



**PROJECT PROPOSAL
SEMESTER SEVEN**

COLLEGE NOTES CATALOG

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Abstract

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CHAPTER 1

INTRODUCTION

1.1 Background

Students often struggle to access comprehensive study materials and final year project repositories. A centralized platform, accessible to both university students and external individuals, is needed to provide reliable and approved academic resources, enhancing learning and collaboration.

Access to quality academic resources is crucial for student success. The College Notes Catalog addresses this need by offering a centralized, digital platform where students can access a wide range of study materials, including notes, lecture summaries, and textbooks. Additionally, it features an approved final year project repository, accessible to both university students and external users. This repository not only serves as a valuable learning tool but also fosters collaboration and innovation. By providing a publicly accessible, organized collection of academic resources, the College Notes Catalog enhances the educational experience and supports academic excellence. It will be used by the following groups:

- University Students: They use the platform for accessing study materials and collaborating on projects.
- External Users: Individuals outside the university can access the final year project repository for reference or collaboration.

The main feature of the College Notes Catalog is its comprehensive, digital repository of academic resources, including notes, lecture summaries, textbooks, and final year projects. This repository is not only accessible to university students but also to external users.

The technology stack for the College Notes Catalog includes several elements. The programming languages used are NodeJS and JavaScript. The markup language is HTML, and the style sheet language is CSS. The web frameworks employed are Tailwind and ReactJS. The database is run on MySQL, and the server used is a Node Server.

1.2 Problem Definition

A significant problem students often face is the difficulty in accessing comprehensive study materials and project repositories. Often, individuals have the knowledge and skills but struggle to find academic resources that align with their learning objectives due to the vast and unorganized nature of academic materials. This lack not only prolongs the learning process but also leads to missed opportunities for both students and external individuals.

1. Difficulty in Accessing Comprehensive Study Materials and Project Repositories
2. Lack of a Centralized Platform for Academic Resources
3. Need for Collaboration Among Students and External Individuals

The College Notes Catalog aims to address these issues by offering a centralized, digital platform where students can access a wide range of study materials, including notes, lecture summaries, and textbooks. By doing so, the platform ensures that students and external individuals are provided with reliable and approved academic resources. This approach streamlines the learning process and enhances the chances of academic excellence. By organizing and prioritizing academic resources based on individual learning needs, the platform reduces the time and effort required to find relevant academic materials, benefiting both students and external users.

1.3 Objectives

The College Notes Catalog aims to effectively address the challenges faced by students and external users through the following key OBJECTIVES:

1. Centralize Academic Resources
2. Facilitate Access to Project Repositories
3. Enhance Learning Process
4. Foster Collaboration
5. Support Academic Excellence

College Notes Catalog aims to enhance the learning experience, support academic success and foster collaboration among students and external users.

1.4 Scope and Limitations

Scope:

- i. Offer a wide range of academic resources, including notes, lecture summaries, textbooks, and final year projects.
- ii. Serve a diverse set of users, including university students and external users.
- iii. Facilitate collaboration among students and between students and external users.
- iv. Streamline the learning process by organizing and prioritizing academic resources based on individual learning needs.

Limitations:

- i. Depends on the active participation of students and external users to contribute and update academic resources.
- ii. The quality and usefulness of resources can vary, as they are user-submitted.
- iii. While the platform is designed to be user-friendly, there may be a learning curve for some users to navigate and utilize the platform effectively.
- iv. Ensuring the privacy and security of user data can be challenging.

1.5 Target User

1. Age Group: 18-55
2. Interest: Students seeking for college notes, inspirations and references for final year project.
3. Education: +2 Passed and IT Undergrad Students
4. Profession: Students, IT Coordinators, Teachers

1.6 Project Timeline

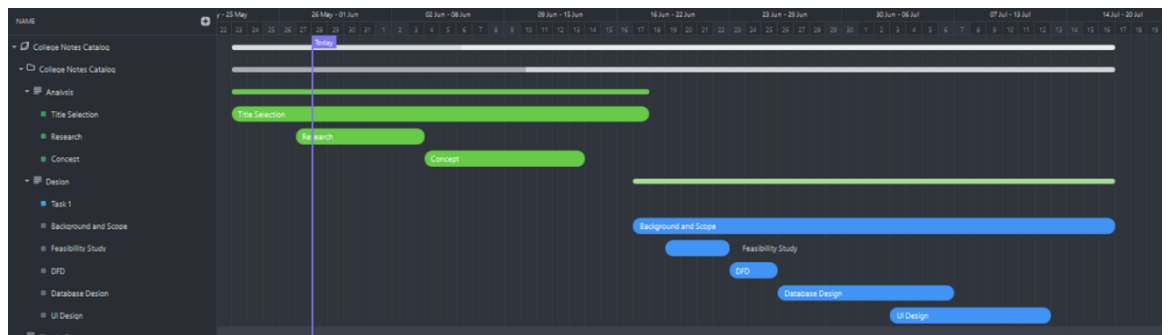


Figure 1: GANTT CHART

CHAPTER 2

LITERATURE REVIEW

2.1 Introduction

The College Notes Catalog aims to bridge this gap by providing a user-friendly platform for students to share and access valuable learning materials. This chapter delves into existing research on student-created learning resources and collaborative learning environments to establish the theoretical foundation for the proposed system.

2.2 Development of Proposed System

College Notes Catalog effectively addresses student needs and delivers value quickly by utilizing the Agile development methodology. Agile prioritizes flexibility and rapid iteration. This means we'll work closely with users and stakeholders to define the platform's core functionalities and continuously refine them based on feedback. The project will be broken down into manageable phases, allowing for frequent delivery of features and adjustments based on real-world use. This iterative approach ensures the College Notes Catalog evolves alongside user needs, guaranteeing a platform that truly empowers students, educators, and external users.

The chosen technology stack, including Node.js, JavaScript, HTML, CSS, and MySQL, provides the necessary scalability and flexibility to accommodate the anticipated growth in users and uploaded resources.

This approach fosters continuous improvement and user engagement, ensuring the College Notes Catalog remains a relevant and valuable tool for the academic community.

