



INTERIOR DESIGN MANAGEMENT SYSTEM

INTERNSHIP PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this project report **"INTERIOR DESIGN MANAGEMENT SYSTEM "** is the bonafide work of **A.ANUPRIYA (95192201005), "** who carried out the project work under my supervision.

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ABSTRACT

The Interior Design Management System is a web-based application developed with Java Spring Boot for the backend, HTML, CSS, and JavaScript for the frontend, and MySQL as the database, ensuring seamless project management, client interactions, and service bookings. The backend efficiently handles business logic, user authentication, and database operations using Spring Security, JWT, JPA, and Hibernate, providing a secure and robust architecture. The frontend delivers an intuitive interface for users to explore design catalogs, manage projects, and book interior design services. MySQL serves as the database, storing essential information such as user details, project data, invoices, and transactions. The system includes key features like JWT-based authentication, role-based access control, project and service management, booking and payment integration, and real-time notifications, enhancing user experience and operational efficiency. Thorough testing and validation are conducted using Postman to ensure the smooth functioning of backend APIs. By offering an automated, user-friendly, and secure platform, this system streamlines the interior design process, optimizing business operations for designers and service providers while improving accessibility for clients. It enables efficient communication, project tracking, and seamless financial transactions, making interior design services more organized and easily manageable.

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CHAPTER 1

INTRODUCTION

1.1 Introduction to Web Development

Web development refers to the process of creating, building, and maintaining websites for the internet or intranet. It involves front-end development (user interface and experience), back-end development (server-side logic and database management), and full-stack development (both front-end and back-end). The primary goal of web development is to provide interactive, dynamic, and user-friendly web applications.

Web development can be categorized into:

- **Static Web Development:** Websites with fixed content, built using only HTML and CSS.
- **Dynamic Web Development:** Websites with interactive and real-time content updates, often built using JavaScript and server-side technologies like Java Spring Boot.
- **E-Commerce Development:** Websites for online shopping, requiring database management, payment integration, and user authentication.

Modern web development follows responsive design, ensuring compatibility across multiple devices, including desktops, tablets, and smartphones.

1.2 Introduction to HTML, CSS, and JavaScript

HTML (HyperText Markup Language)

HTML is the foundation of web pages, providing the basic structure using elements like headings, paragraphs, images, links, forms, and tables. It works alongside CSS and JavaScript to create fully functional websites.

CSS (Cascading Style Sheets)

CSS is used to design and style web pages, allowing customization of layout, fonts, colors, spacing, and animations. Modern CSS includes frameworks like Bootstrap and Tailwind CSS, which enhance the development speed by providing pre-designed components.

JavaScript (JS)

JavaScript is a client-side programming language that adds interactivity to web pages, enabling features like dynamic content updates, form validation, animations, and API integration. JavaScript frameworks like React, Angular, and Vue.js improve efficiency by providing structured development environments.

1.3 Introduction to Java (Spring Boot)

Java Overview

Java is a high-level, object-oriented programming language known for its platform independence through the Java Virtual Machine (JVM). It is widely used for backend web development due to its security, scalability, and extensive frameworks.

Spring Boot Framework

Spring Boot is a Java-based framework that simplifies backend development by providing built-in support for dependency management, embedded servers, and database connectivity. It allows developers to build robust, scalable, and production-ready web applications with minimal configuration.

Key Features of Spring Boot

- **Microservices Architecture:** Supports developing independent, modular services.
- **Embedded Web Server:** Comes with built-in Tomcat, Jetty, or Undertow servers.
- **Spring Security:** Ensures authentication and authorization mechanisms.
- **Spring Data JPA:** Simplifies database interactions.

Spring Boot is widely used for enterprise applications, e-commerce platforms, and RESTful web services.

1.4 Introduction to MySQL Database

Overview of MySQL

MySQL is an open-source relational database management system (RDBMS) that allows structured data storage using tables. It follows the Structured Query Language (SQL) for **managing and querying data**.

Why Use MySQL?

- Scalability: Can handle large volumes of data efficiently.
- Security: Provides encryption, authentication, and access control.
- Data Integrity: Supports ACID (Atomicity, Consistency, Isolation, Durability) properties.
- Integration: Works seamlessly with Java Spring Boot for database connectivity.

MySQL in the Project

In this project, MySQL is used to store and manage:

- User details (registration, login, authentication)
- Product information (gadget categories, descriptions, prices)
- Shopping cart details (selected items, quantities, total price)

1.5 Introduction to Project

The Interior Design Management System is a web-based platform designed to streamline interior design project management, client interactions, and service bookings. Developed using Java Spring Boot for the backend, HTML, CSS, and JavaScript for the frontend, and MySQL as the database, the system provides a seamless and efficient experience for designers, clients,

Key Features of the Project:

- User Authentication & Authorization: Secure login and registration using Spring Security and JWT with role-based access control (Admin, Designer, Client).
- Interior Design Service Management: Designers can add, edit, and manage available services with descriptions and pricing.
- Project Tracking & Management: Enables designers to track ongoing projects, update progress, and manage deadlines.
- Booking System: Clients can schedule consultations and book interior design services online.
- Payment Integration: Secure online transactions with invoice generation for completed projects.

CHAPTER 2

LITERATURE REVIEW

2.1 Introduction

Interior design management has evolved from traditional in-person consultations to digital platforms that streamline project management, client interactions, and service bookings. Advancements in web technologies, database management, and security mechanisms have transformed how designers and clients collaborate. Various studies highlight the importance of web-based service platforms, Spring Boot for backend development, MySQL for efficient database handling, and secure authentication mechanisms in improving business efficiency. This chapter explores existing research on interior design management systems, emphasizing Java-based web applications, Spring Boot integration, and secure transactions.

2.2 Traditional vs. Modern Online Shopping Systems

2.2.1 Traditional Interior Design Processes

- Clients had to visit design studios physically to discuss projects, which was time-consuming.
- Communication between designers and clients relied on manual documentation and in-person meetings.
- Project tracking and updates were difficult without automated management systems.
- Payment processing relied on cash or manual bank transfers, increasing inefficiencies.

2.2.2 Digital Transformation in Interior Design Management

- The rise of web-based platforms allows clients to explore interior design services online.
- Initial web applications provided static service catalogs, requiring manual appointment scheduling.
- Modern systems utilize Spring Boot for backend logic and JavaScript frameworks for interactive user experiences.
- Features like real-time booking, automated invoicing, and payment gateway integration enhance service efficiency.

2.3 Web-Based Interior Design Management Platforms

2.3.1 API-Driven Interior Design Systems

- Many modern interior design platforms leverage RESTful APIs for service management, user authentication, and payments.
- APIs facilitate integration with external tools like payment gateways (Stripe, PayPal) and notification services (Twilio, Firebase).
- Spring Boot REST controllers ensure secure communication between the frontend and backend.

2.3.2 Secure Transactions and Data Protection

- Security is critical in interior design platforms to protect client information and financial transactions.
- Encryption techniques like SSL, JWT authentication, and AES encryption are used for secure data handling.
- Spring Security framework enforces role-based access control and protects sensitive user credentials.

2.4 Importance of Database Management in Interior Design Systems

2.4.1 Role of MySQL in Data Storage

- MySQL efficiently stores user profiles, project details, invoices, and payment transactions.
- Relational database design ensures structured and optimized data management.
- SQL indexing improves search performance and enhances data retrieval speed.

2.4.2 Optimized Data Handling Techniques

- ORM (Object-Relational Mapping) with Hibernate ensures seamless database interactions.
- Caching mechanisms enhance performance by reducing repetitive queries.
- Backup and recovery strategies prevent data loss and maintain business continuity.

2.5 Java-Based Interior Design Management System

2.5.1 Spring Boot for Backend Development

- Spring Boot simplifies backend development by providing pre-configured settings, RESTful API support, and a microservices architecture.
- Java-based interior design management systems use Spring Boot controllers to handle service listings, user authentication, project tracking, and booking management.
- Integration with Spring Security ensures secure authentication and role-based access control for different user roles such as admin, designers, and clients.

2.5.2 Frontend Technologies for UI Design

- HTML, CSS, and JavaScript frameworks like Bootstrap ensure a responsive and user-friendly interface for clients and designers.
- AJAX-based asynchronous updates enable real-time booking status updates, project tracking, and service availability checks.
- Interactive dashboards allow administrators and designers to manage projects, track client requests, and update service listings efficiently.

2.6 Challenges in Existing Interior Design Management Systems

2.6.1 Security and Privacy Risks

- Interior design management systems handle sensitive client information, including personal details, payment transactions, and design preferences.
- Risk: Systems are vulnerable to hacking, phishing attacks, and unauthorized data access.
- Solution: Implementing Spring Security, JWT authentication, SSL encryption, and secure database storage to protect sensitive data.

2.6.2 Performance and Scalability Issues

- High traffic during peak seasons (such as home renovation periods) can slow down booking systems and project management workflows.

