

MAHATMA EDUCATION SOCIETY'S
PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE
(Autonomous)
NEW PANVEL

PROJECT REPORT ON
“Travel Management System”

IN PARTIAL FULFILLMENT OF

BACHELOR OF SCIENCE
INFORMATION TECHNOLOGY

SEMESTER V – 2024-25

PROJECT GUIDE
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ROLL NO : 9494

Mahatma Education Society's
**PILLAI COLLEGE OF ARTS, COMMERCE & SCIENCE (Autonomous),
New Panvel**

Re-accredited “A” Grade by NAAC (3rd Cycle)



Project Completion Certificate
THIS IS TO CERTIFY THAT

Master Vinish Ananta Mhatre

of **TYIT** has completed the project titled

“Travel Management System”

Under our guidance and supervision during the academic year
2024-25 in the department of Information Technology

[Signature] *[Signature]* *[Signature]*

Head Of Department Project Guide

Course Coordinator



Travel Management System

• Introduction

The Travel Management System is a comprehensive web application designed to simplify and enhance the travel planning experience for users. With the rise of digital solutions in the travel industry, our project aims to create a seamless platform where users can explore travel options, book their trips, and provide feedback on their experiences.

Core Components:

1. **Home Page:** The central hub of the application, offering an overview of the available travel packages and key features. Users can easily navigate to other sections from here, ensuring a smooth user experience.
2. **Booking Page:** This feature allows users to browse and select from a variety of travel packages tailored to different interests and budgets. The booking process is designed to be user-friendly, enabling quick and hassle-free reservations.
3. **Feedback Page:** Understanding the importance of user input, the feedback page allows customers to share their experiences and suggestions. This feedback loop is crucial for improving services and addressing user needs effectively.
4. **Login Page:** A secure login mechanism enables users to create accounts, ensuring personalized experiences and easy access to their bookings and itineraries. This feature enhances user trust and data security.

Database Integration: The Travel Management System is supported by a robust database designed to store and manage all essential data, including:

- **User Information:** The database securely stores user credentials, profiles, and preferences, facilitating personalized experiences.
- **Travel Packages:** All available travel packages, including details such as destinations, prices, and itineraries, are stored to allow for easy retrieval and display on the booking page.
- **Feedback Records:** User feedback is collected and stored in the database, allowing for analysis and improvements in service offerings.
- **Booking Data:** All booking transactions, including user selections and payment details, are stored to ensure smooth management of reservations and itineraries.

By integrating these core components with a reliable database, the Travel Management System provides a cohesive and efficient platform for users to manage their travel needs. The project emphasizes user experience, utilizing modern web technologies to deliver an attractive and responsive design. Ultimately, this system aims to empower users in their travel journeys, making planning and booking both simple and enjoyable.

Tools and Techniques Used

1. Frontend Development:

- HTML5: Used for structuring the web pages like Home, Booking, Feedback, Registration, and Login.
- CSS: Applied for styling the pages, ensuring responsive design and a visually appealing user interface with custom backgrounds, font styles, and layout structures.
- JavaScript: Implemented for client-side interactivity, such as form validations and dynamic updates on the Booking page (e.g., selecting travel packages and redirecting users).

2. Backend Development:

- JavaServer Pages (JSP): Used to dynamically generate content for the web pages, especially for user interaction forms like Feedback, Registration, and Login.
- Servlets: Serve as the control mechanism between the front-end and the database, managing the logic behind user requests (e.g., form submission and data processing).
- Java: Core language for the back-end logic in managing bookings, feedback submissions, and user authentication.

3. Database:

- MySQL/Apache Derby : Relational databases used for storing user details, booking information, and feedback data. SQL queries are used to interact with the database, including data insertion, retrieval, and updates.

4. JDBC (Java Database Connectivity):

- Used to connect the Java application to the database for executing SQL queries, inserting records, and fetching necessary data for user interfaces (e.g., registration and login systems).

