



Daffodil
International
University

Project

(DYD) Design Your Dream – Interior Design Web Application

SUPERVISED BY

Mr. Syed Tangim Pasha

Lecturer

Dept. of Computing and Information System

Daffodil International University

SUBMITTED BY

Name:

Md Ashifuzzaman Akib

ID: 193-16-485

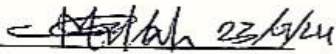
Dept. Computing and Information System

Daffodil International University

APPROVAL

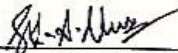
This Project titled “Design Your Dream(DYD)-Interior Design”, Submitted by Md. Ashifuzzaman Akib ID No: 193-16-485 to the Department of Computing & Information Systems, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computing & Information Systems and approved as to its style and contents. The presentation has been held on 23-01-2024.

BOARD OF EXAMINERS



Md Sarwar Hossain Mollah
Associate Professor and Head
Department of Computing & Information Systems
Faculty of Science & Information Technology
Daffodil International University

Chairman



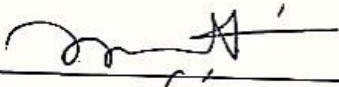
Dr. Shekh Abdullah-Al-Musa Ahmed
Assistant Professor
Department of Computing & Information Systems
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Md. Nasimul Kader
Assistant Professor
Department of Computing & Information Systems
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



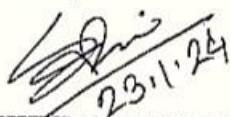
Prof. Mohammad Shorif Uddin,
Professor
Department of Computer Science and Engineering
Jahangirnagar University

External Examiner

Declaration

I hereby declare that; this project has been done by me under supervision of Mr. Syed Tangim Pasha, Lecturer, department of Computing and Information System (CIS) of Daffodil International University. I am also declaring that this project or any part of there has never been submitted anywhere else for the award of any educational degree like, B.Sc., M.Sc., Diploma or other qualifications.

Supervised By


23.1.24

Mr. Syed Tangim Pasha

Lecturer

Department of CIS

Daffodil International University

Submitted By



Name: Md. Ashifuzzaman Akib

ID: 193-16-485

Department of CIS

Daffodil International University

Acknowledgement

In order for execute this task correctly, I seek to harness the benevolence of the Divine Creator to empower me, granting me strength both physically and spiritually. This research completes the requirements for my Daffodil International University BSc (Honors) in Computing and Information Systems.

I express my gratitude to Mr. Sayed Tanzim Pasha, sir, my project supervisor, who is also my dear and esteemed teacher. He provided me with the necessary support, direction, inspiration, and actual direction throughout my project. I am unable to complete my project without strong and appropriate direction.

I'm eager to extend my appreciation to my classmet, relatives, and mentors for their exceptional support throughout the completion of this project. They truly are supportive and helpful.

And lastly, I sincerely thank Allah Almighty and praise him once more.

Dedication

This project is dedicated to my mother, who has been the inspiration behind my journey with her unfailing love, support, and encouragement. She has helped to form me into the person I am today with her sacrifice, selflessness, and faith in my abilities.

Mom, you have always supported and encouraged me, and you have been my ever-present source of strength. Your unending tolerance, comprehension, and advice have been very helpful to me as I pursue my interests in computer science and learning new things.

This endeavor exemplifies your steadfast commitment as a parent imparted to me. I have the confidence to push myself beyond my comfort zone and aim for greatness because of your unfailing faith in my skills.

In each line of code I craft, every implemented feature, and each achievement I attain, your help accompany me. My work have based on your belief in me, and I am grateful for that.

Executive Summary

The modern world is digitalizing everything, and people are moving away from traditional methods of living. DYD is one area where this is especially true. The DYD is a web-based application for interior design. It is a platform that is independent and constantly focuses performance on the work that needs to be done. It oversees comprehensive organizational systems, encompassing administrative management, product oversight, designer coordination, report administration, and administrative control. Web-based systems are helpful in understanding interior design because they manage the entire business process and record the specifics of both past and present work.

Abstract

A web-based interior design management system called DYD (Design Your Dream) aims to transform interior design procedures. Acknowledging the shortcomings of paper-based approaches, the project concentrates on utilizing dynamic systems' benefits for effective administration. With capabilities including product sales, designer portfolio management, product and package administration, user interaction, and thorough report generating, the system meets the wide range of demands of interior designers. To ensure efficient operations, administrators have strong control over organizational elements, user management, product portfolios, employee scheduling, and monthly reports. Online shopping is advantageous to customers, and designers may display their work schedules and portfolios. The success of web-based systems in improving user experiences and enabling smooth operations is demonstrated by the DYD project.

Table of Contents

Approval.....	i
Declaration.....	ii
Acknowledgement	iii
Dedication.....	iv
Executive Summary	v
Abstract	vi
Chapter 1-Introduction.....	13
1.1 introduction	13
Chapter 2- Initial Study	14
2.1 Background of the project.....	14
2.2 Scope of the study	14
2.3 Problem Area.....	15
2.4 Possible Solution	16
Chapter 3 - LITERATURE REVIEW.....	17
3.1 Discussion on the Problem Domain	17
3.2 Comparison of the leading solutions	18
3.4 Recommended Approach.....	20
Chapter 4 - METHODOLOGY.....	21
4.1 What to use.....	21
4.2 Choosing Methodology.....	21
4.3 Why to use.....	21
4.4 Section Of Methodology.....	21
4.5 Implementation Plan.....	23
Chapter 5 - PLANNING	24
5.1 Project Planning.....	24

5.2 Work Breakdown Structure.....	24
5.2.1 Time Boxing.....	25
5.2.2 Gantt Chart	27
Chapter 6 - FEASIBILITY	28
6.1 Operational Feasibility.....	28
6.2 Technical Feasibility.....	28
6.3 Economic Feasibility	29
6.4 Cost Benefit Analysis.....	29
6.5 Market Research Analysis	30
Chapter 7 - FOUNDATION.....	32
7.1 Overall Requirement List	32
7.1.1 List of requirements.....	32
7.1.2 List of Nonfunctional requirement	33
7.2 What Technology to be implemented	33
Chapter 8 - EXPLORATION.....	35
8.1 Old System Use Case Diagram.....	35
8.2 Old System activity diagram.....	36
8.3 Activity Diagram of Admin.....	37
8.4 Activity Diagram of Customer	37
8.5 Prioritized Requirement Table	39
8.6 Prototype of new system	40
Chapter 9 - ENGINEERING.....	43
9.1 New System-Modules.....	43
9.2 New System use case.....	44
9.8 System Interface Prototype	45
Chapter 10 - DEPLOYMENT.....	48
10.1 Core Module Coding Sample.....	48

10.2 Image Generation model	48
10.3 Possible problem breakdown	51
Chapter 11 -TESTING.....	53
11.1 Test case	53
11.2 Unit Testing.....	54
11.3 Module Testing	57
11.4 Integration Testing.....	59
Chapter 12 - IMPLEMENTATION	62
12.1 Training	62
12.2 Big bang	63
12.3 Recommended implementations process.....	63
Chapter 13 - Critical Appraisal and Evaluation	64
13.1 Objective Could be Met.....	64
13.1.2 Features solution.....	65
13.1.3 Features that could not touche.....	66
Chapter 14 -CONCLUSION	66
14.1 Summary of the project	66
14.2 Goal of the project.....	67
14.3 My Experience	67
REFERENCES	68
Plagiarism Report.....	69

List of Tables

Table 1: WBS	24
Table 2: Time boxing	26
Table 3: Cost benefit analysis.....	29
Table 4: Total earn	29
Table 5: Total Revenue.....	30
Table 6: Prioritized Requirement table.....	39
Table 7: Unit Testing	54
Table 8: Module Testing	57
Table 9: Integration testing.....	59
Table 10: Training.....	62

Table of Figures

Figure 1: DSDM Process	22
Figure 2: Gantt Chart.....	27
Figure 3: Full System Use case	36
Figure 4: Admin Activity Diagram.....	37
Figure 5: Customer Activity Diagram	38
Figure 6: Registration prototype	40
Figure 7: Sign up prototype.....	41
Figure 8: Add categories prototype	42
Figure 9: New system use case	44
Figure 10: Wishlist prototype.....	45
Figure 11: Booking list Prototype	46
Figure 12: Service list Prototype.....	47
Figure 13: Image generator code.....	48
Figure 14: Interior design model one.....	49
Figure 15: Interior design model one.....	50
Figure 16: Interior design Model three.....	51
Figure 17: Unit testing registration.....	55
Figure 18: Unit testing registration outcome	55
Figure 19: Unit testing registration successful.....	56
Figure 20: Unit testing home page	56
Figure 21: Module testing add categories.....	58
Figure 22: Module testing categories name.....	58
Figure 23: Module testing design description.....	59
Figure 24: Integration testing log in	60
Figure 25: Name fill up	61
Figure 26: Log in Success	61
Figure 27: Plagiarism Report.....	69

Chapter 1 : Introduction

1.1 Introduction

Contemporary individuals have penchant digital organization. All information is simply accessible and can be kept for later use. However, the paper-based method is laborious and not always helpful. When it require information, they are unable to get it here. Therefore, it is improper for any kind of business. These arrangements are bad for governance. I like the dynamic system because of these factors. Web-based interior design application with image generation tools are my choice in this instance. The individual who crafts, discovers, orchestrates, and supervises such tasks is an interior designer. In the realm of interior design, concept ideation, field layout, on-site investigation, coding, team involvement, managerial oversight, and project implementation constitute just a handful of the myriad processes involved. If this work is done on paper, it will be highly challenging for the workers because it requires a lot of preparation, research, design, and implementation of a sketch that is found online. Additionally, the organization manages a variety of tasks here, including product sales, AI design for designers, product management, user management, report management, etc. These factors influenced my decision to construct the project using web-based technology. Customers can simply purchase their products online here. The administrator has access to the report's data, including the profit and loss information. Users have access to updating their profile, viewing designer portfolios, purchasing products, searching products, liking any blog, and more. Sy, the administrator can oversee any organization, user, product, worker schedule, update any blog, respond to comments, oversee monthly reports, and more. So, designer can showcase their significantly choice in opting for the web-based interior design application known as DYD-Design Your Dream.