2.3 Review of Existing Systems

INSCRIBE - College Notes Sharing Application

The "INSCRIBE - College Notes Sharing Application" by Priyanshi Jaiswal and Rashi Wadnerkar focuses on enhancing student access to educational materials through a secure, user-friendly platform. The application features user authentication, robust search functionality, and file upload capabilities supporting PDF, DOC, and PPT formats. It significantly reduces the manual efforts involved in note distribution, providing a streamlined and efficient learning environment for students (Jaiswal & Wadnerkar, 2022). The front-end of INSCRIBE utilizes HTML, CSS, and JavaScript, enabling a dynamic and responsive user interface. The back-end is managed using PHP, which processes server-side requests, and MySQL, which handles database operations. This combination ensures that the system is both robust and scalable, capable of handling large volumes of data and multiple user interactions simultaneously.

Furthermore, INSCRIBE incorporates a notification system to alert users about new uploads and updates, fostering a real-time collaborative environment. This feature is particularly beneficial in maintaining student engagement and ensuring that they have access to the latest study materials. The system's design also emphasizes user privacy and data security, with secure login protocols and encrypted data transmission. These features collectively contribute to a comprehensive notes-sharing solution that addresses the core needs of students and educators alike.

Notes Sharing Web Portal

The "Notes Sharing Web Portal" by Piyush Pathade et al. addresses the inefficiencies of manual note distribution through a centralized, secure system for both students and teachers. This web portal features role-based access, where students and teachers can register and manage their notes. The approval system for uploaded notes ensures that only high-quality and relevant materials are accessible, improving the reliability of the content (Pathade et al., 2022). The portal's synchronization feature across devices ensures that users can access their notes anytime and anywhere, enhancing the flexibility and convenience of the system.

Technologically, the Notes Sharing Web Portal employs HTML, CSS, and JavaScript for the front-end, creating a responsive and intuitive interface. The back-end is powered by PHP, which efficiently handles server-side logic, while MySQL manages the relational database, ensuring data integrity and security. The system's design incorporates data encryption and secure login mechanisms to protect user data. Additionally, the portal includes advanced search functionalities, allowing users to quickly find specific notes based on various criteria such as subject, author, or format. This feature is particularly useful during exam periods when students need quick access to specific information.

Comparison of Features

Feature	GroupNotes	Notes Sharing Web Portal	Proposed System (College Notes Catalog)
Primary Objective	Enhance student engagement	Secure online note sharing	Centralized digital repository
Technologies Used	NodeJS, operational transformation	JavaScript	NodeJS, ReactJS, MySQL
Key Features	Real-time synchronization	Document uploads, search functionality	Digital repository of academic resources
Interaction Capabilities	Real-time collaboration	Admin-managed approvals	Facilitate collaboration among users
Pedagogical Impact	Increased student engagement	Enhanced study efficiency	Streamline learning process
Challenges Addressed	Student disengagement	Manual paperwork	Lack of centralized academic resources
Limitations	Smartphone dependency	Internet dependency	User-contributed content quality

Table 1: Comparison Table

Conclusion

Lecture Management System and GroupNotes by Mark Reilly and Haifeng Shen, alongside the Notes Sharing Web Portal by Piyush Pathade et al., represent significant advancements in educational technology. Each system addresses distinct challenges in content distribution, student engagement, and resource management within educational settings. However, they also exhibit limitations related to interactivity, technological dependencies, and data security. The proposed College Notes Catalog aims to integrate the strengths of these systems by offering a centralized digital repository while fostering collaboration and accessibility among students and external users. This review underscores the evolution and ongoing efforts in leveraging technology to enhance educational experiences and outcomes.

2.4 Methodology

The College Notes Catalog embraces the Agile development methodology to deliver a learning platform that is both effective and responsive to the evolving needs of students, faculty, and external users. Agile development departs from traditional, linear approaches, prioritizing flexibility and rapid iteration. This translates to a collaborative environment where user feedback and stakeholder input are woven into the very fabric of the system's development.

