## INTERIOR DESIGING

MINOR PROJECT REPORT (23CA1209)

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# Abstract

This document outlines the creation of an innovative home interior design management system website, developed to revolutionize the efficiency and quality of interior design projects. Utilizing the robust capabilities of HTML, CSS, and JavaScript, the system seamlessly integrates core functionalities such as project management, client relationship management (CRM), inventory control, and billing. Designed with both designers and clients in mind, the platform offers a cohesive, intuitive user experience that simplifies administrative tasks and enhances client engagement. Key features include real-time collaboration, robust security measures, and a responsive design adaptable to various devices. By addressing prevalent issues in existing systems—such as fragmented workflows, administrative inefficiencies, and inconsistent user interfaces—this comprehensive solution aims to streamline processes, ensure project transparency, and elevate the standard of interior design services. This project highlights the trans-formative potential of web technologies in creating a more connected, efficient, and client-centered design environment. Additionally, the interior design management system leverages advanced features such as automated task reminders, virtual design consultations, and data analytic. Automated reminders enhance adherence to project timelines and task schedules, while virtual design consultation capabilities enable remote client meetings, expanding access to design services. Data analytic tools provide actionable insights into design trends and operational efficiencies, facilitating informed decision-making for designers. By combining these advanced functionalities with a user-eccentric design, the system not only addresses current interior design management challenges but also anticipates future needs, positioning itself as a salable and adaptable solution in the rapidly evolving interior design landscape.

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**LIST OF ABBREVATIONS**

|  |  |
| --- | --- |
| HTML | HYPER TEXT MARKUP LANGUAGE |
| CSS | CASCADING STYLE SHEETS |
| JS | JAVASCRIPT |

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# CHAPTER 1 INTRODUCTION

Our Home Interior Design Management System website is a comprehensive digital platform designed to revolutionize the efficiency and quality of interior design projects. Built with a combination of HTML, CSS, JavaScript, and Bootstrap, it offers a user-friendly interface that ensures ease of use for both designers and clients. The system integrates various functionalities such as project management, client relationship management (CRM), inventory control, and billing, making it a one-stop solution for efficient interior design administration.

The website's responsive design, powered by Bootstrap, ensures seamless accessibility across a wide range of devices, from desktops to smartphones. This adaptability is crucial in today's fast-paced world, where designers and clients require quick and easy access to project information and services on-the-go. Additionally, the use of JavaScript enhances the interactive elements of the site, providing real-time updates and dynamic content that improve user engagement and satisfaction.

Security and privacy are paramount in our interior design management system. We have implemented robust security measures to protect sensitive client information and project details, ensuring compliance with industry standards. Our platform not only optimizes operational workflows for designers but also empowers clients by providing them with secure access to project timelines, design concepts, and billing information. Ultimately, our system aims to improve the overall efficiency of interior design services and enhance the client experience.

Moreover, our system supports integration with other design applications and tools, facilitating a more connected and comprehensive design ecosystem. The intuitive dashboard and analytical tools provide valuable insights for designers to make informed decisions and enhance their creative process. By bridging the gap between technology and interior design, our platform is set to revolutionize the way interior design services are delivered and managed.

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### 1.1 PROBLEM DEFINITION

In today's fast-evolving interior design industry, the lack of an integrated digital platform for managing design projects presents significant challenges. Interior designers grapple with fragmented systems for project management, client communication, inventory control, and billing, leading to inefficiencies, data silos, and potential errors that can affect project outcomes. Clients often face difficulties in accessing project updates and design concepts, resulting in delays and fragmented experiences. The absence of a unified, intuitive, and secure interior design management system underscores the urgent need for a solution that can harmonize these diverse functions, enhance operational efficiency, and elevate the quality of design services through improved data accessibility and management.

### 1.2 EXISTING SYSTEM

The existing interior design management systems often consist of fragmented solutions that address specific needs such as project management, client relationship management (CRM), inventory control, and billing. For instance, project management platforms like Trello and Asana focus on task tracking and collaboration, while CRM software such as HubSpot and Salesforce handle client interactions. Inventory control tools like Sortly manage supplies but rarely integrate with project management systems, leading to data silos. Billing systems like Quick Books manage financial operations independently from design management tools. This fragmentation results in inefficiencies, increased administrative burden, and sub optimal project execution, highlighting the need for a comprehensive, integrated solution that unifies these disparate functions into a cohesive, user-friendly platform.

### 1.2.1 DISADVANTAGES OF THE EXISTING SYSTEM

1. **Fragmented Systems:** Lack of seamless integration between project management, CRM, inventory control, and billing systems leads to data silos and communication gaps.
2. **Increased Administrative Workload:** Interior designers must navigate multiple platforms, increasing the likelihood of errors and administrative burden.
3. **Inconsistent User Experience:** Clients face frustration due to the inconsistent functionality and user experience across different systems, complicating access to project updates and design concepts.
4. **Steep Learning Curves:** The complexity of standalone systems requires significant time and training, diverting focus from creative work and client interactions.
5. **Financial Inefficiencies:** Independent operation of billing and revenue management tools from project management systems hinders holistic project management and can lead to financial inefficiencies.

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### 1.3 PROPOSED SYSTEM

To overcome the challenges posed by fragmented interior design management systems, a comprehensive integrated solution is imperative. By consolidating project management, client relationship management (CRM), inventory control, and billing systems into a unified platform, data silos and communication gaps can be eliminated. This integration not only streamlines administrative processes but also reduces the likelihood of errors, alleviating the increased administrative workload on interior designers. Moreover, ensuring a consistent user experience across all functionalities of the system enhances client satisfaction and facilitates easier access to project information and services. Simplifying the interface and reducing the complexity of standalone systems mitigate steep learning curves, allowing designers to focus more on creative work and client interactions. Additionally, integrating billing and revenue management tools with project management systems promotes financial efficiency and enables holistic project management. By addressing these key areas, the proposed integrated interior design management solution aims to optimize operational efficiency, improve project outcomes, and enhance the overall experience for both designers and clients.