- Risk: Slow page loading, delayed responses, and inefficient handling of large datasets.
- Solution: MySQL indexing, optimized query execution, caching mechanisms, and cloud-based load balancing to improve system performance.

2.6.3 User Authentication and Role Management

- Unauthorized access to project details, client information, and payment records can lead to data breaches.
- Risk: Lack of proper role management may result in unauthorized modifications or exposure of sensitive data.
- Solution: Implementing role-based access control (RBAC) and two-factor authentication (2FA) for secure user access.

2.7 Future Enhancements in Interior Design Management Systems

- AI-driven recommendations to suggest interior design styles based on client preferences.
- Augmented Reality (AR) integration to visualize interior design concepts in real-world environments.
- Progressive Web Apps (PWAs) for a mobile-friendly experience without requiring a dedicated app.
- Chatbot and virtual assistant integration to assist clients in design selection and service inquiries.

CHAPTER 3

SYSTEM ANALYSIS

3.1 Existing System

3.1.1 Limitations of Traditional Interior Design Management Systems

- Many interior design platforms lack automation, requiring manual project tracking and consultation scheduling.
- Security vulnerabilities exist due to weak authentication, making sensitive client data prone to breaches.
- Database inefficiencies lead to slow query execution, affecting booking management and project updates.
- Most systems are not optimized for scalability, causing performance degradation with increasing client and project loads.

3.1.2 Challenges in Current Interior Design Management Systems

- **Security Risks:** Weak authentication and encryption can expose client details and financial transactions to cyber threats.
- **Inefficient Project Management:** Lack of real-time tracking makes it difficult to monitor design progress.
- **Limited Client Engagement:** Many platforms do not offer interactive service selection or real-time communication features.
- **Poor Performance Handling:** High user traffic can slow down response times due to inefficient database queries and API calls.

3.2 Proposed System

3.2.1 Overview of the Proposed Interior Design Management System

The proposed system is a web-based platform for interior design services, developed using Java (Spring Boot), MySQL, HTML, CSS, and JavaScript. It ensures secure user

authentication, seamless service booking, and optimized project tracking to overcome existing limitations.

3.2.2 Key Features of the Proposed System

- User Authentication & Access Control:
 - Secure login system using Spring Security and JWT authentication.
 - Restricts unauthorized users from accessing project details, payments, and client records.
- Efficient Service & Project Management:
 - Enables designers to add, edit, and categorize design services.
 - Allows clients to request consultations, track project progress, and receive updates.
- Appointment & Booking System:
 - Clients can schedule design consultations and book services.
 - Automated reminders notify users about upcoming appointments.
- Optimized Performance & Scalability:
 - Uses Spring Boot with MySQL indexing for fast data retrieval.
 - Optimized API calls reduce server load and improve response times.
- Secure Payment Gateway Integration:
 - Supports multiple payment methods for service transactions.
 - Implements SSL encryption for secure financial transactions.
- Interactive & User-Friendly Interface:
 - Developed with responsive UI components using HTML, CSS, and JavaScript.
 - Ensures smooth navigation across desktop, tablet, and mobile devices.

3.3 Objectives

The primary goal of this project is to develop a secure, efficient, and scalable interior design management system that enhances client-designer collaboration and improves business efficiency.

1.Enhancing Security

- Implementing JWT authentication to restrict unauthorized access.
- Encrypting sensitive user and financial data for secure transactions.

CHAPTER 4

MODULES

The Interior Design Management System consists of several key modules that streamline the operations of interior design businesses, providing seamless communication between designers and clients. Below are the essential modules:

Home Page

- **Definition:** The central landing page that greets users and provides an overview of the platform. It highlights the main features, navigation menu, and any promotional content or featured designs..

Login Page

- **Definition:** Manages user authentication. Allows existing users to log in securely and new users to register. Includes validation checks and often integrates with backend security (e.g., Spring Security, JWT).

About Page

- **Definition:** Showcases the company or team background, mission, vision, and core values. Helps users understand the platform's purpose and credibility.

Contact Page

- **Definition:** Provides communication channels—like a contact form, email address, phone number, or social media links—so users can inquire about services, report issues, or request additional information.

Packages Page

- **Definition:** Lists available interior design packages, including pricing tiers, service inclusions, and special offers. Helps users compare and choose a package that suits their needs.

Services Page

- **Definition:** Displays the range of interior design services offered (e.g., home renovation, office décor, custom furniture). Allows users to explore details such as descriptions, costs, and designer availability.

Booking Page

- **Definition:** Enables clients to schedule consultations or appointments with interior designers. Often includes date/time selection, booking confirmations, and reminders.

Cost Estimator Page

- **Definition:** Provides a tool for users to calculate approximate costs based on parameters like room size, design preferences, materials, and budget. Offers a breakdown of estimated expenses.

Cost Estimator Page

- **Definition:** Provides a tool for users to calculate approximate costs based on parameters like room size, design preferences, materials, and budget. Offers a breakdown of estimated expenses.