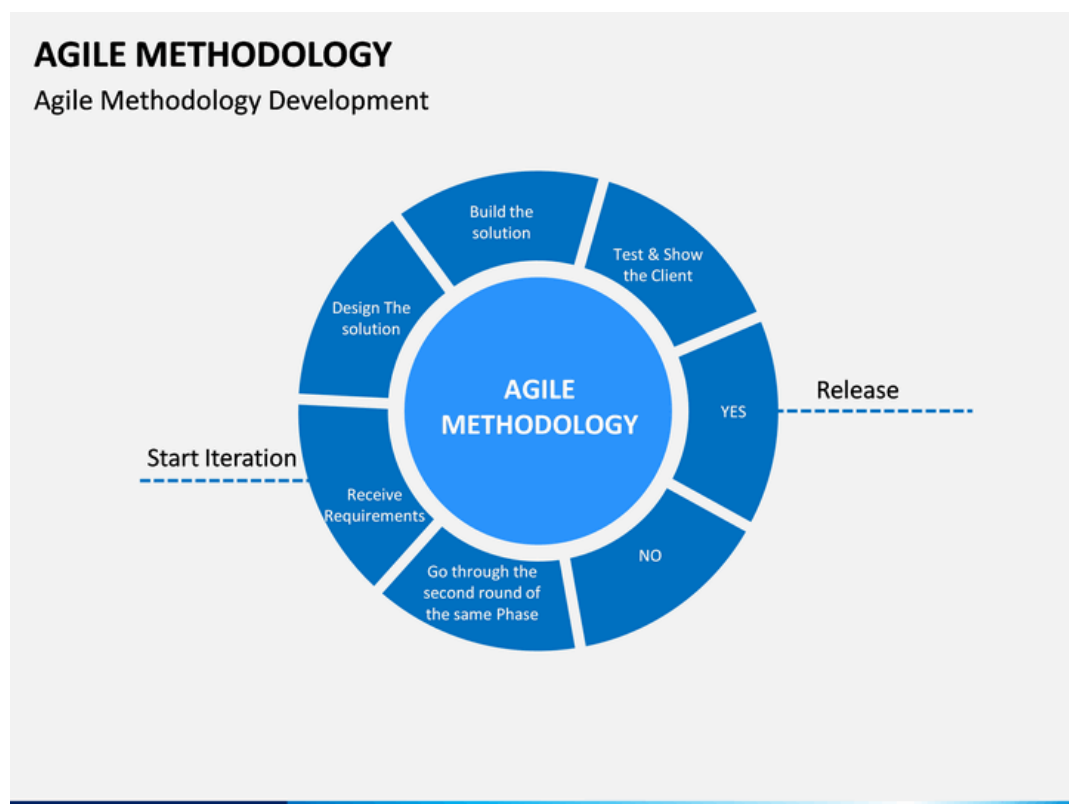


Figure 2: Agile Methodology

At the core of Agile lies the concept of sprints, short, focused development cycles. Each sprint tackles a specific set of functionalities, ensuring early delivery of value to the user community. This iterative approach allows users to experience the platform's capabilities early on, providing vital feedback that informs subsequent development cycles. By continuously refining features based on real-world use, the College Notes Catalog can address unforeseen challenges and adapt to emerging user needs. This ensures the platform remains relevant and addresses the most pressing academic resource requirements.

The College Notes Catalog leverages Agile's emphasis on collaboration to foster a dynamic learning ecosystem. Regular communication channels are established between developers, students, faculty, and external users. This allows stakeholders to voice their needs and concerns, while developers gain a deeper understanding of how the platform is being utilized. This collaborative spirit fosters a sense of ownership and investment, ensuring the College Notes Catalog evolves alongside the academic community it serves. By harnessing the power of Agile, the College Notes Catalog transcends a static repository of resources, transforming into a living, breathing platform that empowers academic success.

CHAPTER 3

SYSTEM ANALYSIS

3.1 Functional Requirements

3.1.1 Manage Users

- i. The system shall allow a SuperAdmin to create, read, update and delete (CRUD) user accounts.
- ii. The system shall authenticate users logging into the system.
- iii. The system shall assign user roles (e.g., student, teacher, SuperAdmin)

3.1.2 Manage Notes

- i. The system shall allow students and teachers to upload notes, lecture summaries, and other approved academic resources.
- ii. The system shall allow students and teachers to CRUD notes and lecture summaries that they uploaded.
- iii. The system shall allow students to search for notes and lecture summaries based on various criteria (e.g., course, subject, keyword).

3.1.3 Manage Repositories

- i. The system shall allow teachers to upload final year projects.
- ii. The system shall allow SuperAdmin to manage (CRUD) final year project repositories.
- iii. The system shall allow students and external users to search for final year projects based on various criteria (e.g., department, keyword).

3.2 Use Case Diagram

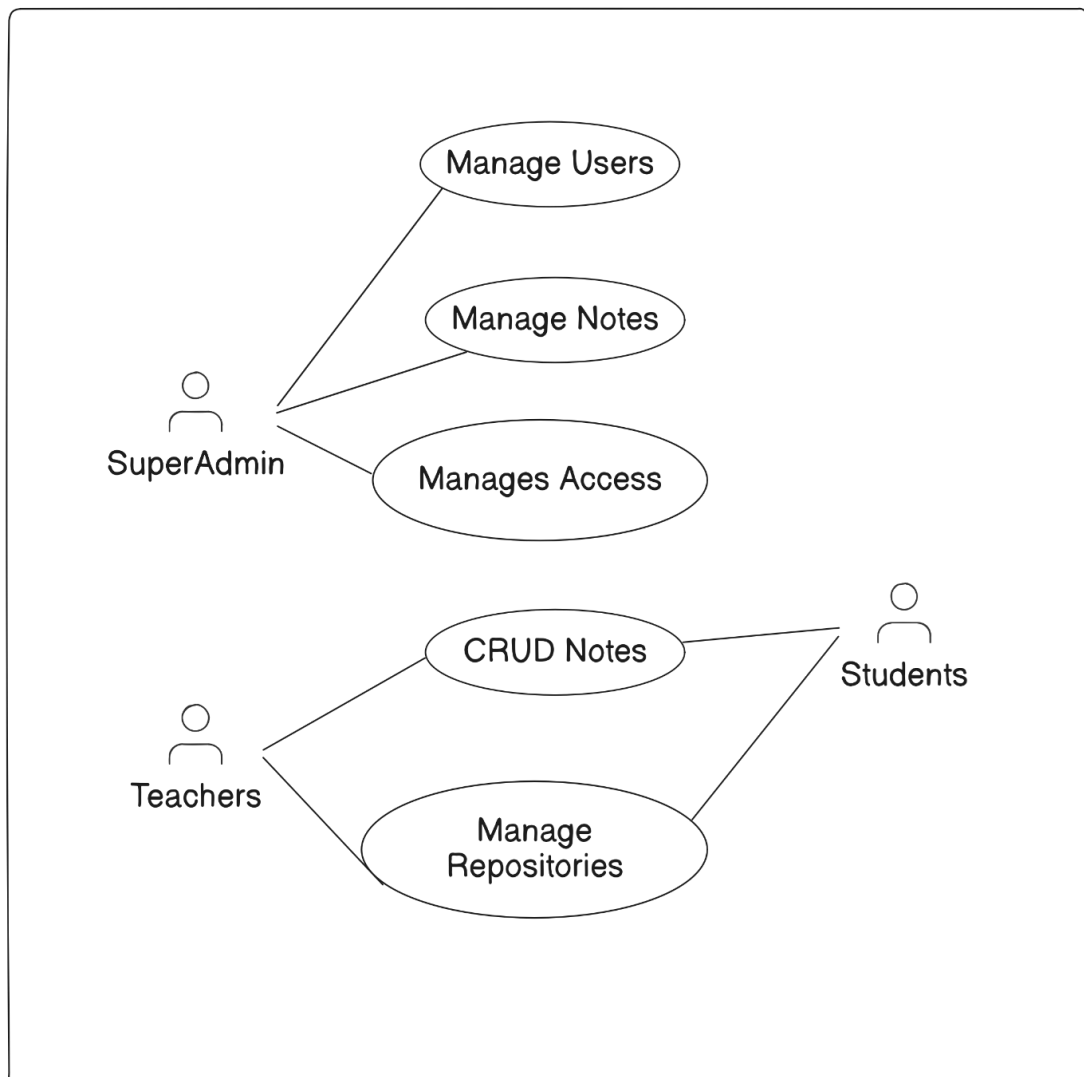


Figure 3: Use Case Diagram

3.3 Non Functional Requirements

The College Notes Catalog prioritizes a set of non-functional requirements that cultivate a robust and dependable platform for both students and faculty. These requirements ensure a seamless learning experience, fostering academic excellence and collaboration.