### 1.3.1 ADVANTAGES OF THE PROPOSED SYSTEM

1. **Seamless Integration:** The integrated system eliminates data silos and communication gaps by seamlessly connecting project management, CRM, inventory control, and billing systems. This ensures that all relevant information is readily accessible and up-to-date for designers and clients alike.
2. **Reduced Administrative Burden:** By consolidating multiple platforms into one, the proposed system significantly reduces the administrative workload on design staff. Automation of tasks such as project tracking, client communications, and billing streamlines workflows and minimizes the likelihood of errors, allowing designers to focus more on creative work.
3. **Enhanced User Experience:** Clients benefit from a consistent and intuitive user experience across all functionalities of the system. Easy access to project updates, design concepts, and communication tools improves client satisfaction and engagement, leading to better project outcomes.
4. **Improved Efficiency:** Real-time data access and analytic tools empower designers to make informed decisions quickly. By providing insights into project performance, client preferences, and design trends, the system facilitates continuous improvement and enhances overall efficiency in design service delivery.
5. **Financial Optimization:** Integration of billing and revenue management tools with project management systems promotes financial efficiency and transparency. This ensures accurate billing, timely payments, and effective revenue management, ultimately leading to improved financial health for design firms.

### 1.4 NEED FOR THE PROJECT

The need for this project arises from the inefficiencies and challenges inherent in existing fragmented interior design management systems. These systems often lack seamless integration, resulting in data silos, communication gaps, and increased administrative burden. Clients may encounter difficulties in accessing project updates and design concepts, leading to frustration and potentially compromising project outcomes. Interior designers struggle with managing multiple platforms, diverting time and resources away from creative work. Moreover, the independent operation of billing and project management systems can lead to financial inefficiencies. Therefore, there is a critical need for a comprehensive, integrated interior design management solution that streamlines administrative processes, enhances data accessibility, improves client experiences, and promotes operational efficiency for design firms. This project aims to address these challenges by developing a unified platform that integrates project management, client relationship management (CRM), inventory control, and billing systems, ultimately improving the overall quality and effectiveness of interior design services.

### 1.5 SCOPE

**System Design:** Design a user-friendly interface for interior designers and clients, incorporating features for project management, client communication, inventory control, and billing.

**Development:** Develop the backend infrastructure and frontend interfaces for the integrated interior design management system, leveraging technologies such as HTML, CSS, JavaScript, Bootstrap, and backend frameworks.

**Integration:** Integrate existing interior design management functionalities (project management, CRM, inventory control, and billing) into the unified platform.

**Testing:** Conduct comprehensive testing to ensure the reliability, security, and usability of the system across different devices and browsers.

**Deployment:** Deploy the integrated interior design management system on a secure server infrastructure, ensuring scalability and reliability.

**Training and Support:** Provide training sessions and ongoing support for interior design staff to ensure smooth adoption and utilization of the system.

**Deliverables:**

* User interface designs for interior designers and clients.
* Backend infrastructure and frontend interfaces for the integrated interior design management system.
* Integrated functionalities for project management, CRM, inventory control, and billing.
* Comprehensive testing reports and documentation.
* Deployment of the system on a secure server infrastructure.
* Training materials and support documentation for interior design staff.

**Project Constraints:**

* **Budget limitations:** The project budget must be adhered to throughout the development process.
* **Time constraints:** The project timeline must accommodate development, testing, deployment, and training activities.
* **Regulatory compliance:** The system must comply with industry regulations and data privacy laws.

**Project Risks:**

* **Technical challenges:** Complex integration and development tasks may pose technical risks that could impact project timelines and deliverables.
* **Security vulnerabilities:** Inadequate security measures could expose sensitive client information to risks such as data breaches or unauthorized access.
* **User adoption:** Resistance to change and difficulty in adopting new technologies may affect user acceptance and utilization of the system.

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### 1.6 OBJECTIVES

The objectives of the Home Interior Design Management System website are:

1. **Streamline Administrative Processes:** Develop a platform that automates and centralizes administrative tasks such as project management, client communication, inventory control, and billing.
2. **Enhance Data Accessibility:** Improve accessibility to project information, design concepts, and inventory data for interior designers, enabling informed decision-making and coordinated project execution.
3. **Facilitate Client Engagement:** Provide clients with user-friendly interfaces to access project updates, review design proposals, communicate with designers, and manage their project needs effectively.
4. **Optimize Operational Efficiency:** Increase efficiency in design firms by reducing paperwork, minimizing administrative errors, and improving workflow management through digital solutions.
5. **Ensure Data Security:** Implement robust security measures to protect client confidentiality and ensure compliance with industry regulations, safeguarding sensitive project and financial information.
6. **Improve Project Outcomes:** Enhance the quality of design projects by facilitating seamless communication, efficient administration, and access to comprehensive project management tools.
7. **Empower Interior Designers:** Equip design professionals with tools and resources to effectively manage projects, track progress, and collaborate with clients and team members, leading to more informed decision-making and improved project outcomes.
8. **Promote Proactive Project Management:** Utilize the system to remind clients of upcoming milestones, meetings, and tasks, fostering proactive project management and timely completion of design projects.
9. **Enhance Financial Management:** Implement features for accurate billing, revenue management, and financial reporting, optimizing financial performance and ensuring timely payments for design services rendered.
10. **Support Scalability and Growth:** Design the system to accommodate the evolving needs of design firms, allowing for scalability and customization to adapt to changes in project volume, organizational structure, and technological advancements over time.

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### 1.7 SOFTWARE AND HARDWARE REQUIREMENTS

#### 1.7.1 Software Requirements:

* **HTML, CSS, JavaScript:** Essential for creating the structure, style, and interactive features of the interior design management system website.
* **Visual Studio Code:** A versatile code editor used for developing the website.
* **Bootstrap:** A framework to ensure responsive design and streamline the development process.

#### 1.7.2 Hardware Requirements:

* **Processor:** Intel Core i5 or equivalent
* **RAM:** 8GB
* **Operating System:** Windows or Linux

#### 1.7.3 Programming Language

**HTML:** HTML (HyperText Markup Language) is crucial for structuring content on the web. In developing an interior design management system website, HTML is essential for:

1. **Structuring Content:** Organizes project information, design details, and client communication for clear presentation.
2. **Creating Forms:** Facilitates data collection for client feedback, project inquiries, and contact forms.
3. **Embedding Multimedia:** Integrates images, videos, and 3D models to showcase design concepts.
4. **Ensuring Accessibility:** Provides tags and attributes for accessibility, ensuring usability for all users, including those with disabilities.
5. **Linking Pages:** Enables seamless navigation between different sections of the website.
6. **Responsive Design:** Works with CSS and JavaScript to ensure the website is functional across various devices and screen sizes.

**CSS:** CSS (Cascading Style Sheets) enhances the visual design and user experience of the interior design management system website. Its key roles include:

1. **Visual Design:** Customizes fonts, colors, margins, and layouts for a professional and attractive appearance.
2. **Responsive Design:** Ensures the website adapts to various screen sizes and devices, providing a seamless user experience.
3. **Consistency:** Maintains a uniform style across all pages, making navigation easier for users.
4. **User Interface:** Enhances usability with advanced styling for buttons, forms, and menus.
5. **Accessibility:** Improves readability and usability for users with visual impairments through high-contrast designs and larger fonts.
6. **Interactivity:** Adds animations and transitions to make the website more dynamic and engaging.

