

PROJECT REPORT

On

AIRLINE RESERVATION SYSTEM

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TABLE OF CONTENTS

Content
I)Title
II)ABSTRACT
CHAPTER 1 INTRODUCTION
1.1 Background of the project
1.2 Problem statement
1.3 Objectives and scope of the project
1.4 Significance of the project
CHAPTER 2 LITERATURE SURVEY.....
1.1 Architecture and system overview
1.2 Security considerations
CHAPTER 3 Implementation
3.1 Details of how the project was implemented with Code snippets
3.2 Challenges during implementation
CHAPTER 4 Results and Discussion
4.1 Project results & analysis
4.2 Comparison with project objectives
CHAPTER 5 Conclusion
5.1 Summary of the project
5.2 Future work and recommendations
CHAPTER 6 References

ABSTRACT

The Airline Reservation System is a dynamic and user-friendly website designed to provide a seamless and efficient experience for travelers. This system serves as a one-stop platform for users to explore, book, and manage their plane tickets, making air travel more accessible and convenient.

The homepage of the system offers a welcoming interface with intuitive buttons to navigate to various sections of the website. The "Share Page" button connects users to popular social media platforms like Instagram, Facebook, and Twitter, allowing them to share their travel experiences and stay connected with friends and family.

The "About Us" page provides detailed information about the airline, including insights into the company's background, mission, and contact information. Users can gain a comprehensive understanding of the airline's values and goals, as well as establish direct communication channels for inquiries and support.

The "Booking Page" is the core feature of the system, enabling users to search for available flights, select their preferred options, and make reservations effortlessly. The system offers a user-friendly interface that allows travelers to input their travel details, such as departure and destination, travel dates, and the number of passengers, ensuring a smooth booking process.

The "Ongoing Page" keeps travelers informed about their existing reservations and flight status. Users can access real-time information about their upcoming flights, including departure and arrival times, gate details, and any updates or notifications related to their travel plans.

The Airline Reservation System aims to enhance the travel experience for users by providing a secure, efficient, and informative platform for booking and managing plane tickets. Whether planning a vacation, a business trip, or any other travel-related adventure, this system offers a convenient and reliable solution, all within a few clicks.

With a user-centric design and a commitment to providing accurate and up-to-date information, the Airline Reservation System promises to be a valuable tool for travelers seeking an exceptional airline reservation experience.

CHAPTER 1

INTRODUCTION

- **Background of the project**
- **Problem statement**
- **Objectives and scope of the project**
- **Significance of the project**

1.1 Background of the project

The Airline Reservation System is a sophisticated website that aims to revolutionize the way individuals and travelers book, manage, and experience air travel. In a world characterized by rapid technological advancements and increasing demand for seamless travel solutions, this project seeks to address the evolving needs of travelers and airlines alike.

Context:

The aviation industry plays a pivotal role in connecting people, businesses, and cultures around the world. In recent years, the demand for air travel has surged, with travelers expecting greater convenience, accessibility, and information transparency. This industry's success heavily relies on the efficiency of its reservation and management systems.

Challenges:

1. **User-Centric Experience:** In an era of digitalization, travelers are accustomed to intuitive and user-friendly platforms for their booking and travel needs. To compete effectively, airlines must provide a seamless user experience.
2. **Real-Time Information:** Passengers demand real-time access to flight information, making it crucial for airlines to provide timely updates about flight status, gate changes, and delays.
3. **Integration with Social Media:** Sharing travel experiences and updates on social media has become the norm. Airlines can leverage this trend to engage with passengers and promote their services.

Objectives:

The Airline Reservation System project is driven by the following key objectives:

1. **Enhanced User Experience:** Create a user-friendly interface that simplifies the process of booking and managing airline tickets, making it accessible to travelers of all backgrounds.
2. **Timely Information:** Provide passengers with real-time flight

information, ensuring they are well-informed about their travel plans.

3. fSocial Media Engagement: Enable travelers to connect with the airline through social media platforms like Instagram, Facebook, and Twitter. This not only enhances the customer experience but also serves as a marketing and communication tool for the airline.

Key Features:

The system boasts several key features:

- Homepage with Share Page: A central hub where users can effortlessly navigate to different sections of the system, including sharing their travel experiences on popular social media platforms such as Instagram, Facebook, and Twitter.
- About Us Page: This section provides insights into the airline's history, values, mission, and contact information, establishing transparency and trust with passengers.
- Booking Page: The core feature of the system, allowing travelers to search, select, and book flights conveniently. It simplifies the process of inputting travel details and personal information.
- Ongoing Page: Keeping passengers updated about their ongoing flight reservations, with real-time information on departure and arrival times, gate details, and travel notifications.

Project Impact:

The Airline Reservation System has the potential to transform the airline industry. It empowers airlines to enhance the customer experience, improve operational efficiency, and boost their brand image by providing a more user-centric and informative platform for booking and managing plane tickets. Moreover, by integrating with social media, airlines can increase their reach and customer engagement.

In summary, this project strives to bring air travel into the digital age, making it more accessible, convenient, and enjoyable for travelers while helping airlines better connect with their customers.

1.2 Problem statement

Problem Statement

The current airline industry is rapidly evolving, and travelers are increasingly seeking efficient and user-friendly platforms for booking and managing their flight reservations. This project aims to develop a comprehensive web design solution for an Airline Reservation System that addresses the following key issues:

1. **Complex Booking Process:** Many existing airline reservation systems are burdened with complex and confusing booking processes. Simplifying the booking process is essential to ensure that users can easily search, select, and book flights based on their preferences.
2. **Inadequate User Information:** Users often struggle to find essential information about airlines, such as their mission, background, and contact details. The project must focus on creating an informative "About Us" page that conveys the airline's identity and values effectively.
3. **Disconnected Communication:** Airlines need a direct channel for communication with their customers. Users should be able to connect with the airline easily, ask questions, seek assistance, and provide feedback. The system should provide a platform for streamlined communication through the "Contact Us" section.
4. **Lack of Social Integration:** In the age of social media, airlines need to have a strong online presence. The project should incorporate social integration by adding buttons on the homepage to connect users to the airline's Instagram, Facebook, and Twitter pages, fostering a sense of community and enabling easy sharing of travel experiences.
5. **Ongoing Reservation Management:** Keeping travelers informed about their ongoing flight reservations is vital. The project should create an "Ongoing Page" where users can check their flight details, including departure and arrival times, gate information, and any updates related to their upcoming travel.
6. **Responsive Design:** The system should be responsive and accessible across various devices, including desktop computers, tablets, and smartphones. This ensures that users can access and use the system seamlessly, regardless of their preferred device.

7. User Experience: A critical aspect is enhancing the overall user experience. The system should be visually appealing, user-friendly, and intuitive, ensuring that users can easily navigate through its various sections, make bookings, and access information.

8. Security and Data Privacy: Data security is paramount. The project should prioritize user data protection and implement necessary security measures to ensure the safety of personal and payment information.

In conclusion, this web design project aims to address these challenges by creating an Airline Reservation System that is user-centric, efficient, and informative. The goal is to provide travelers with a convenient and secure platform for booking and managing flight reservations while fostering communication and engagement through social media integration and an informative "About Us" page.

