**PART A**

**A.1 AIM:**

Develop a Mini Project in Java

**A.2 Pre requisite:**

Basic Knowledge of Java, Java FX, JDBC, MySQL.

**A.3 Outcome:**

After successful completion of this experiment students will be able to:

1. Develop a standalone application using Java

**A.4 Theory:**

A mini project is desirable to be completed by a group of two or three students that cover

following tools.

Java

Java FX

JDBC

**A.5 Procedure/Task:**

1. Develop an application using Java and Java FX.
2. Prepare the document. Save and close the file and name it as RollNo.\_MiniProject.

**PART B**

|  |  |
| --- | --- |
| Roll No. : A073 | Name: Aryan Srivastava |
| Class : MCA | Batch : 3 |
| Date of Experiment : | Date/Time of Submission : |
| Grade : |  |

**B.1 Project Details**

**1) Motivation to take the proposed project**

The motivation behind creating the Flat Rental Management App was to address the challenges faced by both landlords and tenants in managing rental properties. Traditionally, these processes involve manual paperwork, face-to-face interactions, and a lack of efficient communication between parties. Our goal was to develop a platform that simplifies these tasks, enhances transparency, and improves the overall user experience for both landlords (sellers) and tenants (buyers). By digitizing the rental process, the app aims to make property management more efficient, reduce administrative workload, and foster better communication between users.

**2) Working of the project**

The Flat Rental Management App operates through a web interface that provides three types of users: Admin, Buyers (Tenants), and Sellers (Landlords). Here's how each of the user types interacts with the system:

* **Admin Dashboard**: The admin has full access to the backend of the application and can manage all aspects of the platform. This includes monitoring and managing users (both buyers and sellers), reviewing property listings, and managing user profiles. The admin can also view and delete any inappropriate or invalid listings and ensure the platform operates smoothly.
* **Buyer (Tenant) Login**: Tenants (buyers) can create an account, log in, and browse through available properties listed by sellers. They can search for properties based on specific criteria like location, price, size, etc. Tenants can also view property details, including descriptions, images, and available dates.
* **Seller (Landlord) Login**: Sellers (landlords) can register and log in to manage their property listings. They can add new properties, edit or delete existing listings, and view the tenant applications or inquiries they receive. Sellers can also update the details of their properties, such as availability and rental terms.
* **Property Listings**: Both buyers and sellers interact with the property listings. Sellers can add detailed descriptions, upload images, and specify the terms of the rental. Buyers can search for properties, view detailed information, and contact sellers for more information or to express interest.

**3) Advantages & Disadvantages of the Project**

*Advantages:*

* **Efficient Property Management**: Sellers (landlords) can manage their listings and tenants more effectively, reducing the need for manual intervention and paperwork.
* **User-Friendly Interface**: The app's interface is designed to be simple and intuitive, making it easy for both buyers and sellers to use the platform without technical knowledge.
* **Centralized Information**: The app provides a centralized platform where tenants and landlords can access all relevant property details, reducing communication errors and making the rental process smoother.
* **Admin Control**: The admin panel allows centralized monitoring of the entire system, ensuring that all activities on the platform are appropriately managed and users follow platform rules.