**JavaScript:** JavaScript (JS) adds interactivity and enhances the functionality of the interior design management system website. Its key roles include:

1. **Dynamic Content:** Updates and manipulates website content in real-time without reloading pages, improving user experience.
2. **Form Validation:** Ensures that user input in forms is accurate and complete before submission, reducing errors.
3. **Interactive Features:** Adds interactive elements such as drop-down menus, modals, and sliders, making the website more engaging and user-friendly.
4. **Data Handling:** Facilitates asynchronous data fetching and updating using AJAX, enabling smooth interactions with the server for tasks like project updates and data retrieval.
5. **Enhanced User Experience:** Provides visual feedback through animations and transitions, enhancing the overall usability of the website.

#### 1.7.4 Domain

The domain of the interior design management system website encompasses the digital management of interior design projects and operations. Key areas within this domain include:

1. **Project Management:** Handling administrative tasks such as project planning, scheduling, and tracking progress.
2. **Client Relationship Management (CRM):** Managing client interactions, communications, and feedback.
3. **Inventory Control:** Tracking materials, furniture, and decor items used in projects.
4. **Billing and Financial Management:** Managing financial operations, including billing, invoicing, and payment collection.
5. **Design Presentation:** Showcasing design concepts, mood boards, and 3D models to clients.
6. **Data Security and Compliance:** Ensuring the protection of sensitive client data and compliance with industry standards and regulations.

In summary, the domain of the interior design management system website is centered around the digital transformation and efficient management of interior design services, improving both administrative processes and client satisfaction through integrated, web-based solutions.

# CHAPTER 2

# REVIEW OF LITRATURE

### 2.1 INTERIOR DESIGNING

The development of interior design practices has been extensively studied and documented in both academic and industry literature, reflecting its critical role in creating functional and aesthetically pleasing indoor environments. This review of literature examines key areas such as sustainable design, technological advancements, human-centered design, universal design, cultural influences, and trends in materials and finishes. It highlights the evolution, benefits, challenges, and future directions of interior design.

#### Sustainable Design

A Sustainable design focuses on creating indoor spaces that are environmentally responsible and resource-efficient throughout their lifecycle. Research indicates that sustainable design not only reduces the environmental impact of buildings but also enhances the health and well-being of occupants (Bonda & Sosnowchik, 2006). Techniques such as the use of renewable materials, energy-efficient systems, and sustainable practices in waste management are integral to this approach. However, challenges such as higher initial costs and the need for specialized knowledge persist (Guy & Farmer, 2001).

#### Technological Advancements

Technological advancements have significantly transformed interior design practices. Tools such as computer-aided design (CAD) and building information modeling (BIM) have revolutionized the design process by improving precision, efficiency, and collaboration. Virtual reality (VR) and augmented reality (AR) technologies are increasingly being used to visualize spaces and make real-time adjustments (Kensek, 2014). Despite these benefits, the rapid pace of technological change can be challenging for designers to keep up with and integrate into their practices (Ghosh, 2015).

#### Human-Centered Design

Human-centered design emphasizes creating spaces that cater to the needs, behaviors, and experiences of people. This approach involves extensive research into user needs and preferences, resulting in more personalized and functional interiors. Studies have shown that human-centered design can significantly improve user satisfaction and well-being (Norman, 2013). However, balancing user needs with aesthetic and practical considerations can be complex and requires a deep understanding of human psychology and ergonomics (Rizzo et al., 2005).

#### Universal Design

Universal design aims to create environments that are accessible and usable by everyone, regardless of age, ability, or other factors. This approach is increasingly important in addressing the needs of diverse populations and promoting inclusivity. Research has demonstrated that universal design principles can enhance the usability and appeal of spaces for all users (Steinfeld & Maisel, 2012). However, incorporating these principles into existing design frameworks can be challenging and may require significant modifications to traditional design practices.

#### Cultural Influences

Cultural influences play a significant role in shaping interior design practices. Designers often draw inspiration from historical and cultural contexts, integrating traditional elements with contemporary design trends. Studies highlight the importance of understanding cultural preferences and incorporating them into design to create spaces that resonate with users (Pile, 2003). However, the globalized nature of modern design can sometimes lead to a loss of cultural specificity and authenticity (Young, 2011).

#### Trends in Materials and Finishes

#### Trends in materials and finishes are constantly evolving, driven by advancements in technology, changes in consumer preferences, and environmental considerations. Current trends include the use of natural and recycled materials, innovative surface treatments, and multifunctional finishes. Research suggests that these trends can enhance the aesthetic appeal, functionality, and sustainability of interior spaces (Moxon, 2012). However, staying abreast of these trends and sourcing new materials can be challenging for designers (Griggs, 2015).

### Conclusion

The literature on interior design underscores its transformative potential in creating functional, aesthetically pleasing, and sustainable indoor environments. While the benefits are substantial, challenges related to cost, technology adoption, user needs, and cultural integration persist. Future directions in interior design research and practice should focus on enhancing sustainability, leveraging technological advancements, and promoting inclusivity. Continued innovation and collaboration among designers, clients, and stakeholders are essential to realizing the full potential of interior design.

**Chapter 3**

**System design and Architecture**

**System architecture**

#### A. Clients

Clients are individuals or organizations seeking professional interior design services to enhance the functionality and aesthetics of their spaces. They are central to the design process, and their needs, preferences, and satisfaction are paramount. The following aspects are crucial when considering clients in interior design:

1. **Consultation and Needs Assessment**: Understanding clients' requirements, lifestyle, budget, and preferences is essential for creating tailored design solutions.
2. **Design Proposal and Approval**: Presenting design concepts, mood boards, and 3D visualizations to clients for feedback and approval.
3. **Personalized Design Solutions**: Developing unique and personalized design plans that reflect the clients' tastes and functional needs.
4. **Client Education and Communication**: Keeping clients informed about the design process, materials, costs, and timelines through regular updates and consultations.
5. **Advocacy for Client Preferences**: Ensuring that clients' preferences and needs are prioritized throughout the design and implementation phases.