Chapter 2 : Initial Study

2.1 Background of the project

Interior design management called manual process, people frequently run into issues. The intricacies of this interior design elude full comprehension by many. There's a burgeoning curiosity among individuals regarding the processes behind these works in recent times. Interior design managers encounter a wide range of issues if they operate in an analog manner. The process carried out the analog approach is time-consuming. These factors cause people to struggle greatly and disregard home design. Many also struggle to articulate the correct design. The interior designer also finds it challenging to grasp their preferences with fluency. The process of creating a sketch by hand takes a while for the designer. Should something go wrong, the designer draws another sketch. Furthermore, the merchandise is difficult to handle here. DYD-Design Your Dream project. It is digitally operated. It is easy to handle the entire interior design here. The dynamic approach can aid in business management. The anticipated result of the management system's dynamic control over interior design is interior design. After this system is fully developed, it should be able to create blogs, process orders, manage messengers, check reporting formats, Design with AI , and more. Production and the fundamental elements of the sales model. Once created, the administrator can purchase and market the item. Administrators can oversee monthly reports and display the earnings and loss of the company. The user can display their website by logging into their page. Users have the freedom to cherry-pick the interior packages they need. Additionally, they can peruse the designer's portfolio and witness a live demonstration of their craftsmanship. Moreover, users are empowered to effortlessly hunt for their desired product. Using add cart, users can purchase their products. They are also able to download their invoice. Additionally, the designer can access their website to view their portfolio and work schedule.

2.2 Scope of the study

The IT sector, offering fluency in particular facts of web engineering. In the mean time local point remains on crafting interior design web application, it also affords window in expansive it sector.

The purpose of this scope study is to provide light on the complexities of the web development work done for this cutting-edge interior design management system, with a focus on the IT development industry and the DYD (Design Your Dream) project in particular. Although the study's main focus is on the DYD system's development, it also offers a more comprehensive view of the project's larger framework for IT development.

The following topics are covered by the research, which clarifies the essential elements necessary to meet the project's specified goals and objectives:

Development Tools: The report outlines the instruments used in the DYD project's development. In this case, we will find software. Technologies are essential for guaranteeing effective team cooperation and optimizing the development workflow.

Languages Used in Development: Programming languages that are necessary for developing the interior design management system are the main focus of this section. The study looks at how the system's functionality and user interface are implemented using languages like HTML, CSS, JavaScript, and AI Image creation.

Frameworks: In the report, the use of frameworks is discussed, with a focus on the integration of AI image generation. This feature facilitates code reuse, speeds up development, and offers a solid framework for constructing the DYD system.

APIs: The research delves into the integration of external APIs, emphasizing the criticality of enhancing customer. Order confirmations blog engagements are just two examples of the many system activities for which APIs enable smooth interactions and prompt alerts.

This study's focus on these particular areas offers firms engaged in web development vital insights and practical knowledge, serving as a point of reference for comprehending the use of technologies and techniques within the framework of the DYD project.

2.3 Problem Area

For Bangladeshis, interior design with AI is a novel idea. People these days are interested in decorating their rooms and have understanding about interior design. A system for managing interior design can satisfy people's needs. The environment that is being discussed here is ideal for their room. Through interior design, people in Bangladesh can realize their dreams. Given these rationales, the company aims to approach interior design with a fluid and vibrant approach. However, there are a few issues, which are listed below.

- Every product detail needs to be entered accurately.

- ▶ Information from old reports needs to be entered accurately. If incorrect
- ▶ information is entered here, the business may encounter numerous challenges.
- ▶ The administrator needs to be familiar with their websites.
- ▶ The customer needs to be familiar with their websites and understand how to use them.
- ▶ The designer needs to be well-versed on their websites.
- ▶ If someone is unable to operate with websites, they need to have training specific to the website.
- ▶ Could pose a risk to the security of customer information.

2.4 Possible Solution

After conducting the areas of concern i adopt a unique approach to design, which requires adept problem-solving skills. I took great care to enter their product information when I was developing the system. As though the business could effortlessly maintain its offerings. Additionally, make sure to correctly enter the information in their reports, as this is where their business's profit or loss is most visible. Website training is required. Security is also a priority because it causes customers a lot of inconveniences. Had I focused on the solution during the development of the systems.

Chapter 3 : Literature Review

An effective project research depends greatly on the literature review. By using this evaluation, we may learn about the details of the present system and contrast our work with it to identify updated features for our current system. Thus, we will analyze the current system and its shortcomings in this part.

3.1 Discussion on the Problem Domain

The interior design industry is characterized by a dynamic landscape that is always changing, as more and more homes are hiring interior designers. Today, interior design is a common element of house decor, unlike ten years ago when only the wealthy could afford to hire such services. The interior design sector faces a number of obstacles in spite of its growth.

For interior design firms, cost control is a major challenge that includes operating, labor, material, advertising, and communication costs. Keeping property costs under control becomes especially difficult when projects take longer than expected or involve client-initiated changes that could have a negative financial impact. Another issue facing the interior design industry is the lack of pricing transparency. Because costs vary widely and are frequently influenced by the source of furniture, designers always battle to negotiate acceptable prices. Customers are under pressure to compare costs as a result of this disparity, which breeds uncertainty. Design ideas are frequently modified in response to evolving customer expectations, which are shaped by a wealth of internet design resources. Effective communication and flexibility from designers are necessary to strike a balance between the practicalities of implementation and the clients' demands for excellence.

Effective time management is a crucial component of interior design, requiring team members to be proficient in scheduling and collaboration. The time-consuming nature of design work makes meeting deadlines a constant struggle for designers.

In addition, because different styles are required to accommodate the various tastes of each client, interior designers frequently encounter difficulties finding one-of-a-kind furniture and décor. Even with the potential answers provided by customized websites and digital marketing tools, the logistics of physically looking for beautiful, high-quality pieces remain a time-consuming effort. All things considered, the interior design industry faces a variety of difficulties that are indicative of the dynamic changes and continuous expansion of this field.

3.2 Comparison of the leading solutions

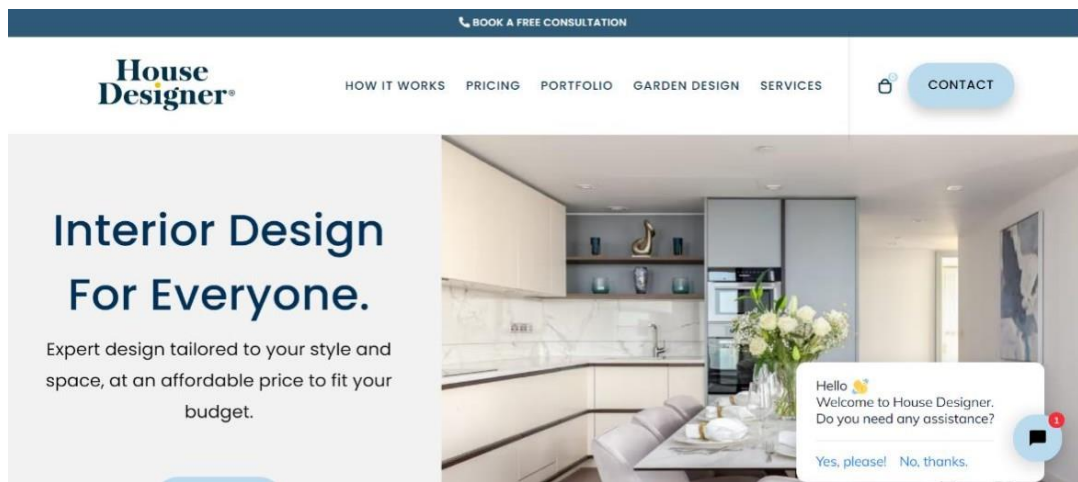
In order to provide the group with the best answer, I compare the 3/4 main project here. These important websites, which will be compared, are mentioned below.

Imagine Interior:



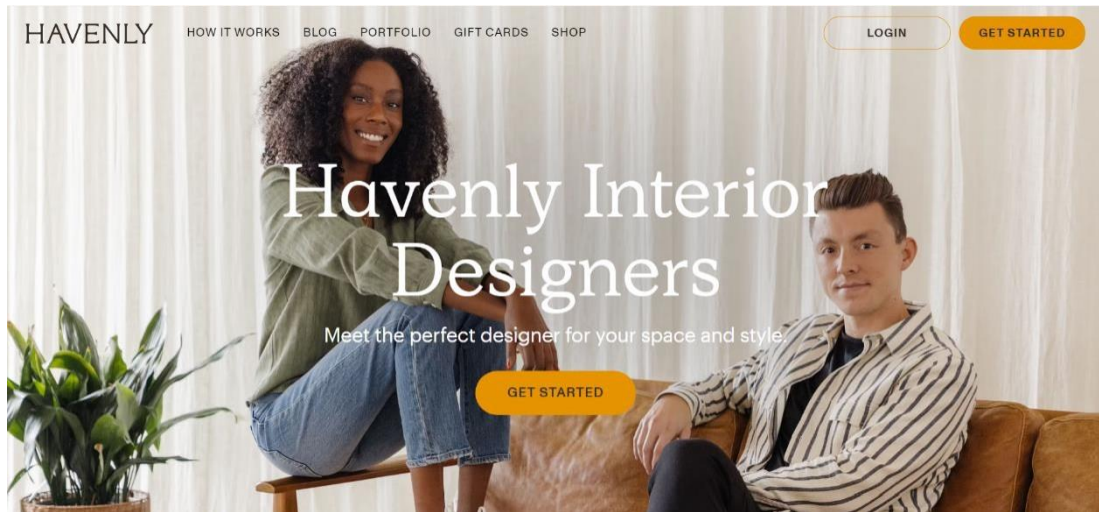
Users can visit a user-friendly website using the online Interior Management System. The website contains all of the necessary elements, such as information about the residence, services provided, a full portfolio, testimonials, contact data, and a blog section. Users are free to add a variety of blogs, giving the platform a more unique feel. In addition, people can display their whole portfolios, which highlight their abilities and knowledge. The system provides a wide range of services, from the design of furniture to other elements. Notably, users of the website can easily share their contact details by using the easily accessible choices. It's important to remember, though, that the system does not currently have security protections in place, which permits unfettered access to data. This feature makes the platform accessible to all users, highlighting the necessity of putting security measures in place to protect private information and uphold the integrity of the Interior Management System [1].

House designer:



The website makes it easier to comprehend how it works by providing clear descriptions for each function. By outlining interior design expenses, it promotes transparency and empowers clients to make well-informed decisions. Through before-and-after displays, the platform makes it easier for clients to showcase their work, increasing portfolio visibility. The live chat feature facilitates direct communication between clients and the business, guaranteeing timely answers to questions. Nevertheless, there are several drawbacks, such as missing essential elements and slow reaction times, which call for a careful investigation of all feasible options. The "add to cart" feature facilitates the process of selecting services, and blogs add to the overall user experience. The website aims to provide users with a complete and dynamic platform, despite a few issues [2].

Havely:



The website has educational components that make operational procedures clear and easy for users to understand. Users of the platform can search and discover different stories, and they are given the option to share their own narratives. The website makes it easier to explore and demonstrate various room settings, such as offices, dining rooms, living rooms, and bedrooms. Customers can also personalize their lifestyle choices on the platform. Despite that, the website's interface design lacks user-friendliness, and the navigation bar isn't particularly visually appealing. These shortcomings draw attention to areas that might be improved to improve the user experience in general [3].