5. Development Environment :

- NetBeans: The Integrated Development Environment (IDE) used for writing Java, JSP, and HTML code, providing features like debugging, code completion, and project management.

6. Security Techniques:

- Session Management: Implemented to ensure secure access for logged-in users across different pages.

- Input Validation: Applied to form fields to prevent SQL injection and other security vulnerabilities.

● **Home Page :**

```
<!DOCTYPE html>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Travel Management System - Home</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f0f0f0;
      color: #333;
    }
    header {
      background-color: #333;
      padding: 20px;
      text-align: center;
      color: white;
    }
    nav {
      margin: 20px;
      text-align: center;
    }
    nav a {
      margin: 0 15px;
      text-decoration: none;
      color: white;
      font-weight: bold;
    }
    nav a:hover {
      color: #007bff;
    }
    section {
      margin: 20px;
      padding: 20px;
      background-color: white;
      border-radius: 8px;
      box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
    }
  </style>
</head>
<body>
  <header>
    <h1>Travel Management System</h1>
  </header>
  <nav>
    <a href="#home">Home</a>
    <a href="#about">About</a>
    <a href="#services">Services</a>
    <a href="#contact">Contact</a>
  </nav>
  <section>
    <h2>Welcome to our Travel Management System</h2>
    <p>We provide the best travel services for you. Our team is dedicated to making your travel experience seamless and enjoyable. Whether you're looking for a vacation package or a business trip, we have you covered. Contact us today to learn more about our services and how we can assist you in planning your next journey.</p>
  </section>
</body>
</html>
```

```

        .itinerary {
            margin: 20px 0;
        }
        .itinerary h3 {
            color: #007bff;
        }
        footer {
            text-align: center;
            margin-top: 40px;
            padding: 20px;
            background-color: #333;
            color: white;
        }
    </style>
</head>
<body>
    <header>
        <h1>Welcome to the Travel Management System</h1>
        <nav>
            <a href="index.html">Home</a>
            <a href="booking.jsp">Booking</a>
            <a href="feedback.jsp">Feedback</a>
            <a href="login.jsp">Login</a>
        </nav>
    </header>
    <main>
        <section>
            <h2>Plan Your Perfect Trip</h2>
            <p>Explore flights, hotels, and car rentals all in one place.</p>
        </section>
        <section>
            <h2>Plan Your Next Adventure</h2>
            <p>At Travel Management System, we provide the best travel plans and packages tailored to your needs. Whether you're seeking a family vacation, a solo trip, or a romantic getaway, we have something for everyone!</p>
            <h3>Why Choose Us?</h3>
            <ul>
                <li>Customized travel packages</li>
                <li>24/7 customer support</li>
                <li>Exclusive offers and discounts</li>
                <li>Safe and reliable booking system</li>
                <li>Experienced travel guides and itinerary planning</li>
            </ul>

```

<h3>How It Works:</h3>

<p>Explore our wide range of travel packages in the booking section. Once you find your perfect trip, head to the login page to secure your spot.book your trip with ease with our travel agency and have a vacation full of memories.</p></section>

<footer>

<p>Contact Us: support@travelsystem.com | +123 456 7890</p>

<p>© 2024 Travel Management System</p>

</footer>

</main>

</body>

</html>

● Booking Page :

<%@ page contentType="text/html; charset=UTF-8" language="java" %>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Booking Page</title>

<style>

body {

background-color: #121212;

color: #fff;

font-family: 'Arial', sans-serif;

margin: 0;

padding: 0;

}

header {

background-color: #007bff;

color: white;

padding: 20px;

text-align: center;