*Disadvantages:*

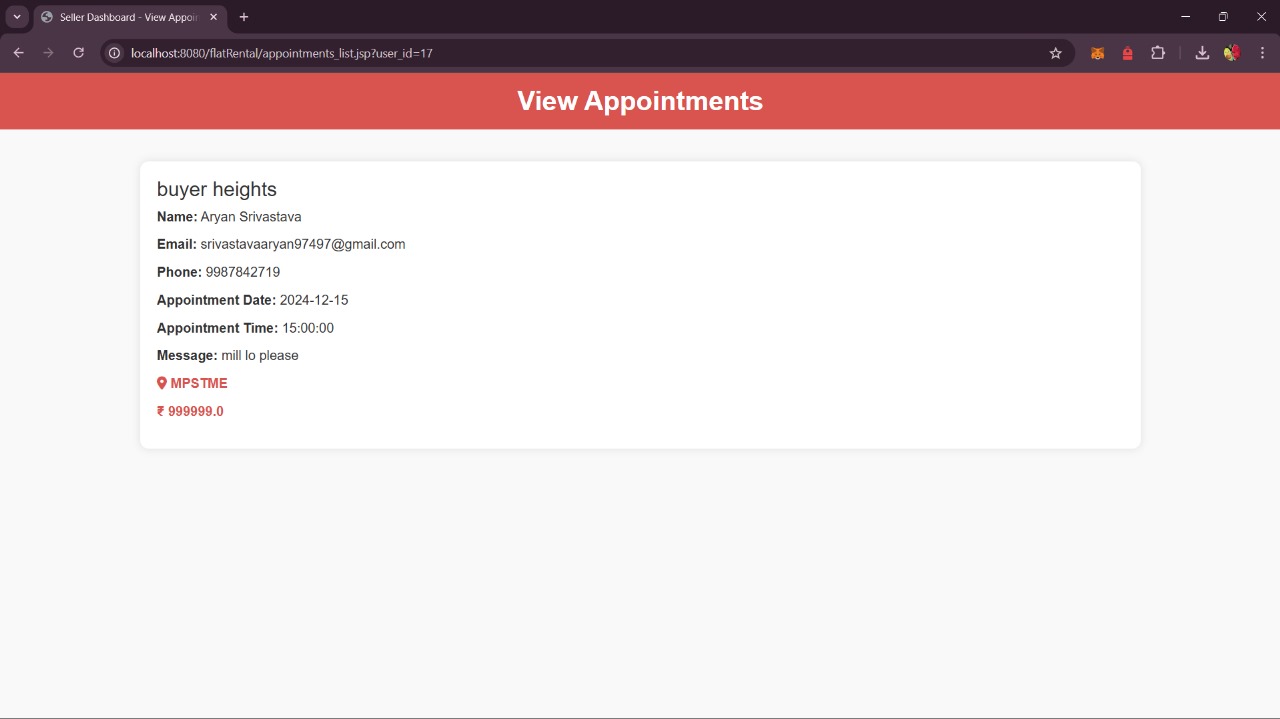
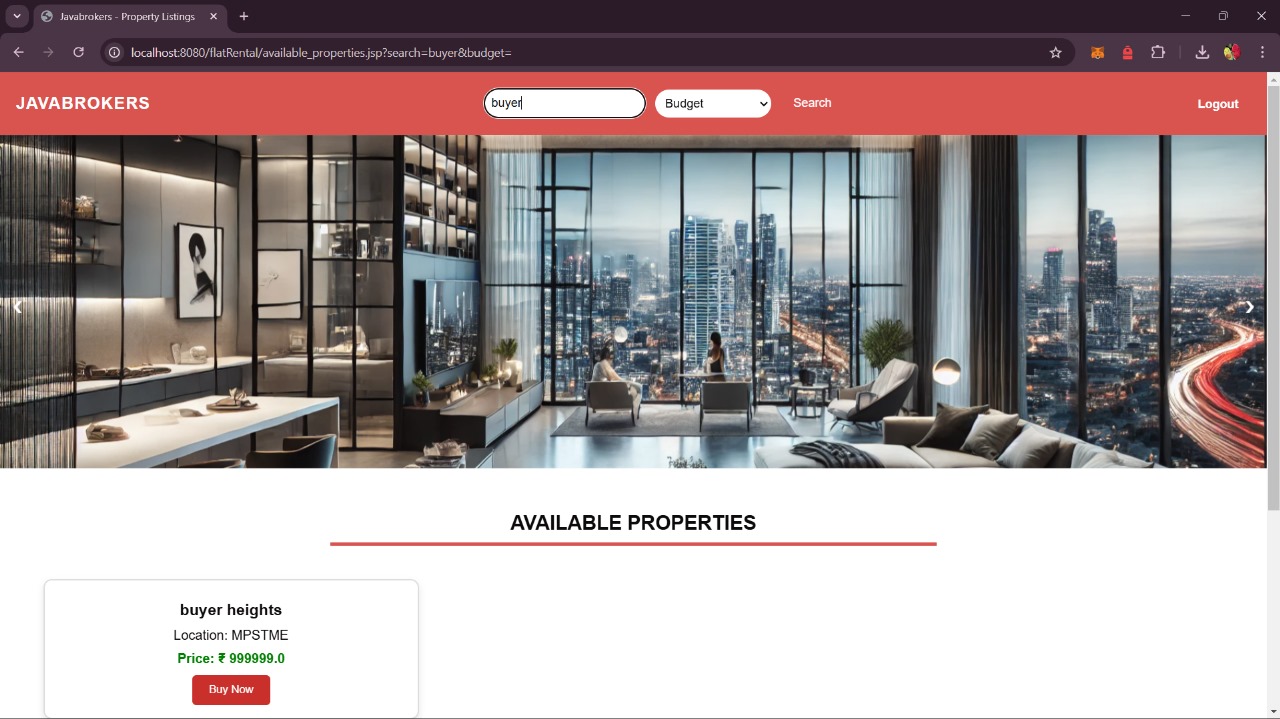
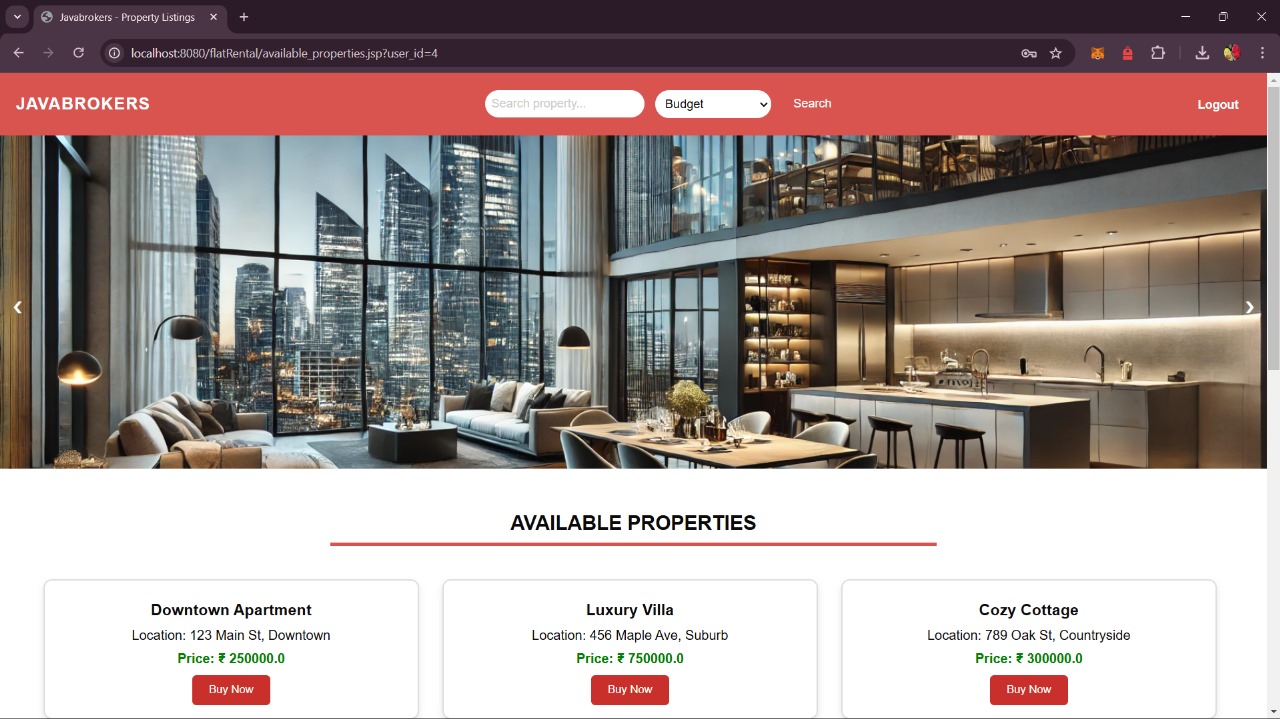
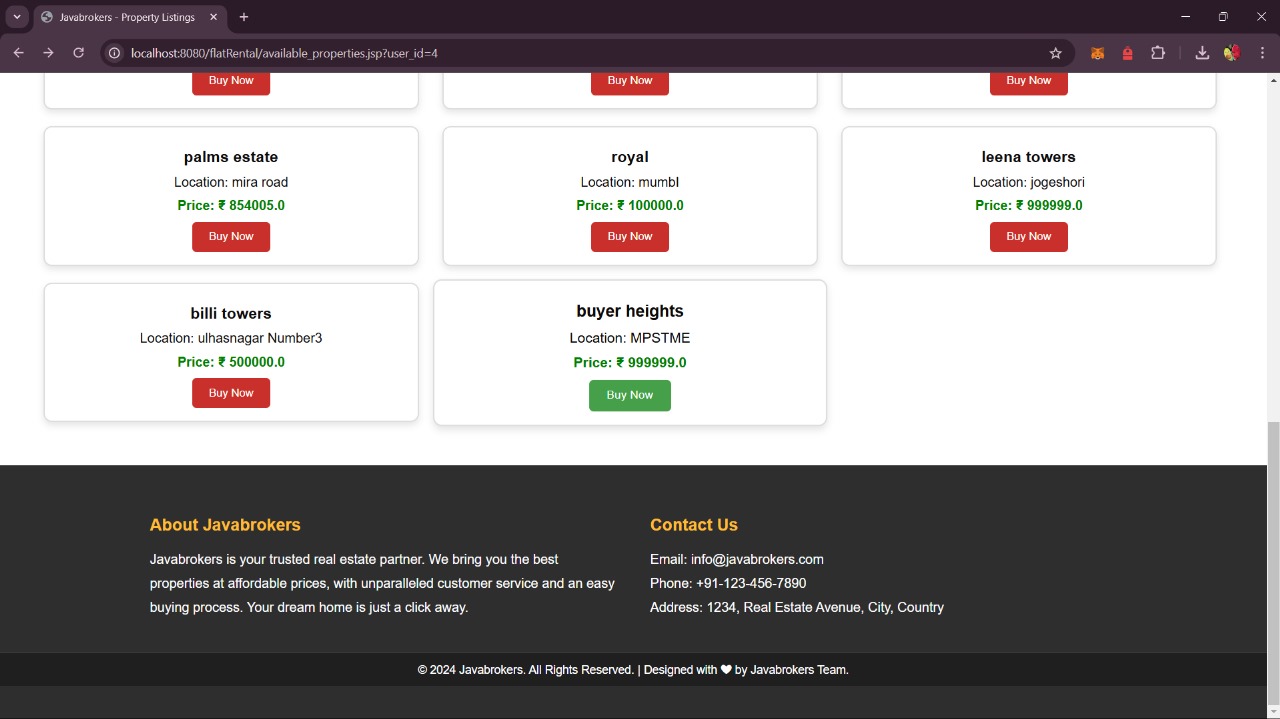
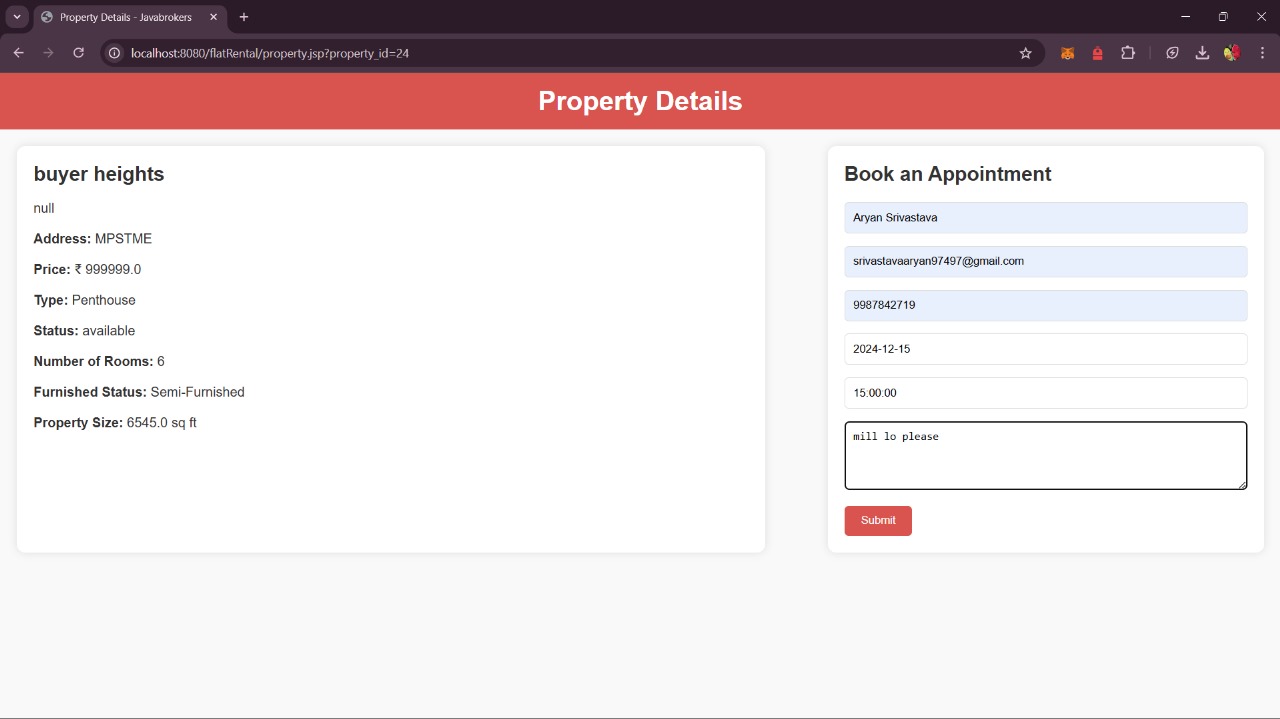
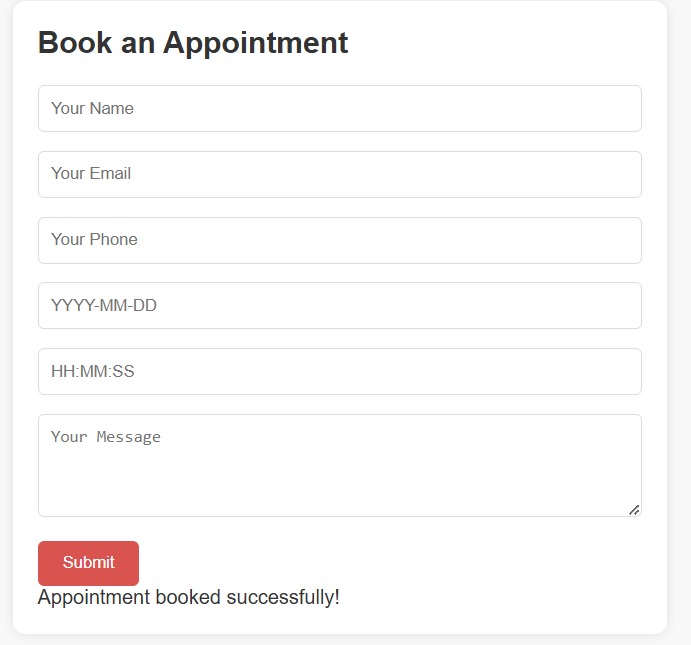
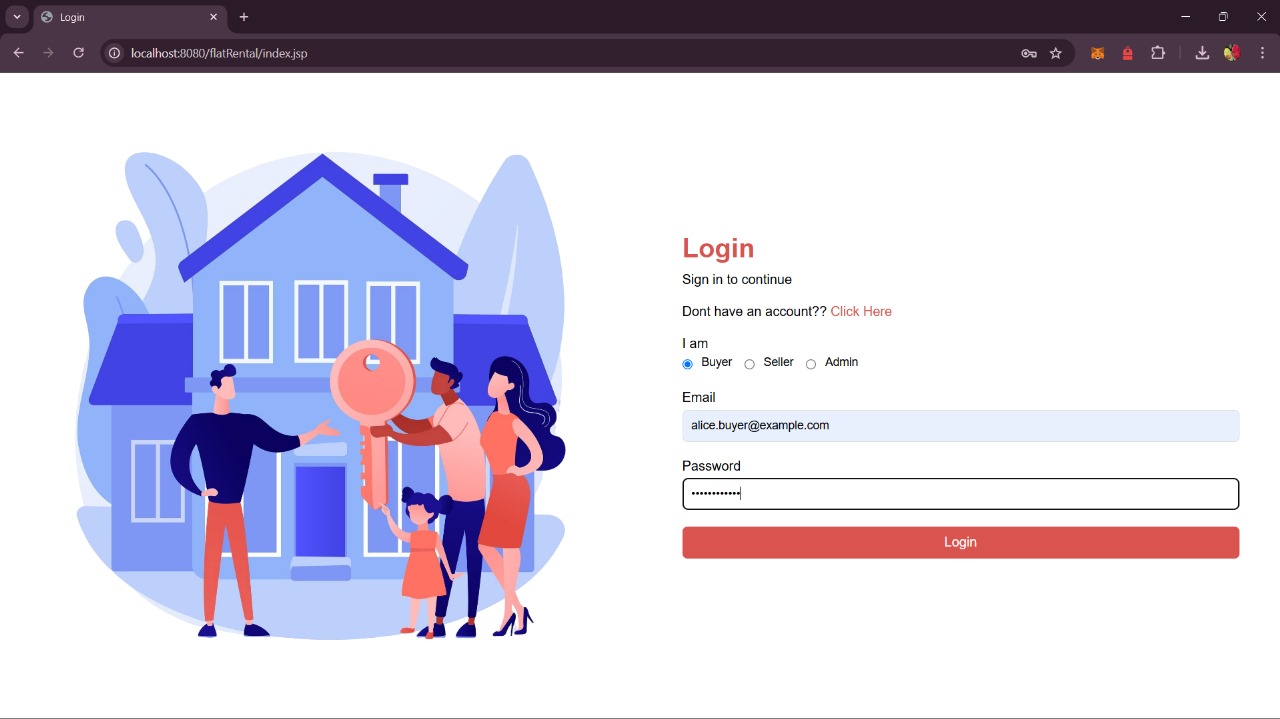
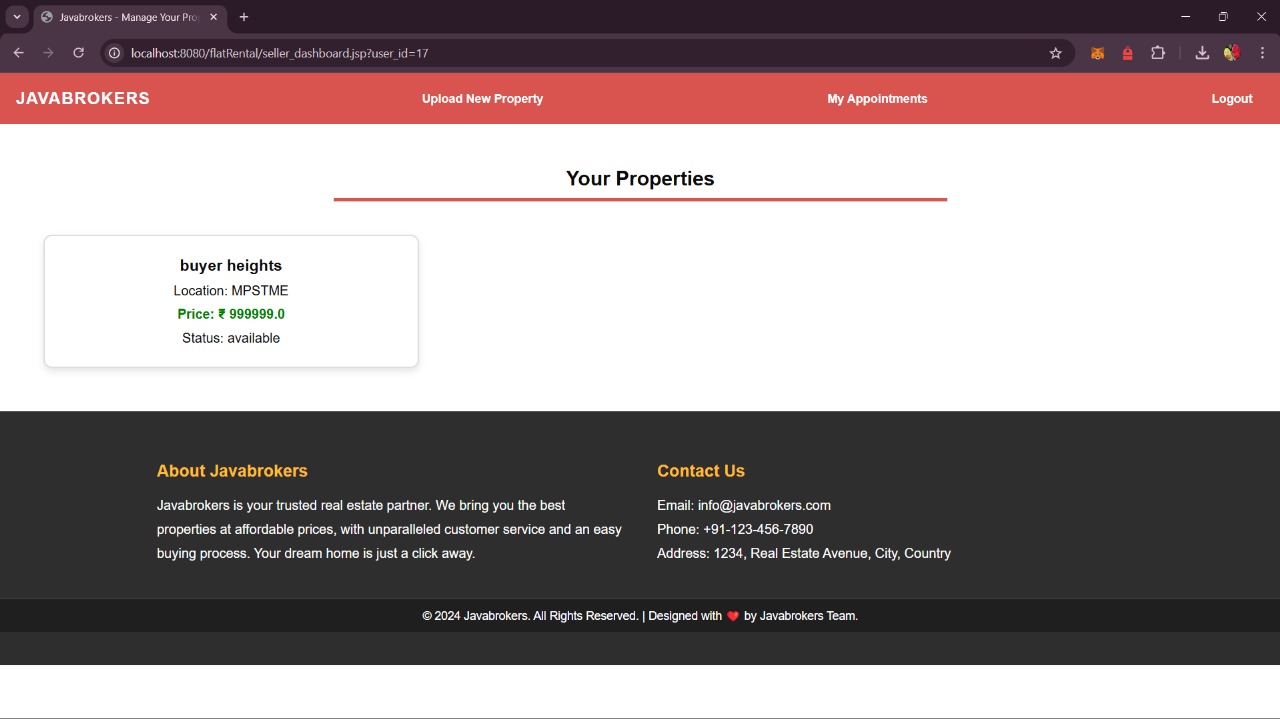
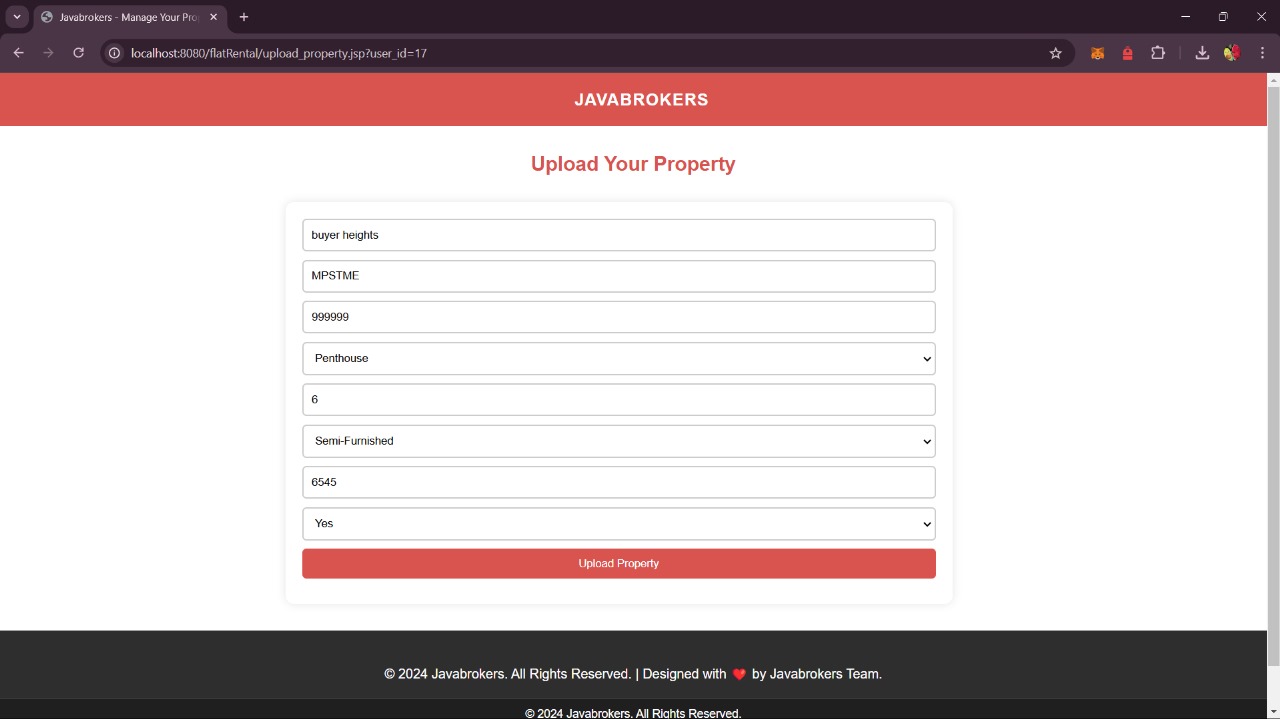
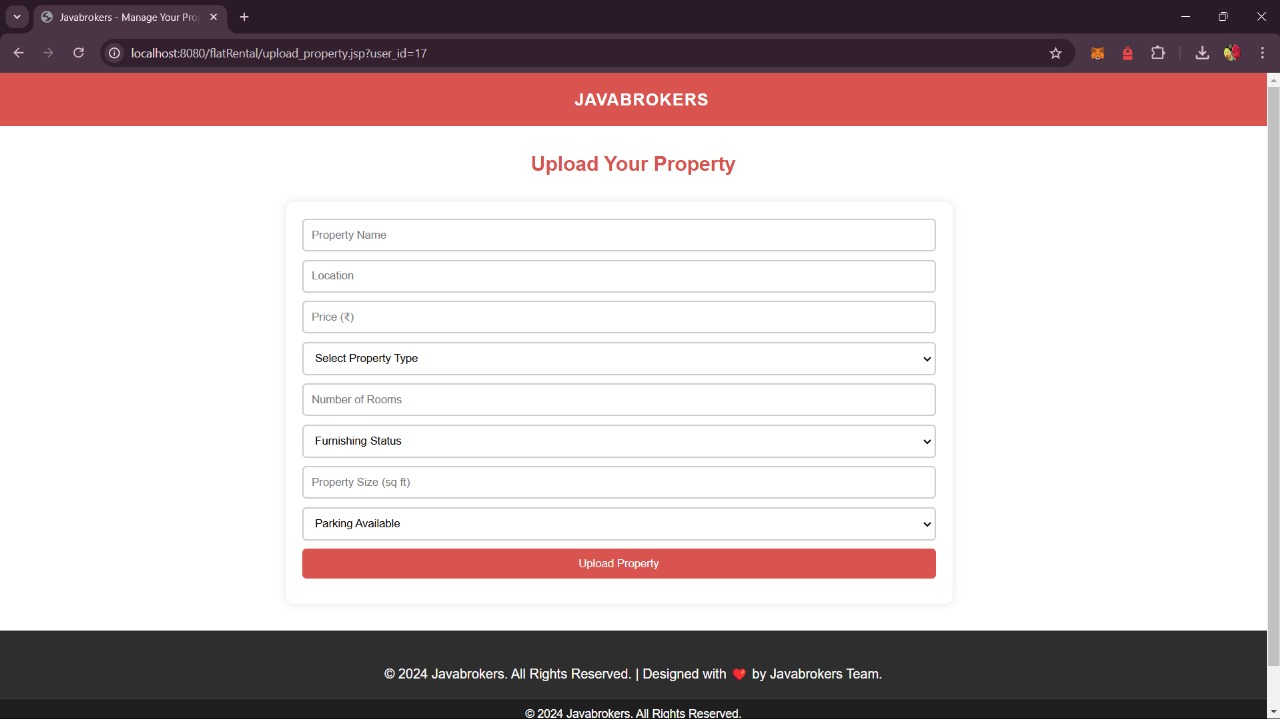
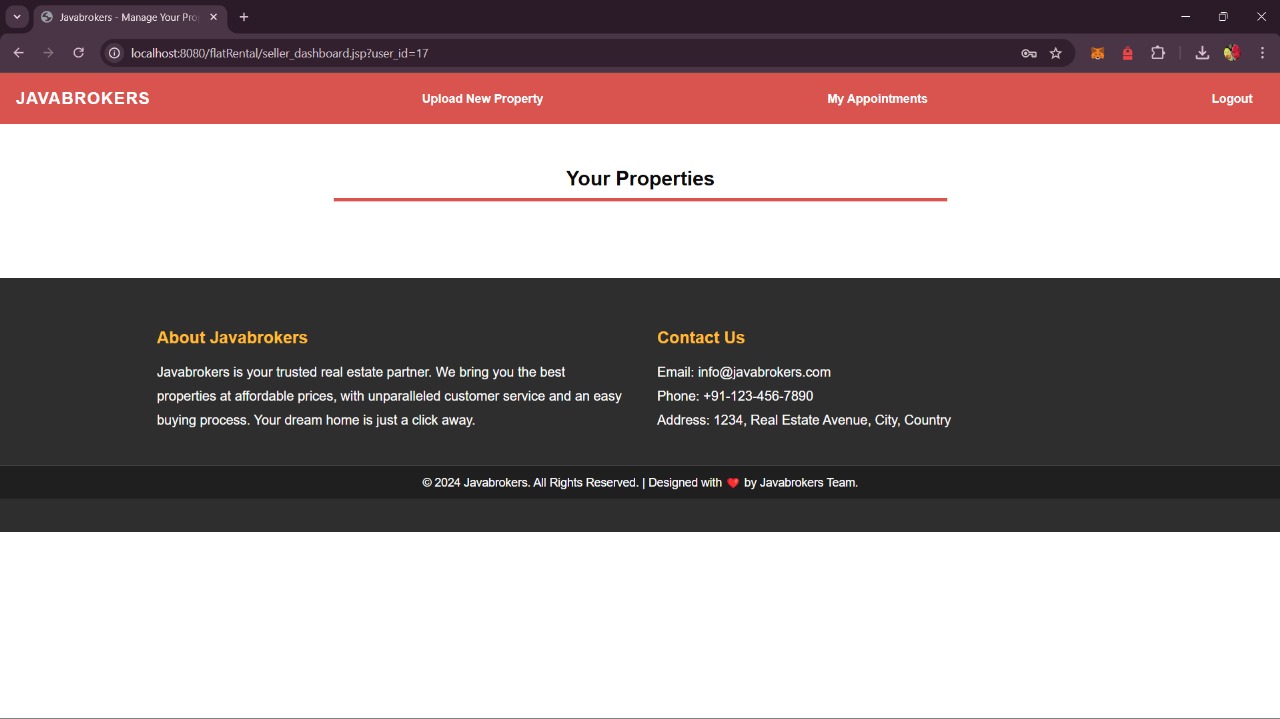
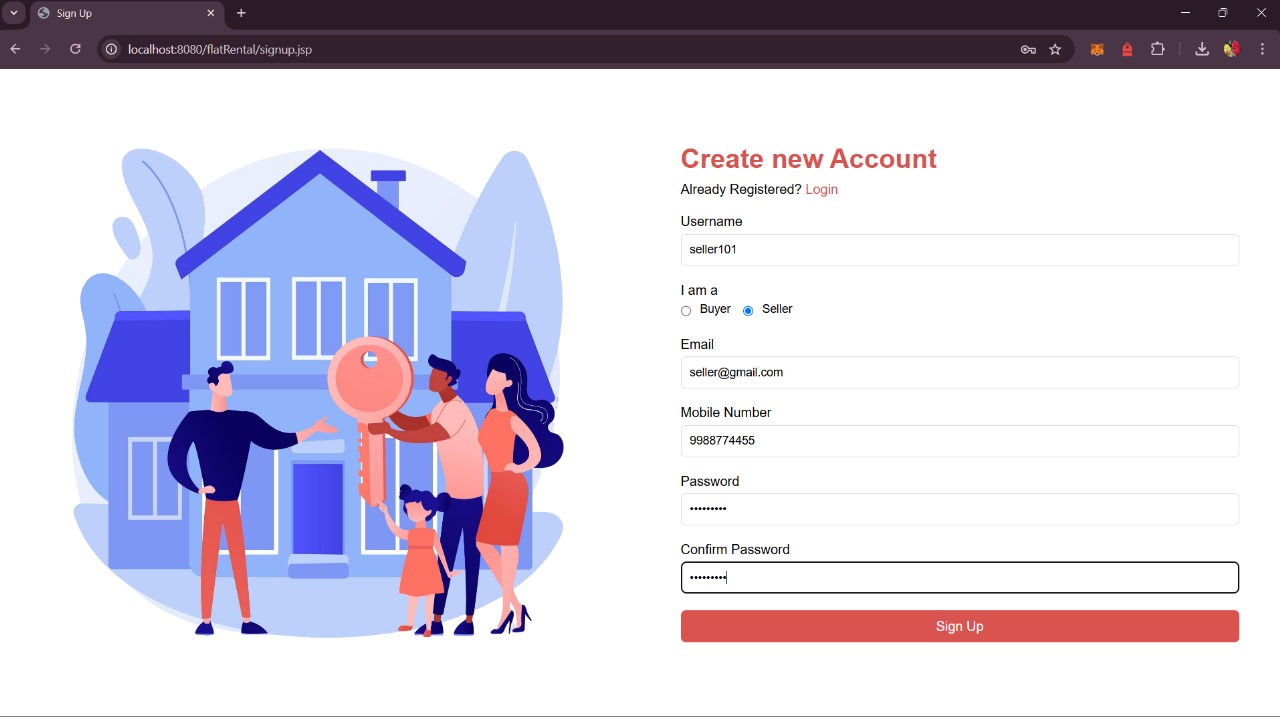
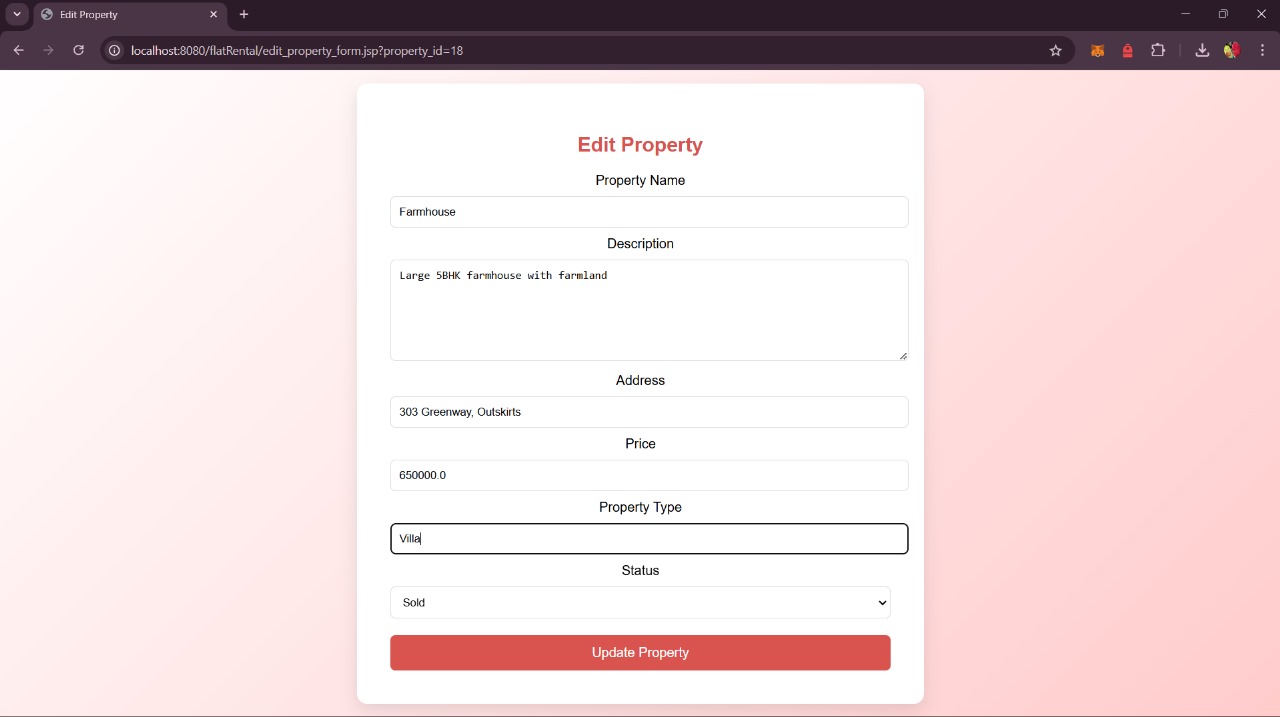
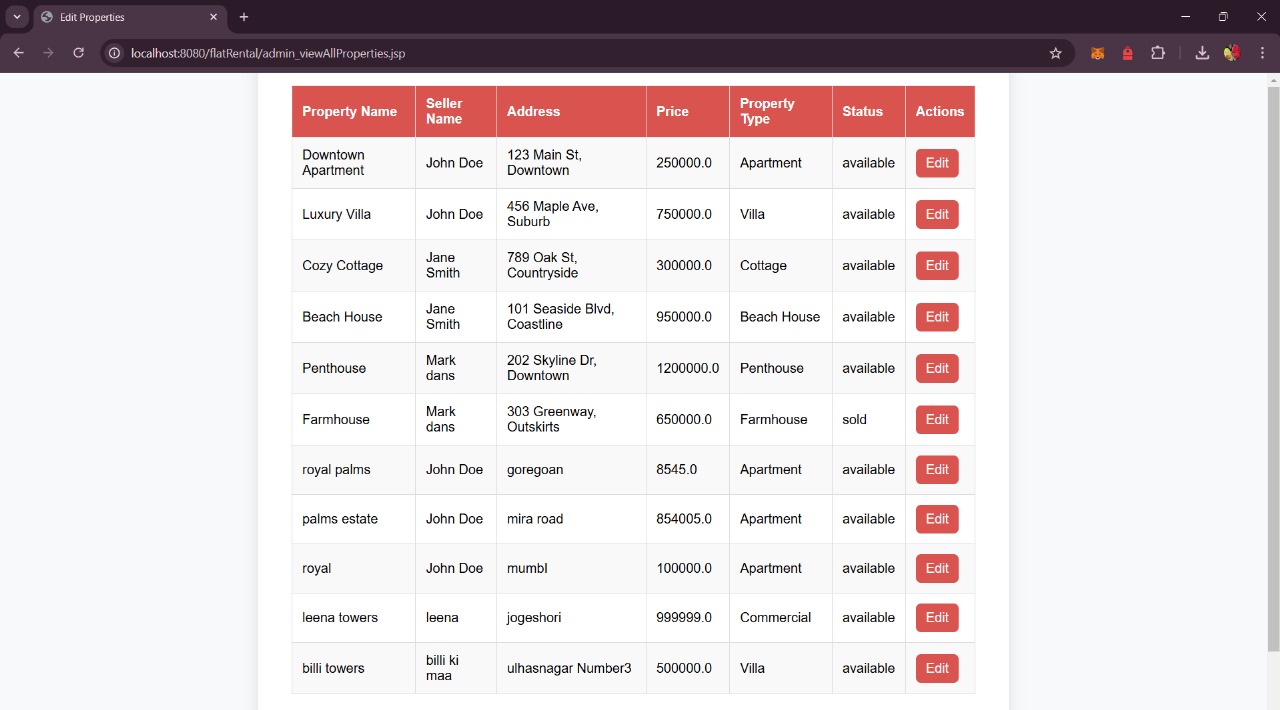
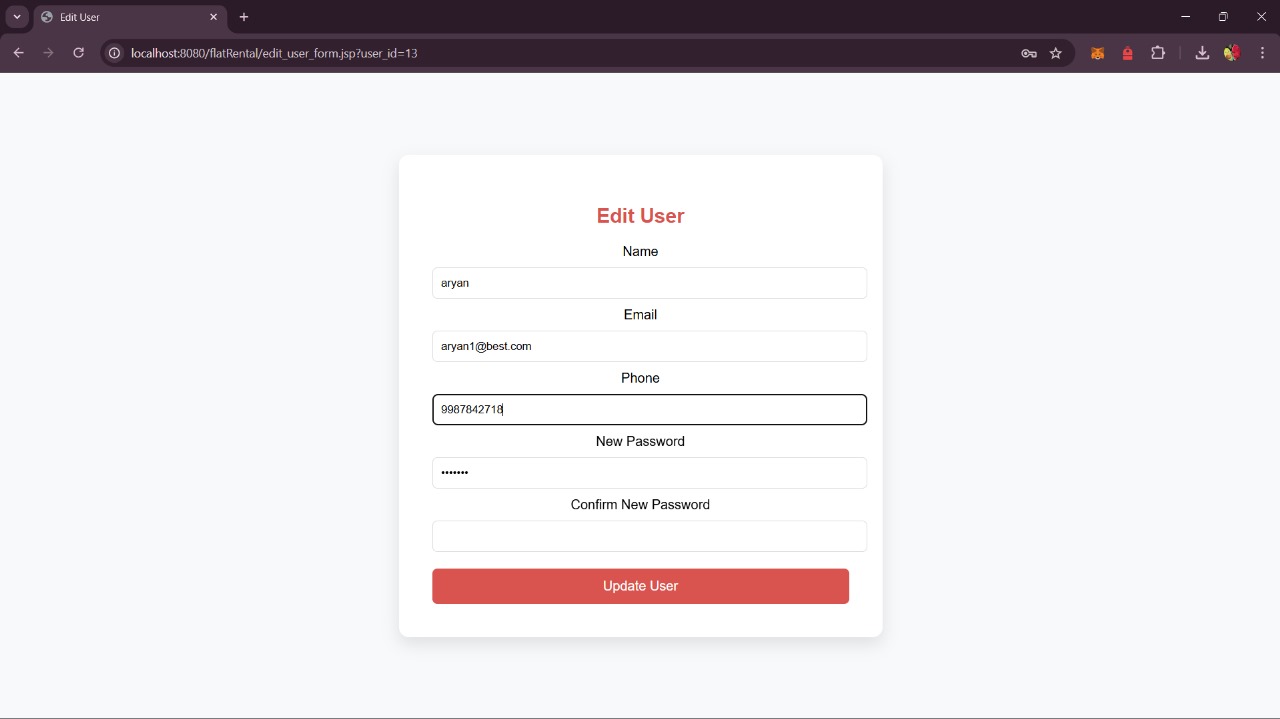
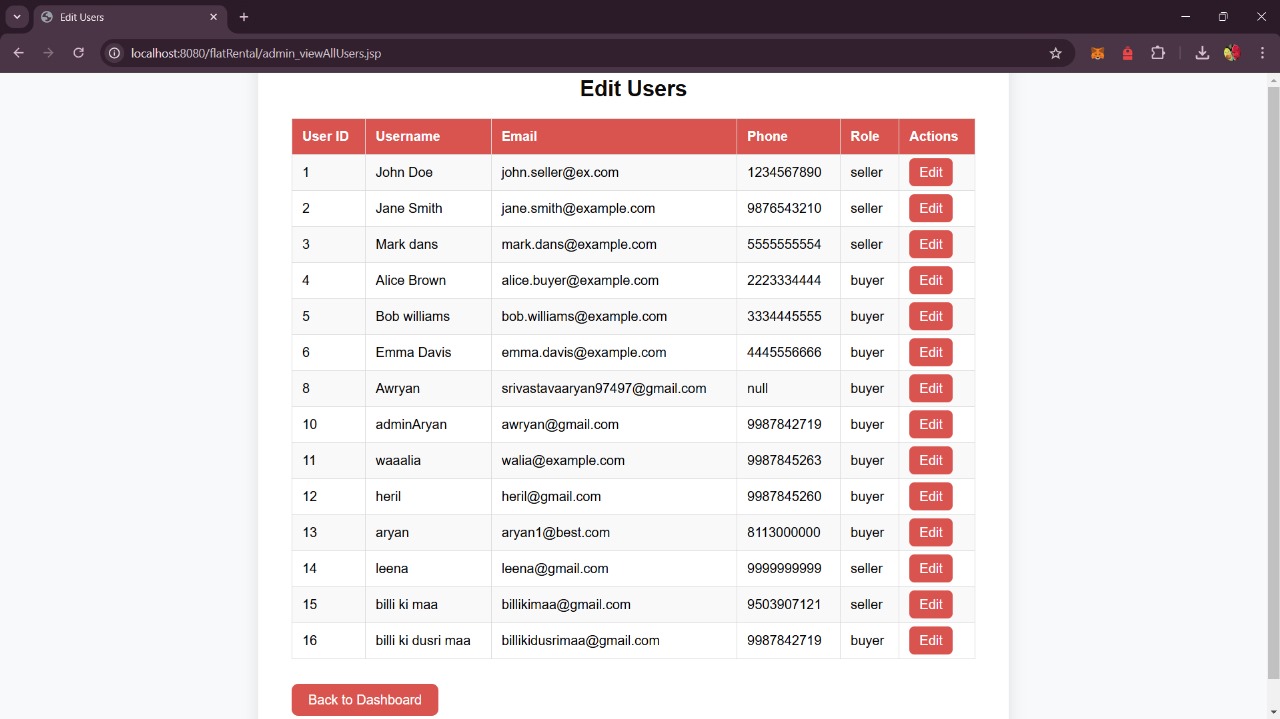
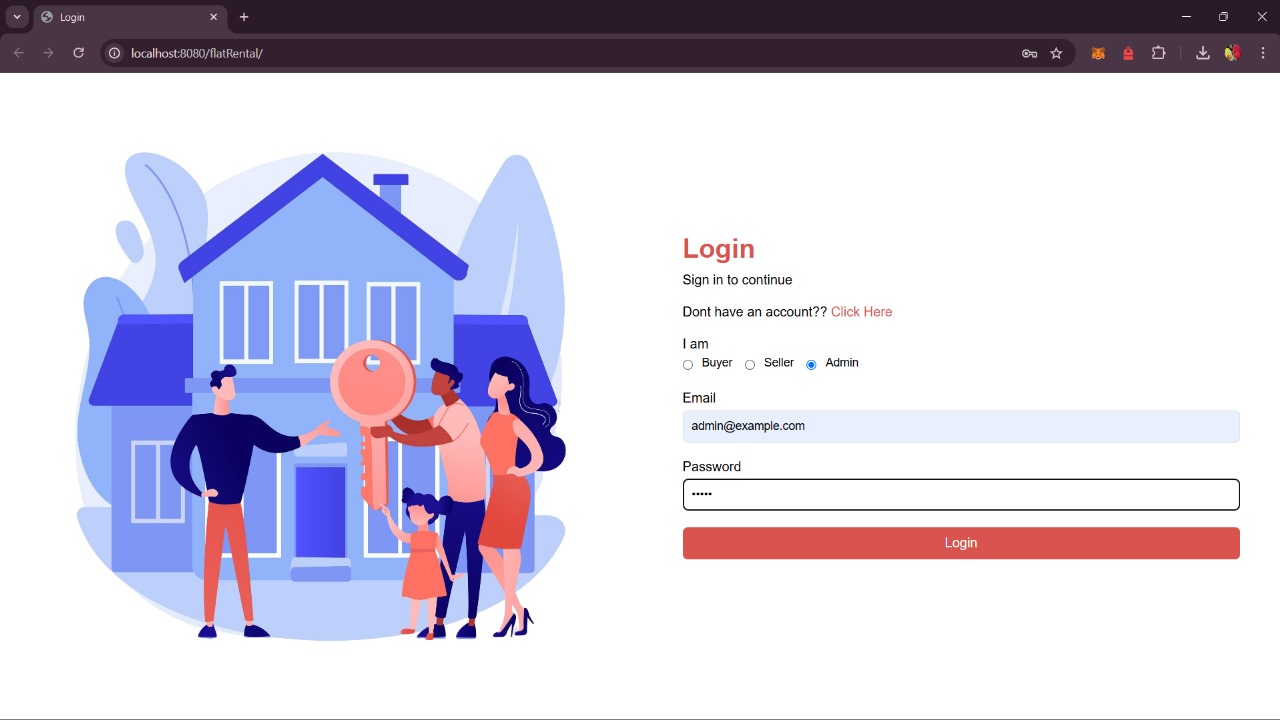
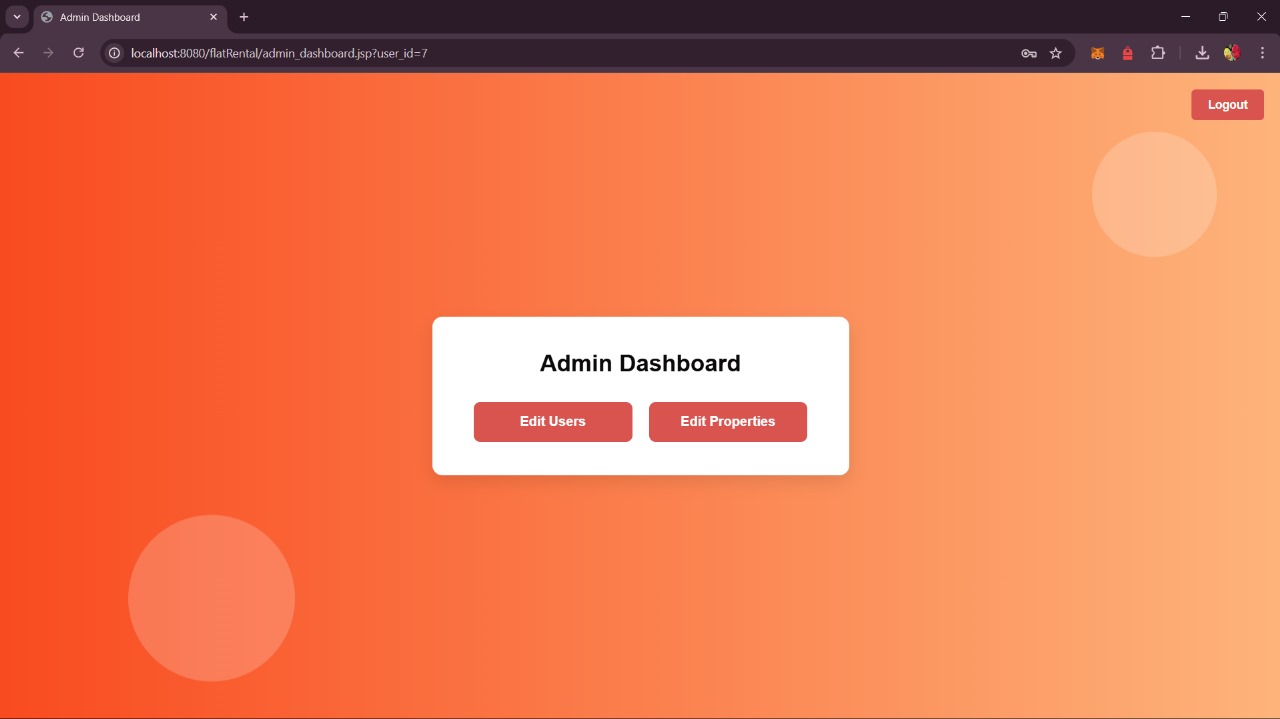
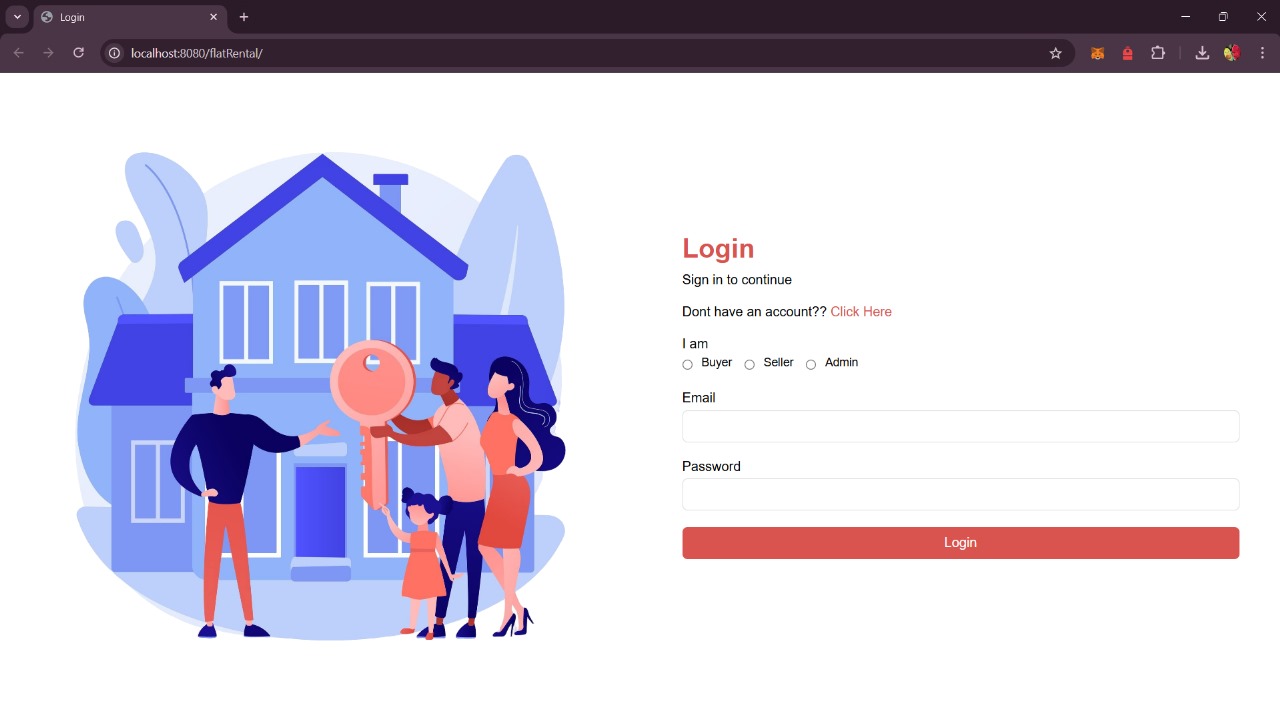
* **Limited Features**: As of now, the app does not support advanced features like online payments, booking confirmations, or lease contract management, which limits its functionality compared to fully-fledged rental management systems.
* **Lack of Physical Verification**: The platform does not include a mechanism for verifying the physical status of properties or confirming the legitimacy of sellers, which may lead to fraudulent listings.
* **Internet Dependency**: Since the app is entirely web-based, users need a stable internet connection to access the platform, limiting its usability in low-connectivity areas.