- i. **Performance:** The College Notes Catalog delivers exceptional performance, minimizing page load times and ensuring rapid response to user actions, even during periods of high user concurrency. This responsiveness translates to a frustration-free learning environment where students can focus on acquiring knowledge without technical interruptions.
- ii. **Scalability:** The platform is architected with scalability in mind. It anticipates a growing user base and an expanding repository of academic resources. The College Notes Catalog seamlessly adapts to accommodate this growth, maintaining optimal performance and user experience regardless of the increasing volume of data.
- iii. **Reliability:** Unwavering availability is a cornerstone of the College Notes Catalog. The system boasts minimal downtime, ensuring consistent access to critical learning materials for students and faculty contributions. Regular backups and a well-defined disaster recovery plan safeguard data integrity and guarantee system accessibility in the face of unforeseen circumstances.
- iv. **Portability:** The College Notes Catalog leverages a technology stack that prioritizes platform independence. This allows for effortless deployment on various servers or cloud platforms, should future needs necessitate such a migration. This flexibility ensures the system can adapt to evolving technological landscapes without significant disruptions to ongoing academic activities.
- v. **Security:** The College Notes Catalog prioritizes the security of sensitive user data and uploaded resources. It implements robust security measures that include multi-factor user authentication, granular access controls that restrict unauthorized access, and industry-standard encryption techniques that protect data confidentiality.

- vi. Usability: The College Notes Catalog fosters a user-centric environment through an intuitive and user-friendly interface. Designed with clarity and simplicity in mind, the interface caters to users with varying levels of technical expertise. A well-organized navigation system, a powerful search function with customizable filters, and clear labeling of functionalities all contribute to a smooth user experience. This user-friendliness maximizes the system's effectiveness as a learning and collaboration tool for the entire academic community.

By prioritizing these non-functional requirements, the College Notes Catalog establishes a foundation for a seamless learning experience, empowering students and faculty to achieve academic excellence.

3.4 Feasibility Analysis

- i. **Economic Feasibility:** The economic viability of the College Notes Catalog hinges on a cost-benefit analysis. Development costs associated with the technology stack and ongoing maintenance must be weighed against the potential benefits. These benefits include improved student learning outcomes, increased faculty productivity, and potential cost savings for the university through reduced reliance on physical learning materials.
- ii. **Operational Feasibility:** The operational feasibility of the College Notes Catalog requires an assessment of its integration into existing university workflows. The system's user management processes, content moderation protocols, and access control mechanisms must align with the university's policies and procedures. Furthermore, a dedicated team with the necessary technical skills and expertise will be needed to manage the platform's ongoing operation and user support.
- iii. **Technical Feasibility:** The technical feasibility of the College Notes Catalog revolves around the chosen technology stack's ability to deliver the desired functionalities. The scalability of the chosen technologies must be evaluated to ensure they can accommodate the anticipated growth in users and uploaded resources. Additionally, the technical expertise available within the university or through potential partnerships with external vendors must be sufficient to develop, deploy, and maintain the platform effectively.