}

.packages {

display: flex;

flex-wrap: wrap;

justify-content: center;

```

        margin: 20px;
    }
    .package {
        background-color: #1e1e1e;
        border: 1px solid #007bff;
        border-radius: 10px;
        margin: 10px;
        padding: 20px;
        width: 300px;
        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.3);
        text-align: center;
    }
    button {
        background-color: #00ff00;
        color: #000;
        padding: 10px;
        border: none;
        border-radius: 5px;
        cursor: pointer;
    }
    button:hover {
        background-color: #0056b3;
        color: white;
    }
}
</style>
</head>
<body>

<header>
    <h1>Travel Packages</h1>
</header>

<div class="packages">
    <div class="package">
        <h3>Bali Trip</h3>
        <p>Relax on the beautiful beaches of Bali.Rs. 1,00,000 (All inc.)</p>
        <button onclick="redirectToLogin('Beach Getaway')">Book Now</button>
    </div>
    <div class="package">
        <h3>Europe Trip</h3>
        <p>Explore the majestic mountains of Switzerland.Rs. 1,50,000 (All inc.)</p>
        <button onclick="redirectToLogin('Mountain Adventure')">Book Now</button>
    </div>
    <div class="package">

```



```

        <h3>USA Trip</h3>
        <p>Discover the vibrant streets of New York City. Rs. 1,10,000 (All inc.)</p>
        <button onclick="redirectToLogin('City Escape')">Book Now</button> </div>
        <div class="package">
            <h3>Italy Trip</h3>
            <p>Experience the rich history of Rome.Rs. 1,30,000 (All inc.)</p>
            <button onclick="redirectToLogin('Cultural Tour')">Book Now</button>
        </div>
        <div class="package">
            <h3>UAE Trip</h3>
            <p>Adventure in the sands of Dubai.Rs. 90,000 (All inc.)</p> <button
            onclick="redirectToLogin('Desert Safari')">Book Now</button> </div>
        <div class="package">
            <h3>Greece Trip</h3>
            <p>Explore the beautiful islands of Greece.Rs. 1,20,000 (All inc.)</p>
            <button onclick="redirectToLogin('Island Hopping')">Book Now</button>
        </div>
    </div>

    <script>
        function redirectToLogin(packageName) {
            // Store the package name in session storage
            sessionStorage.setItem("packageName", packageName);
            // Redirect to the login page
            window.location.href = "login.jsp";
        }
    </script>

</body>
</html>

```

● Feedback Page :

```

<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Feedback Page</title>
    <style>
        body {
            background-color: #121212;
            color: #fff;
            font-family: 'Arial', sans-serif;

```

```

        margin: 0;
        padding: 0;
    }
    header {
        background-color: #007bff;
        color: white;
        padding: 20px;
        text-align: center;
    }
    form {
        background-color: #1e1e1e;
        padding: 20px;
        width: 40%;
        margin: 40px auto;
        border-radius: 10px;
        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.3);
    }
    textarea {
        width: 100%;
        height: 100px;
        padding: 10px;
        margin: 10px 0;
        border: none;
        border-radius: 5px;
        resize: none;
    }
    input[type="submit"] {
        background-color: #00ff00;
        color: #000;
        cursor: pointer;
        padding: 10px;
        border: none;
        border-radius: 5px;
    }
</style>
</head>
<body>

<header>
    <h1>Feedback</h1>
</header>

<%

```

```

if ("POST".equalsIgnoreCase(request.getMethod())) {
    String feedback = request.getParameter("feedback");

    // Here you can process the feedback, e.g., save to the database
    // For now, we will just display a thank you message

    out.println("<h2>Thank you for your feedback!</h2>");
    return; // Stop further processing
}
%>

<form action="feedback.jsp" method="post">
    <label for="feedback">Your Feedback:</label>
    <textarea id="feedback" name="feedback" placeholder="Please enter your feedback
here..." required></textarea>

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

</body>
</html>

```

● Registration Page :

```

<%@ page contentType="text/html; charset=UTF-8" language="java" %>
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Customer Registration</title>
    <style>
        body {
            background-color: #121212;
            color: #fff;
            font-family: 'Arial', sans-serif;
            margin: 0;
            padding: 0;
        }
        header {
            background-color: #007bff;