3.3 Recommended Approach

This is optimal cultivate employing agile approach focused in importance needs also ensuring that these needs are adequately addressed to ensure seamless and effective transitions in their work without encountering any hindrances. Before commencing, it is imperative to formulate and execute a risk management strategy. Once in place, the acceptance criteria should be incorporated. Regardless of the scenario, completing this project punctually and with superior functionalities is paramount.

Chapter 4 : Methodology

4.1 What to use

Dynamic systems design methodology, rapid application development (RAD), and spiral model (v-model) are among the most widely used software development techniques. Three software development methodologies' benefits and drawbacks will be covered in this article. A water fall model, DSDM approach is utilized in software engineering to ensure efficient project management and development.[4].

4.2 Choosing Methodology

The right methodology must be chosen while taking into account several criteria. It takes user requirements to select the appropriate methodology. Hence, bearing that in consideration, I've opted to implement DSDM for this web application project. offers highly adaptable. The consumer is also greatly satisfied when they are involved in the development stage, both as a client and as a user. Another benefit is that, should modifications be needed, customization is simple [5].

4.3 Why to use

There are many different project techniques available with DSDM. It benefits us by cutting down on project duration and raising project quality. Even though working with stakeholders to make modifications might be difficult, we I firmly believe that this is the optimal approach to implement for interior ai design system.

4.4 Sections of Methodology

The stages and features of DSDM are numerous. For this resort booking system, the six DSDM steps are: The six unique steps of the DSDM (Dynamic Systems Development Method) software methodology are intended to promote a successful and economical software project development life cycle.

Each step, when carefully followed, meets business goals and user needs while promoting incremental and iterative development.

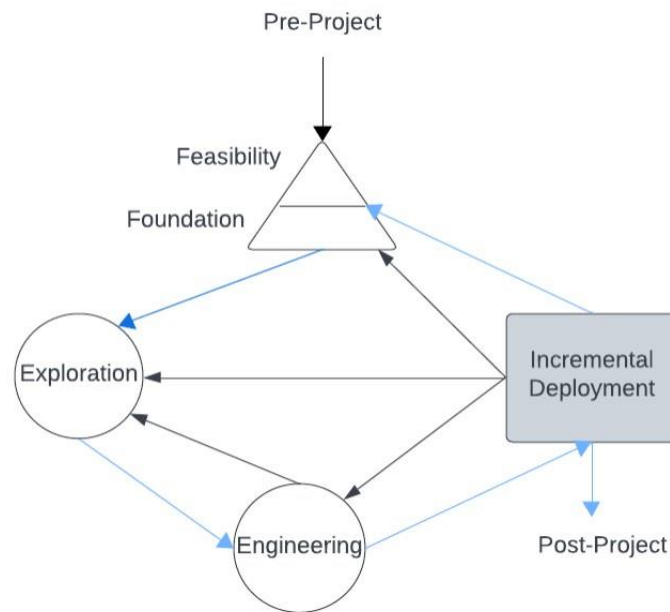


Figure 1 : dsdm life cycle

Feasibility and Business Study Stage:

On here in the dsdm cycle, all member meticulously assess the economic and practical feasibility of their software project, as well as any risks or benefits that may be involved, through a business study and feasibility analysis. In the end, this phase seeks to decide whether to move further with additional phases or to stop working entirely.

Functional Model Iteration Stage:

A project team starts using an iterative approach at this stage of the process by creating an initial functional model that shows important software features. This model serves as an initial prototype, facilitating early user engagement and feedback collection during the developmental phase.

This functional model can be further refined through subsequent iterations to better suit changing user and business requirements.

Design and Build Iteration Stage:

This is the stage where focus shifts to creating software for execution and turning the functional model into a physical design. Collaboratively, the project team members craft the framework, enumerate the system components, and conceptualize every single feature or module prior to commencing the development phase. This iterative process transforms designs into operational code, facilitating continuous feedback loops to ensure alignment with both technical specifications and user needs.

Implementation Stage:

Project teams initiate the subsequent phase of software development upon its attainment of maturity, proceeding to deploy it within production environments. They subject it to thorough testing by either external vendor or internal personnel. This phase aims ascertain alignment. During this evaluation must undergo rectification prior to advancing to the subsequent implementation phase.

Post-Project Stage:

The last step in the DSDM software approach is to evaluate and review finished projects. Teams come together to provide in-depth analyses of the functionality, performance, and user satisfaction of built software applications. In order to identify areas for improvement, they compare this success to their original business case. The lessons acquired during this phase are then recorded for use in subsequent software development projects for organizational learning and continuous improvement.

4.5 Implementation Plan

Customer has the ability to utilize the completed system.. This is where the system's schedule programs, project parameters, and release guidelines are set. It is time to release the system for beta testing. A few of the project's modules are made available to users upon request.

Chapter 5 : Planing

5.1 Project Planning

Effective planning is crucial for every endeavor. It involves identifying the task requirements, creating schedules, allocating budgets, considering risks, and organizing work. This approach facilitates developers in comprehending their needs more easily and implementing them appropriately. All the aspects covered in this section align with the overall design. Breaking down the project into smaller, more manageable segments is the next step. Subsequently, each component is arranged accordingly. This stage marks the inception of the process and serves as the decision-making hub.

5.2 Work Breakdown Structure

Every task is executed on time, to the best of the project team's ability. The project team's creation of a "multi-level rescue zone" can be bolstered by leveraging the work breakdown structure. This facilitates pinpointing areas for improvement and key insights that foster collaboration. Breaking down labor ensures each level of work, from foundational to intricate, is clearly delineated. Employing the work breakdown structure block optimizes outcomes, establishing a solid foundation for a well-planned breakdown structure:

Table 1: WBS

No.	Task description	Time	Start	End
01	Registration and log in system should be create.	7 days	01/08/2023	08/08/2023
02	Information about designs and images should be added, updated, and removed by the seller.	5 days	08/08/2023	13/08/2023
03	The status update should be consistently maintained and kept current in real-time.	7 days	13/08/2023	20/08/2023
04	Customers should be able to search product based on their preferences.	9 days	20/08/2023	29/08/2023

05	It should be possible for customers to make reservations and complete safe online payments.	15 days	30/08/2023	16/09/2023
06	Booking confirmations and receipts should be generated by the system.	15 days	16/09/2023	01/10/2023
07	Real-time tracking of the design store's availability is required by the system in order to avoid duplicate reservations.	12 days	01/10/2023	13/10/2023
08	Buyer should be able to update profile.	10 days	13/10/2023	23/10/2023
09	The implementation of user authentication is necessary to guarantee secure system.	14 days	23/10/2023	06/11/2023
10	Provide report, feedback,rates and revenue.	7 days	06/11/2023	13/11/20233

5.2.1 Time Boxing

A project management method called "timeboxing" is applied in software development to set aside specific times, or "timeboxes," for particular tasks or activities. Software development teams can improve time management techniques, boost productivity, and concentrate on completing tasks within designated deadlines by implementing timeboxing [6]. as timeboxing is used in development iterations, team members collaborate more effectively, establishing rhythm and cadence when goals are reached and promoting a general sense of accomplishment as goals are reached [7].

Table 2: Timeboxing

No	Task_description	Time	Resource
1	Registration and log in system create should be create.	7 days	User, Developer
2	Information about designs and images should be added, updated, and removed by the seller.	5 days	Developer, User, Admin
3	The maintenance and real-time updating of status should be upheld consistently.	7 days	Developer, User, Admin
4	Customers ought to have the capability to effortlessly browse products according to their preferences.	9 days	Developer, User
5	It should be possible for customers to make reservations and complete safe online payments.	15 days	Developer, User
6	Booking confirmations and receipts should be generated by the system.	15 days	Developer, Analyst
7	Real-time tracking of the design store's availability is required by the system in order to avoid duplicate reservations.	12 days	Developer, Analyst
8	The purchaser ought to have the capability to refresh their profile.	10 days	Developer, User
9	The implementation of user authentication is necessary to guarantee secure system access.	14 days	Developer, User, Admin
10	Provide report, feedback, rates and revenue.	7 days	Developer, Analyst

5.2.2 Gant Chart

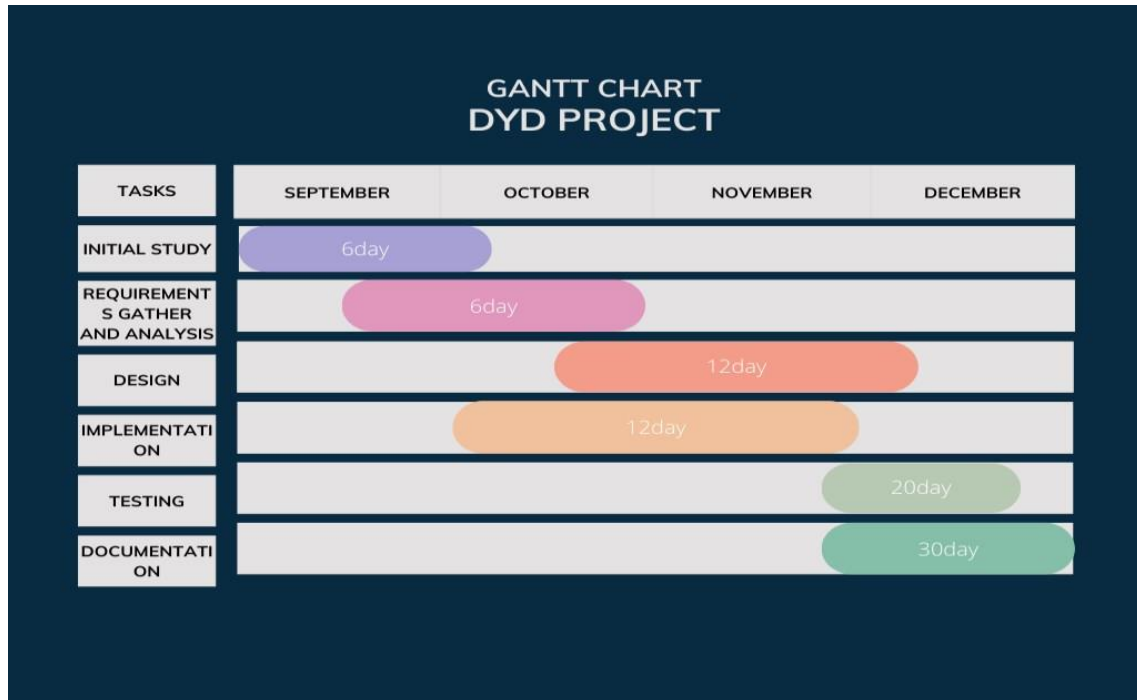


Figure 2: Gant Chart

Chapter 6 : Feasibility

6.1 Operational Feasibility

Different kinds of businesses can manage their interior design dynamically with this technology. This system has a user called admin. Administrators have the ability to oversee customers, upload, delete, modify, and administer product descriptions within this platform. They can also set up blogs where consumers can leave comments, display the resumes of interns, control the schedule of designers, manage product orders, manage bundles, and more. The administrator can also make all decisions regarding the interior design firm. Here, I'll provide the system a better functioning capability.