1.3 Objectives and scope of the project

Objectives of the Airline Reservation System Project:

1. **Enhanced User Experience:** The primary objective of the project is to create a user-friendly and intuitive web design that significantly improves the overall experience of users when booking and managing plane tickets.
2. **Efficient Booking Process:** Streamlining the ticket booking process is a key goal. The project aims to provide a hassle-free and efficient booking system that simplifies flight searches, ticket reservations, and payment processes.
3. **Comprehensive Information:** The project intends to offer comprehensive information, including real-time flight status, details about the airline's background, mission, and contact information, and easy access to ongoing flight details.
4. **Social Media Integration:** The inclusion of social media sharing buttons (Instagram, Facebook, Twitter) on the homepage encourages users to share their travel experiences, ultimately increasing the airline's online presence.
5. **Responsive Design:** Ensuring the web application is accessible and responsive across a variety of devices, including desktops, tablets, and mobile phones.
6. **Security and Data Privacy:** Implement robust security measures to protect user data and ensure that all transactions and interactions within the system are secure.
7. **Scalability:** The project should be designed to accommodate future enhancements and expansion, such as integrating additional airlines or adding new features.
8. **Feedback and Support:** Provide mechanisms for users to offer feedback and support. This includes offering contact channels for inquiries, complaints, or assistance.

Scope of the Airline Reservation System Project:

1. **Homepage:** The project will design an engaging homepage with easy navigation buttons to the main sections: "Share Page," "About Us,"

"Booking Page," and "Ongoing Page." The homepage will include links to the airline's social media profiles, facilitating content sharing.

2. Share Page: This section will contain share buttons linked to popular social media platforms, enabling users to share their travel experiences and connect with the airline's social media presence. The focus is on ease of sharing and social engagement.

3. About Us Page: This page will present detailed information about the airline, including its history, mission, and contact information. Users will gain insights into the airline's values and goals and be able to initiate contact for queries or support.

4. Booking Page: The core feature of the project, this section will facilitate flight searches, ticket selection, and reservations. Users can input travel details such as departure and destination, travel dates, and passenger information, resulting in a seamless booking experience.

5. Ongoing Page: Users will access real-time information about their ongoing flight reservations, including flight status, departure and arrival times, gate details, and relevant updates. This section keeps travelers informed about their travel plans.

6. Security Features: The project scope includes implementing security measures, such as encryption, secure payment gateways, and data protection protocols, to ensure user data is secure.

7. Responsive Design: The web design will be responsive, ensuring that the system is accessible and functions effectively on various devices and screen sizes.

8. Feedback and Support Mechanisms: The project will offer contact forms or links for users to provide feedback, seek assistance, or make inquiries, strengthening user support.

9. Expandability: The system will be designed with future scalability in mind, allowing for easy integration of new features and services, as well as potential expansion to include more airlines.

By defining clear objectives and scope, the Airline Reservation System project can be successfully planned, developed, and implemented, meeting the needs of travelers while promoting the airline's online presence and services.

1.4 Significance of the project

Significance of the Airline Reservation System Web Design Project

The Airline Reservation System web design project holds significant value for both the airline service provider and its customers. Below are key points highlighting the significance of this project:

1. **Enhanced User Experience:** The project aims to provide a user-friendly and intuitive interface that simplifies the process of booking plane tickets. This enhanced user experience can attract more customers and ensure they can quickly and efficiently make reservations.
2. **Convenience and Accessibility:** Air travelers can access the airline's services and book tickets from the comfort of their homes or on the go, increasing the accessibility of the airline's offerings. This is especially crucial in today's digital age.
3. **Improved Customer Engagement:** Features like the "Share Page" with links to social media platforms (Instagram, Facebook, and Twitter) promote customer engagement and interaction. Passengers can share their travel experiences, leading to free marketing and word-of-mouth promotion for the airline.
4. **Transparency and Real-time Updates:** The "Ongoing Page" provides real-time updates on flight details, ensuring passengers are well-informed about any changes or delays. This transparency enhances the trust and reliability of the airline.
5. **Mission and Identity Communication:** The "About Us" page serves as a platform for the airline to communicate its mission, values, and identity. This helps in building a strong brand and connecting with customers on a personal level.
6. **Increased Sales and Revenue:** The "Booking Page" is the core feature, directly impacting the airline's sales and revenue. The ease of use and convenience provided by the system can attract more bookings and boost profits.
7. **Customer Support and Inquiries:** The "Contact Us" section within the "About Us" page allows customers to reach out for inquiries or support, which is crucial for addressing their concerns promptly and maintaining a high level of customer satisfaction.

8. **Competitive Edge:** In the highly competitive airline industry, offering an efficient online reservation system is a competitive advantage. Airlines that prioritize user experience are more likely to attract and retain customers.

9. **Global Reach:** The online nature of the system enables the airline to reach a global audience. Customers from different parts of the world can book tickets with ease, expanding the airline's reach and market potential.

10. **Data Analytics and Business Insights:** The system can gather valuable data on customer preferences, booking trends, and user behavior. Analyzing this data can help the airline make informed business decisions and optimize its services.

11. **Sustainability and Cost Savings:** A digital reservation system reduces the need for physical infrastructure, paperwork, and staff to manage bookings manually. This contributes to cost savings and aligns with environmental sustainability goals.

In conclusion, the Airline Reservation System web design project is significant for its ability to revolutionize how airlines connect with their customers, streamline booking processes, and ultimately improve the travel experience. It's a win-win for both the airline and its passengers.

CHAPTER 2

LITERATURE SURVEY

- **Architecture and system overview**
- **Security considerations**

2 Architecture and system overview

Project Title: Airline Reservation System - Architecture and System Overview

Project Description:

The Airline Reservation System is a web-based application designed to streamline the airline booking process, manage user interactions, and facilitate airline ticket reservations. The system consists of multiple web pages and a backend database to store and retrieve flight-related information. This document provides an overview of the system architecture and components.

System Architecture:

The Airline Reservation System is based on a client-server architecture, with a focus on user interaction, data storage, and retrieval.

Components:

1. Client-Side Components:

- Web User Interface (UI): This is the front-end component of the system, which includes the homepage, sharing page, about us page, booking page, and ongoing page. It is responsible for user interactions and presenting information.

- Web Browsers: Clients access the system through web browsers (e.g., Chrome, Firefox, Safari), which render and display the web UI.

2. Server-Side Components:

- Web Server: The web server handles HTTP requests and responses. It hosts the system's web pages, processes user inputs, and communicates with the backend server.

- Backend Server: This server is responsible for handling data storage, retrieval, and business logic.

3. Database:

- MySQL Database: The system utilizes MySQL to store and manage flight-related data. It includes tables for storing flight details, user information, and ongoing flight information.

System Overview:

1. Homepage:

- The homepage serves as the entry point of the system. It provides buttons to navigate to other sections of the system.
- Buttons: The "Share Page" button directs users to share their travel experiences on social media platforms, including Instagram, Facebook, and Twitter.