```

```

        color: white;
        padding: 20px;
        text-align: center;
    }
    form {
        background-color: #1e1e1e;
        padding: 20px;
        width: 30%;
        margin: 40px auto;
        border-radius: 10px;
        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.3);
    }
    input {
        margin: 10px 0;
        padding: 10px;
        width: 100%;
        border: none;
        border-radius: 5px;
    }
    input[type="submit"] {
        background-color: #00ff00;
        color: #000;
        cursor: pointer;
    }
</style>
</head>
<body>

<header>
    <h1>Customer Registration</h1>
</header>

<%
    if ("POST".equalsIgnoreCase(request.getMethod())) {
        String username = request.getParameter("t1");
        String password = request.getParameter("t2");
        String email = request.getParameter("t3");
        String country = request.getParameter("t4");
        String dest = request.getParameter("t5");

        String dbURL = "jdbc:derby://localhost:1527/sample";
        String dbUser = "app";
        String dbPassword = "app";
    }
    %>

```

```

try {
    Class.forName("org.apache.derby.jdbc.ClientDriver");
    Connection connection = DriverManager.getConnection(dbURL, dbUser,
dbPassword);
    PreparedStatement ps = connection.prepareStatement("INSERT INTO Form
(username, password, email, country, dest) VALUES (?, ?, ?, ?, ?)"); ps.setString(1,
username);
    ps.setString(2, password);
    ps.setString(3, email);
    ps.setString(4, country);
    ps.setString(5, dest);

    int i = ps.executeUpdate();
    if (i > 0) {
        out.println("<h2>Data saved successfully!</h2>");
    } else {
        out.println("<h2>Data not saved.</h2>");
    }

    ps.close();
    connection.close();
} catch (Exception e) {
    out.println("<h2>Error: " + e.getMessage() + "</h2>");
}
}
%>

```

```

<form action="login.jsp" method="post">
    <label for="username">Username:</label>
    <input type="text" id="username" name="t1" placeholder="Enter your username"
required>

    <label for="password">Password:</label>
    <input type="password" id="password" name="t2" placeholder="Enter your
password" required>

    <label for="email">Email:</label>
    <input type="email" id="email" name="t3" placeholder="Enter your email" required>

    <label for="country">Country:</label>
    <input type="text" id="country" name="t4" placeholder="Enter your country" required>

    <label for="dest">Travel Destination:</label>