- Added every product with ease.
- Easily accessible of the system.
- Blogs are simple to update.
- Simplicity in system maintenance

6.2 Technical Feasibility

Our web-based solution can be operated with just one PC and one server. In this situation, the client functions as the PC, while the server operates as the endpoint PC. The server is responsible for storing all the data generated by the system, which is then transmitted to the client as required.

6.3 Economic Feasibility

The DYD (Design Your Dream) project has a promising future in terms of sustainability and financial viability, according to its economic feasibility. An increase in homeowners seeking professional design services has resulted in a boom in demand for interior design services. The DYD project has a great chance to profit from this developing market by taking advantage of the growing clientele. By furnishing a web-based Interior Design Management System, the project aims to enhance client experiences, attract a diverse user demographic, and streamline design procedures. A strong economic model is supported by the prospective revenue streams, which include product sales, designer services, and user subscriptions. The project also tackles the issues of cost management that interior design firms encounter, encouraging productivity and lowering the possibility of monetary losses. The DYD project has a positive overall economic outlook, promoting itself as a valued and financially viable option in the market and in line with current interior design industry trends.

6.4 Cost Benefit Analysis

Below, you'll find an assessment detailing the projected expenses and advantages of the proposed framework. This statistical study highlights the unreliability of the current industry. Currently, any online employment requires one day. The user will benefit from utilizing this structure:

Table 3: CBA

No.	Task	1 Period	2 Period	3 Period	4 Period	Total
1	Cost of Software	40,000/=	-	-	-	40,000/=
2	Cost of hardware	70,000/=	-	-	-	70,000/=
3	Live hosting	10,000/=	10,000/=	10,000/=	10,000/=	50,000/=
4	Cost of office	25,000/=	25,000/=	25,000/=	25,000/=	100,000/=
5	Cost of staff	25,000/=	25,000/=	25,000/=	25,000/=	100,000/=
6	Cost of development	5,500/=	5,500/=	5,500/=	5,500/=	22,000/=
7	Others	10,000/=	10,000/=	10,000/=	10,000/=	40,000/=
	Total=	185,500/=	75,500/=	75,500/=	75,500/=	422,000 /=

Total Earn:

Table 4: Total Earn

No.	Task	Period 1	Period 2	Period 3	Period 4	Total
1	E-commerce earning	80,500/=	160,500/=	240,500/-	320,500/=	800,500/=
2	Add earning	-	15,000/=	30,000/=	50,000/=	95,000/=
3	Google earning	40000/=	50000/=	60000/=	110000/=	161,000/=
	Total	120,000/=	225,000/=	330,000/=	381,0000/=	1,056,000/=

Total Revenue:

Table 5: Total Revenue

No.	Task	Period 1	Period 2	Period 3	Period 4	Total
1	Summation of earning	120,500/=	225,500/=	330,500/=	381,500/=	1,056,500/=
2	Total expenditure	185,500/=	75,500/=	75,500/=	75,500/=	422,000/=
	Total revenue	305,500/=	300,500/=	405,500/=	456,500/=	1,478,000/=

6.5 Market Research Analysis

The web application for managing interior design is being developed in a dynamic manner. People in Bangladesh are becoming more interested in interior design management these days. They want every area of their interior designer-managed home, business, building, school, etc. to be digitally decorated. The facility management system for interior design facilitates knowledge of this task. In this case, all business was managed using the web-based system. consumers can be managed, product descriptions can be uploaded, deleted, edited, and managed, blogs can be created where consumers may leave comments, and intern resumes can be shown.

Customers have option to sign in to their system, where they can seamlessly access and peruse product specifics, order goods for delivery, view and download invoices, view packages, view previous work, and respond to inquiries about writing blogs, updating profiles, choosing interior packages, and other features.

Bangladesh does not have a solid interior design application with image generation AI tools, which is why I chose it. Here, interior design is more expensive and time-consuming. I'm attempting to

address client interest as a result. As though clients could speak with ease and are enthusiastic about the company's job. I wish to develop this method in order to take advantage of this market.

Chapter 7 : Foundation

7.1 Overall Requirement List

There are two categories of needs in software engineering: functional requirements and non-functional requirement. Below are a few criteria:

7.1.1 List of functional requirements:

Sample manage: Product details managed by admin. Admin has the ability to verify products, update the items, add and remove products, and modify product details. The buyer can also view every product and make a purchase.

Order setup: The user may quickly select the product, add it to their cart, and confirm their order. Admin has control over the order procedure. The administrator can view both the completed and outstanding order statuses here. Additionally, change the product's status to pending, delivered, shipped and cancelled.

Blog setup: Blogs can be arranged by the administrator. He is capable of writing any kind of blog. Utilize the blogs to update their firm information. On these blogs, he can also leave comments. Customers can like the blogs and leave any kind of comment here with ease. displays and responds to the remarks left by customers. You can add any PDF, picture, etc. here.

Report check: Admin can see the monthly, weekly, yearly reports. Admin can display his benefits and losses here and keeps up it's business report.

Rating: The client works with the business and displays their webpage. Customers may rate the company's performance.

Search: Customers can look up any product they want from the company. They can display all of the product's details here.

Image Generation AI: Designer or seller can design via AI here. The AI can provide insight into their interior design concept.

7.1.2 List of nonfunctional requirements:

Verification: Website uses to function. Here, customers can visit their details after being verified.

Security: The website is secure while operating. Customers can readily trust their website in this case. Customers have the ability to log into their system seamlessly, where they can effortlessly peruse product details.

Responsive: The paramount element of a website is its responsiveness. A non-responsive website may cause the customer to encounter many issues. A responsive website works on laptops, mobile phones, and other devices.

Reliability: Unforeseen results can stem from imperceptible keystrokes within the system. Conversely, reliability pertains to the system's capability to provide uninterrupted services around the clock, every day of the week. Hence, when evaluating our system from this perspective, its dependability is maximized.

Flexibility: Structure needs to be adaptable though user of the system could do it with ease. All information in the system needs to be specific.

Testability: Testing of the suggested system is required. Here may quickly check all features. As if using the systems is simple for the administrator, designer, and customer.

7.2 What technology to be implemented:

Several varieties of enhancements have been implemented to boost platform performance during this peak time. Numerous factors have led to the advancements made.

Client/ server application: Web applications and client/server applications are two examples of developments. to maintain accurate records of exchanges of clear norms between groups or organizations. Applications are used, either client or server. This holds great value for every kind of organization. The client made this application selection. Furthermore, users can simultaneously utilize this software on several devices. This software has very little security and runs very quickly. Below are the client/server applications:

During the interim period following its initial installation on the user's device, it cannot amass an excessive number of users. However, in the meantime, it also shouldn't acquire an overwhelming user base.

Web application: Web apps employ the web application framework and are PC-dependent. In roughly the same amount of time, Once fluently transferred, the app will be fully operational on another device.

- ☐ All fundamental tasks can be completed by this program without the need for additional software.
- ☐ Absence of user limits and capacity to function swiftly.
- ☐ You can locate this program at the drive URL.
- ☐ There is no need for installation.
- ☐ Simple to get to.

Chapter 8 : Exploretion

8.1 Old System Use Case:

The activity diagram of usee case, and prototypes have all been displayed in the exploration area. The entire system may be represented by the use case diagram. Understanding about their website can be helpful here. One can learn about users' efforts here. Below is the use case for the previous system:

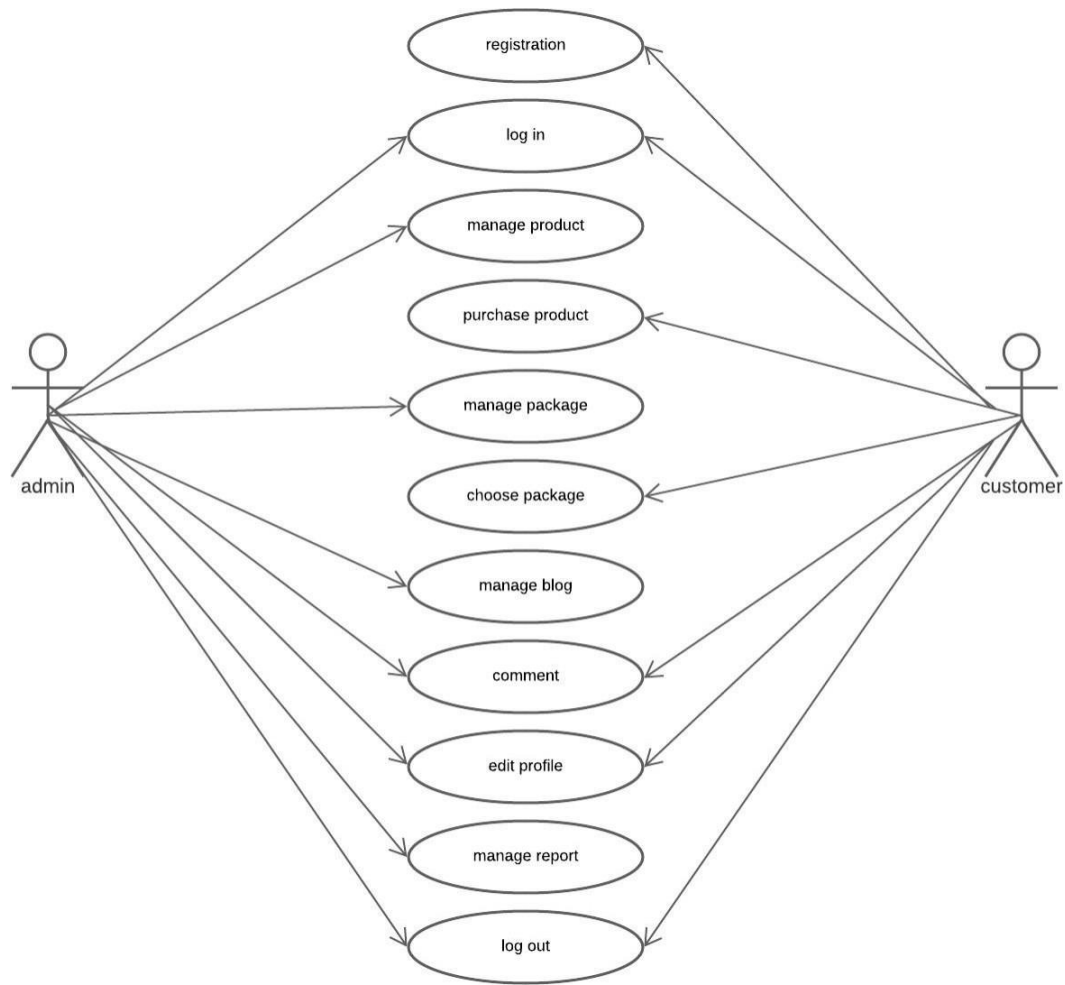


Figure 3: Full System Use Case

8.1 Old system activity diagram:

Activity diagrams serve as an excellent mechanism for orchestrating system processes, seamlessly delineating the transition from one system to another, while adeptly encapsulating the performance metrics of these systems. Other records do not have information on this specific usage. For the system, the activity diagram serves as visual labor. Below is the outdated system activity diagram:

8.3 Admin activity diagram:

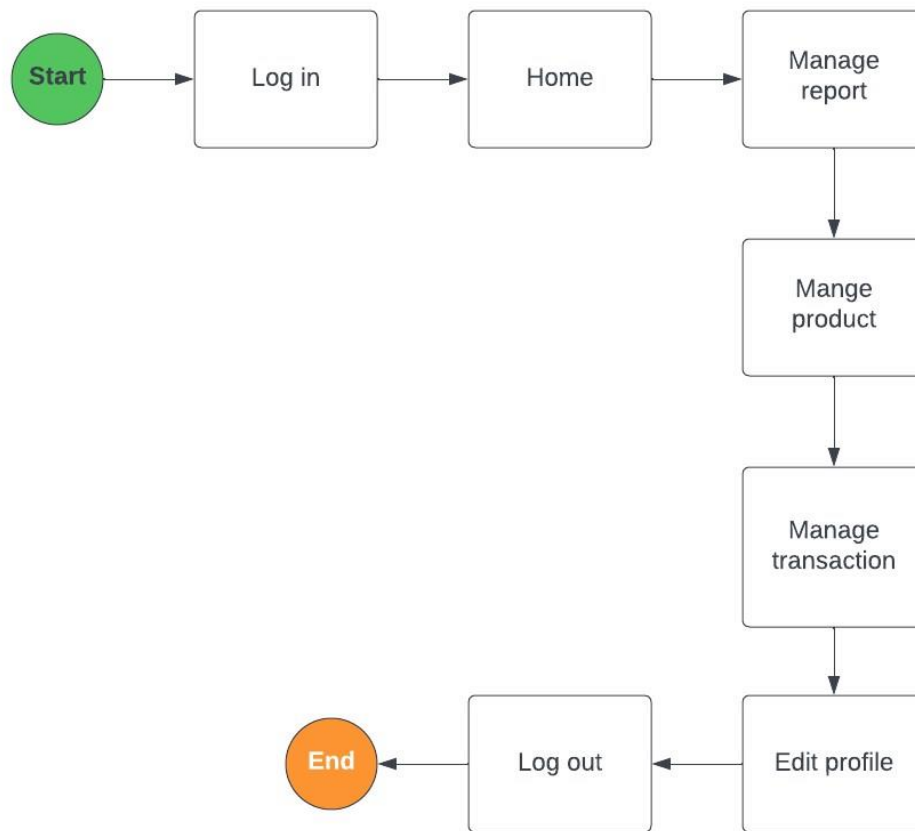


Figure 4: Admin Activity Diagram.

8.4 Customer activity diagram:

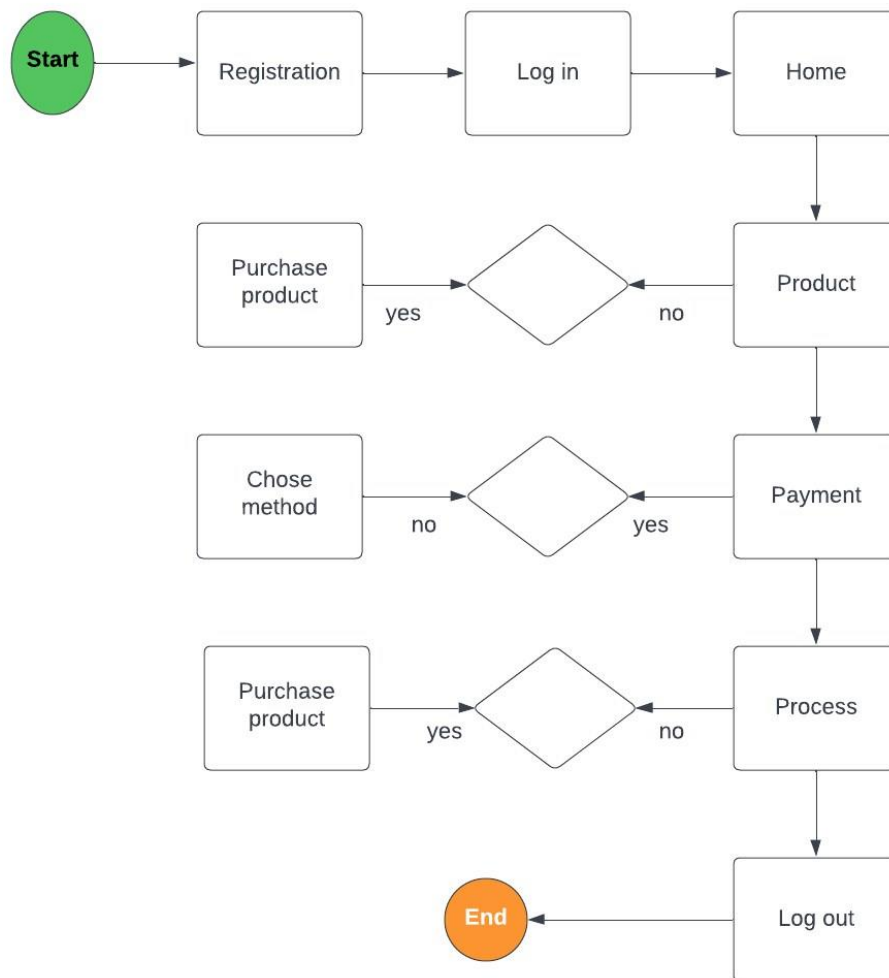


Figure 5: Customer Activity Diagram.

8.5 Prioritized Requirement List (PRL):

MoSCow:

The Prioritized Requirements List includes the MoScow technique. It functions well for project management, business analysis, and software development. This will assist you in determining service priorities and needs [8].

Moscow is an acronym for should have, could have, would have, and must have. The following are the MoSCow features:

Table 6: Prioritized Requirement Table

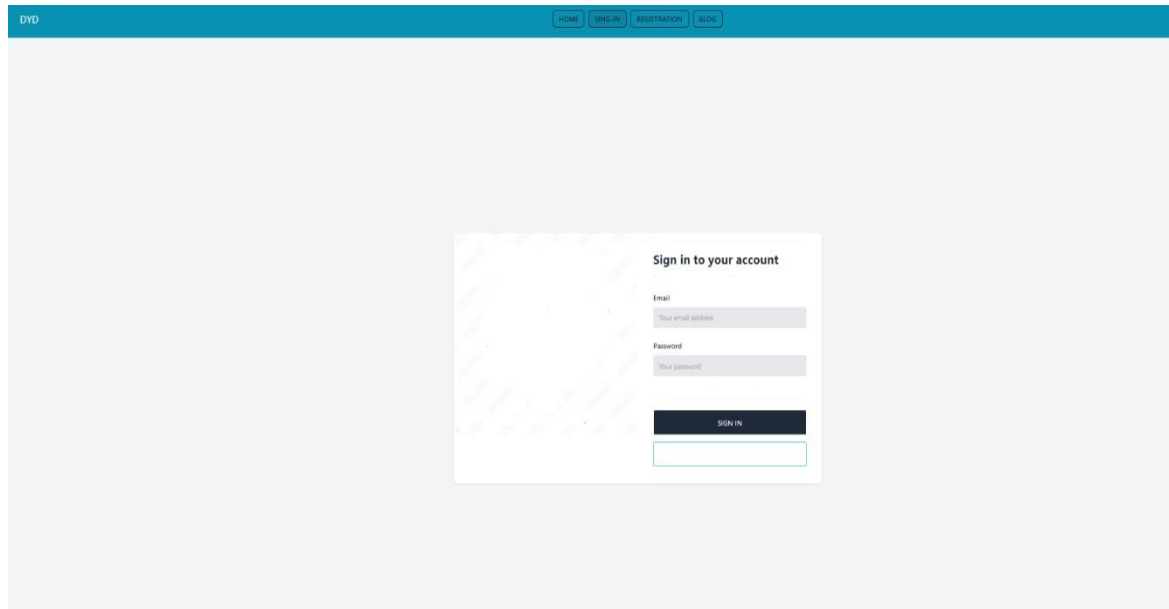
No.	Requirements	Priority
1	User Registration and Authentication	Must have
2	Design Creation and Editing	Must have
3	Design Visualization	Must have
4	Design Catalog	Must have
5	Design Management	Must have
6	Design Collaboration	Should have
7	Mobile Compatibility	Should have
8	Performance	Should have
9	Design Inspiration and Ideas	Could have
10	Accessibility	Could have
11	Help and Support	Could have
12	Social Media Integration	Won't have
13	Augmented Reality	Won't have
14	Multi-language Support	Won't have

8.6 Prototype of new system:

Prior to assessing the advantages, it is necessary to clarify that the procedure is prototype. A robust design prototype leading the way in the evolution of the original design model is termed as a prototype. This is done to demonstrate the future website's shape as well as its map and relationship to the main website. Focusing on key marketing elements, prototyping is a strategy aimed at reducing the time required for website development. Below is a prototype of the new system:

The image shows a web browser window with a blue header bar. On the left of the header is the text 'DYD'. On the right are four buttons: 'HOME', 'SIGN IN', 'REGISTRATION', and 'LOG OUT'. The main content area has a light gray background. In the center is a white registration form titled 'Responsive Form' with the subtitle 'Form is mobile responsive. Give it a try.' The form is divided into two columns. The left column is titled 'Personal Details' and contains the instruction 'Please fill out all the fields.' The right column contains the following fields: 'Full Name' (text input), 'Email Address' (text input with placeholder 'email@domain.com'), 'Address / Street' (text input), 'City' (text input), 'Country / region' (text input), 'State / province' (text input), 'Account Types' (text input), 'Password' (text input), and 'Confirm Password' (text input). At the bottom right of the form is a 'REGISTER' button.

Figure 6: Registration prototype



The image shows a web page prototype with a blue header bar. On the left of the header is the text 'DYD'. On the right are four buttons: 'HOME', 'SIGN IN', 'REGISTRATION', and 'ABOUT'. The main content area is light gray and contains a white sign-in form. The form has a title 'Sign in to your account', an 'Email' field with placeholder text 'Your email address', a 'Password' field with placeholder text 'Your password', a dark 'SIGN IN' button, and a light blue 'OR' button below it. To the left of the form is a faint, abstract graphic of overlapping circles.