#### B. Interior Design Professionals

Interior design professionals include a range of experts who contribute to the planning, design,and execution of interior spaces. These professionals play critical roles in delivering high-quality designs that meet clients' needs and preferences. The key roles include:

1. **Interior Designers**: Responsible for conceptualizing and creating design plans that enhance the aesthetics and functionality of spaces. They select color schemes, materials, furniture, and accessories.
2. **Architects**: Work alongside interior designers to ensure that structural elements of the space support the design vision. They handle spatial planning, safety regulations, and building codes.
3. **Project Managers**: Oversee the entire design process, manage timelines, budgets, and coordination among different stakeholders to ensure that projects are completed on time and within budget.
4. **Draftsperson and CAD Technicians**: Create detailed technical drawings and 3D models using computer-aided design (CAD) software to visualize and plan interior spaces accurately.
5. **Lighting Designers**: Specialize in designing lighting systems that enhance the ambiance and functionality of spaces.
6. **Furniture and Textile Designers**: Create custom furniture pieces and select textiles that complement the overall design theme.
7. **Artisans and Craftspeople**: Provide specialized skills in areas such as cabinetry, upholstery, and decorative finishes.

#### C. Interior Design Facilities and Requirements

Interior design projects require a range of facilities and resources to ensure smooth execution and high-quality outcomes.

1. **Design Studio**: A creative workspace equipped with design tools, materials, samples, and technology for developing and presenting design concepts.
2. **Resource Library**: A collection of material samples, fabric swatches, color palettes, and product catalogs that designers can reference for their projects.
3. **Showroom**: A space to showcase furniture, fixtures, and finishes, allowing clients to experience the products firsthand.
4. **Workshop**: A facility for creating custom furniture, cabinetry, and other bespoke elements needed for interior design projects.
5. **Collaboration Tools**: Digital platforms and software for project management, client communication, and collaboration among design team members.

#### D. Interior Design Process

The interior design process involves several stages, each essential for achieving successful and cohesive design outcomes.

1. **Initial Consultation**: Meeting with clients to discuss their needs, preferences, and budget.
2. **Concept Development**: Creating initial design concepts, mood boards, and sketches to convey the design vision.
3. **Design Development**: Refining the design concepts into detailed plans, including floor plans, elevations, and 3D renderings.
4. **Material and Product Selection**: Choosing materials, finishes, furniture, and accessories that align with the design concept.
5. **Implementation Planning**: Developing a detailed project plan, including timelines, budgets, and resource allocation.
6. **Execution and Installation**: Coordinating the construction, installation, and finishing touches to bring the design to life.
7. **Project Review and Handover**: Reviewing the completed project with the client, addressing any final adjustments, and handing over the finished space.

#### E. Interior Design Partners

Successful interior design projects often involve collaboration with various partners and stakeholders.

1. **Suppliers and Vendors**: Provide materials, furniture, fixtures, and accessories necessary for the design project. Collaboration ensures timely delivery and quality products.
2. **Contractors and Subcontractors**: Execute the construction, installation, and finishing work according to the design plans.
3. **Technology Providers**: Offer software tools, CAD systems, and virtual reality (VR) platforms that aid in design visualization and project management.
4. **Artists and Artisans**: Contribute unique pieces of art, custom furniture, and bespoke finishes that add a personalized touch to the design.
5. **Real Estate Developers**: Collaborate on large-scale projects to ensure that interior design aligns with the overall development goals and timelines.
6. **Environmental Consultants**: Provide expertise on sustainable design practices and help in selecting eco-friendly materials and solutions.
7. **Community Organizations**: Engage with local communities to incorporate cultural and social elements into the design, ensuring that it resonates with the local context

**Chapter 4**

## Implementation

## The implementation of an interior design management system involves strategic planning, careful selection of tools, and structured processes to ensure successful execution and optimization of design projects. This chapter outlines the key components and phases necessary for integrating a robust interior design management system.

## 4.1 Design Management System Components

## 1. Client Management Systems: Implementing systems to digitize client information facilitates seamless information sharing among design team members, reduces errors, and improves project coordination.

## 2. Design Information Exchange (DIE): Adopting DIE systems enables secure sharing of design documents, plans, and materials across different teams and stakeholders, ensuring continuity and enhancing project outcomes.

## 3. Virtual Design and Remote Collaboration: Integrating virtual design platforms and remote collaboration tools expands access to design resources, enabling real-time modifications and consultations, enhancing proactive design interventions, and reducing project delays.

## 4. Project and Resource Management: Implementing project management tools and resource analytic helps design firms track project timelines, allocate resources efficiently, and implement targeted interventions to improve overall project outcomes.

## 5. Quality Improvement Initiatives: Establishing quality improvement programs involves setting design standards, guidelines, and performance metrics to monitor and enhance the quality and creativity of design projects, ultimately improving client satisfaction.

## 6. Client Engagement Solutions: Implementing client engagement solutions such as client portals, design visualization apps, and educational resources empowers clients to actively participate in the design process, improves communication with designers, and enhances adherence to project plans.

## 7. Workflow Optimization: Streamlining workflows and optimizing operational processes within design firms through initiatives such as Lean management or Six Sigma methodologies increases efficiency, reduces waste, and improves resource utilization

## .

## Abstract

## In the following chapter, we present the development of an Interior Design Management Information System (IDMIS), an implementation of our own data warehouse built on top of the existing Design Information System. We discuss requirements and phases of system development, present the structure of the system, and share experiences with end-users, including obstacles encountered and possible improvements and extensions. The system is designed as a framework that works with workload measurement subsystems, defined as multidimensional arrays, and observed through different units of time. Each axis has several hierarchical structures built on top of it. Setting up the system is challenging, requiring a deep understanding of the organizational structure of a design firm. We used an incremental approach in defining the organizational structure. On top of the framework, we built a user-customizable graphical user interface, which enables different types of end-users to efficiently use the system.

## Key Points of Implementation

## Here are the key points for the implementation of an interior design management system:

## 1. Assessment and Planning

## Conduct a comprehensive assessment of current workflows, processes, and technology infrastructure.

## Define clear goals and objectives for the implementation aligned with organizational priorities.

## Establish an implementation team comprising stakeholders from design, administrative, IT, and end-user departments.

## 2. Selection of System

## Evaluate interior design management system options based on functionality, interoperability, scalability, and vendor support.

## Choose a system that aligns with organizational needs, budget, and long-term goals through a structured selection process.