```

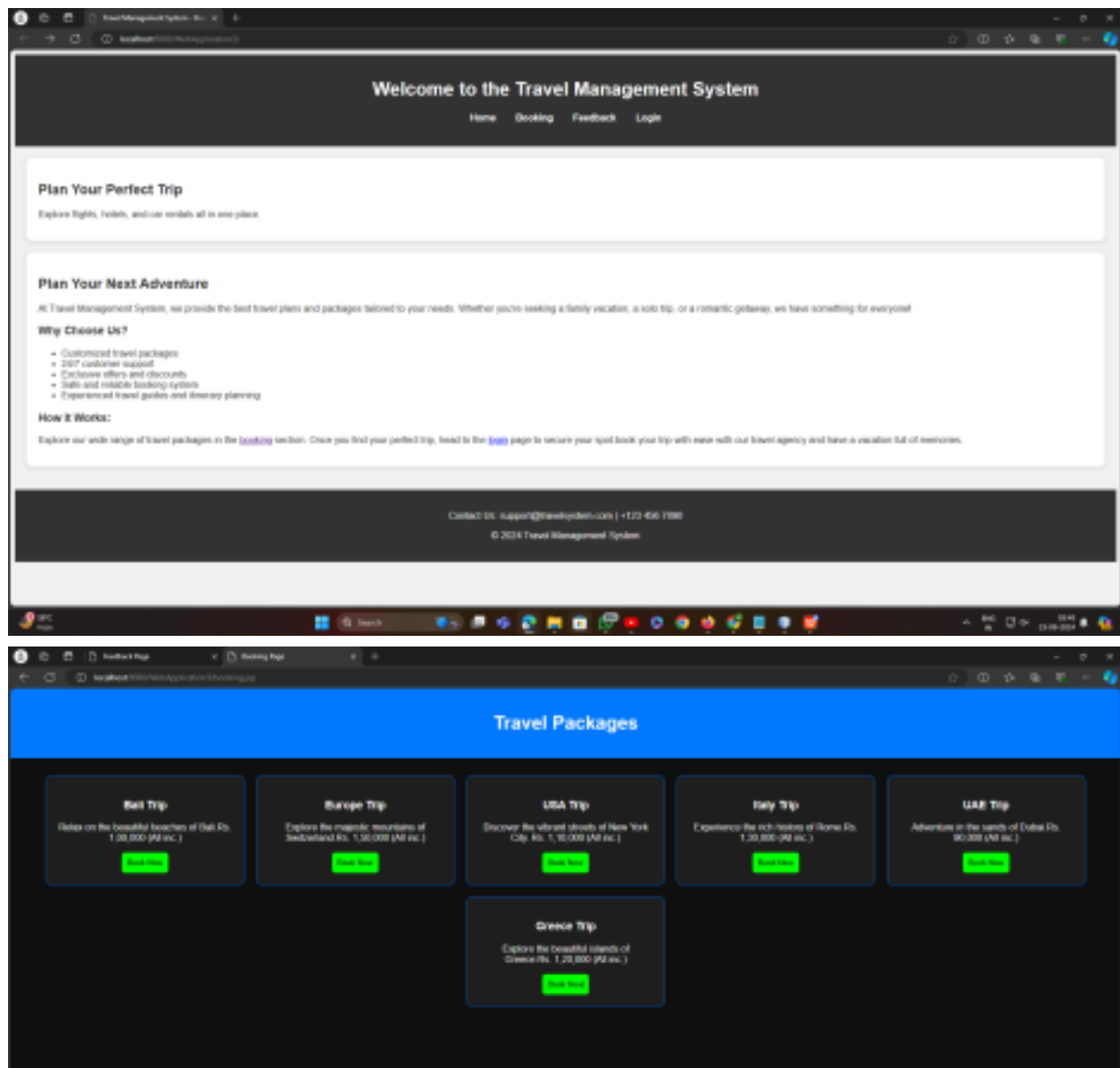
```
<input type="text" id="dest" name="t5" placeholder="Enter your destination"
required>
```