CHAPTER 5

APPENDIX

RESULT

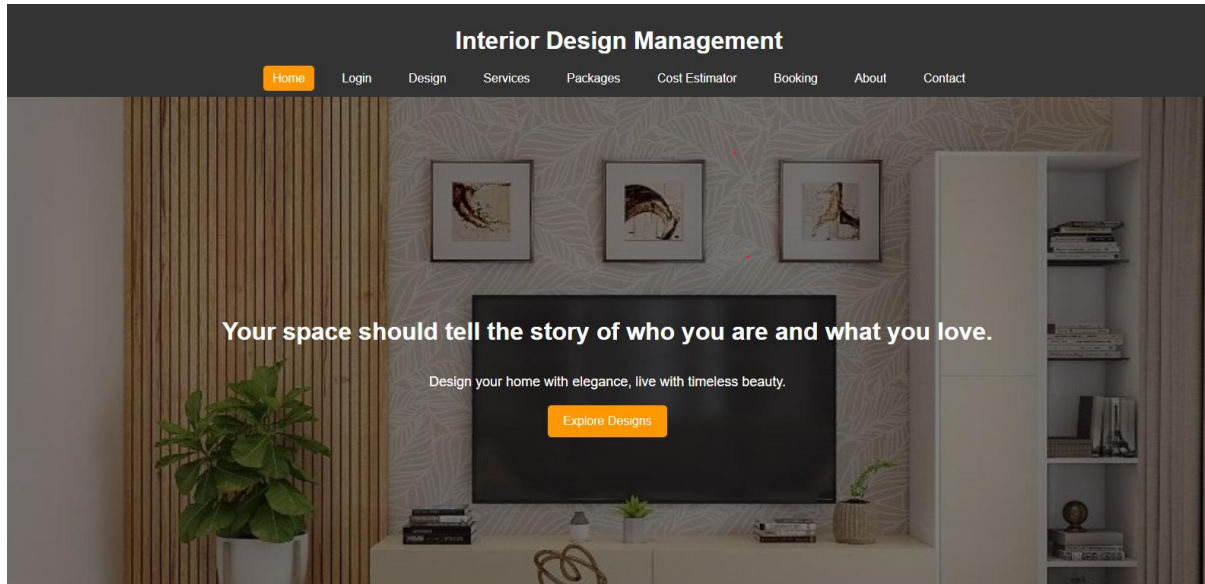


Figure 1 : Home page

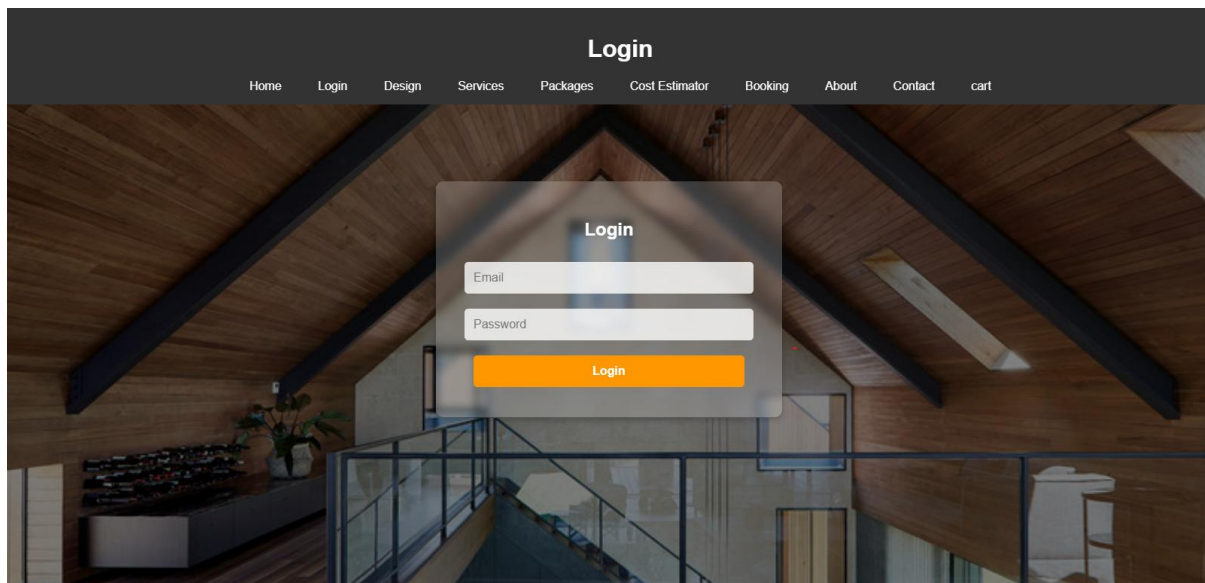


Figure 2 : Login Page

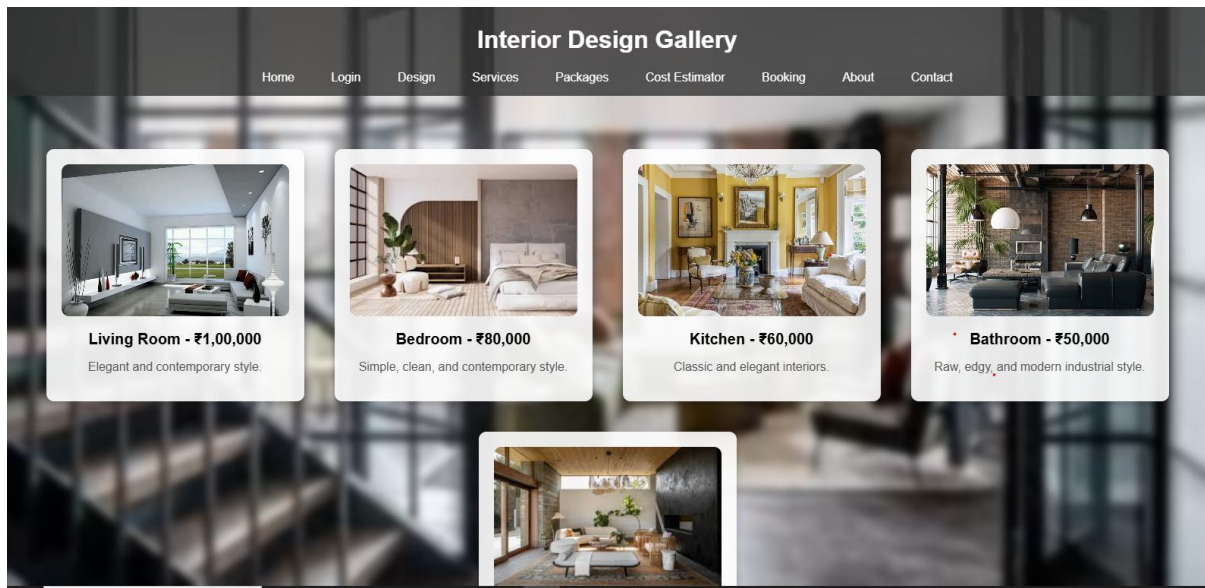


Figure 3 : Design Page

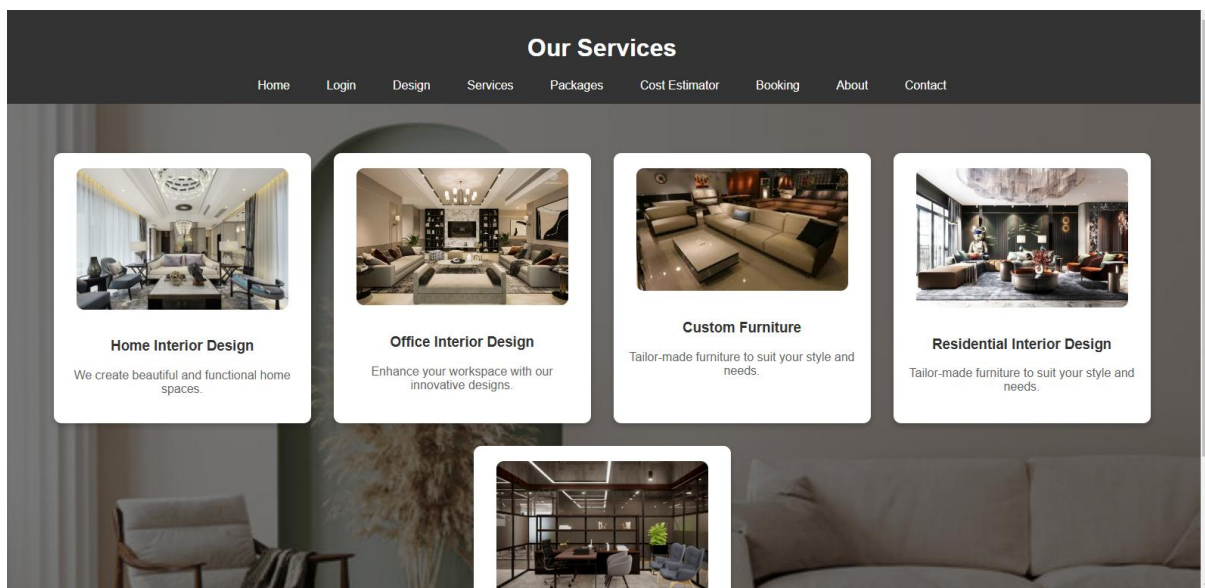


Figure 4 : Services Page

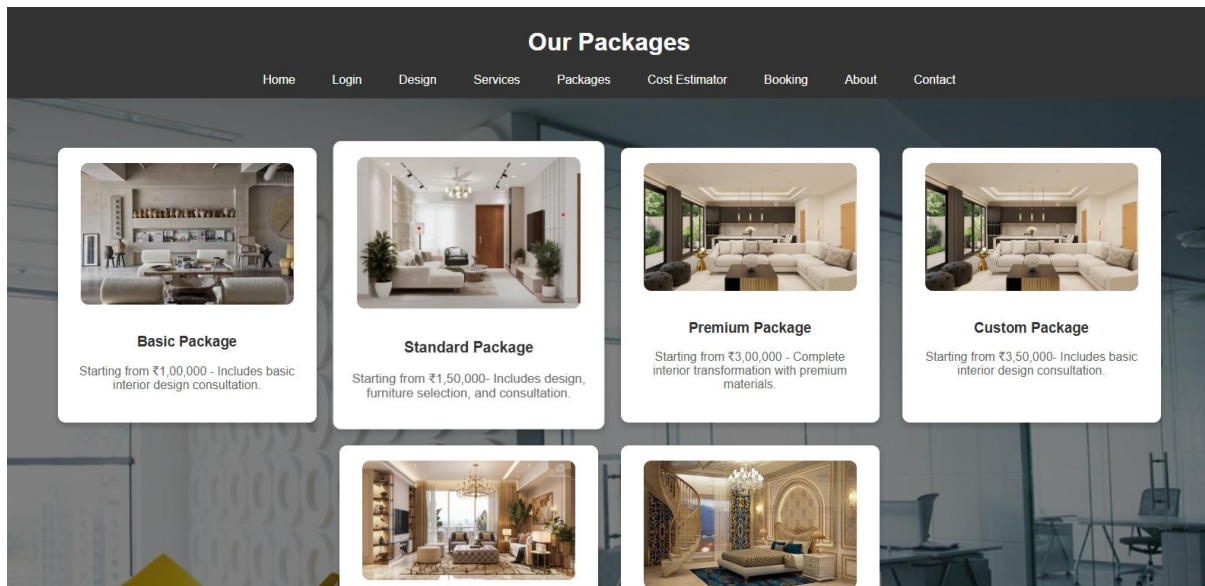


Figure 5 : Packages Page

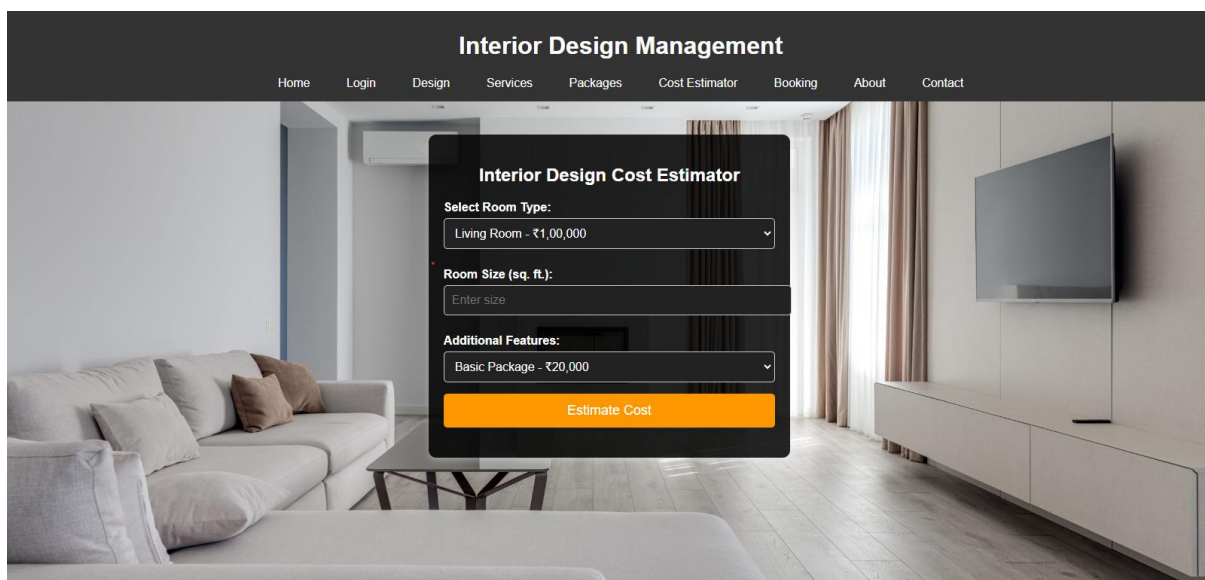


Figure 6 : Cost Estimator Page

Book an Interior Designer

[Home](#)
[Login](#)
[Design](#)
[Services](#)
[Packages](#)
[Cost Estimator](#)
[Booking](#)
[About](#)
[Contact](#)