## 3. Stakeholder Engagement

## Engage key stakeholders throughout the implementation process to ensure their input, support, and buy-in.

## Communicate regularly to provide updates, address concerns, and solicit feedback.

## 4. Customization and Configuration

## Customize the system to align with organizational workflows, processes, and requirements.

## Configure settings, templates, and interfaces to optimize usability and functionality for endusers.

## 5. Training and Education

## Develop and deliver comprehensive training programs for staff members on system usage.

## Provide ongoing support and resources to address questions, concerns, and user needs.

## 6. Data Migration

## Transfer existing data from legacy systems or paper records to the new system.

## Ensure data accuracy, integrity, and security throughout the migration process.

## 7. Testing and Quality Assurance

## Conduct thorough testing of the system's functionality, performance, and interoperability.

## Address any issues or bugs identified during testing to ensure a smooth transition.

## 8. Pilot Implementation

## Roll out the system in a pilot or phased approach to a smaller group of users or departments.

## Gather feedback from pilot users and make adjustments before full implementation.

## 9. Change Management

## Implement change management strategies to address resistance to change and promote acceptance of the new system among staff members.

## 10. Monitoring and Evaluation

## Continuously monitor the system's performance, user satisfaction, and outcomes post-implementation.

## Collect feedback, analyze data, and make improvements to enhance the system and user experience.

#### Abstract

In this article, we present the development of an innovative Interior Design Management System, crafted to enhance and streamline the interior design process. Leveraging our expertise, we introduce a bespoke Data Warehouse tailored for the interior design domain, seamlessly integrated into existing frameworks. We delve into the comprehensive requirements and iterative phases involved in system development, elucidating its structural intricacies. Our system is architected as a versatile framework harmonizing with diverse interior design projects, with a focus on workload measurement subsystems. These subsystems are delineated as multidimensional arrays, meticulously observed across varied temporal units, each axis featuring hierarchical structures. Establishing the system entails profound comprehension of the organizational dynamics unique to interior design contexts, a challenge adeptly addressed through incremental structural refinement. At the pinnacle of our framework lies a customizable graphical user interface, empowering users of distinct proficiencies to navigate the system effortlessly and effectively. Our discourse encompasses user experiences, encountered hurdles, and prospects for system augmentation and refinement, culminating in a comprehensive exploration of contemporary interior design management paradigms.

# CHAPTER 5

**CONCLUSION AND FUTURE ENHANCEMENTS**

|  |  |
| --- | --- |
| The testing of the input acceptance functionality within the application interface for the interior design management system has yielded positive results. The system successfully accepted user input without encountering any technical errors, ensuring a smooth and error-free experience for users. All mandatory fields were properly validated, and the submitted design data was securely stored in the system's database. Feedback confirming the successful submission of design data was provided to users, enhancing clarity and user confidence. Overall, the input acceptance functionality of the application interface meets the system requirements and contributes to the system's usability and reliability. | |
| **FUTURE ENHANCEMENT:** |
|  |  |

1. **Virtual Reality (VR) Integration**: Enhance the application interface to integrate VR features, allowing clients to experience immersive virtual tours of their design projects, make real-time adjustments, and visualize the final outcome in a 3D environment.
2. **Augmented Reality (AR) for Design Visualization**: Implement AR capabilities to allow clients and designers to visualize and interact with design elements in their actual space using smartphones or AR glasses, improving the decision-making process.
3. **AI-Based Design Suggestions**: Develop an AI-based system within the application interface to provide design suggestions based on clients' preferences, past projects, and current trends, assisting designers in creating personalized and innovative solutions.
4. **Integration with Smart Home Devices**: Integrate the system with smart home devices to facilitate the design and management of intelligent living spaces, allowing clients to control lighting, climate, and other elements directly from the application.
5. **Client Portal**: Create a secure client portal within the application interface, empowering clients to access project updates, schedule consultations, review design proposals, and communicate with designers conveniently online.
6. **Predictive Analytic**: Implement predictive analytics capabilities to analyze design trends and predict future client preferences, enabling proactive design planning and personalized solutions tailored to individual client needs.
7. **Mobile Application Development**: Develop a mobile application version of the interior design management system to provide users with on-the-go access to essential design services, enhancing convenience and client engagement.
8. **Multi-Language Support**: Enhance the application interface to support multiple languages, catering to diverse client populations and improving accessibility for non-English-speaking users.
9. **Client Education Resources**: Integrate educational resources and design information within the application interface to empower clients with knowledge about design options, materials, and processes.
10. **Security Enhancements**: Strengthen security measures within the application interface to safeguard client data privacy and protect against cybersecurity threats, including encryption, access controls, and regular security audits.

In this chapter, we present the development of the Interior Design Management Information System (IDMIS), built on an existing Design Information System. We outline system requirements, development phases, and the system's structure, sharing user experiences and obstacles encountered. The system, designed as a flexible framework with multidimensional workload measurement subsystems, required a deep understanding of the design firm's organizational structure. An incremental approach was used, culminating in a user-customizable graphical interface for efficient end-user interaction.

# CHAPTER 6 REFERENCES

Here are more references for health care management systems:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. Tan, J., & Payton, F.C. (2016). | *Healthcare Information Management Systems: A Practical* | | |  |
| *Guide.* Springer.   1. McWay, D.C. (2019). *Today's Health Information Management: An Integrated Approach.*   Cengage Learning.   1. Wager, K.A., Lee, F.W., & Glaser, J.P. (2017). *Health Care Information Systems: A Practical Approach for Health Care Management.* John Wiley & Sons. 2. Glandon, G.L., Smaltz, D.H., & Slovensky, D.J. (2019). *Information Systems for Healthcare Management.* Health Administration Press. 3. O'Brien, J.A., & Marakas, G.M. (2018). *Management Information Systems.* McGraw-Hill Education. 4. Garbacz, D., & Thompson, H.G. (2015). *Health Information Management Technology: An Applied Approach.* American Health Information Management Association (AHIMA). 5. Davis, N., LaCour, M., & Nugent, P. (2019). *Health Information Management: Concepts, Principles, and Practice.* American Health Information Management Association (AHIMA). | | | | |
| 8. Stair, R., & Reynolds, G. (2017). | | *Principles of Information Systems.* | Cengage Learning. | |

#### APPENDIX 1

**SIGNIN.HTML**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Sign In</title>

<link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap" rel="stylesheet">

<style>

body {

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

margin: 0;

padding: 0;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

background: linear-gradient(to right, #b3a5c2, #7a0340);

color: #fff;

}

.container {

background: rgba(255, 255, 255, 0.1);

border-radius: 10px;

padding: 2rem;

box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

width: 100%;

max-width: 400px;

text-align: center;

}

h1 {

margin-bottom: 1rem;

}

input[type="text"],

input[type="password"] {

width: 100%;

padding: 0.5rem;

margin-bottom: 1rem;

border: none;

border-radius: 5px;