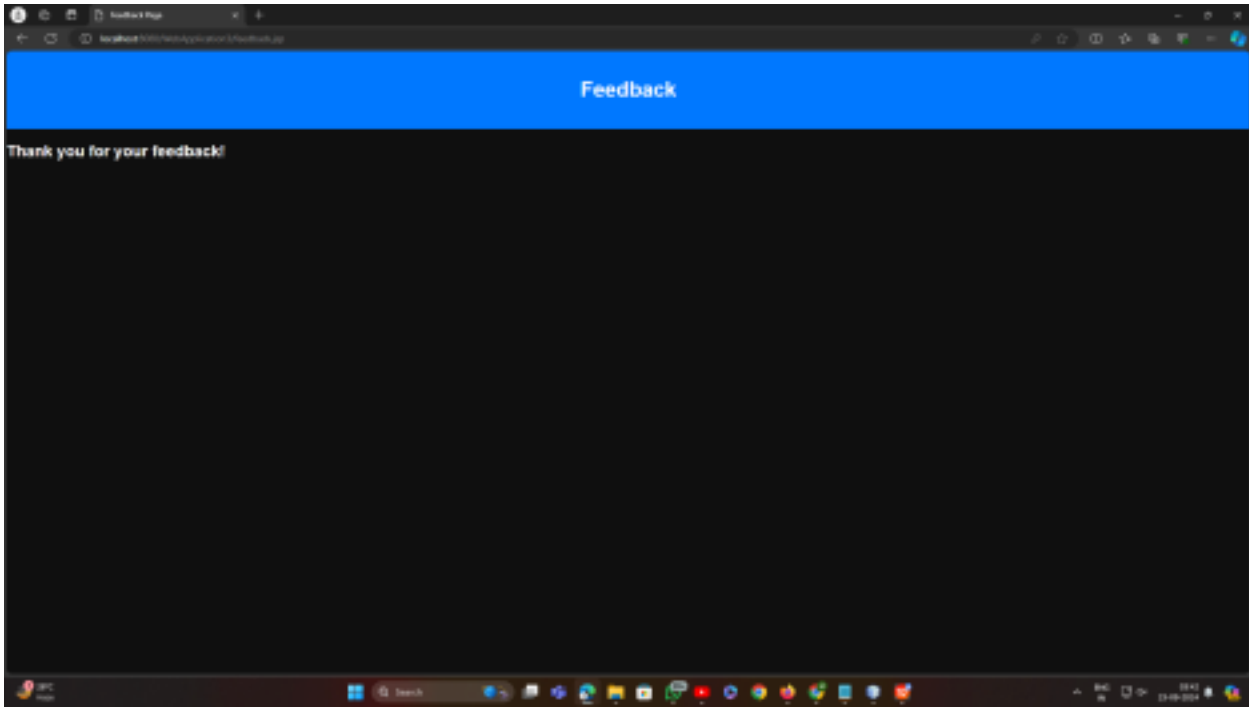
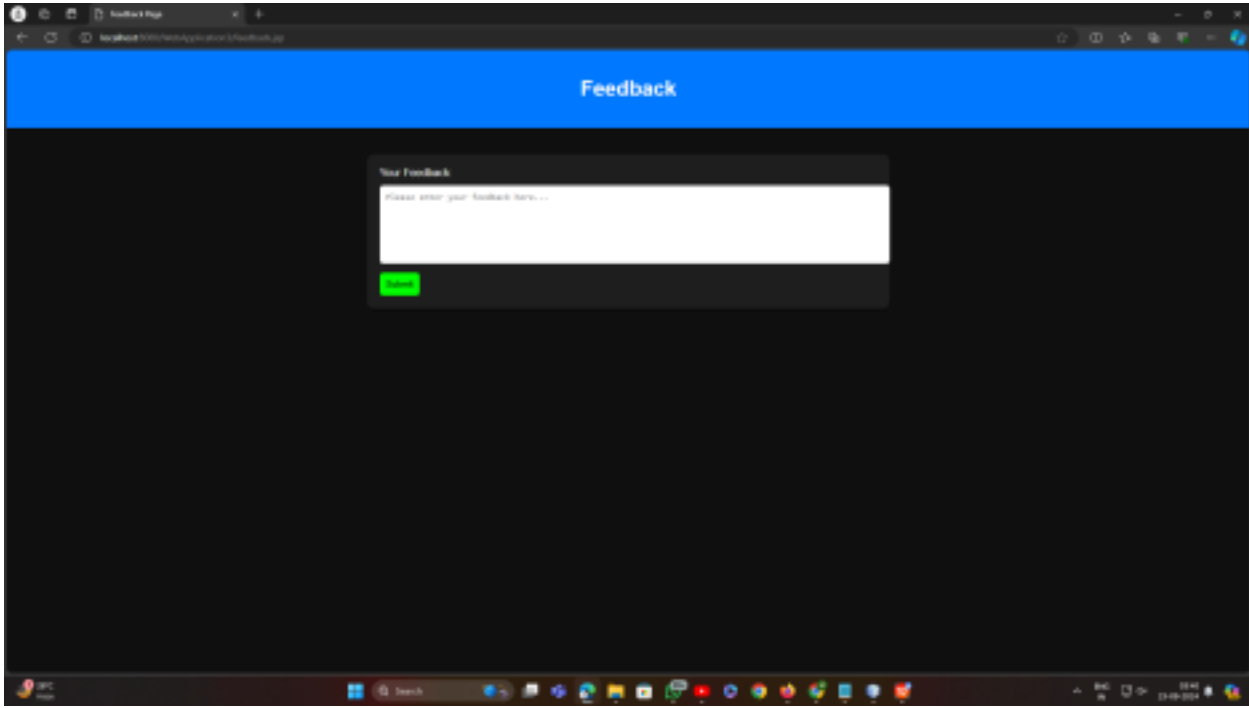
```
<input type="submit" value="Register">
</form>
```