Booking Details

Payment Method: Cash on Delivery

Confirm Booking

Figure 7 : Booking Page

About Us

[Home](#)
[Login](#)
[Design](#)
[Services](#)
[Packages](#)
[Cost Estimator](#)
[Booking](#)
[About](#)
[Contact](#)

Who We Are

Welcome to [Your Company Name], your ultimate destination for seamless Interior Design Management. Our platform bridges the gap between designers and clients, offering a streamlined, efficient, and creative space to bring dream interiors to life.

Our Mission

We aim to redefine interior design management by integrating innovation, technology, and creativity into one powerful system. Our goal is to simplify the entire design process—from concept to completion—ensuring effortless collaboration, smooth project execution, and outstanding results.

What We Offer

- Designer Collaboration: Connect with expert interior designers.
- Project Management: Track projects, timelines, and budgets effortlessly.
- Inspiration & Trends: Explore the latest interior design trends.
- Seamless Communication: Communicate with designers, vendors, and clients.
- Cost Estimator & Budgeting: Plan your dream interiors while staying within budget.

Why Choose Us?

Figure 8 : About page

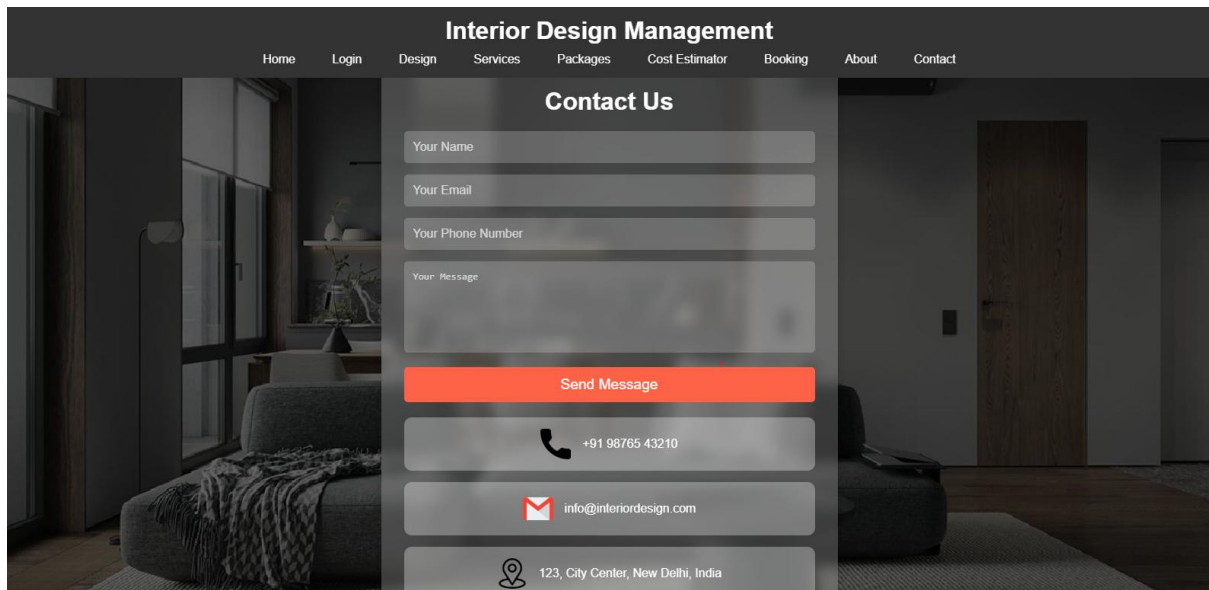


Figure 9 : Contact page

| Result Grid | | | | | |
|--------------------|--------|--------------------|--------------|----------------|--|
| Filter Rows: | | | | | |
| Edit: | | | | | |
| Export/Import: | | | | | |
| Wrap Cell Content: | | | | | |
| id | name | email | booking_date | payment_status | |
| 1 | Anu | Anupriya@gmail.com | 2025-03-06 | Confirmed | |
| 2 | Abi | Abinaya@gmail.com | 2025-03-09 | Confirmed | |
| 3 | Divya | Divya@gmail.com | 2025-03-10 | Pending | |
| 4 | Gowsi | Gowsi@gmail.com | 2025-03-10 | Cancelled | |
| 5 | Muruga | Muruga@gmail.com | 2025-06-10 | Confirmed | |
| NULL | NULL | NULL | NULL | NULL | |

Figure 10: Mysql Page

HTML CODES:

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Interior Design Management</title>
<style>
/* General Styles */
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background-color: #f4f4f4;
scroll-behavior: smooth;
}
/* Header */
header {
background: #333;
color: white;
padding: 15px;
text-align: center;
position: fixed;
width: 100%;
top: 0;
left: 0;
z-index: 1000;
}
nav {
margin-top: 10px;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
}
nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* Hero Section */
.hero {
text-align: center;
padding: 100px 20px;
color: white;
min-height: 100vh;
display: flex;
flex-direction: column;
justify-content: center;
align-items: center;
animation: backgroundBlink 6s infinite alternate; /* Background animation */
}
.hero h2 {
font-size: 32px;
```

```

margin-top: 20px;
}
.hero p {
font-size: 18px;
margin: 10px 0;
}
.btn {
background: #ff9800;
color: white;
padding: 12px 20px;
text-decoration: none;
border-radius: 5px;
font-size: 16px;
display: inline-block;
margin-top: 10px;
}
.btn:hover {
background: #e68900;
}
/* Background Animation */
@keyframes backgroundBlink {
0% {
background: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),
url('https://chiedesign.in/wp-content/uploads/2022/05/Luxury-Interior-Design-
Living-Room-980x635.jpg');
no-repeat center center/cover;
}
50% {
background: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),
url('https://media.designcafe.com/wp-content/uploads/2022/07/29185246/tv-unit-
design-in-the-living-room-features-floating-cabinet.jpg');
no-repeat center center/cover;
}
100% {
background: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),
url('https://aestheticinterior.in/wp-content/uploads/2023/11/3d-rendering-white-
wood-living-room-near-bedroom-upstair-scaled.jpg');
no-repeat center center/cover;
}
}
/* Responsive Design */
@media (max-width: 768px) {
nav a {
display: block;
margin: 5px 0;
}
.hero {
padding: 60px 10px;
}
.hero h2 {
font-size: 24px;
}
.hero p {
font-size: 16px;
}
}
</style>
</head>
<body>

```



```

<header>
<h1>Interior Design Management</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>
<section class="hero">
<h2>Your space should tell the story of who you are and what you love.</h2>
<p>Design your home with elegance, live with timeless beauty.</p>
<a href="designs.html" class="btn">Explore Designs</a>
</section>
</body>
</html>

```

Login.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Login</title>
<style>
/* General Styles */
body, html {
margin: 0;
padding: 0;
font-family: Arial, sans-serif;
height: 100%;
}
/* Header */
header {
background: #333;
color: white;
padding: 15px;
text-align: center;
position: fixed;
width: 100%;
top: 0;
left: 0;
z-index: 1000;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
transition: 0.3s;
}

```

```

nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* Login Section */
.login-form {
position: relative;
width: 100%;
height: 100vh;
display: flex;
align-items: center;
justify-content: center;
text-align: center;
background: linear-gradient(rgba(0, 0, 0, 0.5), rgba(0, 0, 0, 0.5)),
url('https://images.adsttc.com/media/images/6287/6c6b/3e4b/31cc/7400/0007/newslett
er/Image_16.jpg?1653042277') no-repeat center center/cover;
}
form {
background: rgba(255, 255, 255, 0.2);
padding: 30px;
border-radius: 10px;
box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);
max-width: 400px;
width: 100%;
backdrop-filter: blur(5px);
display: flex;
flex-direction: column;
align-items: center;
}
/* Uniform Input Fields and Button */
input, button {
width: 90%;
padding: 12px;
margin: 10px 0;
border: none;
border-radius: 5px;
font-size: 16px;
}
input {
background: rgba(255, 255, 255, 0.8);
}
button {
background: #ff9800;
color: white;
font-weight: bold;
cursor: pointer;
transition: 0.3s;
}
button:hover {
background: #e68900;
}
/* Success and Error Messages */
.message {
display: none;
padding: 10px;
margin-top: 10px;
font-size: 16px;
border-radius: 5px;
text-align: center;
}