Figure 7: Sign up prototype

DYD

HOME

ADD CATEGORIES

CATEGORIES LIST

MY-BUYER



DASHBOARD

LOGOUT

Add Interior Design Categories

Company/Shop/Etc Name	Categories Name
Price Range	Date
Interior Design Discriptions	Image

Send

Figure 8: Add Category Prototype

Chapter 9 : Engineering

9.1 New System Modules:

Several modules are available for the system I offer, based on the users' requirements. The following lists the key themes and frameworks of the suggested system. These modules offer the new system's greatest features as well as its special capabilities.

9.2 New system Use case:

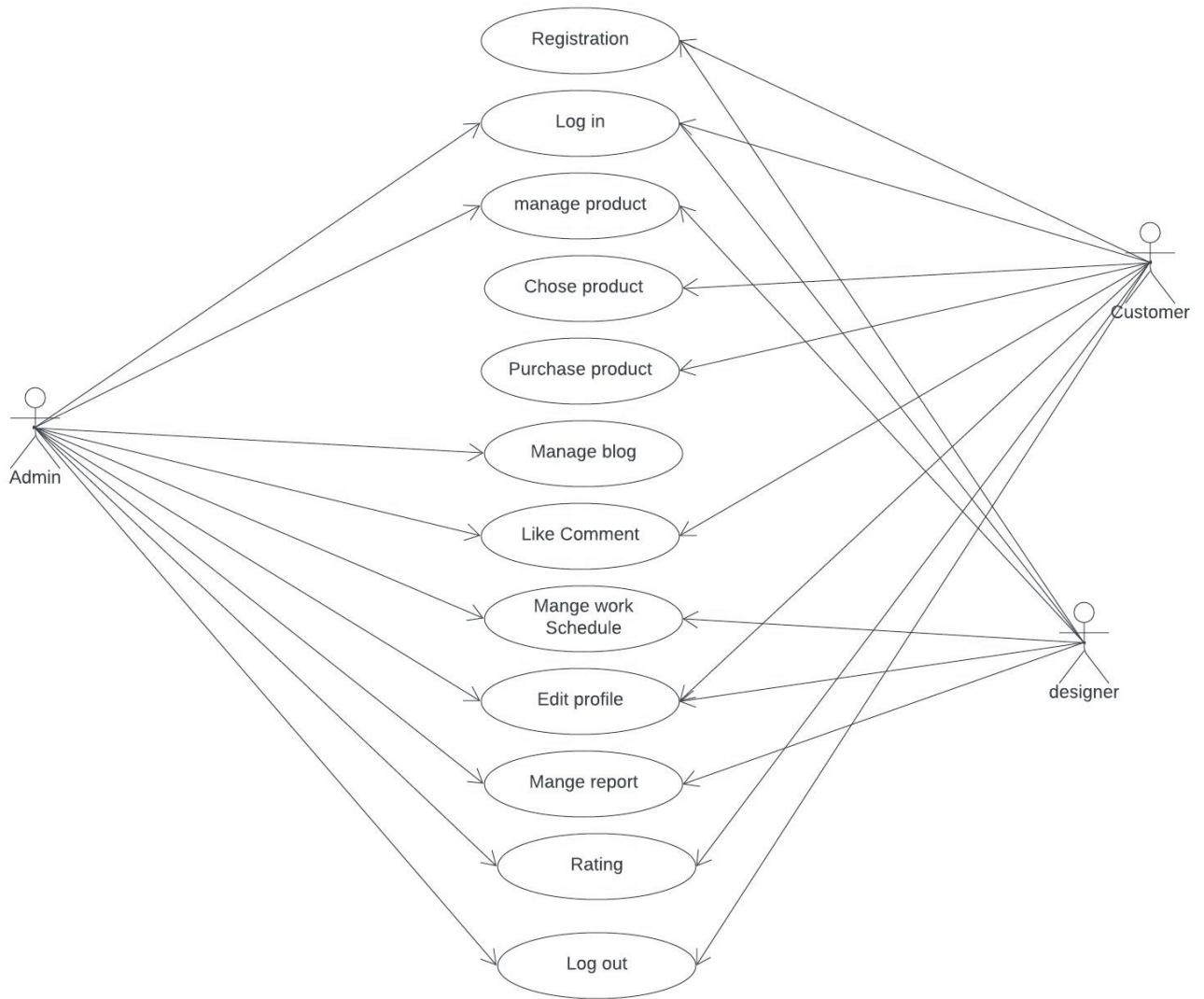
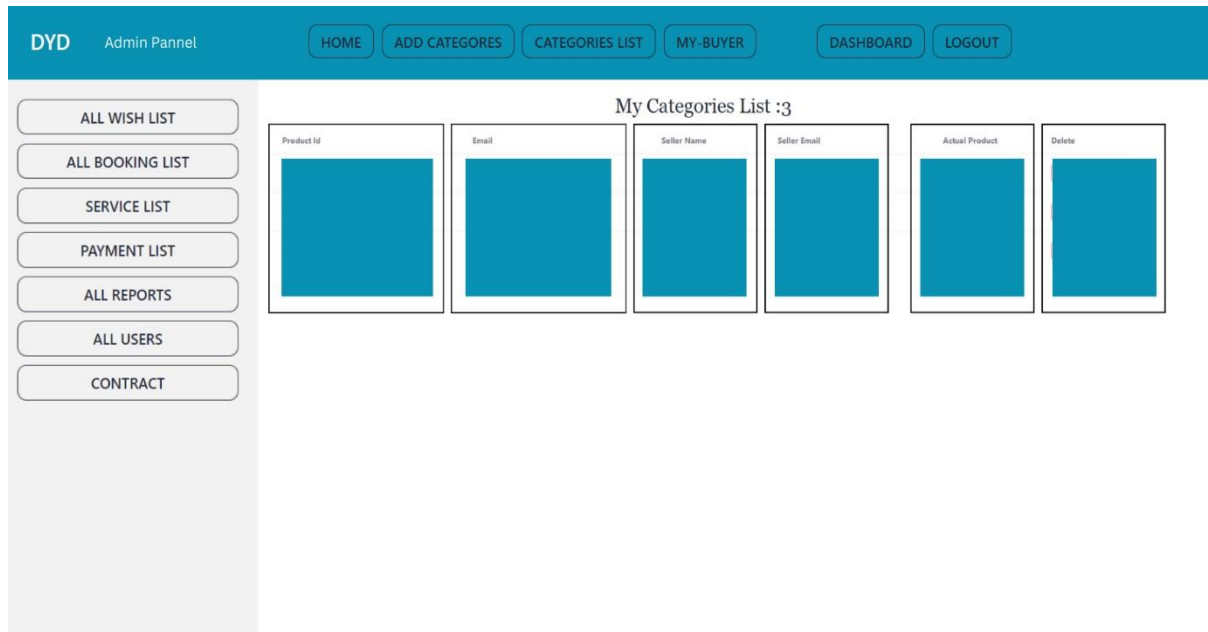


Figure 9: New System Use case

9.3 System Interface Design / Prototype:



Fiigure 10: Wish list prototype.