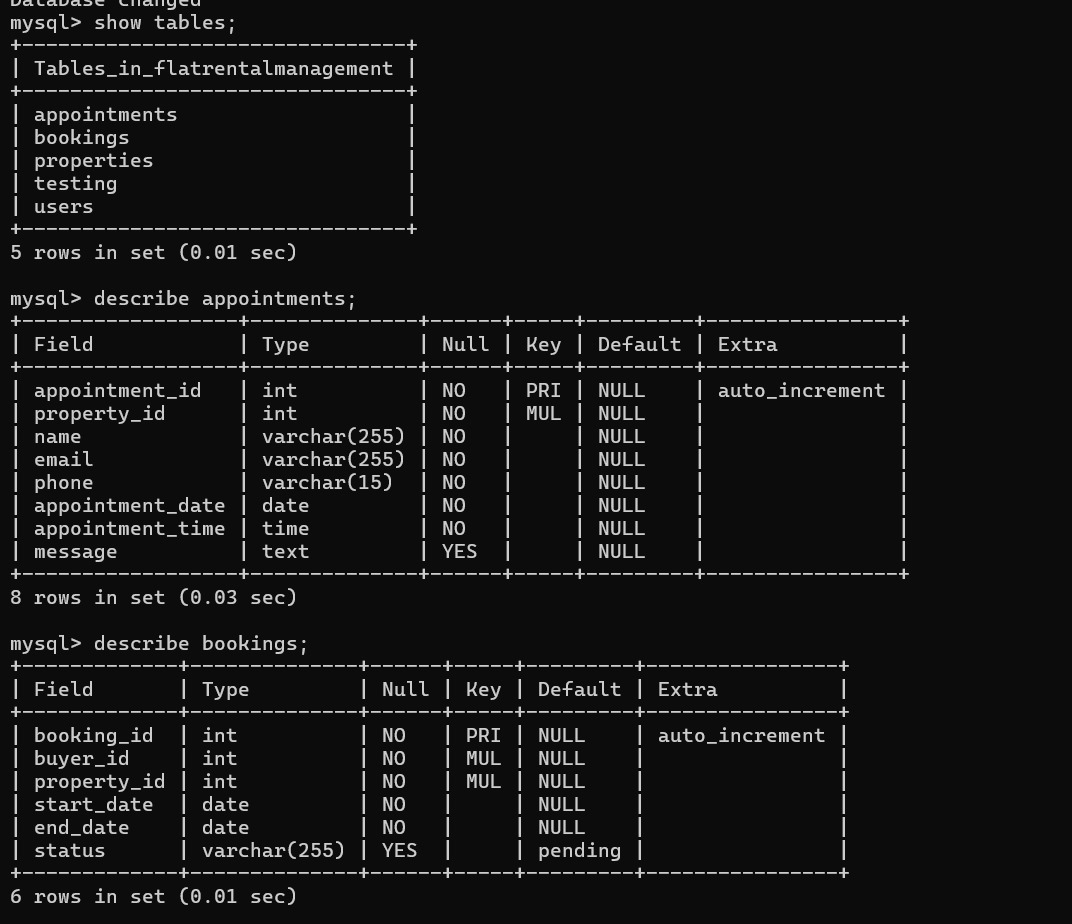
**4) Technologies Used for Developing the Project**