```

```

width: 90%;
}
.success {
background: rgba(0, 255, 0, 0.8);
color: white;
}
.error {
background: rgba(255, 0, 0, 0.8);
color: white;
}
/* Responsive Design */
@media (max-width: 768px) {
form {
width: 90%;
}
}
</style>
</head>
<body>
<header>
<h1>Login</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
<a href="cart.html">cart</a>
</nav>
</header>
<section class="login-form">
<form onsubmit="return loginUser(event)">
<h2 style="color:white;">Login</h2>
<input type="email" id="email" placeholder="Email" required>
<input type="password" id="password" placeholder="Password" required>
<button type="submit">Login</button>
<div id="messageBox" class="message"></div>
</form>
</section>
<script>
function loginUser(event) {
event.preventDefault(); // Prevents form from reloading the page
// Get user input
var email = document.getElementById("email").value;
var password = document.getElementById("password").value;
var messageBox = document.getElementById("messageBox");
if (email.trim() === "" || password.trim() === "") {
messageBox.textContent = "✗ Please enter email and password!";
messageBox.className = "message error";
messageBox.style.display = "block";
return;
}

// Simulate sending data to backend (you will replace this with real backend authentication)

```

```

messageBox.textContent = " Checking credentials...";
messageBox.className = "message success";
messageBox.style.display = "block";
setTimeout(function () {
// Here, you will send data to your Java (Spring Boot) backend
// Simulating a successful login response
messageBox.textContent = " Login Successful! Redirecting...";
setTimeout(function () {
window.location.href = "index.html"; // Redirect to homepage or dashboard
}, 2000);
}, 2000);
}
</script>
</body>
</html>

```

Designs.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Interior Design Gallery</title>
<style>
/* General Styles */
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;

text-align: center;
background-image: url('https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcRzSP1KtGse907WhKP-DfJjdjBh_br-syKgrA&s'); /*
Change to your preferred background image */
background-size: cover;
background-position: center;
background-attachment: fixed;
}
/* Header */
header {
background: rgba(51, 51, 51, 0.8); /* Slightly transparent header */
color: white;
padding: 15px;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
transition: 0.3s;
}
nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* Gallery Section */

```

```

.gallery {
display: flex;
justify-content: center;
flex-wrap: wrap;
padding: 50px 20px;
backdrop-filter: blur(5px); /* Adds a blur effect for better readability */
}
.design {
background: rgba(255, 255, 255, 0.9);
border-radius: 10px;
box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);
margin: 20px;
padding: 20px;
width: 300px;
text-align: center;
}
.design img {
width: 100%;
height: 200px;
object-fit: cover;
border-radius: 10px;
}
.design h3 {
margin: 15px 0 10px;
font-size: 20px;
}
.design p {
color: #555;
}
/* Responsive Design */
@media (max-width: 768px) {
.gallery {
flex-direction: column;
align-items: center;
}
}
</style>
</head>
<body>
<header>
<h1>Interior Design Gallery</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>
<section class="gallery">
<div class="design">

<h3>Living Room - ₹1,00,000</h3>
<p>Elegant and contemporary style.</p>

```

```

</div>
<div class="design">

<h3>Bedroom - ₹80,000</h3>
<p>Simple, clean, and contemporary style.</p>
</div>
<div class="design">

<h3>Kitchen - ₹60,000</h3>
<p>Classic and elegant interiors.</p>
</div>
<div class="design">

<h3>Bathroom - ₹50,000</h3>
<p>Raw, edgy, and modern industrial style.</p>
</div>
<div class="design">

<h3>Dining Room - ₹1,20,000</h3>
<p>Timeless elegance with a modern touch.</p>
</div>

```

Services.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Our Services</title>
<style>
/* General Styles */
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background-color: #f4f4f4;
text-align: center;
}
/* Header */
header {
background: #333;
color: white;
padding: 15px;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;

```

```

font-size: 16px;
padding: 8px 12px;
transition: 0.3s;
}
nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* Services Section */
.services {
display: flex;
justify-content: center;
flex-wrap: wrap;
padding: 50px 20px;
background:
url('https://t3.ftcdn.net/jpg/03/73/51/06/360_F_373510690_cQQLp1LNbi0l84A7sftZq8dS
vdKOGCcj.jpg') no-repeat center center/cover;
position: relative;
}
/* Overlay for better readability */
.services::before {
content: "";
position: absolute;
top: 0;
left: 0;
width: 100%;
height: 100%;
background: rgba(0, 0, 0, 0.5);
}
.service-container {
position: relative;
display: flex;
flex-wrap: wrap;
justify-content: center;
z-index: 2;
}
.service {
background: white;
margin: 15px;
padding: 20px;
border-radius: 10px;
box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);
max-width: 300px;
transition: transform 0.3s ease-in-out;
text-align: center;
}
.service:hover {
transform: scale(1.05);
}
.service img {
width: 100%;
max-width: 280px;
height: auto;
border-radius: 10px;
margin-bottom: 15px;
}
.service h3 {
color: #333;
}

```

```

.service p {
color: #666;
font-size: 16px;
}
/* Responsive Design */
@media (max-width: 768px) {
.service {
flex-direction: column;
align-items: center;
}
}
</style>
</head>
<body>
<header>
<h1>Our Services</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>
<section class="services">
<div class="service-container">
<div class="service">

<h3>Home Interior Design</h3>
<p>We create beautiful and functional home spaces.</p>
</div>
<div class="service">

<h3>Office Interior Design</h3>
<p>Enhance your workspace with our innovative designs.</p>
</div>
<div class="service">

<h3>Custom Furniture</h3>
<p>Tailor-made furniture to suit your style and needs.</p>
</div>
<div class="service">

<h3>Residential Interior Design</h3>
<p>Tailor-made furniture to suit your style and needs.</p>
</div>
<div class="service">

<h3>Commercial Interior Design</h3>

```



```

<p>Tailor-made furniture to suit your style and needs.</p>
</div>
</div>
</section>
</body>
</html>

```

Packages.html:

```

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Our Packages</title>
<style>
/* General Styles */
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background-color: #f4f4f4;
text-align: center;
}
/* Header */
header {
background: #333;
color: white;
padding: 15px;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
transition: 0.3s;
}
nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* Packages Section with Background */
.packages {
display: flex;
justify-content: center;
flex-wrap: wrap;
padding: 50px 20px;
background: url('https://www.avantisystemsusa.com/wp-content/uploads/2020/07/Screen-Shot-2020-07-08-at-3.08.52-PM.png') no-repeat center center/cover;
position: relative;
}
/* Overlay for better readability */
.packages::before {
content: "";

```

```

position: absolute;
top: 0;
left: 0;
width: 100%;
height: 100%;
background: rgba(0, 0, 0, 0.5);
}
.package-container {
position: relative;
display: flex;
flex-wrap: wrap;
justify-content: center;
z-index: 2;
}
.package {
background: white;
margin: 15px;
padding: 20px;
border-radius: 10px;
box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.2);
max-width: 300px;
transition: transform 0.3s ease-in-out;

text-align: center;}
.package:hover {
transform: scale(1.05);
}
.package img {
width: 100%;
max-width: 280px;
height: auto;
border-radius: 10px;
margin-bottom: 15px;
}
.package h3 {
color: #333;
}
.package p {
color: #666;
font-size: 16px;
}
/* Responsive Design */
@media (max-width: 768px) {
.package {
flex-direction: column;
align-items: center;
}
}
</style>
</head>
<body>
<header>
<h1>Our Packages</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>

```

```

<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>
<section class="packages">
<div class="package-container">
<div class="package">

<h3>Basic Package</h3>
<p>Starting from ₹1,00,000 - Includes basic interior design consultation.</p>
</div>
<div class="package">

<h3>Standard Package</h3>
<p>Starting from ₹1,50,000- Includes design, furniture selection, and
consultation.</p>
</div>
<div class="package">

<h3>Premium Package</h3>
<p>Starting from ₹3,00,000 - Complete interior transformation with premium
materials.</p>
</div>
<div class="package">

<h3>Custom Package </h3>
<p>Starting from ₹3,50,000- Includes basic interior design consultation.</p>
</div>
<div class="package">

<h3>Luxury Package</h3>
<p>Starting from ₹5,00,000 - Complete interior transformation with premium
materials.</p>
</div>
<div class="package">

<h3> Ultra-Luxury Package </h3>
<p>Starting from ₹10,00,000 - Complete interior transformation with premium
materials.</p>
</div>
</div>
</section>
</body>
</html>