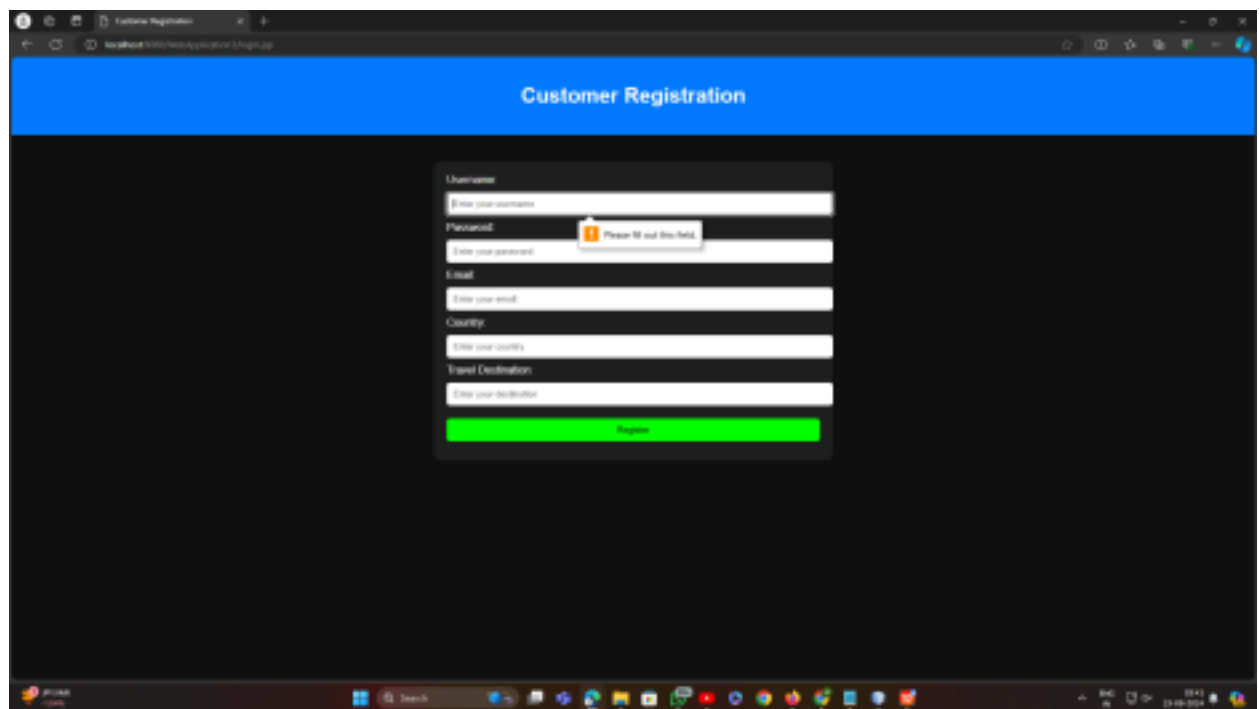
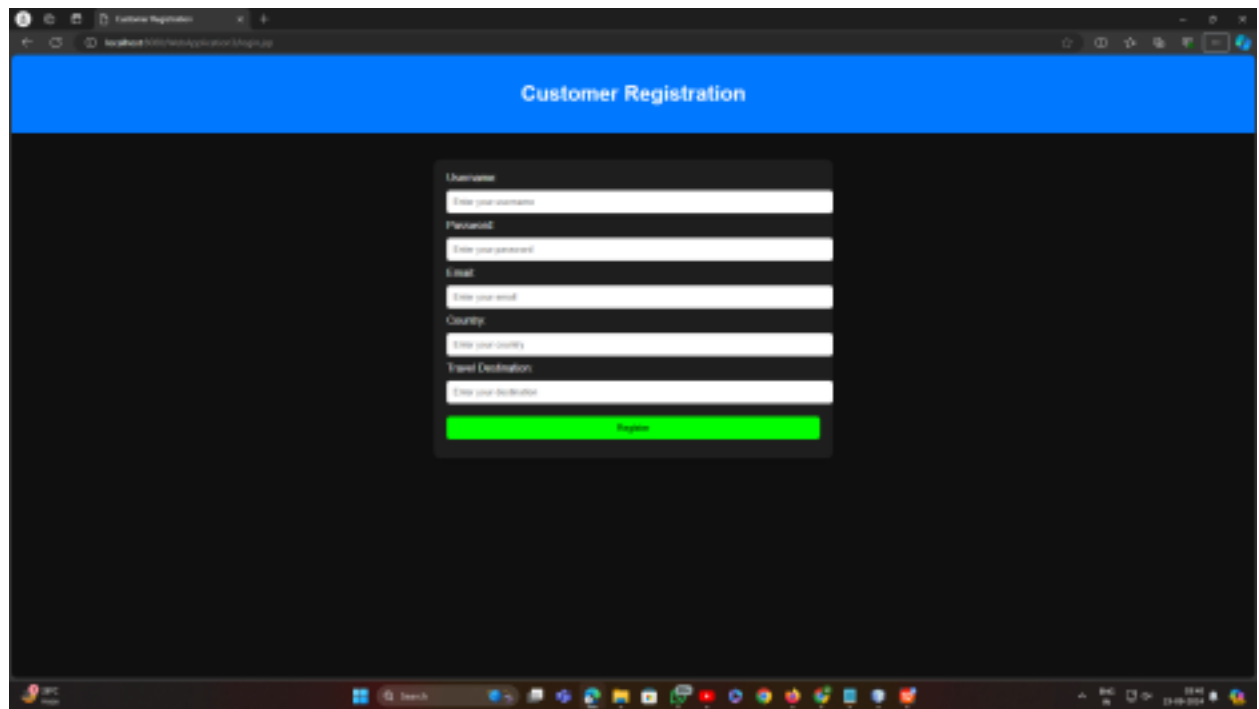
```
</body>
```

```
</html>
```