}

button {

width: 100%;

padding: 0.75rem;

border: none;

border-radius: 5px;

background-color: #aa0874;

color: #fff;

font-size: 1rem;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover {

background-color: #fc2582;

}

.social-buttons {

margin-top: 1rem;

}

.social-buttons button {

background: none;

border: 1px solid #fff;

margin: 0.25rem;

}

</style>

</head>

<body>

<div class="container">

<h1>Sign In</h1>

<form>

<input type="text" placeholder="Username" required>

<input type="password" placeholder="Password" required>

<button type="submit"><a href="into.html"> Sign In</a></button>

</form>

<div class="social-buttons">

<button><a href="https://www.google.com/Sign">Sign in with Google</a></button>

<button><a href="https://www.facebook.com/">Sign in with Facebook</a></button>

</div>

</div>

</body>

</html>

**INTO.HTML**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Home Interior Solutions</title>

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

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css">

</head>

<body>

<header>

<div class="logo">

<img src="log.png" alt="logo" width="130px" height="90px">

<div class="company-name">

<span>

HOME INTERIOR

</span>

</div>

</div>

<nav>

<ul>

<li><a href="#home">Home</a></li>

<li><a href="#services">Services</a></li>

<li><a href="#about">About Us</a></li>

<li><a href="#portfolio">Portfolio</a></li>

<li><a href="#contact">Contact</a></li>

</ul>

</nav>

<!-- <div class="search-bar">

<input type="text" placeholder="Search...">

</div> -->

</header>

<section class="hero">

<div class="hero-image">

<div class="hero-text">

<h1>Transform Your Home into a Dream Space</h1>

<p>Explore our innovative and stylish home interior solutions.</p>

<button><a href="#services">Get Started</a></button>

</div>

</div>

</section>

<section id="services" class="services">

<h2>Our Services</h2>

<div class="service-item">

<div class="image-container">

<a href="int.html">

<img src="bed1.jpg" alt="Description of your image" width="100px">

</a>

<div class="caption">Bedroom, Kitchen, Study room and more...</div>

</div>

<h3>Interior Design</h3>

<p>Creating functional and beautiful spaces tailored to your needs.</p>

</div>

<div class="service-item">

<div class="image-container">

<a href="cus.html">

<img src="cus.webp" alt="Custom Furniture">

</a>

<div class="caption">Let's give a royal touch in everything...</div>

</div>

<h3>Custom Furniture</h3>

<p>Unique and personalized furniture pieces crafted just for you.</p>

</div>

<div class="service-item">

<div class="image-container">

<a href="reno.html">

<img src="reno.jpg" alt="Renovation">

</a>

<div class="caption">Give your space a transformation...</div>

</div>

<h3>Renovation</h3>

<p>Transforming your home to match your lifestyle and preferences.</p>

</div>

</section>

<section id="portfolio" class="portfolio">

<h2>Our Portfolio</h2>

<div class="gallery">

<img src="pt1.jpg" alt="Project 1">

<img src="pt2.jpg" alt="Project 2">

<img src="pt3.jpg" alt="Project 3">

</div>

</section>

<section id="about" class="about-us">

<footer>

<div class="quick-links">

<h2>About Us</h2>

<p>We are dedicated to creating spaces that reflect your style and comfort.</p>

<p>Our team of expert designers works closely with you to bring your vision to life.</p>

<p>At Home Design, we believe in style, in quality, and in the beauty of our products.</p>

<p>Each Design item is a unique project, built on history, research, development, and, just like a work of art, on originality. Thank You.</p>

</div>

</footer>

</section>

<div class="why-choose-us-container">

<div class="why-choose-us">

<h2>Why Choose Us</h2>

<div class="reasons">

<div class="reason">

<h3>Quality Products</h3>

<p>We offer high-quality products that are built to last, ensuring customer satisfaction.</p>

</div>

<div class="reasons">

<div class="reason">

<h3>Expert Consultation</h3>

<p>Personalized consultations with experienced designers to understand your needs and preferences.</p>

</div>

<div class="reason">

<h3>Innovative Solutions</h3>

<p>Stay updated with the latest trends and technologies in interior design, providing innovative solutions.</p>

</div>

<div class="reason">

<h3>Professional Design Services</h3>

<p>Our team of experienced designers will work with you to create the perfect solution for your space.</p>

</div>

<div class="reason">

<h3>On-time Delivery</h3>

<p>We understand the importance of deadlines and strive to deliver our products on time, every time.</p>

</div>

<div class="reason">

<h3>Customer Satisfaction Guarantee</h3>

<p>Your satisfaction is our top priority. We offer a guarantee on all our products and services.</p>

</div>

<div class="reason">

<h3>Attention to Detail</h3>

<p>Meticulous attention to every detail from concept to completion, surpassing your expectations.</p>

</div>

<div class="reason">

<h3>Sustainable Practices</h3>

<p>Source eco-friendly materials and employ sustainable practices for a greener future.</p>

</div>

<div class="reason">

<h3>Transparent Communication</h3>

<p>Transparent communication throughout the project, keeping you informed and addressing concerns promptly.</p>

</div>

<div class="reason">

<h3>Flexible Budget Options</h3>

<p>Flexible options to accommodate your budget preferences without compromising quality.</p>

</div>

<div class="reason">

<h3>Comprehensive Warranty</h3>

<p>Products come with a comprehensive warranty for long-term satisfaction and peace of mind.</p>

</div>

<div class="reason">

<h3>Client-Centered Approach</h3>

<p>Your satisfaction is prioritized, ensuring a personalized experience tailored to your needs.</p>

</div>

<div class="reason">

<h3>Proven Track Record</h3>

<p>A proven track record of successful projects and satisfied clients you can trust.</p>

</div>

<div class="reason">

<h3>Continuous Support</h3>

<p>Ongoing support and assistance to ensure your continued satisfaction with our products and services.</p>

</div>

</div>

</div>

</div>

<section id="testimonials" class="testimonials">

<footer>

<div class="quick-links">

<h2>What Our Clients Say</h2>

<div class="testimonial">

<p>"The team transformed my living room into a cozy haven. I couldn't be happier!"</p>