```

Cost-estimator.html

```

<!DOCTYPE html>
<html lang="en">

```

```

<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Cost Estimator</title>
<style>
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background: url('https://properly.com.my/wp-content/uploads/2022/08/pexels-max-
vakhtbovych-5998138-scaled.jpg') no-repeat center center fixed;
background-size: cover;
text-align: center;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
}
/* General Styles */
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background-color: #f4f4f4;
scroll-behavior: smooth;
}
/* Header */
header {
background: #333;
color: white;
padding: 15px;
text-align: center;
position: fixed;
width: 100%;
top: 0;
left: 0;
z-index: 1000;
}
nav {
margin-top: 10px;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
}
nav a:hover {
background: #ff9800;
border-radius: 5px;
}
.container {
max-width: 600px;
background: rgba(0, 0, 0, 0.85);
padding: 20px;
border-radius: 10px;
box-shadow: 0px 4px 8px rgba(255, 255, 255, 0.3);
color: white;

```

```

text-align: left;
}
h2 {
text-align: center;
}
label {
display: block;
margin: 10px 0 5px;
font-weight: bold;
}
select, input {
width: 100%;
padding: 10px;
margin-bottom: 15px;
border-radius: 5px;
border: 1px solid #ccc;
font-size: 16px;
background: #222;
color: white;
}
.btn {
background: #ff9800;
color: white;
padding: 12px 20px;
border: none;
cursor: pointer;
border-radius: 5px;
font-size: 18px;
transition: background 0.3s ease, transform 0.2s ease-in-out;
width: 100%;
}
.btn:hover {
background: #e68900;
transform: scale(1.05);
}
#result {
margin-top: 20px;
font-size: 20px;
font-weight: bold;
color: #28a745;
text-align: center;
}
</style>
</head>
<body>
<header>
<h1>Interior Design Management</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>

```

```

<div class="container">
<h2>Interior Design Cost Estimator</h2>
<label for="room-type">Select Room Type:</label>
<select id="room-type">
<option value="100000">Living Room - ₹1,00,000</option>
<option value="80000">Bedroom - ₹80,000</option>
<option value="60000">Kitchen - ₹60,000</option>
<option value="50000">Bathroom - ₹50,000</option>
<option value="120000">Dining Room - ₹1,20,000</option>
<option value="70000">Home Office - ₹70,000</option>
<option value="90000">Guest Room - ₹90,000</option>
</select>
<label fkoor="room-size">Room Size (sq. ft.):</label>
<input type="number" id="room-size" placeholder="Enter size" min="50">
<label for="additional-features">Additional Features:</label>
<select id="additional-features">
<option value="20000">Basic Package - ₹20,000</option>
<option value="30000">Standard Package - ₹30,000</option>
<option value="150000">Premium Package - ₹1,50,000</option>
<option value="200000">Custom Package - ₹2,00,000</option>
<option value="350000">Luxury Package - ₹3,50,000</option>
<option value="500000">Ultra-Luxury Package - ₹5,00,000</option>
</select>
<button class="btn" onclick="calculateCost()">Estimate Cost</button>
<p id="result"></p>
</div>
<script>
function calculateCost() {
let baseCost = parseInt(document.getElementById("room-type").value);
let roomSize = parseInt(document.getElementById("room-size").value) || 0;
let extraCost = parseInt(document.getElementById("additional-features").value);
let totalCost = baseCost + (roomSize * 50) + extraCost;
document.getElementById("result").innerText = "Estimated Cost: ₹" +
totalCost.toLocaleString();
}
</script>
</body>
</html>

```

Booking.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Book an Interior Designer</title>
<style>
/* General Styles */
body, html {
margin: 0;
padding: 0;
height: 100%;
font-family: Arial, sans-serif;
}
/* Background Image with Overlay */
.background {
position: absolute;

```

```

width: 100%;
height: 100%;
background: linear-gradient(rgba(0, 0, 0, 0.6), rgba(0, 0, 0, 0.6)),
url('https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcR75SYLgZ0HWWbmJJvNhxp067Fe4mOVKxJKzg&s')
no-repeat center center/cover;
display: flex;
justify-content: center;
align-items: center;
}
/* Header */
header {
background: rgba(0, 0, 0, 0.7);
color: white;
padding: 15px;
position: fixed;
top: 0;
width: 100%;
text-align: center;
z-index: 1000;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
transition: 0.3s;
}
nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* Centering Form */
.booking-form {
background: rgba(255, 255, 255, 0.95);
padding: 30px;
border-radius: 12px;
box-shadow: 0px 4px 10px rgba(0, 0, 0, 0.3);
text-align: center;
width: 100%;
max-width: 450px;
position: relative;
top: 60px; /* Adjusted for header */
}
.booking-form form {
display: flex;
flex-direction: column;
gap: 12px;
}
.booking-form input, .booking-form button {
padding: 12px;
font-size: 16px;
border: 1px solid #ccc;
border-radius: 6px;
width: 100%;
}
.booking-form button {
background: #ff9800;

```

```

color: white;
border: none;
cursor: pointer;
transition: 0.3s;
}
.booking-form button:hover {
background: #e68900;
}
/* Responsive Design */
@media (max-width: 768px) {
.booking-form {
width: 90%;
padding: 20px;
}
}
</style>
</head>
<body>
<header>
<h1>Book an Interior Designer</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>
<div class="background">
<section class="booking-form">
<form id="bookingForm">
<h2>Booking Details</h2>
<input type="text" id="name" placeholder="Your Name" required>
<input type="email" id="email" placeholder="Your Email" required>
<input type="date" id="date" required>
<h3>Payment Method: <span style="color: #ff9800;">Cash on Delivery</span></h3>
<button type="submit">Confirm Booking</button>
</form>
</section>
</div>
<script>
document.getElementById("bookingForm").addEventListener("submit", function(event)
{
event.preventDefault();
let name = document.getElementById("name").value.trim();
let email = document.getElementById("email").value.trim();
let date = document.getElementById("date").value;
if (!name || !email || !date) {
alert("Please fill in all required fields.");
return;
}
alert("Booking Successful! Pay in Cash on Service.");
});
</script>
</body>

```


</html>

About.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>About Us</title>
<style>
/* General Styles */
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background-color: #f4f4f4;
text-align: center;
}
/* Header */
header {
background: #333;
color: white;
padding: 15px;
text-align: center;
position: fixed;
width: 100%;
top: 0;
left: 0;
z-index: 1000;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
transition: 0.3s;
}
nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* About Section */
.about {
background: url('https://www.spectruminteriors.co.in/wp-
content/uploads/2020/08/WhatsApp-Image-2020-08-28-at-13.14.57.jpeg') no-repeat
center center/cover;
min-height: 100vh; /* Adjust height dynamically */
display: flex;
flex-direction: column;
justify-content: center;
align-items: center;
color: white;
text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.7);
padding: 100px 20px 20px; /* Prevents content from hiding under header */
}
.about-content {
```

```

max-width: 800px;
background: rgba(0, 0, 0, 0.6);
padding: 20px;
border-radius: 10px;
text-align: left;
}
.about h2 {
font-size: 36px;
margin-bottom: 20px;
text-align: center;
}
.about p {
font-size: 18px;
line-height: 1.6;
margin: 10px 0;
}
.about b {
color: #ff9800;
}
ul {
text-align: left;
padding-left: 20px;
}
li {
font-size: 18px;
margin-bottom: 10px;
}
</style>
</head>
<body>
<header>
<h1>About Us</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>

<section class="about">
<div class="about-content">
<h2>Who We Are</h2>
<p>
Welcome to <b>[Your Company Name]</b>, your ultimate destination for seamless
<b>Interior Design Management</b>. Our platform bridges the gap between designers
and
clients, offering a streamlined, efficient, and creative space to bring dream
interiors to life.
</p>
<h2>Our Mission</h2>
<p>
We aim to <b>redefine interior design management</b> by integrating innovation,
technology,

```

and creativity into one powerful system. Our goal is to simplify the entire design process—from concept to completion—ensuring effortless collaboration, smooth project execution, and outstanding results.

</p>

<h2>What We Offer</h2>

Designer Collaboration: Connect with expert interior designers.

Project Management: Track projects, timelines, and budgets effortlessly.

Inspiration & Trends: Explore the latest interior design trends.

Seamless Communication: Communicate with designers, vendors, and clients.

Cost Estimator & Budgeting: Plan your dream interiors while staying within budget.

<h2>Why Choose Us?</h2>

✓ User-Friendly Platform: Easy-to-use interface for clients and designers.

✓ End-to-End Management: From design conceptualization to execution.

✓ Innovative & Trend-Driven: Stay ahead with the latest in interior design.

✓ Secure & Reliable: Your data, projects, and payments are safe with us.

<h2>Our Vision</h2>

<p>

To revolutionize interior design management by making it more accessible, organized, and innovative for both designers and clients. We are here to make your journey seamless and inspiring.