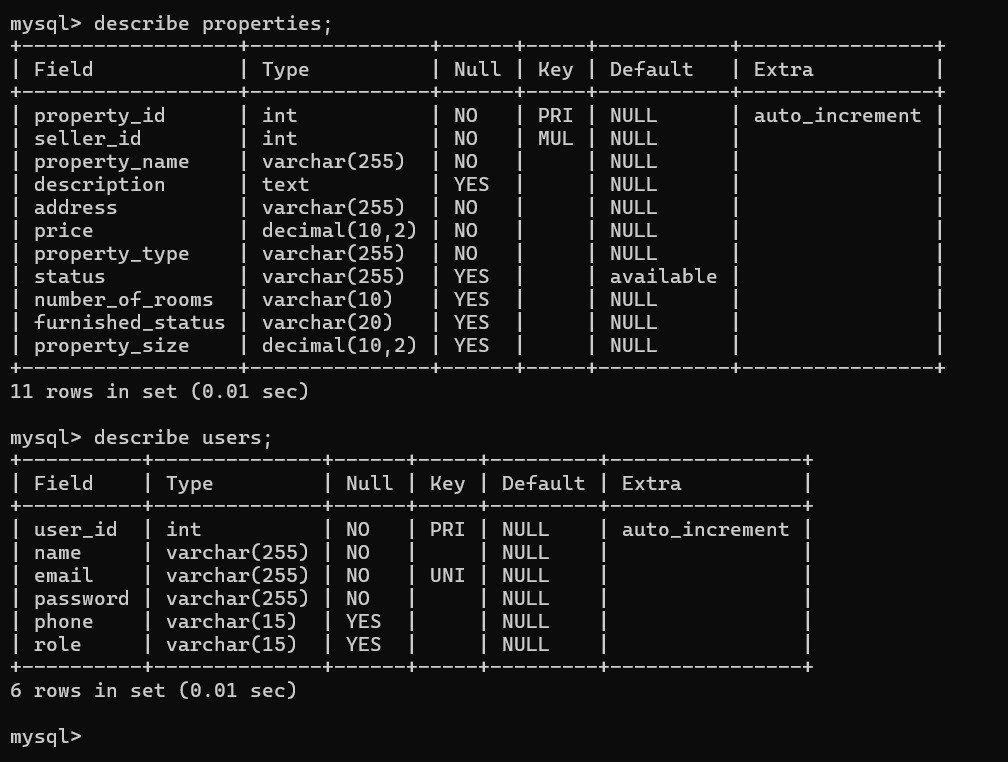
The Flat Rental Management App was developed using the following technologies:

* **Java**: The primary programming language for developing the backend of the application, handling business logic, and processing requests.
* **JSP (JavaServer Pages)**: Used for creating dynamic web pages that interact with the server to display content retrieved from the database and handle user input.
* **CSS (Cascading Style Sheets)**: Used for styling the application, ensuring a responsive and clean design that works across different devices and screen sizes.
* **MySQL**: A relational database management system (RDBMS) used to store data such as user profiles, property listings, and other information critical to the application.
* **JDBC (Java Database Connectivity)**: A Java API used to connect the application to the MySQL database, enabling seamless data retrieval, insertion, and updates.

**B.2 Output**

**

DATABASE  
**

**

**B.3 Project Code :**

*src/main/webapp/admin\_dashboard.jsp*

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

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

*<title>Admin Dashboard</title>*

*<style>*

*\* {*

*box-sizing: border-box;*

*margin: 0;*

*padding: 0;*

*}*

*body {*

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

*background: linear-gradient(to right, #f94b20, #feb47b);*

*height: 100vh;*

*display: flex;*

*justify-content: center;*

*align-items: center;*

*overflow: hidden;*

*position: relative;*

*}*

*/\* Logout button \*/*

*.logout-btn {*

*position: absolute;*

*top: 20px;*

*right: 20px;*

*background-color: #d9534f;*

*color: white;*

*padding: 10px 20px;*

*border-radius: 5px;*

*font-size: 14px;*

*font-weight: bold;*

*text-decoration: none;*

*transition: transform 0.2s, box-shadow 0.2s;*

*}*

*.logout-btn:hover {*

*transform: translateY(-3px);*

*box-shadow: 0 5px 15px rgba(0, 0, 0, 0.2);*

*background-color: #c9302c;*

*}*

*/\* Decorative shapes \*/*

*.shape {*

*position: absolute;*

*border-radius: 50%;*

*background: rgba(255, 255, 255, 0.2);*

*animation: float 6s ease-in-out infinite;*

*}*

*.shape:nth-child(1) {*

*width: 200px;*

*height: 200px;*

*bottom: 5%;*

*left: 10%;*

*}*

*.shape:nth-child(2) {*

*width: 150px;*

*height: 150px;*

*top: 10%;*

*right: 5%;*

*}*

*@keyframes float {*

*0% {*

*transform: translateY(0);*

*}*

*50% {*

*transform: translateY(-20px);*

*}*

*100% {*

*transform: translateY(0);*

*}*

*}*

*.container {*

*width: 100%;*

*max-width: 500px;*

*background-color: #ffffff;*

*padding: 40px;*

*border-radius: 12px;*

*box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);*

*text-align: center;*

*z-index: 10;*

*position: relative;*

*}*

*h2 {*

*margin-bottom: 30px;*

*font-size: 28px;*

*color: #0c0b0b;*

*}*

*.dashboard-buttons {*

*display: flex;*

*justify-content: space-around;*

*margin-top: 30px;*

*}*

*.dashboard-buttons a {*

*flex: 1;*

*margin: 0 10px;*

*padding: 15px 0;*

*background-color: #d9534f;*

*color: white;*

*font-size: 16px;*

*font-weight: bold;*

*border-radius: 8px;*

*text-decoration: none;*

*transition: transform 0.2s, box-shadow 0.2s;*

*}*

*.dashboard-buttons a:hover {*

*transform: translateY(-5px);*

*box-shadow: 0 5px 15px rgba(0, 0, 0, 0.2);*

*background-color: #c9302c;*

*}*

*.dashboard-buttons a:active {*

*transform: translateY(0);*

*}*

*</style>*

*</head>*

*<body>*

*<!-- Decorative shapes -->*

*<div class="shape"></div>*

*<div class="shape"></div>*

*<!-- Logout button at the top right -->*

*<a href="index.jsp" class="logout-btn">Logout</a>*

*<div class="container">*

*<h2>Admin Dashboard</h2>*

*<div class="dashboard-buttons">*

*<a href="admin\_viewAllUsers.jsp">Edit Users</a>*

*<a href="admin\_viewAllProperties.jsp">Edit Properties</a>*

*</div>*

*</div>*

*</body>*

*</html>*

*src/main/webapp/admin\_viewAllProperties.jsp*

*<%@ 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>Edit Properties</title>*

*<style>*

*/\* Your existing CSS here \*/*

*\* {*

*box-sizing: border-box;*

*margin: 0;*

*padding: 0;*

*}*

*body {*

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

*background-color: #f8f9fa;*

*display: flex;*

*justify-content: center;*

*align-items: center;*

*padding: 20px;*

*height: 100vh;*

*}*

*.container {*

*width: 100%;*

*max-width: 900px;*

*background-color: #fff;*

*padding: 40px;*

*border-radius: 12px;*

*box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);*

*}*

*h2 {*

*margin-bottom: 20px;*

*font-size: 26px;*

*color: #0c0b0b;*

*text-align: center;*

*}*

*table {*

*width: 100%;*

*border-collapse: collapse;*

*margin-bottom: 20px;*

*}*

*table,*

*th,*

*td {*

*border: 1px solid #ddd;*

*}*

*th,*

*td {*

*padding: 12px;*

*text-align: left;*

*}*

*th {*

*background-color: #d9534f;*

*color: white;*

*}*

*tr:nth-child(even) {*

*background-color: #f9f9f9;*

*}*

*.edit-btn,*

*.back-btn {*

*padding: 8px 12px;*

*background-color: #d9534f;*

*color: white;*

*text-decoration: none;*

*border-radius: 6px;*

*transition: background-color 0.3s;*

*display: inline-block;*

*}*

*.edit-btn:hover,*

*.back-btn:hover {*

*background-color: #c9302c;*

*}*

*.back-btn {*

*margin-top: 10px;*

*}*

*</style>*

*</head>*

*<body>*

*<div class="container">*

*<h2>Edit Properties</h2>*

*<table>*

*<tr>*

*<th>Property Name</th>*

*<th>Seller Name</th>*

*<th>Address</th>*

*<th>Price </th>*

*<th>Property Type</th>*

*<th>Status</th>*

*<th>Actions</th>*

*</tr>*

*<%*

*Connection conn = null;*

*Statement stmt = null;*

*ResultSet rs = null;*

*StringBuilder tableRows = new StringBuilder();*

*try {*

*Class.forName("com.mysql.cj.jdbc.Driver");*

*conn = DriverManager.getConnection("jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");*