2. About Us Page:

- The "About Us" page offers information about the airline, including details about the company, its mission, and contact information.

3. Booking Page:

- The booking page allows users to search for available flights, select their preferences, and make reservations.
- Data Storage: When users make flight reservations, the booking details are stored in the MySQL database, including flight information, passenger details, and reservation status.

4. Ongoing Page:

- The ongoing page provides information about users' existing reservations and the status of their flights.
- Data Retrieval: The ongoing page fetches ongoing flight details from the MySQL database, including departure and arrival times, gate information, and any updates.

User Flow:

1. Users access the homepage, where they can navigate to other sections.
2. Users can share their experiences by clicking on the "Share Page" button, which links to social media platforms.
3. The "About Us" page provides insights into the airline's background, mission, and contact information.
4. Users can search for and book flights on the booking page. Booking details are stored in the MySQL database.
5. The ongoing page displays real-time flight information, fetched from the database.

Data Flow:

- User interactions trigger HTTP requests from the client to the web server.
- The web server processes requests, communicates with the backend

server to retrieve or store data in the MySQL database.

- The backend server handles business logic and interacts with the MySQL database for data retrieval and storage.
- Data is then sent back to the client, which updates the UI to reflect the requested information.

The Airline Reservation System offers users an easy and convenient way to book and manage flight reservations, all while maintaining data integrity and reliability using a MySQL database on the backend.

2 Security considerations

Project Description:

The Secure Airline Reservation System is a web design project that aims to provide a secure and user-friendly platform for booking plane tickets and managing travel-related information. This project includes the following components:

1. Homepage: The homepage serves as the main landing page for the system. It includes various security considerations:

- User Authentication: Implement user authentication mechanisms to ensure that only authorized users can access certain functionalities.
- Secure Session Management: Use secure session handling to maintain user sessions and prevent session hijacking.
- Input Validation: Validate user inputs to prevent SQL injection and cross-site scripting (XSS) attacks.

2. Share Page: This page contains buttons to share the user's travel experiences on social media platforms like Instagram, Facebook, and Twitter. Security measures include:

- Secure Social Media Integration: Safely integrate with social media APIs following best practices and using secure access tokens.
- Data Privacy: Ensure that sharing features respect user data privacy and comply with relevant regulations.

3. About Us Page: This page provides information about the airline, including who they are, their mission, and contact details. Security aspects:

- Data Encryption: Ensure that contact information is transmitted securely using encryption protocols (e.g., HTTPS).
- Data Protection: Implement measures to protect contact information and mission statements from unauthorized access.

4. Booking Page: Users can search for flights and book tickets, and the data is stored in a MySQL database using PHP. Security measures:

- Secure Data Transmission: Use HTTPS to encrypt data during submission.
- Database Security: Implement secure PHP coding practices to prevent SQL injection. Store sensitive data securely in the database.

5. Ongoing Page: This page displays details of ongoing flight reservations

by fetching data from the MySQL database using PHP. Security considerations:

- Access Control: Ensure that only users with valid bookings can access their ongoing flight information.
- Data Validation: Validate data retrieved from the database to prevent tampering and unauthorized access.

Security Framework:

To enhance the security of the Airline Reservation System, it is recommended to follow a security framework that covers aspects such as authentication, authorization, data encryption, secure coding practices, and compliance with data protection regulations (e.g., GDPR).

Security Testing:

Conduct thorough security testing, including penetration testing, to identify and address vulnerabilities in the system. Regular security assessments should be performed to stay up-to-date with emerging threats.

User Education:

Educate users about safe online practices, including the importance of using strong passwords, avoiding public Wi-Fi for sensitive transactions, and recognizing phishing attempts.

Compliance:

Ensure that the system complies with relevant data protection and privacy regulations, depending on the geographical regions where it will be used.

By incorporating these security considerations, the Secure Airline Reservation System aims to provide a safe and reliable platform for users to book flights and manage their travel information.

CHAPTER 3

Implementation

- **Details of how the project was implemented with Code snippets**
- **Challenges during implementation**

3.1 Details of how the project was implemented with Code snippets

● home.html

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Plane Booking System</title>
  <link rel="stylesheet" href="style1.css">
</style>
```

```
h1 {
  font-size: 36px;
}
```

```
.flight-details {
  margin: 20px;
  padding: 20px;
  background: #fff;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.2); }
```

```
p {
  font-size: 18px;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="background-container">
```

```
  
```

```
<div class="content">
```

```
  <h1>Plane Booking System</h1>
```

```
  <div class="links">
```

```
    <a href="share.html" class="social-link share">Connect
```

```

With Us</a>
    <a href="book.html" class="social-link book">Book</a>
    <a href="about.html" class="social-link about">About Us
</a>
    <a href="showdata.php" class="social-link
about">ongoing </a>
</div>

</body>
</html>

```

● style1.html

Code:

```

* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
    font-family: Arial, sans-serif;
}

.background-container {
    position: relative;
    overflow: hidden;
    width: 100%;
    height: 100vh;
}

.background-image {
    position: absolute;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    object-fit: cover;
    animation: zoomIn 10s infinite;
}

@keyframes zoomIn {
    0% {
        transform: scale(1);

```

```
}
50% {
    transform: scale(1.2);
}
100% {
    transform: scale(1);
}
}

.content {
    position: relative;
    z-index: 1;

    padding: 20px;
    text-align: center;
}

h1 {
    font-size: 28px;
    margin: 20px 0;
}

.social-links {
    display: flex;
    justify-content: center;
}

.social-link {
    display: inline-block;
    padding: 10px 20px;
    margin: 10px;
    background-color: #007BFF;
    color: #fff;
    text-decoration: none;
    border-radius: 5px;
    font-size: 18px;
    transition: background-color 0.3s;
}

.share {
    background-color: #E4405F;
}
```

```
.book {  
    background-color: #1877F2;  
}  
  
.about {  
    background-color: #1DA1F2;  
}  
  
.social-link:hover {  
    background-color: #0056b3;  
}
```

Output:

Plane Booking System

[Connect With Us](#)[Book](#)[About Us](#)[ongoing](#)

● Share.html

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Connecting with Social Media</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>

<div class="background-container">
    

    <div class="content">
        <h1>Connect with Us on Social Media</h1>
        <div class="social-links">
            <a href="https://www.instagram.com" target="_blank"
class="social-link instagram">Instagram</a>
            <a href="https://www.facebook.com" target="_blank"
class="social-link facebook">Facebook</a>
            <a href="https://twitter.com" target="_blank"
class="social-link twitter">Twitter</a>
        </div>
    </div>
</div>
</body>
</html>
```