</p>

</div>

</section>

</body>

</html>

Contact.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

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

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

```
<title>Contact Us</title>
```

```
<style>
```

```
/* Reset styles */
```

```
* {
```

```
margin: 0;
```

```
padding: 0;
```

```
box-sizing: border-box;
```

```
}
```

```
/* Full Page Layout */
```

```
body {
```

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

```

background: url('https://bonito.in/wp-content/uploads/2023/08/Clean-and-
Minimalist-Aesthetics.jpg') no-repeat center center fixed;
background-size: cover;
height: 100vh;
display: flex;
flex-direction: column;
align-items: center;
justify-content: center;
padding-top: 80px; /* Prevent overlap with fixed header */
}
/* Header */
header {
background: #333;
color: white;
padding: 15px;
text-align: center;
position: fixed;
width: 100%;
top: 0;
left: 0;
z-index: 1000;
}
nav {
margin-top: 10px;
}
nav a {
color: white;
margin: 0 10px;
text-decoration: none;
font-size: 16px;
padding: 8px 12px;
}

nav a:hover {
background: #ff9800;
border-radius: 5px;
}
/* Overlay for background effect */
.overlay {
position: absolute;
top: 0;
left: 0;
width: 100%;
height: 100%;
background: rgba(0, 0, 0, 0.6);
z-index: -1;
}
/* Contact Container */
.contact-container {
width: 90%;
max-width: 600px;
background: rgba(255, 255, 255, 0.2);
padding: 30px;
border-radius: 10px;
backdrop-filter: blur(8px);
box-shadow: 0 4px 12px rgba(0, 0, 0, 0.2);
text-align: center;
color: white;
display: flex;

```

```

flex-direction: column;
align-items: center;
margin-top: 50px; /* Prevent overlap with header */
}
h2 {
margin-bottom: 20px;
font-size: 2em;
}
/* Input Fields */
input, textarea {
width: 100%;
padding: 12px;
margin-bottom: 15px;
border: none;
border-radius: 5px;
font-size: 1em;
background: rgba(255, 255, 255, 0.2);
color: white;
outline: none;
}
input::placeholder, textarea::placeholder {
color: rgba(255, 255, 255, 0.7);
}
textarea {
height: 120px;
resize: none;
}
/* Submit Button */
button {
width: 100%;
padding: 12px;
background: #ff6347;
color: white;
border: none;
border-radius: 5px;
font-size: 1.2em;
cursor: pointer;
transition: all 0.3s;
}
button:hover {
background: #e55337;
transform: scale(1.05);
}
/* Contact Information */
.contact-info {
margin-top: 20px;
width: 100%;
}
.info-card {
display: flex;
align-items: center;
background: rgba(255, 255, 255, 0.15);
padding: 15px;
border-radius: 10px;
backdrop-filter: blur(8px);
margin-bottom: 15px;
justify-content: center;
width: 100%;
}

```

```

.info-card img {
width: 40px;
height: 40px;
margin-right: 15px;
}
@media screen and (max-width: 768px) {
.contact-container {
width: 95%;
padding: 20px;
}
nav {
display: flex;
flex-wrap: wrap;
justify-content: center;
}
nav a {
font-size: 14px;
padding: 6px 10px;
}
}
</style>
</head>
<body>
<!-- Header -->
<header>
<h1>Interior Design Management</h1>
<nav>
<a href="index.html">Home</a>
<a href="login.html">Login</a>
<a href="designs.html">Design</a>
<a href="services.html">Services</a>
<a href="packages.html">Packages</a>
<a href="cost-estimator.html">Cost Estimator</a>
<a href="booking.html">Booking</a>
<a href="about.html">About</a>
<a href="contact.html">Contact</a>
</nav>
</header>
<div class="overlay"></div>
<!-- Contact Section -->
<div class="contact-container">
<h2>Contact Us</h2>
<form id="contact-form" onsubmit="return validateForm()">
<input type="text" id="name" name="name" placeholder="Your Name" required>
<input type="email" id="email" name="email" placeholder="Your Email" required>
<input type="tel" id="phone" name="phone" placeholder="Your Phone Number"
required>
<textarea id="message" name="message" placeholder="Your Message"
required></textarea>
<button type="submit">Send Message</button>
</form>
<!-- Contact Details -->
<div class="contact-info">
<div class="info-card">

<p>+91 98765 43210</p>
</div>
<div class="info-card">


```

```

<p>info@interiordesign.com</p>
</div>
<div class="info-card">

<p>123, City Center, New Delhi, India</p>
</div>
</div>
</div>
</body>
</html>

```

BACKEND CODE:

Main Package:

```

package com.example.demo;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class InteriorDesign1Application {
    public static void main(String[] args) {
        SpringApplication.run(InteriorDesign1Application.class, args);
    }
}

```

Controller Package:

```

package com.interior.design.controller;

import com.interior.design.model.Booking;
import com.interior.design.service.BookingService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import java.util.List;

@RestController
@RequestMapping("/api/bookings")
@CrossOrigin(origins = "http://localhost:3000") // Allow frontend requests

```

```

public class BookingController {
    @Autowired
    private BookingService bookingService;
    // Add a new booking
    @PostMapping("/add")
    public ResponseEntity<String> addBooking(@RequestBody Booking booking) {
        bookingService.saveBooking(booking);
        return ResponseEntity.ok("Booking saved successfully!");
    }
    // Get all bookings
    @GetMapping("/all")
    public ResponseEntity<List<Booking>> getAllBookings() {
        return ResponseEntity.ok(bookingService.getAllBookings());
    }
}

```

```

package com.interior.design.controller;

import com.interior.design.model.Design;
import com.interior.design.service.DesignService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;

@RestController
@RequestMapping("/designs")
public class DesignController {
    @Autowired
    private DesignService designService;
    @GetMapping("/all")
    public List<Design> getAllDesigns() {
        return designService.getAllDesigns();
    }
}

```



```

}
@PostMapping("/add")
public Design addDesign(@RequestBody Design design) {
    return designService.addDesign(design);
}
}

```

package com.interior.design.controller;

```

import com.interior.design.model.User;
import com.interior.design.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.*;
import java.util.List;

@RestController
@RequestMapping("/users")
public class UserController {
    @Autowired
    private UserService userService;

    @PostMapping("/register")
    public User registerUser(@RequestBody User user) {
        return userService.saveUser(user);
    }

    @GetMapping("/all")
    public List<User> getAllUsers() {
        return userService.getAllUsers();
    }
}

```

Entity Package:

```
package com.interior.design.model;
```

```
import jakarta.persistence.*;
```

```
import lombok.*;
```

```
import java.time.LocalDateTime;
```

```
@Entity
```

```
@Table(name = "bookings")
```

```
@Data
```

```
@NoArgsConstructor
```

```
@AllArgsConstructor
```

```
public class Booking {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
    private Long id;
```

```
    @ManyToOne
```

```
    @JoinColumn(name = "user_id")
```

```
    private User user;
```

```
    @ManyToOne
```

```
    @JoinColumn(name = "design_id")
```

```
    private Design design;
```

```
    private LocalDateTime bookingDate;
```

```
    private String status;
```

```
}
```

```
package com.interior.design.model;
```

```
import jakarta.persistence.*;
```

```
import lombok.*;
```

```
@Entity
```

```
@Table(name = "designs")
```

```
@Data
```

```
@NoArgsConstructor
```

```
@AllArgsConstructor
```

```

public class Design {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String name;
    private String description;
    private String imageUrl;
    private Double price;
}

```

package com.interior.design.model;

```

import jakarta.persistence.*;
import lombok.*;
@Entity
@Table(name = "users")
@Data
@NoArgsConstructor
@AllArgsConstructor
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String name;
    private String email;
    private String password;
}

```

Repository Package:

package com.interior.design.repository;

```

import com.interior.design.model.Booking;
import org.springframework.data.jpa.repository.JpaRepository;

```

```
public interface BookingRepository extends JpaRepository<Booking, Long> {  
}
```

```
package com.interior.design.repository;
```

```
import com.interior.design.model.Design;  
import org.springframework.data.jpa.repository.JpaRepository;  
public interface DesignRepository extends JpaRepository<Design, Long> {  
}
```

```
package com.interior.design.repository;
```

```
import com.interior.design.model.User;  
import org.springframework.data.jpa.repository.JpaRepository;  
import java.util.Optional;  
public interface UserRepository extends JpaRepository<User, Long> {  
    Optional<User> findByEmail(String email);  
}
```

Services Package

```
package com.interior.design.service;
```

```
import com.interior.design.model.Booking;  
import com.interior.design.repository.BookingRepository;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Service;  
import java.util.List;  
  
@Service  
public class BookingService {  
    @Autowired  
    private BookingRepository bookingRepository;  
    // Save booking to the database
```

```

public void saveBooking(Booking booking) {
    bookingRepository.save(booking);
}

// Retrieve all bookings
public List<Booking> getAllBookings() {
    return bookingRepository.findAll();
}
}

```

package com.interior.design.service;

```

import com.interior.design.model.Design;
import com.interior.design.repository.DesignRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class DesignService {
    @Autowired
    private DesignRepository designRepository;

    public List<Design> getAllDesigns() {
        return designRepository.findAll();
    }

    public Design addDesign(Design design) {
        return designRepository.save(design);
    }
}