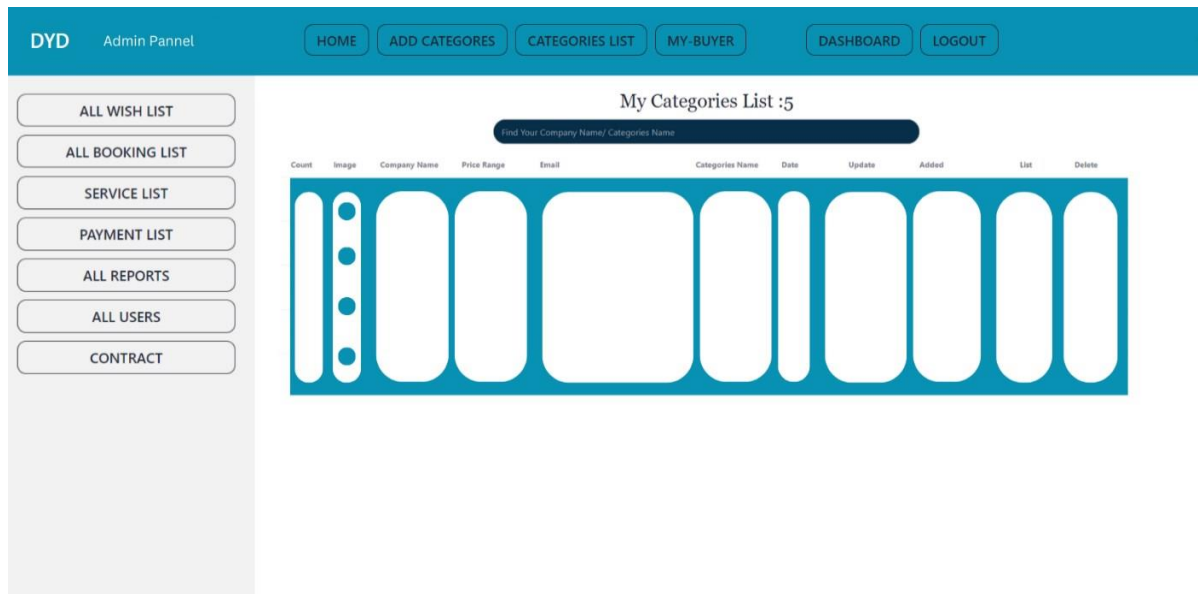


Figure 11: Booking List prototype

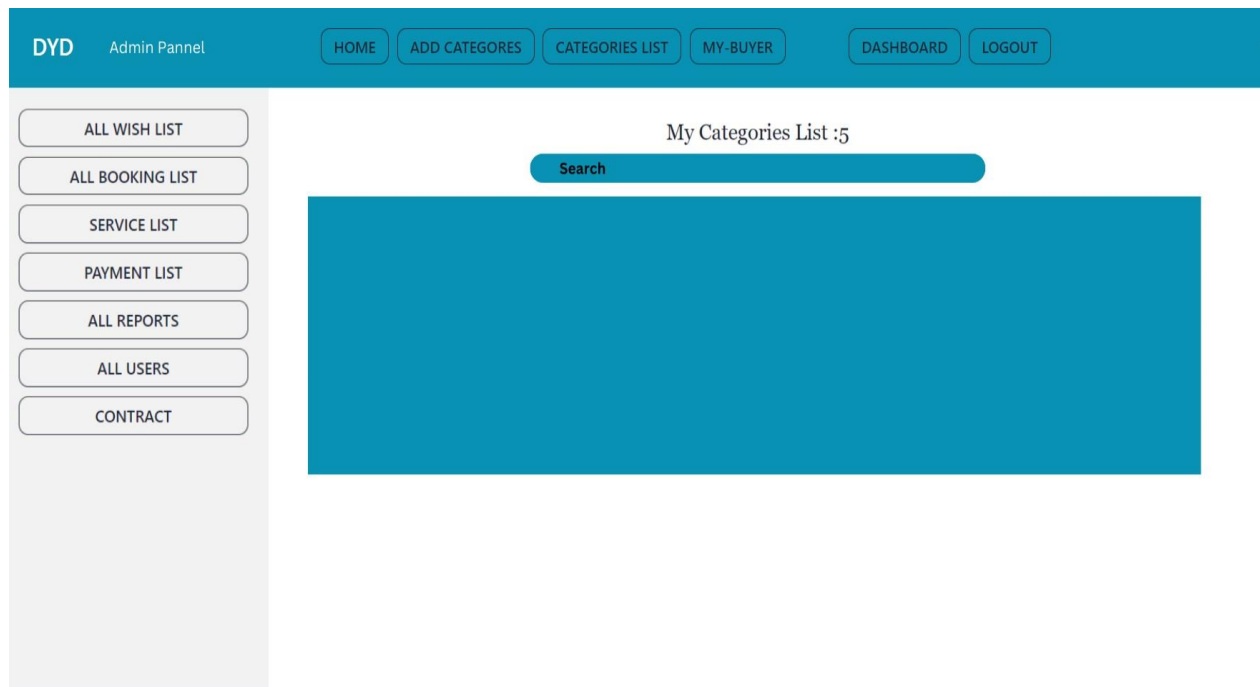


Figure 12: Service list prototype

Chapter 10 : Deployment

10.1 Code samples:

In this chapter is where deployment and development start after all analyses are finished. It was really simple to develop each of these jobs if I broke my work up into manageable, focused chunks. I used HTML, CSS, JavaScript, and React as programming languages to create the recommended framework. Here are some illustrations of a few of the codes:

10.2 Image Generation Model

```
1  import { useEffect, useState } from "react";
2
3  ✓ const ImageGenerator = (image) => {
4    const [isImage, setImage] = useState("https://t.ly/wkHnA");
5
6    const url = `https://api.imgbb.com/1/upload?expiration=600&key=${process.env.REACT_APP_IMAGE_KEY}`;
7
8    useEffect(() => {
9      const formData = new FormData();
10     formData.append("image", image);
11     fetch(url, {
12       method: "POST",
13       body: formData,
14     })
15       .then((res) => res.json())
16       .then((imgData) => {
17         if (imgData.success) {
18           setImage(imgData?.data?.url);
19         }
20       })
21       .catch((error) => {
22         console.log(error?.message);
23       });
24     }, [image, url]);
25
26     return [isImage];
27   };
28
29   export default ImageGenerator;
```

Figure 13: Image generation code

```

1   import React, { useContext } from "react";
2   import { AuthContext } from "../AuthProvider/AuthProvider";
3   import { useForm } from "react-hook-form";
4   import toast from "react-hot-toast";
5
6   ✓ const InteriorBookingModal = ({ data }) => {
7       const { user } = useContext(AuthContext);
8       const { handleSubmit, register, reset } = useForm();
9       const displayData = user?.displayName?.split(",") || undefined;
10
11   ✓ const onSubmit = (booking) => {
12       const bookingData = {
13         id: data?._id,
14         sellerName: data?.data?.sellerName,
15         sellerEmail: data?.data?.email,
16
17         disable: false,
18         ...booking,
19       };
20
21       // fetch the booking data
22       fetch("https://interior-design-seven-psi.vercel.app/booking_details", {
23         method: "POST", // or 'PUT'
24         headers: {
25           "Content-Type": "application/json",
26         },
27         body: JSON.stringify(bookingData),
28       })
29         .then((res) => res.json())

```

Figure 14: Interior design model one

```

36     });
37 };
38 return (
39     <>
40     { /* You can open the modal using document.getElementById('ID').showModal() method */}
41
42     <dialog id="my_modal_3" className="modal">
43         <div className="modal-box">
44             <form method="dialog">
45                 { /* if there is a button in form, it will close the modal */}
46                 <button className="btn btn-sm btn-neutral btn-circle absolute right-2 top-2">
47                     X
48                 </button>
49
50                 <h3 className=" font-bold text-xl font-serif">
51                     Interior Design Name is {data?.data?.name}
52                 </h3>
53             </form>
54
55             <form
56                 onSubmit={handleSubmit(onSubmit)}
57                 className="grid grid-cols-1 gap-3 mt-10">
58                 <input
59                     type="text"
60                     readOnly
61                     defaultValue={displayData[0]}
62                     {...register("userName")}
63                     placeholder="User Name"
64                     className="input input-bordered w-full "
65                 />

```

Figure 15: Interior Design Model Two

```

97         <input
98             name="phone"
99             type="text"
100             placeholder="Phone Number"
101             {...register("phone")}
102             required
103             className="input input-bordered w-full"
104         />
105
106         <input
107             name="buyerLocation"
108             type="text"
109             placeholder="Location"
110             {...register("location")}
111             required
112             className="input input-bordered w-full"
113         />
114
115         <br />
116         <input
117             className="w-full btn-outline btn-sm btn btn-accent"
118             type="submit"
119             value="Submit"
120         />
121     </form>
122 </div>
123 </dialog>
124 </>
125 );
126 };
127
128 export default InteriorBookingModal;

```

Figure 16: Interior Design Model Three

10.3 Possible problem break down:

All of the challenges encountered during the development process are broken down into smaller issues to facilitate its execution. incredibly successful in producing

deadlines and finishing work gradually. There are so many amazing features in the system I suggest. There must be a problem with the system. In addition, Navigating the system's holistic progress will pose significant challenges:

Databas creation:

- ☐ Examining accumulation.
- ☐ Establishing datacenter.
- ☐ Formulating diagram.
- ☐ Identifying foreignn and primary key.
- ☐ Generating queries.

Frontend designing:

- ☐ Drafting a prototype on paper.
- ☐ Crafting designs using HTML, CSS, JavaScript, and Bootstrap.
- ☐ Linking all pages together.
- ☐ Ensuring system responsiveness.

CRUD for the system:

- ☐ Incorporating a product, revising a product, and eliminating a product.
- ☐ Integrating, modifying, and erasing packages.
- ☐ Adding, updating, and deleting blogs.

Admin management:

- ☐ Keep track of the reports.
- ☐ Keep track of the merchandise.
- ☐ Control the image box.

Customer manage:

- ☐ Purchase the product.
- ☐ Purchase the product.
- ☐ Search for the product
- ☐ Select the product desired.
- ☐ Image download
- ☐ Provides a rating
- ☐ Updates the profile.

Designer Management:

- ☐ Design generation image upload
- ☐ Update profile
- ☐ Create and visit category

Chapter 11 : Testing

There is no other option except to consider the kind of test. Further testing might be necessary in the upcoming examination. This piece provides comprehensive insights into the data alongside alternative methodologies. These sensors contribute to identifying system issues and enhancing system reliability and efficiency.

11.1 Test case:

Test explains different kind of tests and testing cases. Testing software development is to make sure all specifications are fulfilled [9]. It's employed to distinguish between expected and actual outcomes. Numerous tests exist, including acceptance, security, integration, unit, and module tests. The standards examples for each test case are listed below:

11.2 Unit Testing:

A project's unit testing process is crucial. Unit testing will confirm that is the project code functioning correctly in this regard. The initiative looked at changes and reorganizations to raise the standard. Below are a few examples of unit tests:

Table 7: Unit Testing

Integration testing	Test class	Designed by Md. Ashifuzzaman Akib		
	Object: Test case functionality	Tested by: Md. Ashifuzzaman Akib		
Test case:	Testing Description	Tasks	Expected Outcome	Actual Outcome
1.1	Users complete the registration form here.	Following form completion, the user may see a message indicating successful login.	Demonstrates an effective message.	displays the user's profile.
1.2	Admin add new item.	Fill out each product form completely.	Successfully inserted a new product is seen here.	displays the most recent product addition.

DYP

HOME
SIGN-IN
REGISTRATION
BLOG

Responsive Form
Form is mobile responsive. Give it a try.

Personal Details
Please fill out all the fields.

Full Name

Email Address

email@domain.com

Address / Street

City

Country / region

Afghanistan

State / province

State

Account Types

Account

Browse...

No files selected.

Password

email@domain.com

Confirm Password

email@domain.com

☐ My billing address is different than above.

Figure 17: Unit Testing registration

DYP

HOME
SIGN-IN
REGISTRATION
BLOG

Responsive Form
Form is mobile responsive. Give it a try.

Personal Details
Please fill out all the fields.

Full Name

Akib Ahmed

Email Address

ashfuzzaman16-485@diu.edu.bd

Address / Street

Narayanganj

City

Dhaka

Country / region

Bangladesh

State / province

Dhaka

Account Types

Seller Account

Browse...

pro.jpg

Password

Confirm Password

☒ My billing address is different than above.

SUBMIT

Figure 18: Unit Testing registration outcome.

DYD

HOME

LOGOUT

Successfully Created

Full Name

Akib

Email

ashifuzzaman16-485@diu.edu.bd

Address

Bangladesh

City

Dhaka

Country

Bangladesh

State

Narayanganj

Account Types

Seller Account

SUBMIT

USER

Figure 19: Unit Testing Registration successful

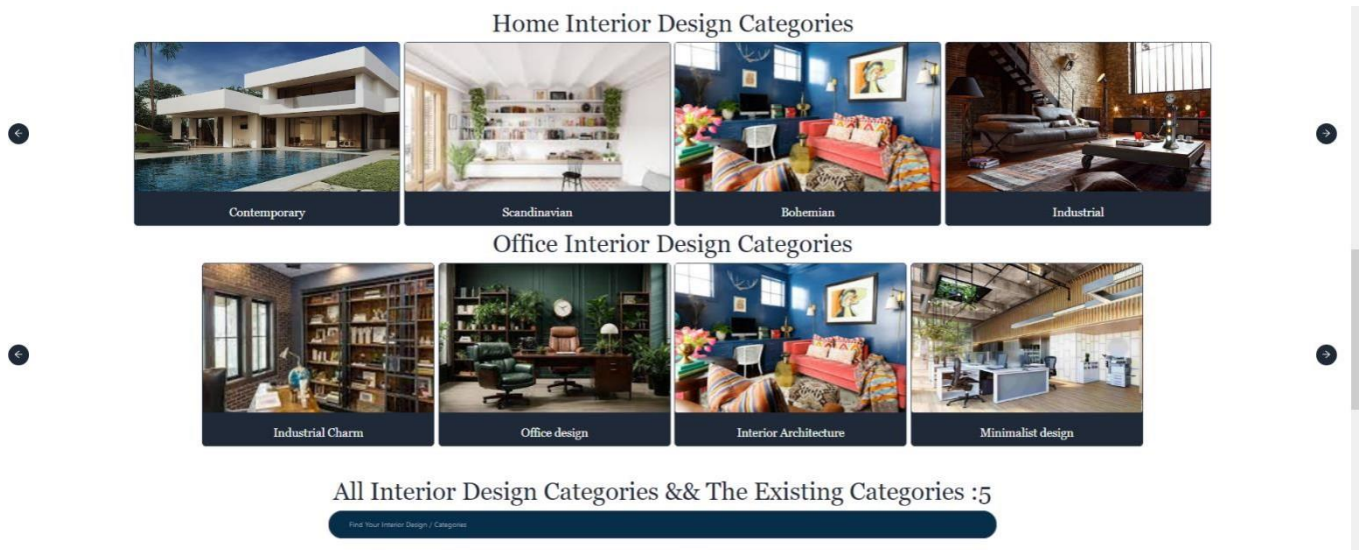


Figure 20: Unit Testing home page.