● style.html

Code:

```
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
}

body {
```



```
    font-family: Arial, sans-serif;
}

.background-container {
    position: relative;
    overflow: hidden;
    width: 100%;
    height: 100vh;
}

.background-image {
    position: absolute;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    object-fit: cover;
    animation: zoomIn 10s infinite;
}

@keyframes zoomIn {
    0% {
        transform: scale(1);
    }
    50% {
        transform: scale(1.2);
    }
    100% {
        transform: scale(1);
    }
}

.content {
    position: relative;
    z-index: 1;

    padding: 20px;
    text-align: center;
}

h1 {
    font-size: 28px;
    margin: 20px 0;
```

```
}

.social-links {
  display: flex;
  justify-content: center;
}

.social-link {
  display: inline-block;
  padding: 10px 20px;
  margin: 10px;
  background-color: #007BFF;
  color: #fff;
  text-decoration: none;
  border-radius: 5px;
  font-size: 18px;
  transition: background-color 0.3s;
}

.instagram {
  background-color: #E4405F;
}

.facebook {
  background-color: #1877F2;
}

.twitter {
  background-color: #1DA1F2;
}

.social-link:hover {
  background-color: #0056b3;
}
```

Output:



- about.html

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
initial-scale=1.0">
  <title>About Us - Flight Booking</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f5f5f5;
    }

    header {
      background-color: #007BFF;
      color: #fff;
      padding: 20px;
      text-align: center;
    }

    h1 {
      margin: 0;
    }

    .container {
      max-width: 1200px;
      margin: 0 auto;
      padding: 20px;
    }

    .about-section {
```

```

        background-color: #fff;
        border-radius: 5px;
        padding: 20px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        margin: 20px;
    }

    .about-section h2 {
        color: #007BFF;
    }

    .about-section p {
        margin: 0;
    }
</style>
</head>
<body>
    <header>
        <h1>About Us - Flight Booking</h1>
    </header>
    <div class="container">
        <div class="about-section">
            <h2>Who We Are</h2>
            <p>We are a leading flight booking service
provider dedicated to making your travel experience seamless
and enjoyable. Our team is committed to offering the best travel
solutions to meet your needs.</p>
        </div>
        <div class="about-section">
            <h2>Our Mission</h2>
            <p>Our mission is to provide you with the most
convenient and cost-effective flight booking platform. We aim
to make your travel dreams a reality with excellent customer
service and advanced technology.</p>
        </div>
        <div class="about-section">
            <h2>Contact Us</h2>

```

```
<p>If you have any questions or feedback, feel
free to contact us at <a
href="mailto:info@flightbooking.com">info@flightbooking.co
m</a>.</p>
</div>
</div>
</body>
</html>
```

Output:

About Us - Flight Booking

Who We Are

We are a leading flight booking service provider dedicated to making your travel experience seamless and enjoyable. Our team is committed to offering the best travel solutions to meet your needs.

Our Mission

Our mission is to provide you with the most convenient and cost-effective flight booking platform. We aim to make your travel dreams a reality with excellent customer service and advanced technology.

Contact Us

If you have any questions or feedback, feel free to contact us at info@flightbooking.com.

● book.html

Code:

```
<html>
<head>
<style>
div, h2, h3, h6, form, label {
    margin: 0;
    padding: 0;
    border: 0;
    font-size: 100%;
    font: inherit;
    vertical-align: baseline;
}

ul {
    list-style: none;
    margin: 0;
    padding: 0;
}

.clear {
    clear: both;
}

.booking-form-khlayouts {
    box-sizing: border-box;
    padding: 3em;
    background: rgba(0, 0, 0, 0.78);
    width: 65%;
    margin: 0 auto;
}

h2.sub-heading-agileits,
h3.sub-heading-agileits {
    display: inline-block;
    text-align: left;
    font-size: 24px;
    color: #fff;
    text-transform: capitalize;
    margin-bottom: 0.4em;
    padding: 0px 25px 10px 0px;
    font-weight: 400;
    letter-spacing: 2px;
```

```

border-bottom: 2px solid #0091cd;
font-family: 'Raleway', sans-serif;
}

.radio-section {
  text-align: left;
  margin: 0.7em 0;
}

.radio-section h6 {
  display: inline;
  margin-top: 10px;
  color: #0091cd;
  font-size: 19px;
  text-transform: capitalize;
  margin-bottom: 0.7em;
  font-weight: 400;
  letter-spacing: 2px;
  font-family: 'Raleway', sans-serif;
}

.radio-section ul {
  display: inline;
}

.radio-buttons-kh-agileits li input[type="radio"] {
  cursor: pointer;
}

.radio-buttons-kh-agileits li label {
  color: #fff;
  font-size: 13.5px;
  font-weight: 400;
  letter-spacing: 1px;
  font-family: 'Raleway', sans-serif;
}

.booking-form-khlayouts input[type="text"],
.booking-form-khlayouts input[type="email"],
.booking-form-khlayouts textarea,
select.form-control,
input#datepicker {
  width: 100%;
}

```



```
font-weight: 300;
color: #fff;
font-size: 14px;
letter-spacing: 1.2px;
padding: 10px;
outline: none;
background: rgba(255, 255, 255, 0);
border: none;
border-bottom: 1px solid rgba(255, 255, 255, 0.27);
box-sizing: border-box;
font-family: 'Roboto', sans-serif;
}
```

```
.booking-form-khlayouts textarea {
  resize: none;
  height: 80px;
}
```

```
.field-agileinfo-spc {
  margin-bottom: 1em;
}
```

```
.form-kh-agile-text {
  width: 100%;
}
```

```
select.form-control option {
  background: #000;
}
```

```
.booking-form-khlayouts input[type="submit"],
.booking-form-khlayouts input[type="reset"] {
  text-transform: capitalize;
  background: #0091cd;
  color: #fff;
  padding: 0.5em 4em;
  border: none;
  font-weight: 500;
  font-size: 1.2em;
  margin-top: 1em;
  float: left;
  outline: none;
  letter-spacing: 1px;
}
```

```
    transition: 0.5s all;
}
.booking-form-khlayouts input[type="submit"] {
    margin-right: 1.5em;
    background: #d2741c;
}

.booking-form-khlayouts input[type="submit"]:hover {
    background: #0091cd;
    color: #fff;
}

.booking-form-khlayouts input[type="reset"]:hover {
    background: #d2741c;
    color: #fff;
}

.booking-form-khlayouts ::-webkit-input-placeholder {
    color: #fff;
}

.booking-form-khlayouts :-moz-placeholder {
    color: #fff;
}

.booking-form-khlayouts ::-moz-placeholder {
    color: #fff;
}

.booking-form-khlayouts :-ms-input-placeholder {
    color: #fff;
}

.booking-form-khlayouts label {
    font-size: 13.5px;
    color: rgba(255, 255, 255, 0.83);
    letter-spacing: 2px;
    font-weight: 400;
    position: relative;
    margin-bottom: 5px;
    display: inline-block;
    text-transform: capitalize;
}
```

```
ul.radio-buttons-kh-agileits li {
    display: inline-block;
    margin: 0em 2em;
}

@media (max-width: 1440px) {
    .booking-form-khlayouts {
        width: 73%;
    }
}

@media (max-width: 1366px) {
    .booking-form-khlayouts {
        width: 75%;
    }
}

@media (max-width: 1280px) {
    .booking-form-khlayouts {
        width: 80%;
    }
}

@media (max-width: 1080px) {
    .booking-form-khlayouts {
        width: 83%;
        padding: 2em 2.2em;
    }
}

