/>. Accessed 16th August, 2015.
- [11] Shannon, R. 2012. What is HTML? Available: <http://www.yourhtmlsource.com/starthere/whatishtml.html/>. Accessed: 5th August, 2015.
- [12] Skutin, A. 2014. What Every Frontend Developer Should Know About Webpage Rendering. Available: <http://frontendbabel.info/articles/webpage-rendering-101/>. Accessed: 18th September, 2015