*stmt = conn.createStatement();*

*String sql = "SELECT p.property\_id, p.property\_name, u.name AS seller\_name, p.address, p.price, p.property\_type, p.status " +*

*"FROM properties p " +*

*"JOIN users u ON p.seller\_id = u.user\_id";*

*rs = stmt.executeQuery(sql);*

*while (rs.next()) {*

*tableRows.append("<tr>")*

*.append("<td>").append(rs.getString("property\_name")).append("</td>")*

*.append("<td>").append(rs.getString("seller\_name")).append("</td>")*

*.append("<td>").append(rs.getString("address")).append("</td>")*

*.append("<td>").append(rs.getDouble("price")).append("</td>")*

*.append("<td>").append(rs.getString("property\_type")).append("</td>")*

*.append("<td>").append(rs.getString("status")).append("</td>")*

*.append("<td><a href=\"edit\_property\_form.jsp?property\_id=").append(rs.getInt("property\_id")).append("\" class=\"edit-btn\">Edit</a></td>")*

*.append("</tr>");*

*}*

*} catch (Exception e) {*

*e.printStackTrace();*

*} finally {*

*if (rs != null) try { rs.close(); } catch (SQLException e) { e.printStackTrace(); }*

*if (stmt != null) try { stmt.close(); } catch (SQLException e) { e.printStackTrace(); }*

*if (conn != null) try { conn.close(); } catch (SQLException e) { e.printStackTrace(); }*

*}*

*%>*

*<%= tableRows.toString() %>*

*</table>*

*<a href="admin\_dashboard.jsp" class="back-btn">Back to Dashboard</a>*

*</div>*

*</body>*

*</html>*

*src/main/webapp/admin\_viewAllUsers.jsp*

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

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

*<title>Edit Users</title>*

*<style>*

*\* {*

*box-sizing: border-box;*

*margin: 0;*

*padding: 0;*

*}*

*body {*

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

*background-color: #f8f9fa;*

*/\* Light background \*/*

*height: 100vh;*

*display: flex;*

*justify-content: center;*

*align-items: center;*

*padding: 20px;*

*}*

*.container {*

*width: 100%;*

*max-width: 900px;*

*background-color: #fff;*

*padding: 40px;*

*border-radius: 12px;*

*box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);*

*}*

*h2 {*

*margin-bottom: 20px;*

*font-size: 26px;*

*color: #0c0b0b;*

*/\* Darker text \*/*

*text-align: center;*

*}*

*table {*

*width: 100%;*

*border-collapse: collapse;*

*margin-bottom: 20px;*

*}*

*table,*

*th,*

*td {*

*border: 1px solid #ddd;*

*}*

*th,*

*td {*

*padding: 12px;*

*text-align: left;*

*}*

*th {*

*background-color: #d9534f;*

*/\* Header background color (red) \*/*

*color: white;*

*}*

*tr:nth-child(even) {*

*background-color: #f9f9f9;*

*}*

*.edit-btn {*

*padding: 8px 12px;*

*background-color: #d9534f;*

*/\* Button background color (red) \*/*

*color: white;*

*text-decoration: none;*

*border-radius: 6px;*

*transition: background-color 0.3s;*

*}*

*.edit-btn:hover {*

*background-color: #c9302c;*

*/\* Darker red on hover \*/*

*}*

*.back-btn {*

*display: inline-block;*

*padding: 10px 20px;*

*background-color: #d9534f;*

*/\* Button background color (red) \*/*

*color: white;*

*text-decoration: none;*

*border-radius: 8px;*

*transition: background-color 0.3s;*

*margin-top: 10px;*

*}*

*.back-btn:hover {*

*background-color: #c9302c;*

*/\* Darker red on hover \*/*

*}*

*</style>*

*</head>*

*<body>*

*<div class="container">*

*<h2>Edit Users</h2>*

*<%@ page import="java.sql.\*" %>*

*<%*

*Connection conn = null;*

*Statement stmt = null;*

*ResultSet rs = null;*

*try {*

*Class.forName("com.mysql.cj.jdbc.Driver");*

*conn = DriverManager.getConnection("jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");*

*stmt = conn.createStatement();*

*String sql = "SELECT user\_id, name, email, phone, role FROM users WHERE role IN ('seller', 'buyer')";*

*rs = stmt.executeQuery(sql);*

*%>*

*<table>*

*<tr>*

*<th>User ID</th>*

*<th>Username</th>*

*<th>Email</th>*

*<th>Phone</th>*

*<th>Role</th>*

*<th>Actions</th>*

*</tr>*

*<%*

*while (rs.next()) {*

*StringBuilder row = new StringBuilder();*

*row.append("<tr>");*

*row.append("<td>").append(rs.getInt("user\_id")).append("</td>");*

*row.append("<td>").append(rs.getString("name")).append("</td>");*

*row.append("<td>").append(rs.getString("email")).append("</td>");*

*row.append("<td>").append(rs.getString("phone")).append("</td>");*

*row.append("<td>").append(rs.getString("role")).append("</td>");*

*row.append("<td><a href=\"edit\_user\_form.jsp?user\_id=").append(rs.getInt("user\_id")).append("\" class=\"edit-btn\">Edit</a></td>");*

*row.append("</tr>");*

*out.print(row.toString());*

*}*

*%>*

*</table>*

*<%*

*} catch (Exception e) {*

*e.printStackTrace();*

*} finally {*

*if (rs != null) try { rs.close(); } catch (SQLException e) { e.printStackTrace(); }*

*if (stmt != null) try { stmt.close(); } catch (SQLException e) { e.printStackTrace(); }*

*if (conn != null) try { conn.close(); } catch (SQLException e) { e.printStackTrace(); }*

*}*

*%>*

*<a href="admin\_dashboard.jsp" class="back-btn">Back to Dashboard</a>*

*</div>*

*</body>*

*</html>*

*src/main/webapp/appointments\_list.jsp*

*<!DOCTYPE html>*

*<html lang="en">*

*<head>*

*<meta charset="UTF-8">*

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

*<title>Seller Dashboard - View Appointments</title>*

*<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">*

*<!-- Font Awesome -->*

*<style>*

*\* {*

*margin: 0;*

*padding: 0;*

*box-sizing: border-box;*

*}*

*body {*

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

*background-color: #f9f9f9;*

*color: #333;*

*}*

*header {*

*background-color: #d9534f;*

*color: white;*

*padding: 1rem;*

*text-align: center;*

*}*

*.container {*

*margin: 20px auto;*

*max-width: 1200px;*

*}*

*.grid-container {*

*display: grid;*

*grid-template-columns: repeat(auto-fit, minmax(300px, 1fr));*

*/\* Responsive grid \*/*

*gap: 20px;*

*}*

*.appointment-card {*

*background-color: white;*

*padding: 20px;*

*border-radius: 10px;*

*box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);*

*transition: transform 0.3s ease;*

*}*

*.appointment-card:hover {*

*transform: translateY(-5px);*

*/\* Slight hover effect \*/*

*}*

*.property-title {*

*font-size: 1.5rem;*

*margin-bottom: 10px;*

*}*

*.form-field {*

*margin-bottom: 15px;*

*}*

*.form-label {*

*font-weight: bold;*

*}*

*.property-price,*

*.property-location {*

*color: #d9534f;*

*font-weight: bold;*

*}*

*</style>*

*</head>*

*<body>*

*<header>*

*<h1>View Appointments</h1>*

*</header>*

*<div class="container">*

*<br>*

*<div class="grid-container">*

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

*<%@ page import="java.sql.\*" %>*

*<%*

*Connection con = null;*

*PreparedStatement pstmt = null;*

*ResultSet rs = null;*

*try {*

*// Load JDBC Driver*

*Class.forName("com.mysql.cj.jdbc.Driver");*

*// Establish Connection*

*con = DriverManager.getConnection(*

*"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");*

*// Prepare SQL query to fetch appointments*

*String query = "SELECT a.name, a.email, a.phone, a.appointment\_date, a.appointment\_time, a.message, p.property\_name, p.address, p.price " +*

*"FROM appointments a JOIN properties p ON a.property\_id = p.property\_id " +*

*"WHERE p.seller\_id = ?";*

*pstmt = con.prepareStatement(query);*

*pstmt.setInt(1, Integer.parseInt(request.getParameter("user\_id")));*

*// Execute Query*

*rs = pstmt.executeQuery();*

*// Display appointments*

*while (rs.next()) {*

*%>*

*<div class="appointment-card">*

*<div class="property-title">*

*<%= rs.getString("property\_name") %>*

*</div>*

*<div class="form-field">*

*<span class="form-label">Name:</span>*

*<%= rs.getString("name") %>*

*</div>*

*<div class="form-field">*

*<span class="form-label">Email:</span>*

*<%= rs.getString("email") %>*

*</div>*

*<div class="form-field">*

*<span class="form-label">Phone:</span>*

*<%= rs.getString("phone") %>*

*</div>*

*<div class="form-field">*

*<span class="form-label">Appointment Date:</span>*

*<%= rs.getDate("appointment\_date") %>*

*</div>*

*<div class="form-field">*

*<span class="form-label">Appointment Time:</span>*

*<%= rs.getTime("appointment\_time") %>*

*</div>*

*<div class="form-field">*

*<span class="form-label">Message:</span>*

*<%= rs.getString("message") %>*

*</div>*

*<div class="form-field property-location">*

*<i class="fas fa-map-marker-alt"></i>*

*<%= rs.getString("address") %>*

*</div>*

*<div class="form-field property-price">*

*₹*

*<%= rs.getDouble("price") %>*

*</div>*

*</div>*

*<%*

*}*

*} catch (ClassNotFoundException e) {*

*%>*

*<p>Driver not found:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*} catch (SQLException e) {*

*%>*

*<p>SQL Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*} finally {*

*// Close resources*

*try {*

*if (rs != null) rs.close();*

*if (pstmt != null) pstmt.close();*

*if (con != null) con.close();*

*} catch (SQLException e) {*

*%>*

*<p>Closing Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*}*

*}*

*%>*

*</div>*

*</div>*

*</body>*

*</html>*

*src/main/webapp/available\_properties.jsp*

*<%@ 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>Javabrokers - Property Listings</title>*

*<link rel="stylesheet" href="styles.css">*

*<style>*

*/\* Include all the CSS styles from the provided HTML \*/*

*\* {*

*margin: 0;*

*padding: 0;*

*box-sizing: border-box;*

*align-items: center;*

*}*

*body {*

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

*background-color: #fff;*

*color: #0c0b0b;*

*}*

*/\* ... other styles ... \*/*

*</style>*

*</head>*

*<body>*

*<header>*

*<div class="logo">*

*<h1 onclick="reloadPage()">Javabrokers</h1>*

*</div>*

*<div class="search-container">*

*<input type="text" placeholder="Search property..." id="searchProperty">*

*<div class="budget-dropdown">*

*<select id="budget">*

*<option value="">Budget</option>*

*<option value="1">Under 10,000</option>*

*<option value="2">10,000 - 20,000</option>*

*<option value="3">20,000 - 30,000</option>*

*<option value="4">Over 30,000</option>*

*</select>*

*</div>*

*<button onclick="searchProperties()">Search</button>*

*</div>*

*<div class="login-signup">*

*<a href="index.jsp">Logout</a>*

*</div>*

*</header>*

*<!-- Slideshow Section -->*

*<div class="slideshow-container">*

*<div class="slides fade">*

*<img src="12.webp" alt="Image 2">*

*</div>*

*<div class="slides fade">*

*<img src="13.webp" alt="Image 3">*

*</div>*

*<!-- Next and previous buttons -->*

*<a class="prev" onclick="changeSlide(-1)">&#10094;</a>*

*<a class="next" onclick="changeSlide(1)">&#10095;</a>*

*</div>*

*<main>*

*<h2 class="underline">AVAILABLE PROPERTIES</h2>*

*<div class="property-grid">*

*<%*

*Connection con = null;*

*PreparedStatement pstmt = null;*

*ResultSet rs = null;*

*try {*

*// Load JDBC Driver*

*Class.forName("com.mysql.cj.jdbc.Driver");*

*// Establish Connection*

*con = DriverManager.getConnection(*

*"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");*

*String search = request.getParameter("search");*

*String budget = request.getParameter("budget");*

*// Prepare SQL query to fetch available properties with filters*

*StringBuilder queryBuilder = new StringBuilder("SELECT property\_id, property\_name, description, address, price, property\_type FROM properties WHERE status = 'available'");*

*if (search != null && !search.isEmpty()) {*

*queryBuilder.append(" AND property\_name LIKE ?");*

*}*

*if (budget != null && !budget.isEmpty()) {*

*switch (budget) {*

*case "1":*

*queryBuilder.append(" AND price < 10000");*

*break;*

*case "2":*

*queryBuilder.append(" AND price BETWEEN 10000 AND 20000");*

*break;*

*case "3":*

*queryBuilder.append(" AND price BETWEEN 20000 AND 30000");*

*break;*

*case "4":*

*queryBuilder.append(" AND price > 30000");*

*break;*

*}*

*}*

*pstmt = con.prepareStatement(queryBuilder.toString());*

*int paramIndex = 1;*

*if (search != null && !search.isEmpty()) {*

*pstmt.setString(paramIndex++, "%" + search + "%");*

*}*

*// Execute Query*

*rs = pstmt.executeQuery();*

*// Display available properties*

*while (rs.next()) {*

*int property\_id = rs.getInt("property\_id");*

*%>*

*<div class="property-card">*

*<h3>*

*<%= rs.getString("property\_name") %>*

*</h3>*

*<p>Location:*

*<%= rs.getString("address") %>*

*</p>*

*<p class="price">Price: ₹*

*<%= rs.getDouble("price") %>*

*</p>*

*<!-- Pass the property\_id directly in the function call -->*

*<button class="buy-btn" onclick="redirectToProperty(<%= property\_id %>)">Buy Now</button>*

*</div>*

*<%*

*}*

*} catch (ClassNotFoundException e) {*

*%>*

*<p>Driver not found:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*} catch (SQLException e) {*

*%>*

*<p>SQL Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*} finally {*

*// Close resources*

*try {*

*if (rs != null) rs.close();*

*if (pstmt != null) pstmt.close();*

*if (con != null) con.close();*

*} catch (SQLException e) {*

*%>*

*<p>Closing Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*}*

*}*

*%>*

*<script>*

*function redirectToProperty(propertyId) {*

*window.location.href = "property.jsp?property\_id=" + propertyId;*

*}*

*</script>*

*</div>*

*</main>*

*<footer>*

*<div class="footer-container">*

*<div class="footer-section about">*

*<h3>About Javabrokers</h3>*

*<p>Javabrokers is your trusted real estate partner. We bring you the best properties at affordable prices, with unparalleled customer service and an easy buying process. Your dream home is just a click away.</p>*

*</div>*

*<div class="footer-section contact">*

*<h3>Contact Us</h3>*

*<p>Email: <a href="mailto:info@javabrokers.com">info@javabrokers.com</a></p>*

*<p>Phone: +91-123-456-7890</p>*

*<p>Address: 1234, Real Estate Avenue, City, Country</p>*

*</div>*

*</div>*

*<div class="footer-bottom">*

*<p>&copy; 2024 Javabrokers. All Rights Reserved. | Designed with ❤ by Javabrokers Team.</p>*

*</div>*

*</footer>*

*<script>*

*// Include all the JavaScript functions from the provided HTML*

*let slideIndex = 0;*

*showSlides();*

*function showSlides() {*

*let i;*

*let slides = document.getElementsByClassName("slides");*

*for (i = 0; i < slides.length; i++) {*

*slides[i].style.display = "none";*

*}*

*slideIndex++;*

*if (slideIndex > slides.length) {*

*slideIndex = 1;*

*}*

*slides[slideIndex - 1].style.display = "block";*

*setTimeout(showSlides, 4000); // Change image every 4 seconds*

*}*

*function changeSlide(n) {*

*slideIndex += n;*

*if (slideIndex < 1) {*

*slideIndex = slides.length;*

*}*

*if (slideIndex > slides.length) {*

*slideIndex = 1;*

*}*

*showSlides();*

*}*

*function searchProperties() {*

*let searchQuery = document.getElementById('searchProperty').value;*

*let selectedBudget = document.getElementById('budget').value;*

*// Redirect to the same page with query parameters*

*window.location.href = `available\_properties.jsp?search=${encodeURIComponent(searchQuery)}&budget=${encodeURIComponent(selectedBudget)}`;*

*}*

*function reloadPage() {*

*// Reload the page without any query parameters*

*window.location.href = "available\_properties.jsp";*

*}*

*</script>*

*</body>*

*</html>*

*src/main/webapp/edit\_property\_form.jsp*

*<%@ page import="java.sql.\*" %>*

*<%@ 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>Edit Property</title>*