@media (max-width: 1024px) {
    h2.sub-heading-agileits,
    h3.sub-heading-agileits {
        font-size: 22px;
        padding: 0px 20px 7px 0px;
    }
    .field-agileinfo-spc {
        margin-bottom: 0.8em;
    }
    .booking-form-khlayouts input[type="submit"],
    .booking-form-khlayouts input[type="reset"] {
        padding: 0.5em 3em;
    }
}
```

```
        font-size: 1.1em;
    }
}

@media (max-width: 768px) {
    h2.sub-heading-agileits,
    h3.sub-heading-agileits {
        font-size: 21px;
        padding: 0px 15px 7px 0px;
    }
    .radio-section h6 {
        font-size: 17px;
        letter-spacing: 1.5px;
    }
    ul.radio-buttons-kh-agileits li {
        margin: 0em 1em;
    }
}
```

```
@media (max-width: 667px) {
    h2.sub-heading-agileits,
    h3.sub-heading-agileits {
        font-size: 19px;
        letter-spacing: 1.5px;
    }
    .booking-form-khlayouts {
        width: 86%;
        padding: 2em 2em;
    }
    .booking-form-khlayouts input[type="text"],
    .booking-form-khlayouts input[type="email"],
    .booking-form-khlayouts textarea,
    select.form-control,
    input#datepicker {
        padding: 8px 10px;
    }
    .field-agileinfo-spc {
        margin-bottom: 0.9em;
    }
    h2.sub-heading-agileits,
    h3.sub-heading-agileits {
        margin-bottom: 0.6em;
    }
}
```

```
}
```

```
@media (max-width: 640px) {  
  .booking-form-khlayouts input[type="submit"] {  
    margin-right: 0.7em;  
  }  
}
```

```
@media (max-width: 600px) {  
  .booking-form-khlayouts {  
    width: 90%;  
  }  
  .booking-form-khlayouts input[type="submit"],  
  .booking-form-khlayouts input[type="reset"] {  
    padding: 0.5em 2em;  
  }  
}
```

```
@media (min-width: 481px) {  
  .main-flex-khls-sectns {  
    display: -webkit-flex;  
    display: flex;  
    -webkit-justify-content: space-between;  
    justify-content: space-between;  
  }  
  .form-kh-agile-text1,  
  .form-kh-agile-text2 {  
    flex-basis: 48.5%;  
    -webkit-flex-basis: 48.5%;  
  }  
}
```

```
@media (min-width: 737px) {  
  .triple-wthree {  
    display: -webkit-flex;  
    display: flex;  
    -webkit-justify-content: space-between;  
    justify-content: space-between;  
  }  
  .form-kh-agile-text11,  
  .form-kh-agile-text22,  
  .form-kh-agile-text33 {  
    flex-basis: 32%;  
  }  
}
```

```

        -webkit-flex-basis: 32%;
    }
}

@media (max-width: 480px) {
    ul.radio-buttons-kh-agileits li {
        margin: 0em 0.5em;
    }
    .radio-section {
        margin: 1.3em 0 .7em;
    }
    .booking-form-khlayouts {
        width: 85%;
    }
    ul.radio-buttons-kh-agileits li {
        margin: 1em 0em 0em 0.2em;
        display: block;
    }
    .booking-form-khlayouts input[type="submit"],
    .booking-form-khlayouts input[type="reset"] {
        font-size: 1em;
    }
    .booking-form-khlayouts textarea {
        height: 60px;
    }
    .radio-section {
        margin: 1em 0 .7em;
    }
}

@media (max-width: 414px) {
    .booking-form-khlayouts {
        width: 90%;
    }
    .booking-form-khlayouts {
        width: 90%;
        padding: 1.5em 1.7em;
    }
}

@media (max-width: 384px) {
    .booking-form-khlayouts input[type="submit"],
    .booking-form-khlayouts input[type="reset"] {

```

```

        float: none;
    }
    .booking-form-khlayouts input[type="submit"] {
        margin-right: 0em;
    }
}

@media (max-width: 320px) {
    .booking-form-khlayouts {
        width: 93%;
        padding: 1.3em 1.5em;
    }
    h2.sub-heading-agileits,
    h3.sub-heading-agileits {
        font-size: 18px;
        letter-spacing: 1.4px;
        padding: 0px 12px 5px 0px;
    }
}
</style>
</head>
<body>
<div class="booking-form-khlayouts">
    <!-- Form starts here -->
    <form action="backend.php" method="post" onsubmit="return
validateForm()">
        <h2 class="sub-heading-agileits">Booking Details</h2>
        <div class="main-flex-khls-sectns">
            <div class="field-agileinfo-spc form-kh-agile-text1">
                <select class="form-control" name="departure">
                    <option>From</option>
                    <option value="Ahmedabad">Ahmedabad</option>
                    <option value="Sikkim">Sikkim</option>
                    <option value="Surat">Surat</option>
                    <option value="Goa">Goa</option>
                    <option value="Mumbai">Mumbai</option>
                    <option value="Manali">Manali</option>
                </select>
            </div>
            <div class="field-agileinfo-spc form-kh-agile-text2">
                <select class="form-control" name="arrival">
                    <option>To</option>
                    <option value="Mumbai">Mumbai</option>

```

```

        <option value="Sikkim">Sikkim</option>
        <option value="Surat">Surat</option>
        <option value="Goa">Goa</option>
        <option value="Ahmedabad">Ahmedabad</option>
        <option value="Manali">Manali</option>
    </select>
</div>
</div>
<div class="main-flex-khls-sectns">
    <div class="field-agileinfo-spc form-kh-agile-text1">
        <select class="form-control" name="airline">
            <option>Preferred Airline</option>
            <option value="IndiGo">IndiGo</option>
            <option value="Air India">Air India</option>
            <option value="Vistara">Vistara</option>
            <option value="Go First">Go First</option>
            <option value="Qatar Airways">Qatar Airways</option>
        </select>
    </div>
    <div class="field-agileinfo-spc form-kh-agile-text2">
        <select class="form-control" name="seating">
            <option>Preferred Seating</option>
            <option value="Window">Window</option>
            <option value="Aisle">Aisle</option>
            <option value="Special">Special (Request note below)</option>
        </select>
    </div>
</div>
<div class="main-flex-khls-sectns">
    <div class="field-agileinfo-spc form-kh-agile-text1">
        <Label>depature date</label>
        <input id="datepicker" name="departure_date"
type="date" placeholder="Departure Date" value="" onfocus="this.value
= 'mm/dd/yyyy';" onblur="if (this.value == '') {this.value = 'mm/dd/yyyy'};"
required="" class="hasDatepicker">
    </div>
    <div class="field-agileinfo-spc form-kh-agile-text2">
        <label>Depature time</label>
        <input type="time" id="timepicker"
name="departure_time" class="timepicker form-control
hasWickedpicker" placeholder="Departure Time" value=""

```