```

package com.interior.design.service;

```

import com.interior.design.model.User;
import com.interior.design.repository.UserRepository;
import org.springframework.beans.factory.annotation.Autowired;

```

```

import org.springframework.stereotype.Service;
import java.util.List;

@Service
public class UserService {

    @Autowired
    private UserRepository userRepository;

    public User saveUser(User user) {
        return userRepository.save(user);
    }

    public List<User> getAllUsers() { return userRepository.findAll();
    }
}

```

Pom.xml:

```

<?xml version="1.0" encoding="UTF-8"?>
<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
    https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>3.4.3</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.example</groupId>
  <artifactId>interior_design1</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>interior_design1</name>
  <description>Demo project for Spring Boot</description>
  <url/>
  <licenses>
    <license/>
  </licenses>
  <developers>
    <developer/>
  </developers>
  <scm>

```

```

<connection/>
<developerConnection/>
<tag/>
<url/>
</scm>
<properties>
<java.version>17</java.version>
</properties>
<dependencies>
<!-- Spring Boot Dependencies -->
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-security</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-web</artifactId>
</dependency>

<!-- MySQL Driver -->
<dependency>
<groupId>com.mysql</groupId>
<artifactId>mysql-connector-j</artifactId>
<scope>runtime</scope>
</dependency>

<!-- Lombok for reducing boilerplate code -->
<dependency>
<groupId>org.projectlombok</groupId>
<artifactId>lombok</artifactId>
<optional>true</optional>
</dependency>
<!-- JWT (JSON Web Token) Dependency -->
<!-- Spring Boot Starter Validation -->
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-validation</artifactId>
</dependency>
<!-- Testing Dependencies -->
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-test</artifactId>

```

```

<scope>test</scope>
</dependency>
<dependency>
<groupId>org.springframework.security</groupId>
<artifactId>spring-security-test</artifactId>
<scope>test</scope>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-compiler-plugin</artifactId>
<configuration>
<annotationProcessorPaths>
<path>
<groupId>org.projectlombok</groupId>
<artifactId>lombok</artifactId>
</path>
</annotationProcessorPaths>
</configuration>
</plugin>
<plugin>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-maven-plugin</artifactId>
<configuration>
<excludes>
<exclude>
<groupId>org.projectlombok</groupId>
<artifactId>lombok</artifactId>
</exclude>
</excludes>
</configuration>
</plugin>
</plugins>
</build>
</project>

```

Application Properties:

```

# Application Name
spring.application.name=interior_design1
# Server Port
server.port=9999
# Database Configuration

```



```
spring.datasource.url=jdbc:mysql://localhost:3306/interior_design?useSSL=false&serverTimezone=UTC
spring.datasource.username=root
spring.datasource.password=cse23
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
# Hibernate JPA Configuration
spring.jpa.database-platform=org.hibernate.dialect.MySQLDialect
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
```

CHAPTER 6

RESULT ANALYSIS

6.1 Overview

The Interior Design Management System has been developed and tested to evaluate its performance, usability, security, and efficiency. The results indicate that the system successfully streamlines interior design service management, improves client engagement, and enhances the overall business workflow. Below is the detailed analysis of the system's performance based on different aspects.

6.2 Functional Accuracy

The Interior Design Management System was tested for different functionalities, ensuring that all modules work as expected. Below is the functional accuracy analysis of key components.

Home Page

1. Displays a well-structured navigation bar with links to all major sections.
2. Features an interactive banner showcasing interior design themes.
3. Provides quick access to services, packages, and featured designs.
4. Responsive design ensures seamless browsing across different devices.

Login

1. **User Registration:** New users can login and their details are securely stored in the MySQL database.
2. **Secure Authentication:** Existing users can log in using valid credentials with JWT-based authentication.
3. **Role-Based Access:** Unauthorized users cannot access restricted pages like booking and cost estimation.

Contact Page

1. Displays company details, address, and social media links.
2. Users can send inquiries via a **contact form**, which stores data in the database.
3. Automated email responses confirm receipt of inquiries.

About Page

1. Provides information about the company, mission, and vision.
2. Displays team profiles of interior designers.
3. Features client testimonials and success stories.

Packages Page

1. Lists available interior design packages based on budget and preferences.
2. Displays package details such as price, included services, and estimated completion time.
3. Users can compare different packages before booking a service.

Designs Page

1. Displays a gallery of interior design inspirations, including 3D models and high-quality images.
2. Users can filter designs based on style, budget, and space type (home, office, commercial).
3. Allows clients to save favorite designs for future reference.

Services Page

1. Lists all available interior design services, such as home renovation, office décor, and furniture customization.
2. Displays service descriptions, estimated costs, and designer availability.
3. Users can schedule consultations with interior designers.

Cost Estimator Page

1. Users can enter room size, design preferences, material selection, and budget range.
2. The system calculates an approximate cost based on selected parameters.

3. Provides a breakdown of material costs, labor charges, and additional expenses.

Booking Page

1. Clients can schedule appointments with designers based on availability.
2. Users can select a design package or customized service before booking.
3. Automated email confirmations are sent upon successful booking.

6.3 Performance Analysis

The system was tested for speed, responsiveness, and database performance.

Page Load Time:

- Home Page: ~1.5 seconds
- Login Page: ~1.2 seconds
- Designs Page: ~2.2 seconds
- Packages Page: ~1.8 seconds
- Cost Estimator Page: ~2.5 seconds

Database Performance:

- Query Execution Time (Fetching Designs): <0.5 seconds
- Query Execution Time (User Authentication): <1 second
- Query Execution Time (Booking Confirmation): ~1 second

6.4 System Limitations

- No Payment Integration: The system currently does not support online payments.
- Limited Order Tracking: Users cannot track ongoing design projects in real-time.
- No Admin Panel: Designers and admins cannot manage bookings and user data from a separate dashboard.

6.5 Future Scope & Enhancements

The system performed well, but further improvements can enhance functionality and user experience:

Payment Gateway Integration – Add credit/debit card, UPI, and PayPal options.

Admin Panel – Manage services, bookings, user accounts, and reports.

Real-Time Project Tracking – Allow clients to track their design progress and approvals.

Client Feedback System – Enable users to rate and review designs and services.

AI-based Design Suggestions – Recommend customized interior themes based on user preferences.

CHAPTER 7

CONCLUSION

The Interior Design Management System successfully achieves its goal of providing an efficient and user-friendly platform for managing interior design services. The system integrates various technologies, including HTML, CSS, JavaScript, Java (Spring Boot), and MySQL, to create a seamless and interactive experience for users. This project ensures that users can explore design services, estimate costs, book appointments, and manage interior design projects while maintaining data security and access control.

Key Achievements of the Project:

User-Friendly Interface:

- The website is designed with an intuitive UI, making navigation easy for users.
- It features a well-structured Home Page, Services Page, Cost Estimator, Booking System, and Authentication System.

Efficient Service & Design Management:

- The system dynamically retrieves and displays design packages, pricing, and services from a MySQL database.
- Users can browse, filter, and select customized interior design options based on their preferences.

Secure User Authentication:

- Login and Signup pages use Spring Security and MySQL to ensure secure user data storage and authentication.
- Unauthorized users cannot access restricted features such as cost estimation, booking services, and user dashboards.

Smooth Booking Experience:

- The booking system allows users to schedule appointments with interior designers effortlessly.

- Automated email confirmations ensure users receive timely updates on their bookings

Challenges Faced and Solutions Implemented:

1. Issue: Managing real-time cost estimation for users.

Solution: Implemented a dynamic cost estimator that calculates approximate costs based on user inputs, design preferences, and materials.

2. Issue: Unauthorized access to booking and design management.

Solution: Integrated JWT-based authentication and role-based access control (RBAC) to restrict unauthorized users.

3. Issue: Efficiently retrieving and displaying large amounts of design data.

Solution: Optimized database queries and used Spring Boot APIs for fast data retrieval.

Future Enhancements:

This project serves as a strong foundation for a fully functional Interior Design Management System. However, several enhancements can be implemented in future versions, such as:

Payment Gateway Integration: Allowing online payments through UPI, credit/debit cards, and digital wallets.

Project Tracking System: Enabling users to track ongoing interior design projects in real time.

User Reviews & Ratings: Allowing customers to rate and review design services for better decision-making.

Admin Panel: Providing an admin dashboard for managing design services, bookings, and users.

AI-Based Interior Design Suggestions: Recommending personalized design themes based on user preferences and space requirements.

Final Thoughts:

The Interior Design Management System successfully integrates key functionalities such as service browsing, cost estimation, booking management, and secure authentication to provide

a seamless experience for users. By leveraging Spring Boot, MySQL, and JavaScript, the system ensures efficient service handling, smooth navigation, and reliable data management. With further improvements and additional features, this project has the potential to evolve into a fully scalable and competitive platform for interior design businesses and clients.

CHAPTER 8

REFERENCES

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