3.5 Process Modeling

3.5.1 Context Diagram

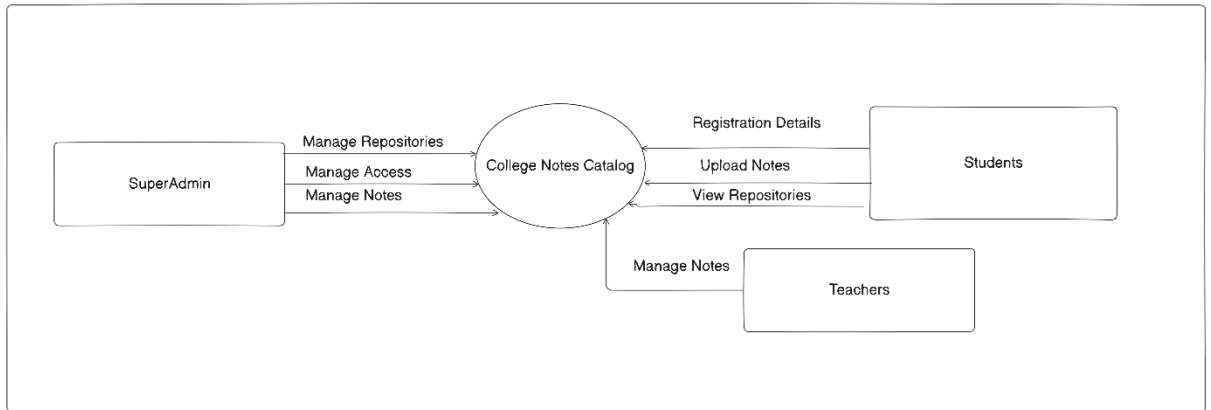


Figure 4: Context Diagram

3.5.2 Data Flow Diagram (DFD) Level

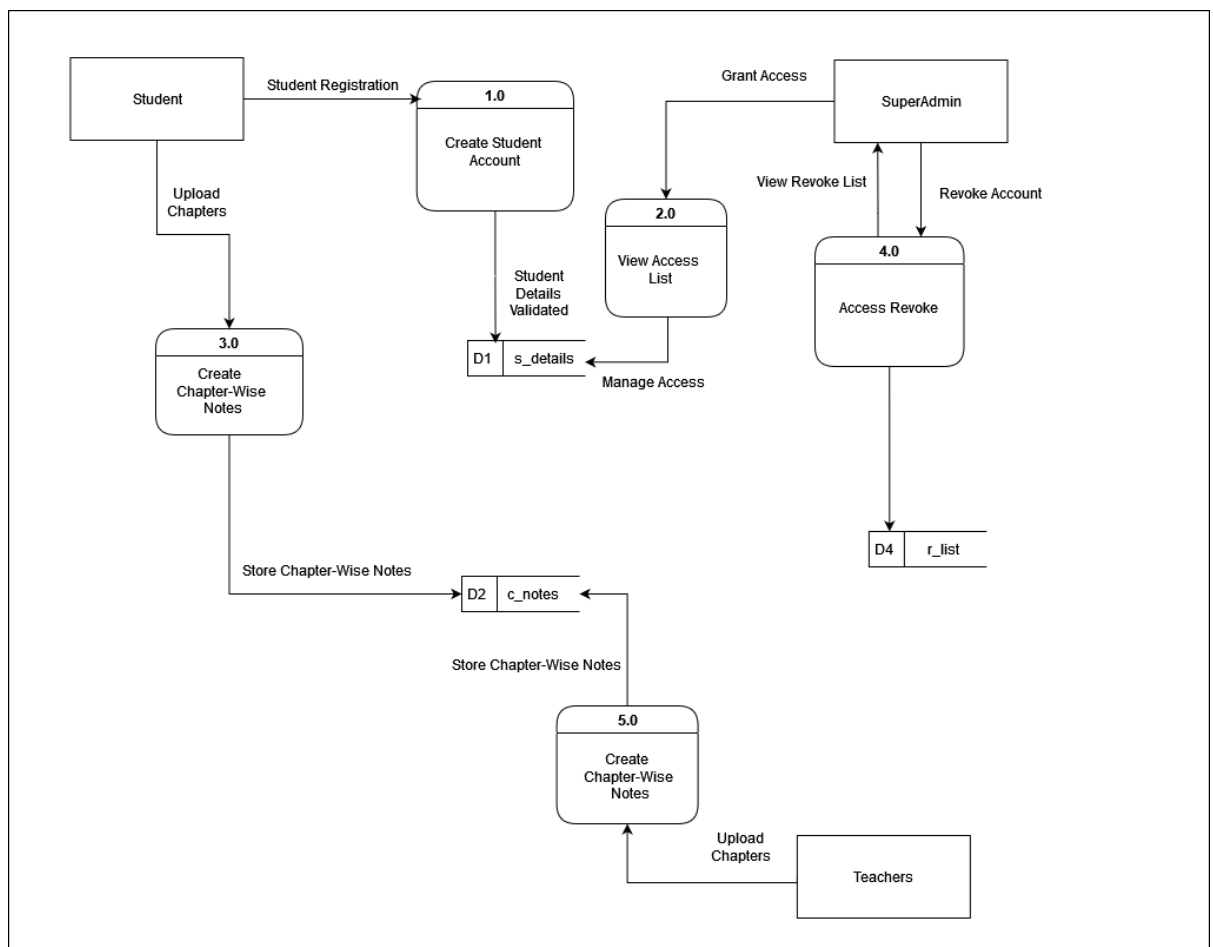


Figure 5: DFD Level 1

3.6 Logic Modeling

3.6.1 Decision Tree and Decision Table

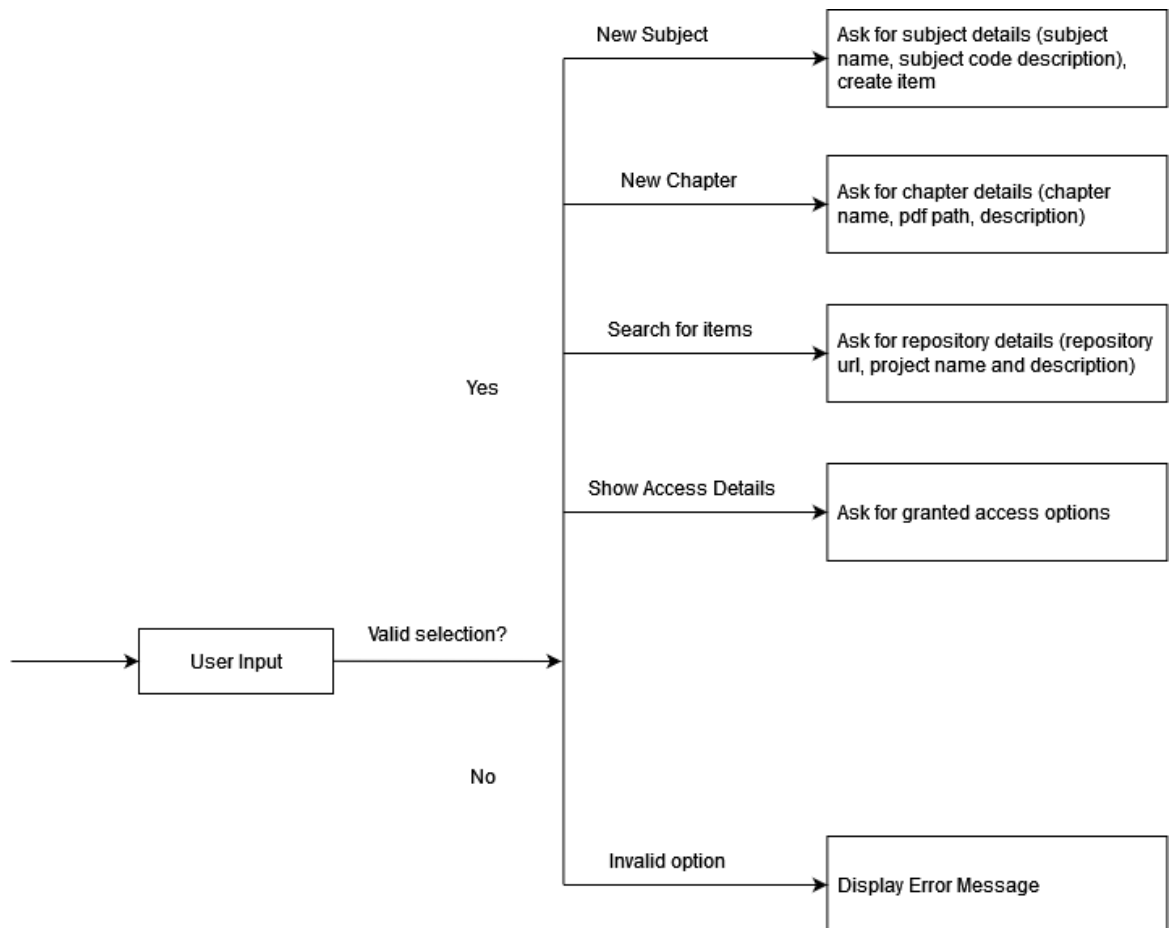


Figure 6: Decision Tree of User Input

Conditions	Rule 1	Rule 2	Rule 3	Rule 4	Rule 5	Rule 6	Rule 7	Rule 8
Upload Date	F	F	F	F	F	F	F	F
Subject Code	F	F	F	F	T	T	T	T
Repository URL	F	F	T	T	F	F	T	T
Chapter Name	F	T	F	T	F	T	F	T