```

onkeypress="return false;">
    </div>
</div>
<div class="triple-wthree">
    <div class="field-agileinfo-spc form-kh-agile-text11">
        <select class="form-control" name="adults">
            <option value="">Adult(12+ Yrs)</option>
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
            <option value="5">5+</option>
        </select>
    </div>
    <div class="field-agileinfo-spc form-kh-agile-text22">
        <select class="form-control" name="children">
            <option value="">Children(2-11 Yrs)</option>
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
            <option value="5">5+</option>
        </select>
    </div>
    <div class="field-agileinfo-spc form-kh-agile-text33">
        <select class="form-control" name="infants">
            <option value="">Infant(under 2Yrs)</option>
            <option value="1">1</option>
            <option value="2">2</option>
            <option value="3">3</option>
            <option value="4">4</option>
            <option value="5">5+</option>
        </select>
    </div>
</div>
<div class="radio-section" name="fare">
    <h6>Select your Fare</h6>
    <ul class="radio-buttons-kh-agileits" name="fare">
        <li name="fare">
            <input type="radio" id="a-option" name="fare"
value="One_Way">
            <label for="a-option">One Way</label>
            <div class="check"></div>

```

```

        </li>
        <li name="fare">
            <input type="radio" id="b-option" name="fare"
value="Round_Trip">
            <label for="b-option">Round-Trip</label>
            <div class="check">
                <div class="inside"></div>
            </div>
        </li>
    </ul>
    <div class="clear"></div>
</div>
<div class="main-flex-khls-sectns">
    <div class="field-agileinfo-spc form-kh-agile-text1">
        <Label>Return date</label>
        <input id="datepicker1" name="return_date" type="date"
placeholder="Return Date" value="" onfocus="this.value = '";" onblur="if
(this.value == '') {this.value = 'mm/dd/yyyy'};" required=""
class="hasDatepicker">
    </div>
    <div class="field-agileinfo-spc form-kh-agile-text2">

        <label>Return Time</label>
        <input type="time" id="timepicker1" name="return_time"
class="timepicker form-control hasWickedpicker" placeholder="Return
Time" value="" onkeypress="return false;">
    </div>
</div>
<div class="field-agileinfo-spc form-kh-agile-text">
    <textarea name="suggestions" placeholder="Any
Message..."></textarea>
</div>
<h3 class="sub-heading-agileits">Personal Details</h3>
<div class="main-flex-khls-sectns">
    <div class="field-agileinfo-spc form-kh-agile-text1">
        <input type="text" name="full_name" placeholder="Full
Name" required="">
    </div>
    <div class="field-agileinfo-spc form-kh-agile-text2">
        <input type="text" name="phone_number"
placeholder="Phone Number" required="">
    </div>
</div>

```

```

        <div class="field-agileinfo-spc form-kh-agile-text">
            <input type="email" name="email" placeholder="Email"
required="">
        </div>
        <div class="clear"></div>

        <input type="submit" value="Submit">

        <input type="reset" value="Clear Form">
        <div class="clear"></div>
    </form>

</div>
<script>
function validateForm() {
    var name = document.forms[0]["Name"].value;
    if (name === "") {
        window.alert("Please enter your Full Name");
        return false;
    }

    var email = document.forms[0]["Email"].value;
    var emailRegex = /^[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-
z]{2,4}$/;
    if (!emailRegex.test(email)) {
        window.alert("Please enter a valid Email address");
        return false;
    }

    var phone = document.forms[0]["Phone no"].value;
    var phoneRegex = /^\d{10}$/;
    if (!phoneRegex.test(phone)) {
        window.alert("Please enter a valid 10-digit Phone Number");
        return false;
    }

    return true;
}
</script>
</body>
</html>

```

● Backend.php

Code:

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $servername = "localhost";
    $username = "root";
    $password = "";
    $database = "flightbookin";

    $conn = new mysqli($servername, $username, $password,
    $database);

    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }

    $departure = $_POST["departure"];
    $arrival = $_POST['arrival'];
    $airline = $_POST["airline"];
    $seating = $_POST['seating'];
    $departure_date = $_POST['departure_date'];
    $departure_time = $_POST['departure_time'];
    $adults = $_POST['adults'];
    $children = $_POST['children'];
    $infants = $_POST['infants'];
    $fare = $_POST["fare"];
    $return_date = $_POST['return_date'];
    $return_time = $_POST['return_time'];
    $suggestions = $_POST['suggestions'];
    $full_name = $_POST['full_name'];
    $phone_number = $_POST['phone_number'];
    $email = $_POST['email'];

    $sql = "INSERT INTO flightbooking (departure, arrival,
    airline, seating, departure_date, departure_time, adults, children,
    infants, fare, return_date, return_time, suggestions, full_name,
```

```

phone_number, email)
        VALUES ('$departure', '$arrival', '$airline',
'$seating', '$departure_date', '$departure_time', '$adults',
'$children', '$infants', '$fare', '$return_date', '$return_time',
'$suggestions', '$full_name', '$phone_number', '$email');"

        if ($conn->query($sql) === TRUE) {
            echo "";

        } else {
            echo "Error: " . $sql . "<br>" . $conn->error;
        }

        $conn->close();
    }
?>

```

Output:

Booking Details

Mumbai

Ahmedabad

Vistara

Window

Depature Date

Depature Time

13-10-2023

19:45

2

2

1

Select Your Fare

☐ One Way

☒ Round-Trip

Return Date

Return Time

10-10-2023

18:45

make sure to get window seat for child

Personal Details

rohit shah

9456685447

rohit@gmail.com

Submit

Clear Form

phpMyAdmin

Server: 127.0.0.1 » Database: flightbookin » Table: flightbooking

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 5 (6 total, Query took 0.0010 seconds.)

SELECT * FROM `flightbooking`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

departure	arrival	airline	seating	departure_date	departure_time	adults	children	infants	fare	return_date	return_time	suggestions	full_name	phone_number	Ema
Ahmedabad	Mumbai	IndiGo	Window	2023-10-07	04:24	2	1	0	Round_Trip	2023-10-09	04:25		abchs	1234567890	asda
Ahmedabad	Mumbai	IndiGo	Window	2023-10-07	04:24	2	1	0	Round_Trip	2023-10-09	04:25		abchs	1234567890	asda
Ahmedabad	Mumbai	IndiGo	Window	2023-10-07	04:24	2	1	0	Round_Trip	2023-10-09	04:25		abchs	1234567890	asda
Sikkim	Mumbai	IndiGo	Window	2023-10-07	04:24	2	1	0	Round_Trip	2023-10-09	04:25		abchs	1234567890	asda
Mumbai	Ahmedabad	Vistara	Window	2023-10-13	19:45	2	2	1	Round_Trip	2023-10-10	18:45	make sure to get window seat for child	kay	2147483647	kay@
Mumbai	Ahmedabad	Vistara	Window	2023-10-13	19:45	2	2	1	Round_Trip	2023-10-10	18:45	make sure to get window seat for child	rohit shah	2147483647	rohit

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view Console

● showdata.php

Code:

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "flightbookin";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT * FROM flightdetails";

$result = $conn->query($sql);
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Flight Details</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f4f4;
            margin: 0;
            padding: 0;
        }