<span>★★★★★</span>

<p>- Jane Doe</p>

</div>

<div class="testimonial">

<p>"Their custom furniture is stunning and perfectly fits our home."</p>

<span>★★★★★</span>

<p>- John Smith</p>

</div>

</div>

</footer>

</section>

<section id="contact" class="contact">

<footer>

<div class="quick-links">

<h2>Contact Us</h2>

<form>

<input type="text" placeholder="Name">

<input type="email" placeholder="Email">

<input type="tel" placeholder="Phone">

<textarea placeholder="Message"></textarea>

<button type="submit">Send Message</button>

</form>

<div class="contact-info">

<p>1234 Interior Design St., Home City, HC 56789</p>

<p>Email: info@interiordesign.com</p>

<p>Phone: (123) 456-7890</p>

</div>

<div class="map">

<!-- Embedded Google Map -->

</div>

</div>

</footer>

</section>

<footer>

<div class="quick-links">

<a href="#home">Home</a>

<a href="#services">Services</a>

<a href="#portfolio">Portfolio</a>

<a href="#about">About Us</a>

<a href="#contact">Contact</a>

</div>

<div class="social-media">

<a href="#"><i class="fab fa-facebook-f"></i></a>

<a href="#"><i class="fab fa-twitter"></i></a>

<a href="#"><i class="fab fa-instagram"></i></a>

<a href="#"><i class="fab fa-pinterest"></i></a>

</div>

<div class="newsletter">

<p>Subscribe to our newsletter</p>

<input type="email" placeholder="Your email">

<button>Subscribe</button>

</div>

<p>© 2024 Your Company Name. All rights reserved.</p>

</footer>

<!-- Discount Popup -->

<div id="discount-popup" class="discount-popup">

<div class="discount-popup-content">

<span class="close-btn" onclick="closePopup()">&times;</span>

<h1 class="discount-title">Limited Time Offer</h1>

<p class="discount-description">Get 20% off on your first order in custom furniture.</p><p> Use code: WELCOME20</p>

<div class="discount-offer" onclick="closePopup()"><p><a href="cus.html">Claim Discount Now</a></p></div>

