

JAVA PROJECT REPORT FILE

PROJECT TITLE

Hotel Management System

SUBMITTED TO

Dr. Anjali Kapoor

Report on Hotel Management System

Problem Statement

The primary objective is to develop a modern, responsive hotel website for "Hotel Paradise," which allows users to explore the hotel's services, rooms, and facilities, make bookings, and contact the hotel. The website must integrate features like user registration, login, booking forms, and display user data efficiently. The solution should be scalable and maintainable, leveraging best practices in web development.

Abstract

This project involves designing and implementing a comprehensive hotel website named "Hotel Paradise." The website offers functionalities like browsing rooms, booking reservations, viewing user testimonials, and contacting the hotel. It incorporates front-end development with HTML, CSS, JavaScript, and back-end development using Java Servlets and JSP. The integration of a database ensures persistent storage of user data and booking information. The project adopts a modular approach, ensuring that each component is easily updatable and maintainable.

Solution Approach

Requirement Analysis: Gathered detailed requirements for the website's functionality, design, and user experience.

Front-end Development: Designed a modern and responsive user interface using HTML, CSS, and JavaScript. Special attention was given to user experience and aesthetics to ensure a seamless interaction.

Back-end Development: Implemented server-side logic using Java Servlets. The Servlets handle user requests, manage sessions, and interact with the database.

Database Integration: Developed a MySQL database to store user information, booking details, and other necessary data. JDBC was used to connect the Java Servlets with the database.

JSP Integration: Utilized JSP pages for dynamic content generation, integrating with the Servlets to display user data, booking information, and other personalized content.

Validation and Testing: Implemented form validation to ensure data integrity and conducted rigorous testing to identify and fix bugs, ensuring a smooth user experience.

Implementation

Frontend: HTML and CSS were used to create the structure and style of the website. JavaScript was utilized for interactive features like form validation and dynamic content updates.

Backend: Java Servlets were developed to handle HTTP requests and responses. The `doGet` and `doPost` methods were implemented to process user requests and handle form submissions.

Database: A MySQL database was set up to store user registrations, booking details, and other relevant information. SQL scripts were written to create and manage database tables.

JSP and JSTL: JSP pages were used for dynamic content rendering, with JSTL and EL enabling seamless integration of logic within the HTML structure.

Technology Stack

Frontend: HTML5, CSS3, JavaScript (ES6), Bootstrap

Backend: Java (Servlets, JSP), Apache Tomcat

Database: MySQL, JDBC

Tools: Maven, Eclipse IDE, Git for version control

Libraries/Frameworks: JSTL, EL, Bootstrap for responsive design

SUBMITTED BY:

TEAM- CODE CRUSHERS

- 1. SUMIT KUMAR MISHRA (23SCSE1180244)**
- 2. ABHINAV KUMAR (23SCSE1180158)**
- 3. ARYA GUPTA (23SCSE1180434)**
- 4. ABHAY RAWAT (23SCSE1180373)**