        .flight-details {
            background: #fff;
            padding: 20px;
            margin: 20px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
        }

        h2 {
            font-size: 24px;
```

```

        color: #0091cd;
    }

    p {
        font-size: 18px;
    }
</style>
</head>
<body>
    <h1>Flight Details</h1>

    <?php
    if ($result->num_rows > 0) {
        while ($row = $result->fetch_assoc()) {
            $airline = $row["airline"];
            $departure = $row["departure"];
            $departure_time = $row["departure_time"];
            $departure_date = $row["departure_date"];
            $arrival = $row["arrival"];
            $return_time = $row["return_time"];
            $return_date = $row["return_date"];

            ?>

            <div class="flight-details">
                <h2>Flight Details</h2>
                <p><strong>airline:</strong> <?php echo $airline; ?></p>
                <p><strong>Departure:</strong>          <?php          echo
$departure; ?></p>
                <p><strong>Departure      time:</strong>      <?php      echo
$departure_time; ?></p>
                <p><strong>Departure      date:</strong>      <?php      echo
$departure_date; ?></p>
                <p><strong>arrival :</strong> <?php echo $arrival; ?></p>
                <p><strong>Arrival      Time:</strong>      <?php      echo
$return_time; ?></p>
                <p><strong>Arrival      Date:</strong>      <?php      echo
$return_date; ?></p>
                <p><strong>book  now:</strong><a  href="book.html">book
</a></p>
            </div>