11.3 Module testing:

Modules that examine systems and programs might be described as classes, rules, standards, or software types. It is advised that you verify your internal system's tiny size rather than every application. The outcomes of module testing is follows:

Table 8: Module testing

Module testing	Test class	Designed by Md. Ashifuzzaman Akib		
	Object: Test case functionality	Tested by: Md. Ashifuzzaman Akib		
Test case:	Testing Description	Tasks	Expected Outcome	Actual Outcome
2.1	Please Fill out this field	Must be enter product price.	Wrong input	Please fill out the field
2.2	Please Fill out this field	Must be enter name	Wrong input.	Please fill out the field
2.3	Please Fill out this field	Here enter design description	Wrong input.	Please fill out the field

Add Interior Design Categories

Company/Shop/Etc Name

Please fill out this field.

Categories Name

Date

mm / dd / yyyy

Interior Design Discriptions

Image

Upload a file or drag and drop
PNG, JPG, GIF up to 10MB

Send

Figure 21: Module testing add categorie

Add Interior Design Categories

Company/Shop/Etc Name

Akib store

Categories Name

Please fill out this field.

Price Range

Date

mm / dd / yyyy

Interior Design Discriptions

Image

Upload a file or drag and drop
PNG, JPG, GIF up to 10MB

Send

Figure 22: Module testing categories name

Add Interior Design Categories

Company/Shop/Etc Name

Akib store

Categories Name

sgtwtw

Price Range

whetwtwt

Date

01 / 14 / 2024

Interior Design Discriptions

Please fill out this field.

Image

Upload a file or drag and drop

PNG, JPG, GIF up to 10MB

Send

Figure 23: Module testing Design Description

11.4 Integration Testing

Testing of integretionn is functions for program. Inclusion of testing is significant as it aims to pinpoint specific design issues. The subsequent integration test is outlined below:

Table 9: Integration Testing

Integration testing		Test class	Designed by		
			Md. Ashifuzzaman Akib		
Data source:		Object: Test case functionality	Tested by:		
			Md. Ashifuzzaman Akib		
Test case:		Testing Description	Tasks	Expected Outcome	Actual Outcome
3.1	Enter right information.	Must enter email and right password.	Wrong input.	displays the massage in action.	

3.2	Register for enter the site.	Must be login then they can purchase the product.	Wrong input.	displays the message in action.
3.3	This demonstrates the product add cart message working properly.	Must add the product for the purchases and use add cart.	Product booking message successfully.	displays the message in action.

Sign in to your account
 Don't have an account? [Sign up](#)

Email

 Please fill out this field.

Your password

[Please Register Your Account Info Register](#)

SIGN IN

GOOGLE-SIGNIN

Figure 24: Integration testing log in.

Figure 25: Name fill up.

Figure 26: Log in Success.

Chapter 12 : Implementetion

12.1 Training:

Training is crucial component of development. To maintain pace with system advancements and user training. System users must be trained in order for it to be implemented. After training, customers will have no trouble navigating and understanding the system. Here are a few training options listed below:

Table 10: Training

<i>SL No</i>	<i>User</i>	<i>Training sector</i>	<i>Duration</i>	<i>Comment</i>
1	Admin	Create/ edit/ delete/ read (Product)	1.5 hour	This makes it simple for the admin to maintain the product or bundle.
2		Checks reports	30 min	Here, the administrator may see how to review the reports.
3		Order process	30 min	Here, the administrator can learn how to oversee the order processing.
4		Blogs	30 min	knows how to operate a blog.
5		Manage store	40 min	knows how the Designer store operates.
6		Manage customers	30 min	Possesses customer management skills.
7		Comments	20 min	Understands the art of leaving comments on blogs.

12.2 Big bang:

This method proves particularly effective for transitioning from an existing system to a new one seamlessly. The initial step involves installing the new system upon completion of testing. However, data transfer from the old to the new system is time-consuming and carries risks of potential data loss or deletion. This process primarily concerns page management.

During the pilot phase, the system is assembled for testing purposes. Following a designated period, certain organizations proceed with full system implementation if all components function correctly.

In the parallel approach, the new operating system is systematically introduced alongside the previous system, providing a safety net and backup functionality.

12.3 Recommended implementation process

I firmly believe that setting the groundwork for a pilot project is feasible, given that the system is currently being rolled out across different areas of the business with the specific intention of conducting. Once functionalities up and running smoothly, it will be ready for activation and usage.

Chapter 13 : Critical Appraisal and Evaluation

Here, fraction projects that succeed and those that fail is examined. Needs must be fulfilled This section's criteria isn't met, and it's discussed here. Additional project development and possible direction I have to fulfill the obligations I've evaluated.

13.1 Objective:

The three components of the success rate for each goal are listed:

- ☐ Academic aspirations
- ☐ Business goals
- ☐ Personal aims.

Academic objectives:

- ☐ The system should boast user-friendliness.
- ☐ Conducting a feasibility study, assessing risks, designing and developing the database, and ensuring the application of the appropriate approach for this system are essential.
- ☐ To establish a complete system, properly analyze and record everything. Standard documentation is required for all users.
- ☐ All parties must be able to interpret the paperwork.

Business objectives:

- ☐ Needs to be simple.
- ☐ A suitable view is required.
- ☐ Purchasing a product.
- ☐ Sales of products
- ☐ Display reports.
- ☐ Product status must be displayed.
- ☐ Oversee the ordering procedure.

Personal objectives:

- ☐ System validation is required.
- ☐ System verification is required.
- ☐ The system has to be reliable, secure, and error-free.
- ☐ Accurate record-keeping.

13.1.2 Features for solution:

- ☐ Aware of entire function.
- ☐ It has to be seamless and effective.
- ☐ Performance parameters are required.

- ☐ Options for easy care should be available to choices.
- ☐ The entire system is safe.

13.1.3 Features that could not touch

- ☐ Evaluating the sample.
- ☐ Coordinating the interiorer time.
- ☐ Establishing a amount rate.

Chapter 14 : Conclusion

14.1 Summary of the project

My proposed projet is a application web, I'll utilize HTML, CSS, Node.js, Express.js, React to build the structure and design. HTML will be used to create the system's essential structure, CSS will be used to make it more colorful, and Bootstrap will be used to make it more interactive. React.js and Node.js will be used to create the original system. The database for the system will be implemented using MongoDB. JavaScript will also be used in the backend code to verify for validity. The DSDM approach will be used in the creation of my system.

14.2 Goal of the project

A web-application system with image generation AI is the primary objective of this DYD interior design application. The admin may run into a lot of problems here. The administrator is unable to concentrate on their objective. He is unable to oversee their output. For these reasons, the organization desires to work online. Everything they want to do has to be done online. They might save time by doing it. Every commodity is manageable here. Admins can display their reports here. Seller can create design with AI and Customers can look for any product and buy their own. Admin oversees all organizational matters here. We can live easier with the online management system. Hence, I believe that the interior design management system should be utilized dynamically.

14.3 My experience:

I gained a lot of knowledge about data collection, timely assignment completion, and problem-solving and overcome techniques after completing the work. Although I found it difficult to open everything by hand, I was able to take advantage of the situation. I paid for every expense and hour. I hope you will find this project's information to be very helpful for my upcoming work. I want to give thanks to God for giving me courage and clarity, and to the center of my process for their invaluable assistance.

References

- [1] Interior Design Company in Bangladesh |Interior Design Firm in Bangladesh. (2023, July 25). Imagine Interiors - Interior Design in Bangladesh. <https://imagineinteriors.design/>
- [2] [2] *House Designer* ® - *Affordable Online Interior Design Services*. (2024, January 21). House Designer. <https://housedesigner.com/>
- [3] *Interior Designers*. (n.d.). <https://havenly.com/interior-designers>
- [4] Whitefiled. (n.d.). Retrieved from <https://mark-whitfield.com/prince2-project-templates-download/dsdm-dynamic-systems-development-method/>
- [5] *What is DSDM? Discover the Eight Principles of DSDM | Agile Business Consortium*. (n.d.). <https://www.agilebusiness.org/business-agility/what-is-dsdm.html>
- [6] *The Complete Guide to Timeboxing*. (2017, September 1). Clockify. <https://clockify.me/timeboxing>
- [7] *What Is a Timebox in Agile? | Wrike Agile Guide*. (n.d.). <https://www.wrike.com/agile-guide/faq/what-is-timebox/>
- [8] *MoSCoW Prioritization*. (2022, December 21). <https://www.productplan.com/glossary/moscow-prioritization/#:~:text=MoSCoW%20prioritization%2C%20also%20known%20as,will%20not%20have%20right%20now.>
- [9] *What Is Test Case? How To Write Test Cases In Software Testing?* (2023, December 7). Testsigma Blog. <https://testsigma.com/guides/what-is-test-case/>

Plagiarism Report:

Akib

ORIGINALITY REPORT

3%

SIMILARITY INDEX

2%

INTERNET SOURCES

0%

PUBLICATIONS

2%

STUDENT PAPERS

PRIMARY SOURCES

1

Submitted to University of Greenwich

Student Paper

1%

2

dspace.daffodilvarsity.edu.bd:8080

Internet Source

1%

3

www.cs.usm.edu

Internet Source

<1%

4

Submitted to Kolej Poly-Tech MARA Kuala Lumpur

Student Paper

<1%

5

Submitted to NCC Education

Student Paper

<1%

6

Submitted to University of Wolverhampton

Student Paper

<1%

7

Submitted to Asia Pacific University College of Technology and Innovation (UCTI)

Student Paper

<1%

8

www.doria.fi

Internet Source

<1%

9

www.tutorialspoint.com

Figure 27: plagiarism report