● OUTPUT :







Customer Registration

Username:

Password:

Email:

Country:

Travel Destination:

Data saved successfully!

Username:

Password:

Email:

Country:

Travel Destination:

#	USERNAME	PASSWORD	EMAIL	COUNTRY	DEST
1	soham	329847	soham@gmail.com	india	new york
2	abhi	342978	abhi@gmail.com	india	italy

● Conclusion

The Travel Management System project successfully demonstrates the integration of web technologies to create a user-friendly platform for travel planning and booking. By incorporating essential features such as a home page, booking page, feedback page, and login functionality, we have addressed the key needs of users seeking a seamless travel experience.

Through careful database design, we ensure secure storage and efficient management of user information, travel packages, and feedback, enabling personalized services and continuous improvement. The system not only simplifies the booking process but also empowers users to actively participate in shaping the services they receive.

As travel continues to evolve in the digital age, our project stands as a testament to the potential of technology to enhance user experiences. By focusing on usability, security, and responsiveness, the Travel Management System is well-equipped to meet the demands of modern travelers, fostering a culture of exploration and adventure.

In conclusion, this project lays the groundwork for future enhancements, including advanced features such as real-time booking updates, personalized recommendations, and integration with third-party services. We believe that the Travel Management System can significantly contribute to the travel industry by making travel planning more accessible and enjoyable for everyone.