Expected results	Error	Error	Error	Error	Error	Error	Error	Error
	Empty fields	Empty fields	Empty fields	Empty fields	Empty fields	Empty fields	Empty fields	Empty fields

Conditions	Rule 1	Rule 2	Rule 3	Rule 4
Username	F	T	F	T
Password	F	F	T	T
Expected Results	Error: Username or password is incorrect.	Error: Password is incorrect.	Error: Username is incorrect.	Success: User is logged in.

Table 2: Decision Table

3.7 Conceptual Modeling

3.7.1 ER Diagram

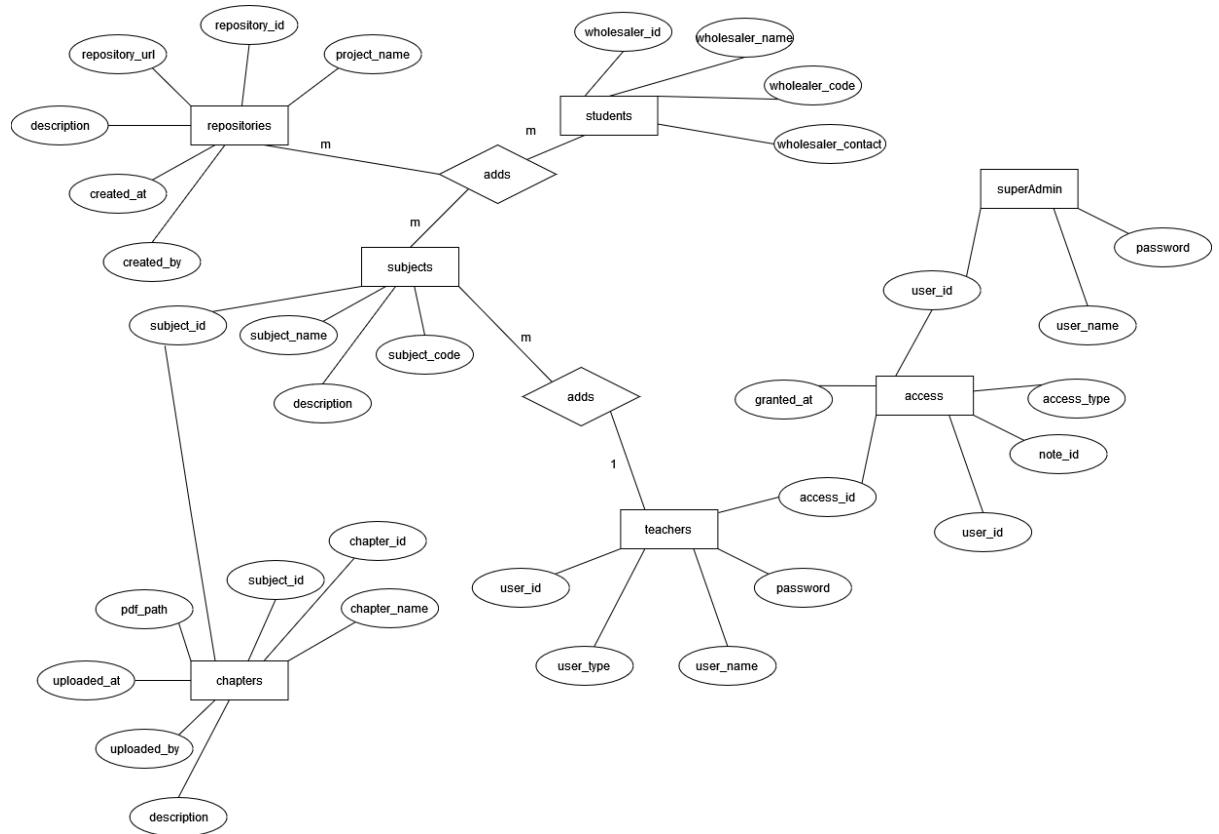


Figure 7: Entity Relationship Diagram (ERD)