*<style>*

*body {*

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

*background: linear-gradient(135deg, #ffffff, #ffcccc);*

*display: flex;*

*justify-content: center;*

*align-items: center;*

*height: 100vh;*

*margin: 0;*

*}*

*.container {*

*background-color: #fff;*

*padding: 40px;*

*border-radius: 12px;*

*box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);*

*width: 600px;*

*text-align: center;*

*}*

*h2 {*

*color: #d9534f;*

*margin-bottom: 20px;*

*}*

*input[type="text"],*

*input[type="number"],*

*textarea,*

*select {*

*width: 100%;*

*padding: 10px;*

*margin: 10px 0;*

*border: 1px solid #ddd;*

*border-radius: 6px;*

*}*

*textarea {*

*height: 100px;*

*}*

*button {*

*width: 100%;*

*padding: 12px;*

*background-color: #d9534f;*

*color: white;*

*border: none;*

*border-radius: 6px;*

*font-size: 16px;*

*cursor: pointer;*

*margin-top: 10px;*

*}*

*button:hover {*

*background-color: #c9302c;*

*}*

*</style>*

*</head>*

*<body>*

*<div class="container">*

*<h2>Edit Property</h2>*

*<%*

*int propertyId = Integer.parseInt(request.getParameter("property\_id"));*

*Connection con = null;*

*PreparedStatement pstmt = null;*

*ResultSet rs = null;*

*String propertyName = "", description = "", address = "", propertyType = "", status = "available";*

*double price = 0.0;*

*try {*

*// Load JDBC Driver*

*Class.forName("com.mysql.cj.jdbc.Driver");*

*// Establish Connection*

*con = DriverManager.getConnection(*

*"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");*

*// Prepare SQL query to fetch property details*

*String query = "SELECT property\_name, description, address, price, property\_type, status FROM properties WHERE property\_id = ?";*

*pstmt = con.prepareStatement(query);*

*pstmt.setInt(1, propertyId);*

*// Execute Query*

*rs = pstmt.executeQuery();*

*// Fetch property details*

*if (rs.next()) {*

*propertyName = rs.getString("property\_name");*

*description = rs.getString("description");*

*address = rs.getString("address");*

*price = rs.getDouble("price");*

*propertyType = rs.getString("property\_type");*

*status = rs.getString("status");*

*} else {*

*%>*

*<p>Property not found.</p>*

*<%*

*}*

*} catch (ClassNotFoundException e) {*

*%>*

*<p>Driver not found:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*} catch (SQLException e) {*

*%>*

*<p>SQL Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*} finally {*

*// Close resources*

*try {*

*if (rs != null) rs.close();*

*if (pstmt != null) pstmt.close();*

*if (con != null) con.close();*

*} catch (SQLException e) {*

*%>*

*<p>Closing Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*}*

*}*

*if ("POST".equalsIgnoreCase(request.getMethod())) {*

*String newPropertyName = request.getParameter("property\_name");*

*String newDescription = request.getParameter("description");*

*String newAddress = request.getParameter("address");*

*double newPrice = Double.parseDouble(request.getParameter("price"));*

*String newPropertyType = request.getParameter("property\_type");*

*String newStatus = request.getParameter("status");*

*try {*

*// Establish Connection*

*con = DriverManager.getConnection(*

*"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");*

*// Prepare SQL query to update property*

*String updateQuery = "UPDATE properties SET property\_name = ?, description = ?, address = ?, price = ?, property\_type = ?, status = ? WHERE property\_id = ?";*

*pstmt = con.prepareStatement(updateQuery);*

*pstmt.setString(1, newPropertyName);*

*pstmt.setString(2, newDescription);*

*pstmt.setString(3, newAddress);*

*pstmt.setDouble(4, newPrice);*

*pstmt.setString(5, newPropertyType);*

*pstmt.setString(6, newStatus);*

*pstmt.setInt(7, propertyId);*

*// Execute Update*

*int rowsUpdated = pstmt.executeUpdate();*

*if (rowsUpdated > 0) {*

*response.sendRedirect("admin\_viewAllProperties.jsp");*

*return; // Ensure no further code is executed*

*} else {*

*%>*

*<script>*

*alert('Failed to update property. Please try again.');*

*</script>*

*<%*

*}*

*} catch (SQLException e) {*

*%>*

*<p>SQL Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*} finally {*

*// Close resources*

*try {*

*if (pstmt != null) pstmt.close();*

*if (con != null) con.close();*

*} catch (SQLException e) {*

*%>*

*<p>Closing Error:*

*<%= e.getMessage() %>*

*</p>*

*<%*

*}*

*}*

*}*

*%>*

*<form method="post">*

*<label for="property\_name">Property Name</label>*

*<input type="text" id="property\_name" name="property\_name" value="<%= propertyName %>" required>*

*<label for="description">Description</label>*

*<textarea id="description" name="description"><%= description %></textarea>*

*<label for="address">Address</label>*

*<input type="text" id="address" name="address" value="<%= address %>" required>*

*<label for="price">Price</label>*

*<input type="number" id="price" name="price" value="<%= price %>" step="0.01" required>*

*<label for="property\_type">Property Type</label>*

*<input type="text" id="property\_type" name="property\_type" value="<%= propertyType %>" required>*

*<label for="status">Status</label>*

*<select id="status" name="status">*

*<option value="available" <%= "available".equals(status) ? "selected" : "" %>>Available</option>*

*<option value="sold" <%= "sold".equals(status) ? "selected" : "" %>>Sold</option>*

*</select>*

*<button type="submit">Update Property</button>*

*</form>*

*</div>*

*</body>*

*</html>*

*src/main/webapp/edit\_user\_form.jsp*

***<%@ page import="java.sql.\*" %>***

***<%@ 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>Edit User</title>***

***<style>***

***body {***

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

***background-color: #f8f9fa;***

***display: flex;***

***justify-content: center;***

***align-items: center;***

***height: 100vh;***

***margin: 0;***

***}***

***.container {***

***background-color: #fff;***

***padding: 40px;***

***border-radius: 12px;***

***box-shadow: 0 8px 20px rgba(0, 0, 0, 0.1);***

***width: 500px;***

***text-align: center;***

***}***

***h2 {***

***color: #d9534f;***

***margin-bottom: 20px;***

***}***

***input[type="text"],***

***input[type="email"],***

***input[type="tel"],***

***input[type="password"],***

***select {***

***width: 100%;***

***padding: 10px;***

***margin: 10px 0;***

***border: 1px solid #ddd;***

***border-radius: 6px;***

***}***

***button {***

***width: 100%;***

***padding: 12px;***

***background-color: #d9534f;***

***color: white;***

***border: none;***

***border-radius: 6px;***

***font-size: 16px;***

***cursor: pointer;***

***margin-top: 10px;***

***}***

***button:hover {***

***background-color: #c9302c;***

***}***

***</style>***

***</head>***

***<body>***

***<div class="container">***

***<h2>Edit User</h2>***

***<%***

***int userId = Integer.parseInt(request.getParameter("user\_id"));***

***Connection con = null;***

***PreparedStatement pstmt = null;***

***ResultSet rs = null;***

***String userName = "", userEmail = "", userPhone = "", userPassword = "";***

***try {***

***// Load JDBC Driver***

***Class.forName("com.mysql.cj.jdbc.Driver");***

***// Establish Connection***

***con = DriverManager.getConnection(***

***"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***// Prepare SQL query to fetch user details***

***String query = "SELECT name, email, phone, password FROM users WHERE user\_id = ?";***

***pstmt = con.prepareStatement(query);***

***pstmt.setInt(1, userId);***

***// Execute Query***

***rs = pstmt.executeQuery();***

***// Fetch user details***

***if (rs.next()) {***

***userName = rs.getString("name");***

***userEmail = rs.getString("email");***

***userPhone = rs.getString("phone");***

***userPassword = rs.getString("password");***

***} else {***

***%>***

***<p>User not found.</p>***

***<%***

***}***

***} catch (ClassNotFoundException e) {***

***%>***

***<p>Driver not found:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} catch (SQLException e) {***

***%>***

***<p>SQL Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} finally {***

***// Close resources***

***try {***

***if (rs != null) rs.close();***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***} catch (SQLException e) {***

***%>***

***<p>Closing Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***}***

***}***

***if ("POST".equalsIgnoreCase(request.getMethod())) {***

***String name = request.getParameter("name");***

***String email = request.getParameter("email");***

***String phone = request.getParameter("phone");***

***String password = request.getParameter("password");***

***String confirmPassword = request.getParameter("confirm\_password");***

***if (!password.equals(confirmPassword)) {***

***%>***

***<script>***

***alert('Passwords do not match. Please try again.');***

***</script>***

***<%***

***} else if (!email.matches("^[\\w-\\.]+@([\\w-]+\\.)+[\\w-]{2,4}$")) {***

***%>***

***<script>***

***alert('Invalid email format. Please try again.');***

***</script>***

***<%***

***} else if (!phone.matches("^\\+?[0-9]{10,15}$")) {***

***%>***

***<script>***

***alert('Invalid phone number. Please enter a valid number.');***

***</script>***

***<%***

***} else {***

***try {***

***// Establish Connection***

***con = DriverManager.getConnection(***

***"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***// Prepare SQL query to update user***

***String updateQuery = "UPDATE users SET name = ?, email = ?, phone = ?, password = ? WHERE user\_id = ?";***

***pstmt = con.prepareStatement(updateQuery);***

***pstmt.setString(1, name);***

***pstmt.setString(2, email);***

***pstmt.setString(3, phone);***

***pstmt.setString(4, password);***

***pstmt.setInt(5, userId);***

***// Execute Update***

***int rowsUpdated = pstmt.executeUpdate();***

***if (rowsUpdated > 0) {***

***response.sendRedirect("admin\_viewAllUsers.jsp");***

***return; // Ensure no further code is executed***

***} else {***

***%>***

***<script>***

***alert('Failed to update user. Please try again.');***

***</script>***

***<%***

***}***

***} catch (SQLException e) {***

***%>***

***<p>SQL Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} finally {***

***// Close resources***

***try {***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***} catch (SQLException e) {***

***%>***

***<p>Closing Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***}***

***}***

***}***

***}***

***%>***

***<form method="post">***

***<label for="name">Name</label>***

***<input type="text" id="name" name="name" value="<%= userName %>" required>***

***<label for="email">Email</label>***

***<input type="email" id="email" name="email" value="<%= userEmail %>" required>***

***<label for="phone">Phone</label>***

***<input type="tel" id="phone" name="phone" value="<%= userPhone %>">***

***<label for="password">New Password</label>***

***<input type="password" id="password" name="password" value="<%= userPassword %>" required>***

***<label for="confirm\_password">Confirm New Password</label>***

***<input type="password" id="confirm\_password" name="confirm\_password" required>***

***<button type="submit">Update User</button>***

***</form>***

***</div>***

***</body>***

***</html>***

***src/main/webapp/index.jsp***

***<%@ 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>Login</title>***

***<link rel="stylesheet" href="style.css">***

***<style>***

***input[type="radio"] {***

***margin-right: 10px;***

***}***

***</style>***

***</head>***

***<body>***

***<div class="container">***

***<div class="image-section">***

***<img src="illustration.png" alt="House Image">***

***</div>***

***<div class="form-section">***

***<h2>Login</h2>***

***<p>Sign in to continue</p>***

***<p>Dont have an account?? <a href="signup.jsp">Click Here</a></p>***

***<form method="post">***

***<label>I am</label>***

***<div class="radio-group">***

***<input type="radio" id="buyer" name="role" value="buyer" required>***

***<label for="buyer">Buyer</label>***

***<input type="radio" id="seller" name="role" value="seller" required>***

***<label for="seller">Seller</label>***

***<input type="radio" id="admin" name="role" value="admin" required>***

***<label for="admin">Admin</label>***

***</div>***

***<label for="email">Email</label>***

***<input type="email" id="email" name="email" required>***

***<label for="password">Password</label>***

***<input type="password" id="password" name="password" required>***

***<button type="submit">Login</button>***

***</form>***

***<%***

***if ("POST".equalsIgnoreCase(request.getMethod())) {***

***Connection con = null;***

***PreparedStatement pstmt = null;***

***ResultSet rs = null;***

***try {***

***// Load JDBC Driver***

***Class.forName("com.mysql.cj.jdbc.Driver");***

***// Retrieve parameters from request***

***String email = request.getParameter("email");***

***String password = request.getParameter("password");***

***String role = request.getParameter("role");***

***// Establish Connection***

***con = DriverManager.getConnection(***

***"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***// Prepare SQL query***

***String query = "SELECT user\_id, password FROM users WHERE email = ? AND role = ?";***

***pstmt = con.prepareStatement(query);***

***pstmt.setString(1, email);***

***pstmt.setString(2, role);***

***// Execute Query***

***rs = pstmt.executeQuery();***

***// Check if user exists and password matches***

***if (rs.next() && rs.getString("password").equals(password)) {***

***int userId = rs.getInt("user\_id");***

***// Redirect based on role***

***if ("buyer".equalsIgnoreCase(role)) {***

***response.sendRedirect("available\_properties.jsp?user\_id=" + userId);***

***} else if ("seller".equalsIgnoreCase(role)) {***

***response.sendRedirect("seller\_dashboard.jsp?user\_id=" + userId);***

***} else if ("admin".equalsIgnoreCase(role)) {***

***response.sendRedirect("admin\_dashboard.jsp?user\_id=" + userId);***

***}***

***} else {***

***%>***

***<script>***

***alert('Invalid email, password, or role. Please try again.');***

***</script>***

***<%***

***}***

***} catch (ClassNotFoundException e) {***

***%>***

***<p>Driver not found:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} catch (SQLException e) {***

***%>***

***<p>SQL Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} finally {***

***// Close resources***

***try {***

***if (rs != null) rs.close();***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***} catch (SQLException e) {***

***%>***

***<p>Closing Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***}***

***}***

***}***

***%>***

***</div>***

***</div>***

***</body>***

***</html>***

***src/main/webapp/property.jsp***

***<%@ page import="java.sql.\*" %>***

***<%@ 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>Property Details - Javabrokers</title>***

***<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">***

***<style>***

***\* {***

***margin: 0;***

***padding: 0;***

***box-sizing: border-box;***

***}***

***body {***

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

***background-color: #f9f9f9;***

***color: #333;***

***}***

***header {***

***background-color: #d9534f;***

***color: white;***

***padding: 1rem;***

***text-align: center;***

***}***

***.container {***

***display: flex;***

***justify-content: space-between;***

***margin: 20px;***

***}***

***.property-info {***

***width: 60%;***

***padding: 20px;***

***background-color: white;***

***border-radius: 10px;***

***box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);***

***}***

***.booking-form {***

***width: 35%;***

***padding: 20px;***

***background-color: white;***

***border-radius: 10px;***

***box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);***

***}***

***.booking-form h2 {***

***margin-bottom: 20px;***

***}***

***.booking-form input,***

***.booking-form textarea {***

***width: 100%;***

***padding: 10px;***

***margin-bottom: 15px;***

***border: 1px solid #ddd;***

***border-radius: 5px;***

***}***

***.booking-form button {***

***background-color: #d9534f;***

***color: white;***

***border: none;***

***padding: 10px 20px;***

***border-radius: 5px;***

***cursor: pointer;***

***}***

***.booking-form button:hover {***

***background-color: #c93c36;***

***}***

***</style>***

***</head>***

***<body>***

***<header>***

***<h1>Property Details</h1>***

***</header>***

***<div class="container">***

***<div class="property-info">***

***<%***

***int propertyId = Integer.parseInt(request.getParameter("property\_id"));***

***Connection con = null;***

***PreparedStatement pstmt = null;***

***ResultSet rs = null;***

***try {***

***Class.forName("com.mysql.cj.jdbc.Driver");***

***con = DriverManager.getConnection("jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***String query = "SELECT property\_name, description, address, price, property\_type, status, number\_of\_rooms, furnished\_status, property\_size FROM properties WHERE property\_id = ?";***

***pstmt = con.prepareStatement(query);***

***pstmt.setInt(1, propertyId);***

***rs = pstmt.executeQuery();***

***if (rs.next()) {***

***%>***

***<h2>***

***<%= rs.getString("property\_name") %>***

***</h2><br>***

***<div class="property-description">***

***<p>***

***<%= rs.getString("description") %>***

***</p><br>***

***<p><strong>Address:</strong>***

***<%= rs.getString("address") %>***

***</p><br>***

***<p><strong>Price:</strong> ₹***

***<%= rs.getDouble("price") %>***

***</p><br>***

***<p><strong>Type:</strong>***

***<%= rs.getString("property\_type") %>***

***</p><br>***

***<p><strong>Status:</strong>***

***<%= rs.getString("status") %>***

***</p><br>***

***<p><strong>Number of Rooms:</strong>***

***<%= rs.getString("number\_of\_rooms") %>***

***</p><br>***

***<p><strong>Furnished Status:</strong>***

***<%= rs.getString("furnished\_status") %>***

***</p><br>***

***<p><strong>Property Size:</strong>***

***<%= rs.getDouble("property\_size") %> sq ft</p>***

***</div>***

***<%***

***} else {***

***%>***

***<p>Property not found.</p>***

***<%***

***}***

***} catch (Exception e) {***

***%>***

***<p>Error:***

***<%= e.getMessage() %>***

***</p>***

***<pre>***

***<%***

***e.printStackTrace(new java.io.PrintWriter(out));***

***%>***

***</pre>***

***<%***

***} finally {***

***if (rs != null) rs.close();***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***}***

***%>***

***</div>***

***<div class="booking-form">***

***<h2>Book an Appointment</h2>***

***<form method="post">***

***<input type="hidden" name="property\_id" value="<%= propertyId %>">***

***<input type="text" name="name" placeholder="Your Name" required>***

***<input type="email" name="email" placeholder="Your Email" required>***

***<input type="tel" name="phone" placeholder="Your Phone" required>***

***<input type="text" name="appointment\_date" placeholder="YYYY-MM-DD" required>***

***<input type="text" name="appointment\_time" placeholder="HH:MM:SS" required>***

***<textarea name="message" placeholder="Your Message" rows="4"></textarea>***

***<button type="submit">Submit</button>***

***</form>***

***<%***

***if ("POST".equalsIgnoreCase(request.getMethod())) {***

***String name = request.getParameter("name");***

***String email = request.getParameter("email");***

***String phone = request.getParameter("phone");***

***String appointmentDate = request.getParameter("appointment\_date");***

***String appointmentTime = request.getParameter("appointment\_time");***

***String message = request.getParameter("message");***

***if (name != null && !name.isEmpty() &&***

***email != null && !email.isEmpty() &&***

***phone != null && !phone.isEmpty() &&***

***appointmentDate != null && !appointmentDate.isEmpty() &&***

***appointmentTime != null && !appointmentTime.isEmpty()) {***

***try {***

***Class.forName("com.mysql.cj.jdbc.Driver");***

***con = DriverManager.getConnection("jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***// Convert date and time from text to SQL Date and Time***