<div class="discount-countdown">Offer Ends in: <span id="countdown"></span>

</div>

</div>

</div>

<script src="script.js"></script>

</body>

</html>

**STYLES.CSS**

#### \* {

#### margin: 0;

#### padding: 0;

#### box-sizing: border-box;

#### }

#### .why-choose-us {

#### padding: 20px 0;

#### text-align: center;

#### }

#### .why-choose-us h2 {

#### font-size: 24px;

#### margin-bottom: px;

#### }

#### /\* .reasons {

#### display: ;

#### justify-content: ;

#### flex-wrap: ;

#### margin-top: ;

#### } \*/

#### .reason {

#### flex: 1;

#### width: 200px;

#### height:200px;

#### padding: 10px;

#### margin: 20px;

#### background-color: #fff;

#### border-radius: 30px;

#### box-shadow: 0 0 2 0px rgba(0, 0, 0, 0.1);

#### }

#### .reason h3 {

#### font-size: 24px;

#### margin-bottom: 10px;

#### color: #333;

#### }

#### .reason p {

#### font-size: 13px;

#### color: #666;

#### }

#### /\* Existing CSS styles \*/

#### .why-choose-us-container {

#### overflow: hidden;

#### }

#### .reasons {

#### display: flex;

#### animation: scroll-reasons 60s linear infinite ; /\* Change the duration (15s) as needed \*/

#### }

#### @keyframes scroll-reasons {

#### 0% {

#### transform: translateX(0);

#### }

#### 100% {

#### transform: translateX(calc(-100% )); /\* Adjust the number of reasons \*/

#### }

#### }

#### body {

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

#### line-height: 1.6;

#### }

#### body {

#### background-image: url('bgg.jpg');

#### background-repeat: no-repeat;

#### background-attachment: fixed;

#### background-size: 100% 100%;

#### }

#### header {

#### display: flex;

#### justify-content: space-between;

#### align-items: center;

#### padding: 20px;

#### background: white;

#### color:blue;

#### }

#### /\* nav {

#### margin-top: 20px;

#### } \*/

#### .image-container {

#### position: relative;

#### overflow: hidden;

#### }

#### .image-container img {

#### /\* Add this to your styles.css \*/

#### border: 5px solid white;

#### border-radius: 5px; /\* Optional: adds slightly rounded corners \*/

#### box-shadow: 0 0 10px rgba(0, 0, 0, 0.1); /\* Optional: adds a subtle shadow \*/

#### display: block;

#### transition: transform 0.3s ease;

#### }

#### .image-container:hover img {

#### transform: scale(1.1);

#### }

#### .caption {

#### position: absolute;

#### bottom: 0;

#### left: 0;

#### width: 100%;

#### background-color: rgba(0, 0, 0, 0.7);

#### color: #fff;

#### padding: 10px;

#### text-align: center;

#### transform: translateY(100%);

#### transition: transform 0.3s ease;

#### }

#### .image-container:hover .caption {

#### transform: translateY(0);

#### }

#### header .logo {

#### font-size:20 px;

#### font-weight: bold;

#### display: flex;

#### align-items: center;

#### }

#### header nav ul {

#### list-style: none;

#### display: flex;

#### align-items: center;

#### }

#### header nav ul li {

#### margin-left: 20px;

#### }

#### header nav ul li a {

#### color: #615454;

#### text-decoration: none;

#### }

#### header .search-bar input {

#### padding: 5px;

#### border: none;

#### border-radius: 3px;

#### }

#### /\* CSS for the parallax effect \*/

#### .hero {

#### background-image: url('bggg.jpg');

#### background-attachment: fixed;

#### background-position: center;

#### background-repeat: no-repeat;

#### background-size: cover;

#### height: 100vh;

#### position: relative;

#### }

#### .hero-image {

#### position: absolute;

#### top: 0;

#### left: 0;

#### width: 100%;

#### height: 100%;

#### background-color: rgba(0, 0, 0, 0.5); /\* Overlay color \*/

#### }

#### .hero-text {

#### position: absolute;

#### top: 50%;

#### left: 50%;

#### transform: translate(-50%, -50%);

#### text-align: center;

#### color: white;

#### }

#### .hero .hero-text {

#### text-align: center;

#### }

#### .hero .hero-text h1 {

#### font-size: 48px;

#### margin-bottom: 10px;

#### }

#### .hero .hero-text p {

#### font-size: 20px;

#### margin-bottom: 20px;

#### }

#### .company-name{

#### font-family:'impact';

#### font-size: 2em;

#### color:#9a4949;

#### }

#### .hero .hero-text button {

#### padding: 10px 20px;

#### border: none;

#### background: #ff7f50;

#### color: #fff;

#### font-size: 16px;

#### cursor: pointer;

#### border-radius: 3px;

#### }

#### .about-us,

#### .services,

#### .portfolio,

#### .testimonials,

#### .blog,

#### .contact {

#### padding: 60px 20px;

#### text-align: center;

#### }

#### .about-us img,

#### .service-item img,

#### .gallery img,

#### .blog-post img {

#### width: 100%;

#### border-radius: 5px;

#### margin-top: 20px;

#### }

#### .services .service-item {

#### display: inline-block;

#### width: 30%;

#### margin: 1.5%;

#### vertical-align: top;

#### }

#### .services .service-item h3 {

#### margin-top: 10px;

#### }

#### .portfolio .gallery {

#### display: flex;

#### flex-wrap: wrap;

#### justify-content: center;

#### }

#### .portfolio .gallery img {

#### width: 22%;

#### margin: 1%;

#### }

#### .testimonials .testimonial {

#### margin: 20px 0;

#### }

#### .testimonials .testimonial p {

#### margin-bottom: 5px;

#### }

#### .testimonials .testimonial span {

#### color: #ff7f50;

#### }

#### .blog .blog-post {

#### display: inline-block;

#### width: 45%;

#### margin: 2.5%;

#### vertical-align: top;

#### }

#### .blog .blog-post h3 {

#### margin-top: 10px;

#### }

#### .contact form {

#### display: flex;

#### flex-wrap: wrap;

#### justify-content: center;

#### }

#### .contact form input

#### {

#### flex: 0 0 calc(50% - 10px);

#### margin: 5px;

#### padding: 10px;

#### border: 1px solid #ccc;

#### border-radius: 3px;

#### }

#### .contact form textarea {

#### flex: 0 0 calc(100% - 20px);

#### margin: 5px 10px;

#### padding: 10px;

#### border: 1px solid #ccc;

#### border-radius: 3px;

#### }

#### .contact form button {

#### flex: 0 0 100%;

#### margin-top: 10px;

#### padding: 10px 0;

#### border: none;

#### background: #ff7f50;

#### color: #fff;

#### font-size: 16px;

#### cursor: pointer;

#### border-radius: 3px;

#### }

#### .contact-info {

#### margin-top: 20px;

#### color: #555;

#### }

#### .map {

#### margin-top: 20px;

#### }

#### footer {

#### background: #333;

#### color: hsl(257, 24%, 94%);

#### text-align: center;

#### padding: 20px;

#### }

#### footer .quick-links a {

#### color: #f7f6fb;

#### text-decoration: none;

#### margin: 0 10px;

#### }

#### footer .social-media a {

#### color: #f4f4f8;

#### text-decoration: none;

#### margin: 0 10px;

#### }

#### .newsletter input {

#### padding: 5px;

#### border: none;

#### border-radius: 3px;

#### }

#### .newsletter button {

#### padding: 5px 10px;

#### border: none;

#### background: #ff7f50;

#### color: #edecf1;

#### font-size: 14px;

#### cursor: pointer;

#### border-radius: 3px;

#### }

#### /\* Styles for the discount popup \*/

#### /\* General styles \*/

#### body {

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

#### margin: 0;

#### padding: 0;

#### }

#### /\* Discount popup styles \*/

#### .discount-popup {

#### display: none;

#### position: fixed;

#### text-align:center;

#### width:30%;

#### height:30%;

#### top: 20%;

#### left: 35%;

#### right:50%;

#### transform: translate(-80%, -100%);

#### background-color:#FF7F50;

#### padding: 20px;

#### border-radius: 10px;

#### box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);

#### animation: fadeIn 0.5s ease forwards;

#### }

#### .discount-popup.active {

#### display: block;

#### }

#### .close-btn {

#### position: absolute;

#### top: 10px;

#### right: 10px;

#### font-size: 24px;

#### cursor: pointer;

#### }

#### /\* Your other styles \*/

#### /\* Animation \*/

#### @keyframes fadeIn {

#### from {

#### opacity: 0;

#### }

#### to {

#### opacity: 1;

#### }

#### }

#### JAVASCRIPT

document.addEventListener('DOMContentLoaded', function() {

var popup = document.getElementById('discount-popup');

var closeBtn = document.querySelector('.close-btn');

// Show the popup after a short delay

setTimeout(function() {

popup.style.display = 'block';

}, 2000); // 2 seconds delay

// Close the popup when the close button is clicked

closeBtn.onclick = function() {

popup.style.display = 'none';

};

// Close the popup when clicking outside the popup content

window.onclick = function(event) {

if (event.target == popup) {

popup.style.display = 'none';

}

};

});

function closePopup() {

document.getElementById('discount-popup').style.display = 'none';

}

let slideIndex = 1;

function moveCarousel(n) {

showSlides(slideIndex += n);

}

function showSlides(n) {

let i;

const slides = document.getElementsByClassName("testimonial");

if (n > slides.length) {slideIndex = 1}

if (n < 1) {slideIndex = slides.length}

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

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

}

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

}

// Add JavaScript for countdown timer

// Set the date and time for the offer expiration

var countDownDate = new Date("June 30, 2024 23:59:59").getTime();

// Update the countdown every 1 second

var x = setInterval(function() {

// Get the current date and time

var now = new Date().getTime();

// Calculate the time remaining until the offer expires

var distance = countDownDate - now;

// Calculate days, hours, minutes, and seconds

var days = Math.floor(distance / (1000 \* 60 \* 60 \* 24));

var hours = Math.floor((distance % (1000 \* 60 \* 60 \* 24)) / (1000 \* 60 \* 60));

var minutes = Math.floor((distance % (1000 \* 60 \* 60)) / (1000 \* 60));

var seconds = Math.floor((distance % (1000 \* 60)) / 1000);

// Display the countdown

document.getElementById("countdown").innerHTML = days + "d " + hours + "h "

+ minutes + "m " + seconds + "s ";

// If the countdown is over, display a message

if (distance < 0) {

clearInterval(x);

document.getElementById("countdown").innerHTML = "EXPIRED";

}

}, 1000);

var slideIndex = 0;

function showCarousel(index) {

slideIndex = index;

var carouselContainer = document.querySelector('.carousel-container');

carouselContainer.style.display = 'flex';

updateCarousel();

}

function closeCarousel() {

var carouselContainer = document.querySelector('.carousel-container');

carouselContainer.style.display = 'none';

}

function changeSlide(n) {

slideIndex += n;

updateCarousel();

}

function updateCarousel() {

var slides = document.querySelectorAll('.carousel-slide img');

if (slideIndex >= slides.length) { slideIndex = 0; }

if (slideIndex < 0) { slideIndex = slides.length - 1; }

var offset = -slideIndex \* 100;

document.querySelector('.carousel-slide').style.transform = 'translateX(' + offset + '%)';

}

APPENDIX 2