Chapter 4

SYSTEM DESIGN

4.1 FLOWCHART

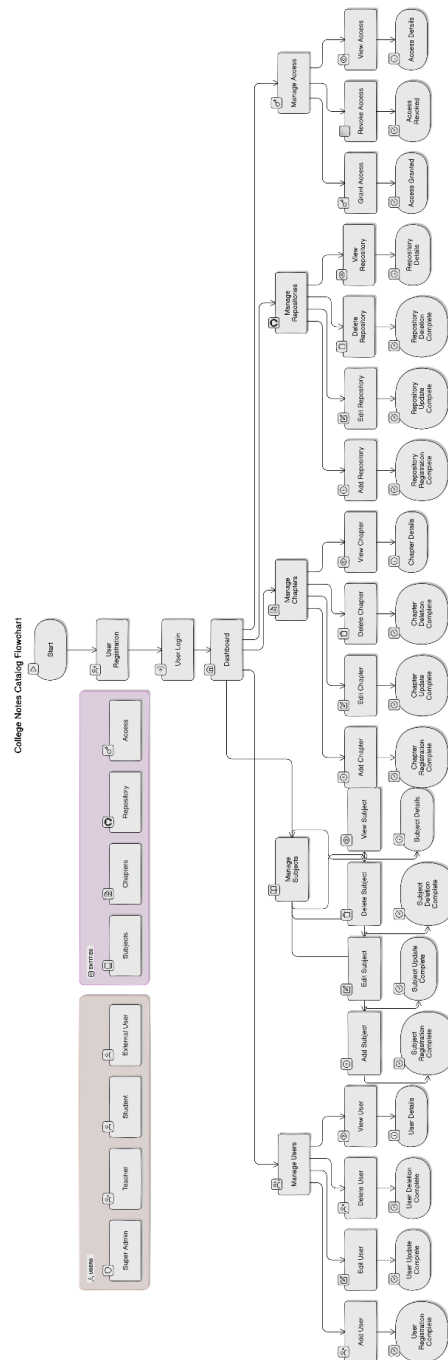


Figure 8: Flowchart of Entire System

4.2 INPUT-OUTPUT DIAGRAM

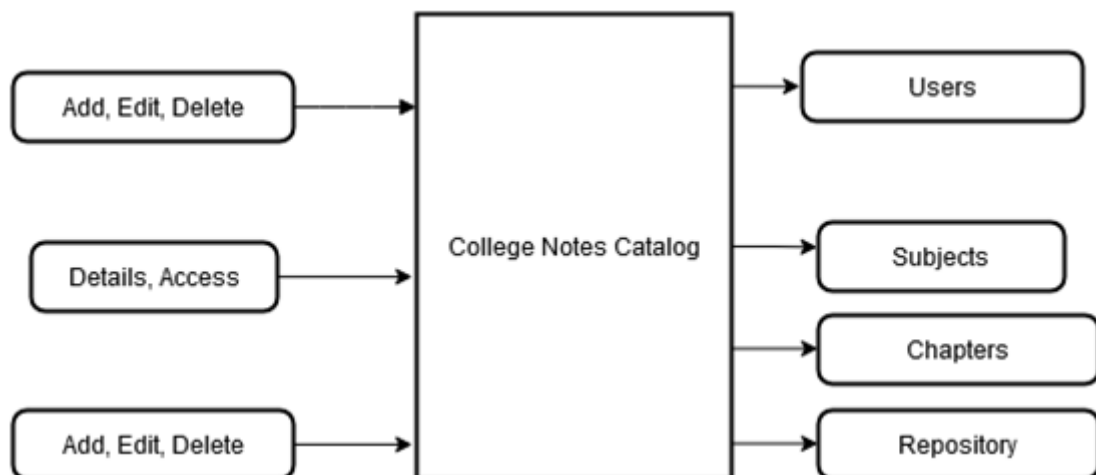


Figure 9: Input Output Diagram

4.3 USER INTERFACE STRUCTURE

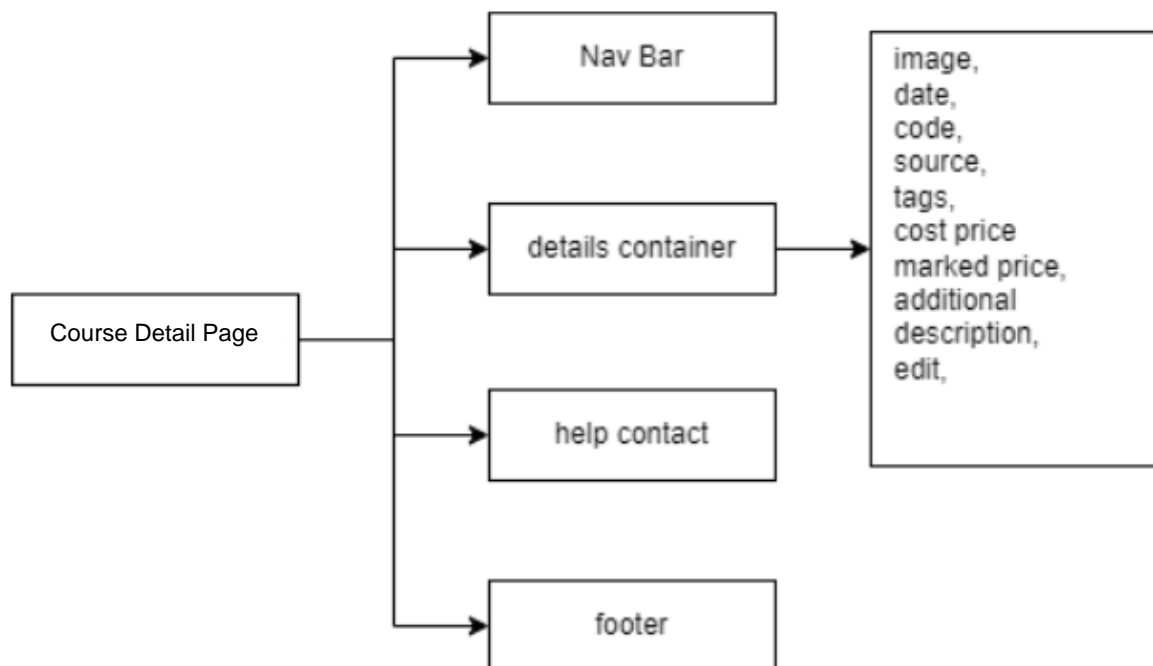
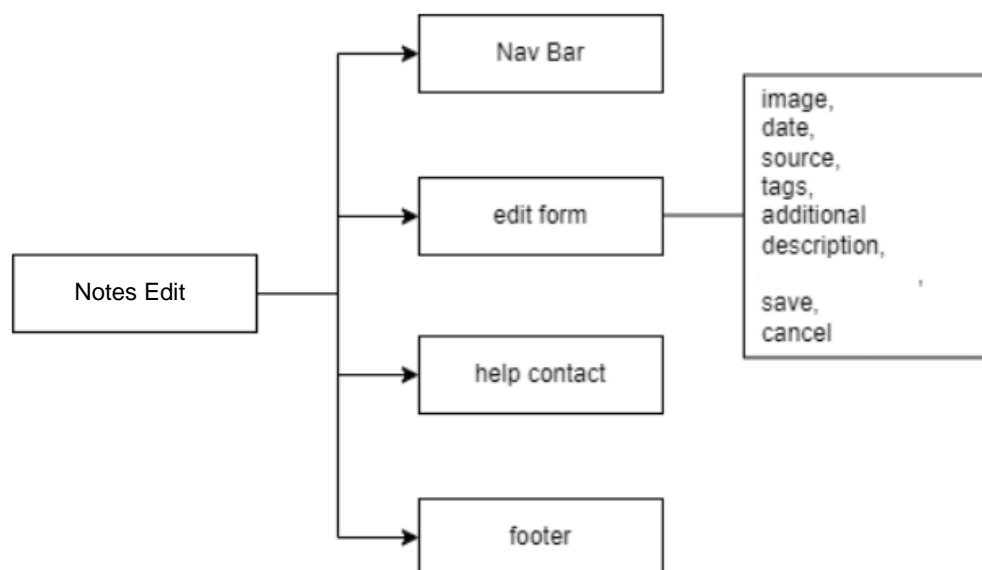
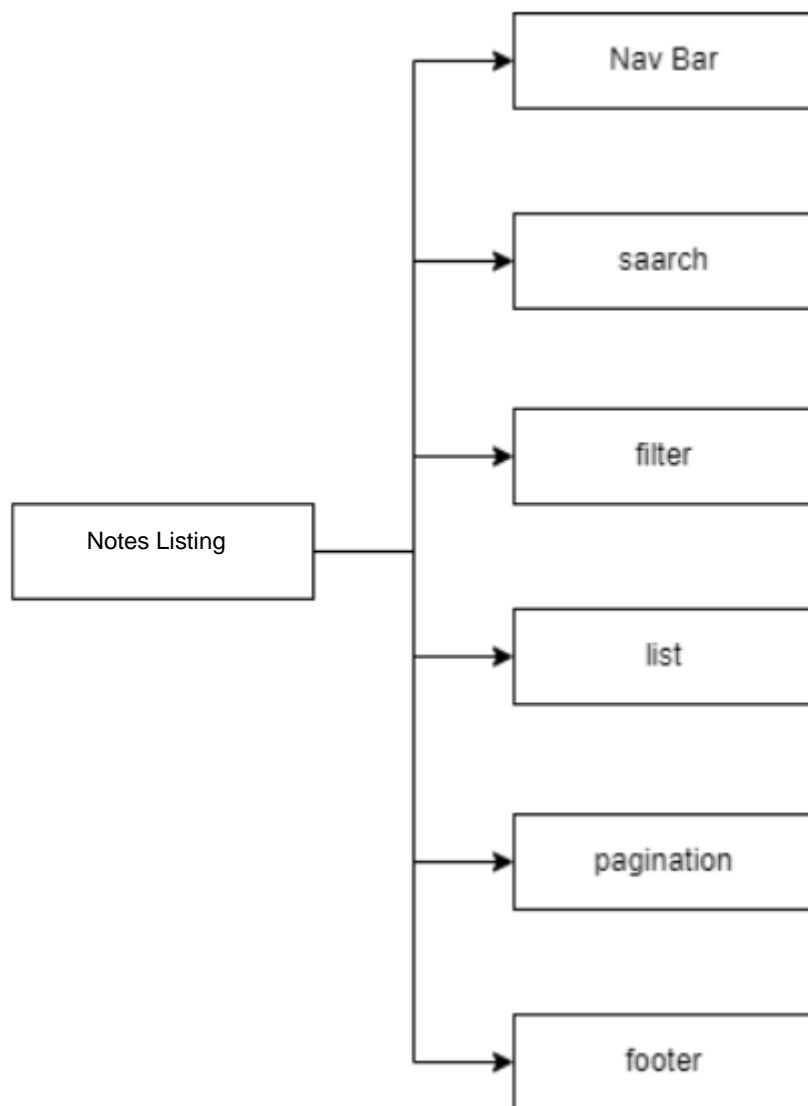


Figure 10: UI Stucture



4.4 DATABASE DESIGN

4.4.1 Data Dictionary

i. Users

Purpose: To store information about users, including university students, external users, and super admins.

Column Name	Data Type	Constraints
user_id	INT	PRIMARY KEY, AUTO_INCREMENT
username	VARCHAR	NOT NULL, UNIQUE
email	VARCHAR	NOT NULL, UNIQUE
password_hash	VARCHAR	NOT NULL
role	ENUM	NOT NULL (values: 'student', 'external', 'admin')
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

ii. Subjects

Purpose: To store information about the subjects offered.

Column Name	Data Type	Constraints
subject_id	INT	PRIMARY KEY, AUTO_INCREMENT
subject_name	VARCHAR	NOT NULL, UNIQUE
subject_code	VARCHAR	NOT NULL, UNIQUE
description	TEXT	

iii. Chapters