***Date sqlAppointmentDate = Date.valueOf(appointmentDate); // Format must be YYYY-MM-DD***

***Time sqlAppointmentTime = Time.valueOf(appointmentTime); // Format must be HH:MM:SS***

***String insertQuery = "INSERT INTO appointments (property\_id, name, email, phone, appointment\_date, appointment\_time, message) " +***

***"VALUES (?, ?, ?, ?, ?, ?, ?)";***

***pstmt = con.prepareStatement(insertQuery);***

***pstmt.setInt(1, propertyId);***

***pstmt.setString(2, name);***

***pstmt.setString(3, email);***

***pstmt.setString(4, phone);***

***pstmt.setDate(5, sqlAppointmentDate);***

***pstmt.setTime(6, sqlAppointmentTime);***

***pstmt.setString(7, message);***

***int rowsAffected = pstmt.executeUpdate();***

***if (rowsAffected > 0) {***

***out.println("<p>Appointment booked successfully!</p>");***

***} else {***

***out.println("<p>Failed to book the appointment. Please try again.</p>");***

***}***

***} catch (Exception e) {***

***out.println("<p>Error: " + e.getMessage() + "</p>");***

***out.println("<pre>");***

***e.printStackTrace(new java.io.PrintWriter(out));***

***out.println("</pre>");***

***} finally {***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***}***

***} else {***

***out.println("<p>All fields are required. Please fill the form completely.</p>");***

***}***

***}***

***%>***

***</div>***

***</div>***

***</body>***

***</html>***

***src/main/webapp/seller\_dashboard.jsp***

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

***<%@ page import="java.sql.\*" %>***

***<%***

***int propertyId = Integer.parseInt(request.getParameter("user\_id"));***

***%>***

***<!DOCTYPE html>***

***<html lang="en">***

***<head>***

***<meta charset="UTF-8">***

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

***<title>Javabrokers - Manage Your Property</title>***

***<link rel="stylesheet" href="styles.css">***

***</head>***

***<body>***

***<header>***

***<div class="logo">***

***<h1 onclick="reloadPage()">Javabrokers</h1>***

***</div>***

***<div class="login-signup">***

***<a href="upload\_property.jsp?user\_id=<%= propertyId %>">Upload New Property</a>***

***</div>***

***<div class="login-signup">***

***<a href="appointments\_list.jsp?user\_id=<%= propertyId %>">My Appointments</a>***

***</div>***

***<div class="login-signup">***

***<a href="index.jsp">Logout</a>***

***</div>***

***</header>***

***<!-- Slideshow Section -->***

***<div class="slideshow-container">***

***<!-- Removed image slides -->***

***<!-- Next and previous buttons -->***

***<a class="prev" onclick="changeSlide(-1)">&#10094;</a>***

***<a class="next" onclick="changeSlide(1)">&#10095;</a>***

***</div>***

***<main>***

***<h2 class="underline">Your Properties</h2>***

***<div class="property-grid">***

***<%***

***Connection con = null;***

***PreparedStatement pstmt = null;***

***ResultSet rs = null;***

***try {***

***// Load JDBC Driver***

***Class.forName("com.mysql.cj.jdbc.Driver");***

***// Establish Connection***

***con = DriverManager.getConnection(***

***"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***String userId = request.getParameter("user\_id");***

***// Prepare SQL query to fetch properties listed by the user***

***String query = "SELECT property\_id, property\_name, description, address, price, property\_type, status FROM properties WHERE seller\_id = ? AND status = 'available'";***

***pstmt = con.prepareStatement(query);***

***pstmt.setString(1, userId);***

***// Execute Query***

***rs = pstmt.executeQuery();***

***// Display properties***

***while (rs.next()) {***

***int property\_id = rs.getInt("property\_id");***

***%>***

***<div class="property-card">***

***<h3>***

***<%= rs.getString("property\_name") %>***

***</h3>***

***<p>Location:***

***<%= rs.getString("address") %>***

***</p>***

***<p class="price">Price: ₹***

***<%= rs.getDouble("price") %>***

***</p>***

***<p>Status:***

***<%= rs.getString("status") %>***

***</p>***

***</div>***

***<%***

***}***

***} catch (ClassNotFoundException e) {***

***%>***

***<p>Driver not found:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} catch (SQLException e) {***

***%>***

***<p>SQL Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} finally {***

***// Close resources***

***try {***

***if (rs != null) rs.close();***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***} catch (SQLException e) {***

***%>***

***<p>Closing Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***}***

***}***

***%>***

***</div>***

***</main>***

***<footer>***

***<div class="footer-container">***

***<div class="footer-section about">***

***<h3>About Javabrokers</h3>***

***<p>Javabrokers is your trusted real estate partner. We bring you the best properties at affordable prices, with unparalleled customer service and an easy buying process. Your dream home is just a click away.</p>***