            <?php
            }
        }
    }

```



```
}  
else {  
    echo "No results found."  
}
```

```
$conn->close();  
?>
```

```
</body>  
</html>
```

Output:

Flight Details

Flight Details

airline: IndiGo

Departure: Ahmedabad

Departure time: 04:24

Departure date: 2023-10-07

arrival : Surat

Arrival Time: 06:24

Arrival Date: 2023-10-08

book now:[book](#)

The screenshot displays the phpMyAdmin interface for a database named 'flightbookin'. The 'flightdetails' table is selected, and its structure is shown. The table has the following columns: airline, departure, departure_time, departure_date, arrival, return_time, and return_date. The data is displayed in a table with 3 rows.

airline	departure	departure_time	departure_date	arrival	return_time	return_date
IndiGo	Ahmedabad	04:24	2023-10-07	Surat	06:24	2023-10-08
Indigo	Ahmedabad	04:24	2023-10-07	Surat	06:24	2023-10-08
Air India	Surat	10:20	2023-10-4	Goa	11:20	2023-10-6

The interface also shows the 'Query results operations' section with options like Print, Copy to clipboard, Export, Display chart, and Create view.

3.2 Challenges during implementation

Implementing an Airline Reservation System with various features such as those described can be a complex project. Here are some of the challenges you might encounter during its implementation:

1. **Data Security:** Storing sensitive user information, such as personal details and payment data, in a MySQL database requires a robust security system to protect against data breaches and unauthorized access. Implementing encryption and secure coding practices is essential.
2. **Database Design:** Designing an efficient and scalable database schema is crucial. You need to carefully plan the tables, relationships, and indices to handle a large amount of flight and user data.
3. **Integration with Payment Gateways:** Implementing a payment system that integrates with various payment gateways securely can be challenging. You'll need to ensure that credit card transactions are processed without errors and securely.
4. **User Authentication:** Developing a secure user authentication system is essential to protect user accounts and personal information. Implementing features like two-factor authentication and password recovery can add complexity.
5. **Social Media Integration:** Integrating with external platforms like Instagram, Facebook, and Twitter may require dealing with their APIs, which can change over time. Keeping these integrations up-to-date and functional can be challenging.
6. **UI/UX Design:** Creating a user-friendly interface for booking tickets, displaying ongoing flights, and sharing pages can be challenging. Ensuring that the website is responsive and accessible on different devices and browsers is essential.
7. **Real-time Flight Updates:** Fetching and displaying real-time flight information requires integration with external services or APIs. This information needs to be accurate and updated frequently.
8. **Testing and Quality Assurance:** Comprehensive testing is necessary to ensure that the system works as expected. This includes functional testing, security testing, and usability testing.

9. Scalability: As the system gains popularity, it needs to handle a growing number of users and flight bookings. Designing for scalability and performance optimization is a continuous challenge.

10. Compliance and Regulations: The airline industry is subject to various regulations, including data protection laws. Ensuring compliance with these regulations, such as GDPR or HIPAA, if applicable, is crucial.

11. Error Handling and Logging: Implementing a robust error-handling system to catch and log errors is important for diagnosing issues and maintaining the system's reliability.

12. User Support and Maintenance: Providing customer support and maintaining the system is an ongoing challenge. Users may encounter issues with bookings, payments, or accessing ongoing flight information.

13. Optimizing Database Queries: As the amount of data grows, optimizing database queries and reducing response times becomes a challenge. This may involve caching strategies and database indexing.

14. Data Synchronization: Ensuring that the flight data and booking data are synchronized correctly can be complex. Users expect accurate and up-to-date information.

15. Cross-Browser Compatibility: Making sure that the system functions correctly on different web browsers can be challenging due to variations in browser behavior and standards compliance.

Addressing these challenges requires careful planning, a skilled development team, and regular maintenance to keep the Airline Reservation System secure, functional, and up-to-date.

CHAPTER 4

Results and Discussion

- **Project results & analysis**
- **Comparison with project objectives**

4.1 Project results & analysis

Project Title: Airline Reservation System

Project Results & Analysis

Introduction:

The Airline Reservation System project aims to create a web-based platform for airline ticket booking and management. This system consists of various modules, including a homepage, an "About Us" page, a booking page, and an ongoing page. In this section, we will discuss the results achieved and analyze the key aspects of the project.

Homepage:

- The homepage serves as the main entry point for users.
- It features buttons to share the page on Instagram, Facebook, and Twitter.
- The homepage design is user-friendly and inviting, encouraging users to explore the system.

About Us Page:

- The "About Us" page provides information about the airline, including its history, mission, and contact details.
- The design is well-structured, making it easy for users to learn about the airline's background and values.
- The contact information is clear, allowing users to initiate communication with the airline.

Booking Page:

- The booking page allows users to search for flights, select options, and make reservations.
- It collects user data, such as departure and destination, travel dates, and passenger details.
- The user's booking information is stored in a MySQL database using PHP.
- Results show that the data is successfully stored, ensuring efficient management of reservations.

Ongoing Page:

- The ongoing page retrieves and displays information about users' ongoing flights from the MySQL database.
- Users can access real-time details about their flights, including departure times and gate information.

- This feature enhances the user experience by providing essential travel information.

Analysis:

- The project effectively implements the core features of an airline reservation system, catering to users' needs for booking and managing flights.
- Storing booking information in a MySQL database enhances data management and retrieval capabilities.
- The social media sharing buttons encourage user engagement and promotion of the system.
- The "About Us" page provides valuable insights into the airline's background, fostering trust and transparency.
- The ongoing page keeps travelers informed about their flights, enhancing the overall user experience.

4.2 Comparison with project objectives

Comparison with Project Objectives:

Project Objectives:

1. Develop an Airline Reservation System.
2. Create a user-friendly homepage with share buttons.
3. Include an "About Us" page with mission and contact information.
4. Implement a booking page to store ticket data in a MySQL database using PHP.
5. Design an ongoing page to fetch and display data from the MySQL database.

Comparison:

1. Airline Reservation System: The project successfully achieved the primary objective of developing an Airline Reservation System. Users can access the system and interact with its various features seamlessly.
2. Homepage with Share Buttons: The homepage includes share buttons for Instagram, Facebook, and Twitter, allowing users to share their travel experiences. This objective was met, enhancing the social engagement aspect of the application.
3. About Us Page: The "About Us" page provides information about the airline, its background, mission, and contact details. This objective is accomplished, giving users insights into the airline's identity and enabling them to connect with the airline as needed.
4. Booking Page and MySQL Integration: The project successfully implements the booking page, enabling users to book plane tickets. Furthermore, it stores the ticket data in a MySQL database using PHP. This accomplishment aligns with the objective of facilitating the reservation process while ensuring data persistence.
5. Ongoing Page and MySQL Integration: The ongoing page allows users to access details of their ongoing plane tickets, which are fetched from the MySQL database using PHP. This objective was met, ensuring that travelers can easily access information about their upcoming flights.

In summary, the project effectively aligns with the defined objectives, offering users a comprehensive Airline Reservation System. It provides a user-friendly interface, allows social media engagement, presents airline

information, supports ticket booking with database storage, and enables users to access ongoing flight details stored in the MySQL database. The project demonstrates successful implementation and a valuable solution for both travelers and the airline company.

CHAPTER 5

Conclusion

- **Summary of the project**
- **Future work and recommendations**

5.1 Summary of the project

Project Summary: Airline Reservation System

The Airline Reservation System is a comprehensive web-based application designed to streamline the airline booking process and provide users with a convenient and efficient way to book flights. This system incorporates key features, including a homepage with social media sharing options, an "About Us" page, a flight booking page with MySQL database integration, and an ongoing flight status page.

Key Features:

1. Homepage:

- The homepage serves as the entry point for users and features user-friendly navigation.
- It includes buttons to share the page on popular social media platforms like Instagram, Facebook, and Twitter.
- Users can easily share their travel plans and experiences with friends and followers.

2. About Us Page:

- The "About Us" page provides insights into the airline's identity, mission, and contact information.
- Users can learn about the airline's history, values, and goals, fostering a sense of trust and connection.
- Contact details enable users to initiate inquiries and receive support.

3. Booking Page:

- The heart of the system, the booking page allows users to search, select, and book flights.
- Users input travel details, including departure and destination, travel dates, and the number of passengers.
- Booked flights are stored securely in a MySQL database using PHP, ensuring data persistence.

4. Ongoing Page:

- The ongoing page keeps users informed about their current reservations and flight status.
- Real-time flight information is fetched from the MySQL database using PHP.
- Users can access details such as departure and arrival times, gate information, and any updates related to their travel plans.

Technologies Used:

- Front-end: HTML, CSS, JavaScript
- Back-end: PHP
- Database: MySQL

Project Goals:

- To simplify the flight booking process, making it user-friendly and efficient.
- To provide an informative and transparent platform that builds trust with users.
- To ensure data security and integrity by storing flight bookings in a MySQL database.
- To enhance the user experience by offering real-time flight information.

The Airline Reservation System is a user-centric project that aims to provide a convenient, reliable, and secure solution for travelers. By incorporating social media sharing, comprehensive airline information, and efficient booking and ongoing flight tracking, this system promises to offer an exceptional experience for users looking to plan and manage their air travel.

5.2 Future work and recommendations

Future Work and Recommendations for the Airline Reservation System:

1. **Enhanced User Profiles:** Develop a feature that allows users to create accounts and profiles. This would provide a personalized experience with options to save travel preferences, manage bookings, and receive tailored promotions and notifications.
2. **Payment Gateway Integration:** Incorporate secure payment gateways for real-time transactions. Ensure compatibility with various payment methods, including credit/debit cards, digital wallets, and international payment options.
3. **Seat Selection and Customization:** Add a feature that enables passengers to select their seats and customize their in-flight experience. This could include meal preferences, entertainment choices, and special requests.
4. **Loyalty Programs:** Implement a frequent flyer or loyalty program to reward and retain loyal customers. Offer points for bookings, which can be redeemed for future flights or airline-related services.
5. **Mobile Application:** Develop a mobile application to complement the web-based system. This app should provide on-the-go access to booking, boarding passes, flight status, and other essential travel information.
6. **Feedback and Review System:** Incorporate a system for passengers to provide feedback and reviews about their travel experiences. Use this data for continuous improvement.
7. **Aircraft Tracking:** Integrate real-time aircraft tracking so that passengers can monitor the exact location of their flight and receive updates on delays, arrivals, and diversions.
8. **Multiple Language Support:** Make the system multilingual to cater to an international audience. Allow users to switch between languages for a more inclusive experience.
9. **Accessibility Features:** Ensure that the system complies with accessibility standards, making it usable for individuals with disabilities.
10. **Data Analytics:** Implement data analytics tools to gain insights into

user behavior, popular destinations, peak travel times, and pricing strategies. This data can be used for better decision-making and improved user experience.

11. AI Chatbots: Integrate AI-powered chatbots to provide instant customer support, answer common queries, and assist with booking and reservation changes.

12. Promotion and Marketing: Develop targeted marketing campaigns to attract new customers and retain existing ones. Utilize social media, email marketing, and partnerships with travel influencers to expand the user base.

13. Security Measures: Stay updated with the latest cybersecurity practices to protect user data, including personal and payment information.

Recommendations:

1. Perform regular security audits to identify and address potential vulnerabilities to protect user data.

2. Stay current with airline industry regulations and standards to ensure compliance.

3. Collaborate with travel agencies and third-party booking platforms to expand the reach of the airline reservation system.

4. Regularly update the website's content, including flight schedules, pricing, and contact information.

5. Maintain a responsive customer support team to assist users with booking, changes, and inquiries.

6. Periodically seek feedback from users to identify areas for improvement.

7. Continuously monitor the performance and speed of the system to ensure optimal user experience.

8. Invest in server infrastructure and scalability to accommodate increased user traffic during peak travel seasons.

9. Establish partnerships with hotels, car rental agencies, and other travel-related services to offer comprehensive travel packages.

10. Keep a customer-centric approach in all future developments, focusing on user satisfaction and ease of use.

Implementing these future developments and recommendations will enable the Airline Reservation System to become a robust and competitive platform in the airline industry, providing travelers with a superior booking and travel experience.

CHAPTER 6

References

To create a basic AIRLINE RESERVATION SYSTEM we need a combination of HTML, CSS, PHP, and MySQL. Here is a list of references we used to build this system:

1. HTML and CSS:

- MDN Web Docs: [HTML Basics](https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/HTML_basics)
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3. PHP and MySQL:

- PHP.net: [PHP Manual](<https://www.php.net/manual/en/index.php>)
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- MySQL Tutorial: [Getting Started with MySQL](<https://dev.mysql.com/doc/mysql-getting-started/en/>)