***</div>***

***<div class="footer-section contact">***

***<h3>Contact Us</h3>***

***<p>Email: <a href="mailto:info@javabrokers.com">info@javabrokers.com</a></p>***

***<p>Phone: +91-123-456-7890</p>***

***<p>Address: 1234, Real Estate Avenue, City, Country</p>***

***</div>***

***</div>***

***<div class="footer-bottom">***

***<p>&copy; 2024 Javabrokers. All Rights Reserved. | Designed with ❤️ by Javabrokers Team.</p>***

***</div>***

***</footer>***

***<script>***

***// Include your JavaScript functions here***

***// ... existing scripts ...***

***</script>***

***</body>***

***</html>***

***src/main/webapp/signup.jsp***

***<%@ 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>Sign Up</title>***

***<link rel="stylesheet" href="style.css">***

***<style>***

***input[type="radio"] {***

***margin-right: 10px;***

***}***

***</style>***

***</head>***

***<body>***

***<div class="container">***

***<div class="image-section">***

***<img src="illustration.png" alt="House Image">***

***</div>***

***<div class="form-section">***

***<h2>Create new Account</h2>***

***<p>Already Registered? <a href="index.jsp">Login</a></p>***

***<form method="post">***

***<label for="username">Username</label>***

***<input type="text" id="username" name="username" required>***

***<label>I am a</label>***

***<div class="radio-group">***

***<input type="radio" id="buyer" name="role" value="buyer" required>***

***<label for="buyer">Buyer</label>***

***<input type="radio" id="seller" name="role" value="seller" required>***

***<label for="seller">Seller</label>***

***</div>***

***<label for="email">Email</label>***

***<input type="email" id="email" name="email" required>***

***<label for="number">Mobile Number</label>***

***<input type="text" id="number" name="number" required>***

***<label for="password">Password</label>***

***<input type="password" id="password" name="password" required>***

***<label for="confirm-password">Confirm Password</label>***

***<input type="password" id="confirm-password" name="confirm-password" required>***

***<button type="submit">Sign Up</button>***

***</form>***

***<%***

***if ("POST".equalsIgnoreCase(request.getMethod())) {***

***Connection con = null;***

***PreparedStatement pstmt = null;***

***try {***

***// Load JDBC Driver***

***Class.forName("com.mysql.cj.jdbc.Driver");***

***// Retrieve parameters from request***

***String username = request.getParameter("username");***

***String email = request.getParameter("email");***

***String number = request.getParameter("number");***

***String password = request.getParameter("password");***

***String confirmPassword = request.getParameter("confirm-password");***

***String role = request.getParameter("role");***

***// Check if passwords match***

***if (!password.equals(confirmPassword)) {***

***%>***

***<script>***

***alert('Passwords do not match. Please try again.');***

***</script>***

***<%***

***} else {***

***// Establish Connection***

***con = DriverManager.getConnection(***

***"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***// Prepare SQL query***

***String query = "INSERT INTO users (name, email, phone, password, role) VALUES (?, ?, ?, ?, ?)";***

***pstmt = con.prepareStatement(query, Statement.RETURN\_GENERATED\_KEYS);***

***pstmt.setString(1, username);***

***pstmt.setString(2, email);***

***pstmt.setString(3, number);***

***pstmt.setString(4, password);***

***pstmt.setString(5, role);***

***// Execute Update***

***int rows = pstmt.executeUpdate();***

***if (rows > 0) {***

***// Retrieve generated user\_id***

***ResultSet generatedKeys = pstmt.getGeneratedKeys();***

***if (generatedKeys.next()) {***

***int userId = generatedKeys.getInt(1);***

***// Redirect based on role with user\_id***

***if ("buyer".equalsIgnoreCase(role)) {***

***response.sendRedirect("available\_properties.jsp?user\_id=" + userId);***

***} else if ("seller".equalsIgnoreCase(role)) {***

***response.sendRedirect("seller\_dashboard.jsp?user\_id=" + userId);***

***}***

***}***

***} else {***

***%>***

***<script>***

***alert('Registration failed. Please try again.');***

***</script>***

***<%***

***}***

***}***

***} catch (ClassNotFoundException e) {***

***%>***

***<p>Driver not found:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} catch (SQLException e) {***

***%>***

***<p>SQL Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} finally {***

***// Close resources***

***try {***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***} catch (SQLException e) {***

***%>***

***<p>Closing Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***}***

***}***

***}***

***%>***

***</div>***

***</div>***

***</body>***

***</html>***

***src/main/webapp/style.css***

***\* {***

***margin: 0;***

***padding: 0;***

***box-sizing: border-box;***

***}***

***body {***

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

***background: linear-gradient(135deg, #ffffff, #ffcccc);***

***overflow: hidden;***

***}***

***.container {***

***display: flex;***

***height: 100vh;***

***background-color: white;***

***/\* Ensure no background color \*/***

***}***

***.image-section {***

***width: 50%;***

***background-color: white;***

***}***

***.image-section img {***

***width: 100%;***

***height: 100%;***

***object-fit: cover;***

***}***

***.form-section {***

***width: 50%;***

***padding: 50px;***

***background-color: #ffffff;***

***display: flex;***

***flex-direction: column;***

***justify-content: center;***

***border-top-right-radius: 20px;***

***border-bottom-right-radius: 20px;***

***}***

***h2 {***

***font-size: 32px;***

***color: #d9534f;***

***margin-bottom: 10px;***

***}***

***p {***

***font-size: 16px;***

***margin-bottom: 20px;***

***}***

***a {***

***color: #d9534f;***

***text-decoration: none;***

***}***

***form {***

***display: flex;***

***flex-direction: column;***

***}***

***label {***

***font-size: 16px;***

***margin-bottom: 5px;***

***}***

***input[type="text"],***

***input[type="email"],***

***input[type="password"],***

***input[type="number"]{***

***padding: 10px;***

***font-size: 14px;***

***border: 1px solid #ddd;***

***border-radius: 6px;***

***margin-bottom: 20px;***

***width: 100%;***

***}***

***.radio-group {***

***display: flex;***

***align-items: center;***

***margin-bottom: 20px;***

***}***

***.radio-group label {***

***margin-right: 15px;***

***font-size: 14px;***

***}***

***button {***

***padding: 10px;***

***font-size: 16px;***

***background-color: #d9534f;***

***color: #fff;***

***border: none;***

***border-radius: 6px;***

***cursor: pointer;***

***}***

***button:hover {***

***background-color: #c9302c;***

***}***

***src/main/webapp/styles.css***

***\* {***

***margin: 0;***

***padding: 0;***

***box-sizing: border-box;***

***align-items: center;***

***}***

***body {***

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

***background-color: #fff;***

***/\* Changed to white \*/***

***color: #0c0b0b;***

***}***

***/\* Modern Header Styles \*/***

***header {***

***background-color: #d9534f;***

***/\* Header background color (red) \*/***

***padding: 19px;***

***z-index: 1000;***

***display: flex;***

***align-items: center;***

***/\* Align items vertically center \*/***

***justify-content: space-between;***

***/\* Allows for spacing \*/***

***}***

***.logo h1 {***

***font-size: 1.25rem;***

***/\* Made font size a bit smaller \*/***

***color: white;***

***text-transform: uppercase;***

***letter-spacing: 1px;***

***font-weight: bold;***

***}***

***.location select {***

***padding: 0px;***

***/\* Padding for the select element \*/***

***border: 4px solid #d9534f;***

***/\* Red border \*/***

***margin-left: 40px;***

***border-radius: 20px;***

***background-color: transparent;***

***/\* Makes background transparent \*/***

***color: #ffffff;***

***/\* Text color \*/***

***font-size: 1rem;***

***/\* Smaller font size \*/***

***transition: background-color 0.3s ease;***

***}***

***.location select:focus {***

***outline: none;***

***/\* Remove outline on focus \*/***

***background-color: rgba(255, 255, 255, 0.1);***

***/\* Optional: slightly visible background on focus \*/***

***}***

***.location select option {***

***background-color: white;***

***/\* Ensure options have a white background \*/***

***color: #0c0b0b;***

***/\* Text color for options \*/***

***}***

***.search-container {***

***flex-grow: 1;***

***/\* Allow search-container to grow and take available space \*/***

***display: flex;***

***justify-content: center;***

***/\* Center search bar \*/***

***align-items: center;***

***gap: 10px;***

***margin: 0 20px;***

***/\* Add margin for side spacing \*/***

***}***

***nav ul {***

***list-style: none;***

***display: flex;***

***gap: 20px;***

***}***

***nav ul li {***

***margin: 0;***

***}***

***nav ul li a {***

***color: white;***

***/\* Links are white \*/***

***text-decoration: none;***

***font-weight: 500;***

***font-size: 0.9rem;***

***/\* Smaller font size \*/***

***padding: 10px 15px;***

***transition: background 0.3s ease;***

***border-radius: 8px;***

***}***

***nav ul li a:hover {***

***background-color: #c9302c;***

***/\* Darker red on hover \*/***

***}***

***.login-signup a {***

***color: white;***

***/\* Login link color \*/***

***text-decoration: none;***

***font-weight: 600;***

***padding: 10px 15px;***

***background-color: transparent;***

***transition: color 0.3s;***

***margin-left: 10px;***

***font-size: 0.9rem;***

***/\* Smaller font size \*/***

***}***

***.login-signup a:hover {***

***color: #c9302c;***

***/\* Darker red on hover \*/***

***}***

***.search-container {***

***display: flex;***

***align-items: center;***

***gap: 10px;***

***margin-left: 20px;***

***/\* Added margin for spacing \*/***

***}***

***.search-container input[type="text"],***

***.search-container select {***

***padding: 8px;***

***/\* Reduced padding \*/***

***border: 2px solid #d9534f;***

***/\* Red border \*/***

***border-radius: 20px;***

***background-color: white;***

***/\* Background for input and select \*/***

***color: #0c0b0b;***

***/\* Text color \*/***

***font-size: 0.9rem;***

***/\* Smaller font size \*/***

***transition: background-color 0.3s ease;***

***}***

***.search-container input[type="text"]::placeholder {***

***color: #ccc;***

***/\* Placeholder color \*/***

***}***

***.search-container button {***

***padding: 8px 15px;***

***/\* Reduced padding \*/***

***background-color: #d9534f;***

***/\* Button background (red) \*/***

***color: white;***

***/\* Button text color \*/***

***border: none;***

***border-radius: 20px;***

***cursor: pointer;***

***font-size: 0.9rem;***

***/\* Smaller font size \*/***

***transition: background-color 0.3s ease;***

***}***

***.search-container button:hover {***

***background-color: #c9302c;***

***/\* Darker red on hover \*/***

***}***

***.budget-dropdown {***

***position: relative;***

***}***

***.budget-dropdown select {***

***padding: 8px;***

***/\* Reduced padding \*/***

***border: 2px solid #d9534f;***

***/\* Red border \*/***

***border-radius: 20px;***

***background-color: white;***

***/\* Background for select \*/***

***color: #0c0b0b;***

***/\* Text color \*/***

***font-size: 0.9rem;***

***/\* Smaller font size \*/***

***}***

***.budget-dropdown::after {***

***position: absolute;***

***right: 10px;***

***top: 50%;***

***transform: translateY(-50%);***

***color: #0c0b0b;***

***/\* Arrow color \*/***

***pointer-events: none;***

***/\* Arrow doesn't block interaction \*/***

***}***

***@media (max-width: 768px) {***

***nav ul {***

***display: none;***

***}***

***.search-container {***

***display: none;***

***}***

***.login-signup {***

***margin-left: auto;***

***}***

***}***

***main {***

***padding: 2rem;***

***}***

***main h2 {***

***text-align: center;***

***margin-bottom: 2rem;***

***}***

***.property-grid {***

***display: grid;***

***grid-template-columns: repeat(3, 1fr);***

***gap: 20px;***

***padding: 20px;***

***/\* Added padding \*/***

***}***

***.property-card {***

***background-color: white;***

***padding: 15px;***

***border-radius: 10px;***

***box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);***

***text-align: center;***

***transition: transform 0.3s ease;***

***/\* Added transition \*/***

***}***

***.property-card:hover {***

***transform: scale(1.05);***

***/\* Added hover effect \*/***

***}***

***.property-card img {***

***width: 100%;***

***height: auto;***

***border-radius: 10px;***

***}***

***.property-card h3,***

***.property-card p {***

***margin: 10px 0;***

***}***

***.property-card .price {***

***font-weight: bold;***

***color: green;***

***margin-bottom: 10px;***

***}***

***.property-card button {***

***background-color: #c9302c;***

***color: white;***

***border: none;***

***padding: 10px 20px;***

***cursor: pointer;***

***border-radius: 5px;***

***}***

***.property-card button:hover {***

***background-color: #45a049;***

***}***

***footer {***

***background-color: #2e2e2e;***

***color: #ffffff;***

***padding: 40px 0;***

***}***

***.footer-container {***

***display: flex;***

***flex-wrap: wrap;***

***justify-content: space-around;***

***max-width: 1200px;***

***margin: 0 auto;***

***}***

***.footer-section {***

***flex: 1;***

***min-width: 250px;***

***margin: 20px;***

***}***

***.footer-section h3 {***

***font-size: 20px;***

***margin-bottom: 15px;***

***color: #ffbb33;***

***}***

***.footer-section p {***

***line-height: 1.8;***

***}***

***.footer-section a {***

***color: #ffffff;***

***text-decoration: none;***

***transition: color 0.3s ease;***

***}***

***.footer-section a:hover {***

***color: #ffbb33;***

***}***

***.footer-section ul {***

***list-style-type: none;***

***padding: 0;***

***}***

***.footer-section ul li {***

***margin-bottom: 10px;***

***}***

***.footer-bottom {***

***background-color: #1f1f1f;***

***text-align: center;***

***padding: 10px 0;***

***font-size: 14px;***

***margin-top: 20px;***

***border-top: 1px solid #444444;***

***}***

***.footer-bottom p {***

***margin: 0;***

***}***

***.footer-bottom p a {***

***color: #ffbb33;***

***text-decoration: none;***

***}***

***.footer-bottom p a:hover {***

***text-decoration: underline;***

***}***

***.slideshow-container {***

***width: 100%;***

***position: relative;***

***overflow: hidden;***

***}***

***.slides {***

***display: none;***

***width: 100%;***

***height: 400px;***

***/\* Fixed height \*/***

***}***

***.slideshow-container img {***

***width: 100%;***

***height: 100%;***

***object-fit: cover;***

***/\* Ensures the image fills the container without stretching \*/***

***}***

***.fade {***

***animation-name: fade;***

***animation-duration: 1.5s;***

***}***

***@keyframes fade {***

***from {***

***opacity: 0.4;***

***}***

***to {***

***opacity: 1;***

***}***

***}***

***/\* Next & Previous Buttons \*/***

***.prev,***

***.next {***

***cursor: pointer;***

***position: absolute;***

***top: 50%;***

***width: auto;***

***margin-top: -22px;***

***padding: 16px;***

***color: white;***

***font-weight: bold;***

***font-size: 18px;***

***transition: 0.6s ease;***

***border-radius: 0 3px 3px 0;***

***user-select: none;***

***}***

***.next {***

***right: 0;***

***border-radius: 3px 0 0 3px;***

***}***

***.prev {***

***left: 0;***

***border-radius: 3px 0 0 3px;***

***}***

***.prev:hover,***

***.next:hover {***

***background-color: rgba(210, 47, 47, 0.8);***

***}***

***.property-card {***

***width: 450px;***

***border: 2px solid #ddd;***

***border-radius: 10px;***

***overflow: hidden;***

***text-align: center;***

***box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);***

***transition: transform 0.3s ease;***

***}***

***.property-card:hover {***

***transform: scale(1.05);***

***}***

***.image-container {***

***position: relative;***

***width: 100%;***

***height: 200px;***

***}***

***.image-container img {***

***position: absolute;***

***top: 0;***

***left: 0;***

***width: 100%;***

***height: 100%;***

***object-fit: cover;***

***transition: opacity 1s ease;***

***opacity: 0;***

***}***

***.image-container img.active-image {***

***opacity: 1;***

***}***

***.property-card:hover .image-container img {***

***opacity: 0;***

***}***

***.property-card:hover .image-container img:nth-child(2) {***

***opacity: 1;***

***transition-delay: 0.1s;***

***}***

***.property-card:hover .image-container img:nth-child(3) {***

***opacity: 1;***

***transition-delay: 0.2s;***

***}***

***.property-card:hover .image-container img:nth-child(4) {***

***opacity: 1;***

***transition-delay: 0.3s;***

***}***

***/\* Ripple effect on click \*/***

***.buy-btn::after {***

***content: "";***

***position: absolute;***

***top: 50%;***

***left: 50%;***

***width: 300%;***

***height: 300%;***

***background-color: rgba(255, 255, 255, 0.5);***

***border-radius: 50%;***

***transform: translate(-50%, -50%) scale(0);***

***opacity: 0;***

***transition: transform 0.6s, opacity 0.6s;***

***}***

***.buy-btn:active::after {***

***transform: translate(-50%, -50%) scale(1);***

***opacity: 1;***

***transition: 0s;***

***}***

***.property-grid {***

***display: grid;***

***grid-template-columns: repeat(3, 1fr);***

***gap: 20px;***

***padding: 20px;***

***}***

***.underline {***

***text-align: center;***

***/\* Center the heading \*/***

***margin: 20px 0;***

***/\* Margin above and below \*/***

***font-size: 1.5rem;***

***/\* Adjust the font size as needed \*/***

***position: relative;***

***/\* Set position to relative for pseudo-element \*/***

***color: #0c0b0b;***

***/\* Text color \*/***

***}***

***.underline::after {***

***content: "";***

***/\* Empty content for the pseudo-element \*/***

***display: block;***

***/\* Make it a block element \*/***

***width: 50%;***

***/\* Width of the divider line \*/***

***height: 4px;***

***/\* Thickness of the divider \*/***

***background-color: #d9534f;***

***/\* Color of the divider (red) \*/***

***margin: 10px auto;***

***/\* Center it and add vertical spacing \*/***

***}***

***src/main/webapp/upload\_property.jsp***

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

***pageEncoding="UTF-8"%>***

***<%@ page import="java.sql.\*" %>***

***<%@ page import="java.math.BigDecimal" %>***

***<!DOCTYPE html>***

***<html lang="en">***

***<head>***

***<meta charset="UTF-8">***

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

***<title>Javabrokers - Manage Your Property</title>***

***<link rel="stylesheet" href="styles.css">***

***<style>***

***\* {***

***margin: 0;***

***padding: 0;***

***box-sizing: border-box;***

***}***

***body {***

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

***background-color: #ffffff;***

***color: #0c0b0b;***

***}***

***header {***

***background-color: #d9534f;***

***color: white;***

***padding: 2rem 4rem;***

***display: flex;***

***justify-content: center;***

***align-items: center;***

***position: relative;***

***}***

***header .logo h1 {***

***margin-left: 20px;***

***}***

***nav ul {***

***list-style-type: none;***

***display: flex;***

***margin: 0;***

***}***

***nav ul li {***

***margin-right: 20px;***

***position: relative;***

***}***

***nav ul li a {***

***color: white;***

***text-decoration: none;***

***}***

***nav .dropdown {***

***position: relative;***

***}***

***.dropdown-content {***

***display: none;***

***position: absolute;***

***background-color: #f9f9f9;***

***min-width: 160px;***

***z-index: 1;***

***}***

***.dropdown-content a {***

***color: black;***

***padding: 12px 16px;***

***text-decoration: none;***

***display: block;***

***}***

***.dropdown:hover .dropdown-content {***

***display: block;***

***}***

***.login-signup {***

***margin-right: 20px;***

***}***

***.login-signup a {***

***color: white;***

***text-decoration: none;***

***margin-left: 10px;***

***}***

***footer {***

***background-color: #2e2e2e;***

***color: #ffffff;***

***padding: 40px 0;***

***text-align: center;***

***}***

***.footer-container {***

***max-width: 1200px;***

***margin: 0 auto;***

***}***

***.footer-bottom {***

***background-color: #1f1f1f;***

***text-align: center;***

***padding: 10px 0;***

***font-size: 14px;***

***margin-top: 20px;***

***border-top: 1px solid #444444;***

***}***

***.footer-bottom p {***

***margin: 0;***

***}***

***.footer-bottom p a {***

***color: #ffbb33;***

***text-decoration: none;***

***}***

***.footer-bottom p a:hover {***

***text-decoration: underline;***

***}***

***main {***

***padding: 2rem;***

***text-align: center;***

***}***

***h2 {***

***margin-bottom: 2rem;***

***color: #d9534f;***

***}***

***.upload-form {***

***background-color: #ffffff;***

***padding: 20px;***

***border-radius: 10px;***

***box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);***

***color: #000;***

***max-width: 800px;***

***width: 100%;***

***margin-left: 310px;***

***}***

***.upload-form input,***

***.upload-form select,***

***.upload-form button {***

***width: 100%;***

***margin-bottom: 10px;***

***padding: 10px;***

***border: 2px solid #ccc;***

***border-radius: 5px;***

***}***

***.upload-form button {***

***background-color: #d9534f;***

***color: white;***

***border: none;***

***cursor: pointer;***

***}***

***.upload-form button:hover {***

***background-color: #d9534f;***

***}***

***header .logo {***

***position: absolute;***

***left: 50%;***

***transform: translateX(-50%);***

***}***

***nav {***

***margin-left: auto;***

***}***

***</style>***

***</head>***

***<body>***

***<header>***

***<div class="logo">***

***<h1>Javabrokers</h1>***

***</div>***

***</header>***

***<main>***

***<h2>Upload Your Property</h2>***

***<form class="upload-form" method="post">***

***<div class="form-section">***

***<input type="text" name="propertyName" placeholder="Property Name" required>***

***<input type="text" name="location" placeholder="Location" required>***

***<input type="number" name="price" placeholder="Price (₹)" required>***

***</div>***

***<div class="form-section">***

***<select name="propertyType" required>***

***<option value="">Select Property Type</option>***

***<option value="Apartment">Apartment</option>***

***<option value="House">House</option>***

***<option value="Commercial">Commercial</option>***

***<option value="Villa">Villa</option>***

***<option value="Penthouse">Penthouse</option>***

***<option value="Studio">Studio</option>***

***<option value="Farmhouse">Farmhouse</option>***

***</select>***

***<input type="text" name="rooms" placeholder="Number of Rooms" required>***

***<select name="furnishingStatus" required>***

***<option value="">Furnishing Status</option>***

***<option value="Furnished">Furnished</option>***

***<option value="Semi-Furnished">Semi-Furnished</option>***

***<option value="Non-Furnished">Non-Furnished</option>***

***</select>***

***<input type="number" name="propertySize" placeholder="Property Size (sq ft)" required>***

***<select name="parking" required>***

***<option value="">Parking Available</option>***

***<option value="Yes">Yes</option>***

***<option value="No">No</option>***

***</select>***

***</div>***

***<button type="submit">Upload Property</button>***

***</form>***

***<%***

***if ("POST".equalsIgnoreCase(request.getMethod())) {***

***Connection con = null;***

***PreparedStatement pstmt = null;***

***try {***

***// Load JDBC Driver***

***Class.forName("com.mysql.cj.jdbc.Driver");***

***// Retrieve parameters from request***

***String propertyName = request.getParameter("propertyName");***

***String location = request.getParameter("location");***

***String price = request.getParameter("price");***

***String propertyType = request.getParameter("propertyType");***

***String rooms = request.getParameter("rooms");***

***String furnishingStatus = request.getParameter("furnishingStatus");***

***String propertySize = request.getParameter("propertySize");***

***String parking = request.getParameter("parking");***

***// Establish Connection***

***con = DriverManager.getConnection(***

***"jdbc:mysql://localhost:3307/flatrentalmanagement", "root", "root");***

***// Prepare SQL query***

***String query = "INSERT INTO properties (seller\_id, property\_name, address, price, property\_type, number\_of\_rooms, furnished\_status, property\_size) VALUES (?, ?, ?, ?, ?, ?, ?, ?)";***

***pstmt = con.prepareStatement(query);***

***// Assuming seller\_id is available in session***

***int sellerId = Integer.parseInt(request.getParameter("user\_id"));***

***pstmt.setInt(1, sellerId);***

***pstmt.setString(2, propertyName);***

***pstmt.setString(3, location); // Assuming location is used as address***

***pstmt.setBigDecimal(4, new BigDecimal(price));***

***pstmt.setString(5, propertyType);***

***pstmt.setString(6, rooms);***

***pstmt.setString(7, furnishingStatus);***

***pstmt.setBigDecimal(8, new BigDecimal(propertySize));***

***// Execute Update***

***int rows = pstmt.executeUpdate();***

***if (rows > 0) {***

***// Redirect to seller\_dashboard.jsp with user\_id parameter***

***response.sendRedirect("seller\_dashboard.jsp?user\_id=" + sellerId);***

***} else {***

***%>***

***<script>***

***alert('Property upload failed. Please try again.');***

***</script>***

***<%***

***}***

***} catch (ClassNotFoundException e) {***

***%>***

***<p>Driver not found:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} catch (SQLException e) {***

***%>***

***<p>SQL Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***} finally {***

***// Close resources***

***try {***

***if (pstmt != null) pstmt.close();***

***if (con != null) con.close();***

***} catch (SQLException e) {***

***%>***

***<p>Closing Error:***

***<%= e.getMessage() %>***

***</p>***

***<%***

***}***

***}***

***}***

***%>***

***</main>***

***<footer>***

***<div class="footer-container">***

***<p>&copy; 2024 Javabrokers. All Rights Reserved. | Designed with ❤️ by Javabrokers Team.</p>***

***</div>***

***<div class="footer-bottom">***

***<p>&copy; 2024 Javabrokers. All Rights Reserved.</p>***

***</div>***

***</footer>***

***</body>***

***</html>***

***Pom.xml***

***<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"***

***xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4\_0\_0.xsd">***

***<modelVersion>4.0.0</modelVersion>***

***<groupId>org.example</groupId>***

***<artifactId>flatRental</artifactId>***

***<packaging>war</packaging>***

***<version>1.0-SNAPSHOT</version>***

***<name>flatRental Maven Webapp</name>***

***<url>http://maven.apache.org</url>***

***<dependencies>***

***<dependency>***

***<groupId>junit</groupId>***

***<artifactId>junit</artifactId>***

***<version>3.8.1</version>***

***<scope>test</scope>***

***</dependency>***

***<dependency>***

***<groupId>com.mysql</groupId>***

***<artifactId>mysql-connector-j</artifactId>***

***<version>8.2.0</version>***

***</dependency>***

***</dependencies>***

***<build>***

***<finalName>flatRental</finalName>***

***</build>***

***</project>***

**B.4 Conclusion:**

*In conclusion, the Flat Rental Management App successfully addresses the challenges of managing rental properties by providing an efficient, user-friendly platform for both tenants and landlords. Through the use of technologies like Java, JSP, MySQL, and CSS, we were able to develop a functional system that streamlines property listings, searches, and user management. The project has met its objectives of simplifying the rental process, offering transparency, and providing a centralized platform for all users, while also highlighting areas for future improvements and feature enhancements.*

**B.5 Observations and Learning**

During the development of the Flat Rental Management App, we observed several key insights and gained valuable learnings:

1. **Importance of User-Centric Design**: We learned the significance of designing an intuitive and user-friendly interface. By keeping the needs of both buyers and sellers in mind, we were able to create a platform that is easy to navigate, even for users with limited technical experience.
2. **Backend Integration with MySQL**: Working with MySQL and JDBC gave us a deeper understanding of database management, query optimization, and data integrity. We learned how to effectively integrate a relational database with a web application to store and retrieve data dynamically.
3. **Challenges in Real-Time Data Handling**: As we worked with dynamic user inputs and real-time data display, we encountered challenges related to data consistency and synchronization. We learned how to use Java and JSP effectively to manage data flow between the frontend and backend.
4. **Importance of Testing and Debugging**: Throughout the development process, we realized how crucial it is to perform rigorous testing. Whether it was for the login functionality or the property listing process, debugging and resolving issues helped us understand how to ensure smooth and error-free operation in real-world usage.
5. **Scalability and Future Development**: While we developed a functional system, we recognized the need for future enhancements, such as adding payment processing or improving security features. This experience taught us the importance of scalability and the potential for future upgrades to meet evolving user needs.

Overall, this project provided a hands-on learning experience, reinforcing our technical skills and giving us a better understanding of real-world application development.