Purpose: To store information about chapters within subjects.

Column Name	Data Type	Constraints
chapter_id	INT	PRIMARY KEY, AUTO_INCREMENT
subject_id	INT	FOREIGN KEY REFERENCES Subjects(subject_id)
chapter_name	VARCHAR	NOT NULL
pdf_path	VARCHAR	NOT NULL
uploaded_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP
uploaded_by	INT	FOREIGN KEY REFERENCES Users(user_id)
description	TEXT	

iv. Repository

Purpose: To store information about the GitHub repositories related to final year projects.

Column Name	Data Type	Constraints
repository_id	INT	PRIMARY KEY, AUTO_INCREMENT
repository_url	VARCHAR	NOT NULL, UNIQUE
project_name	VARCHAR	NOT NULL
description	TEXT	
created_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP
created_by	INT	FOREIGN KEY REFERENCES Users(user_id)

v. Access

Purpose: To manage user access to notes and projects.

Column Name	Data Type	Constraints
access_id	INT	PRIMARY KEY, AUTO_INCREMENT
user_id	INT	FOREIGN KEY REFERENCES Users(user_id)
note_id	INT	FOREIGN KEY REFERENCES Notes(note_id)
access_type	ENUM	NOT NULL (values: 'view', 'edit', 'download')
granted_at	TIMESTAMP	DEFAULT CURRENT_TIMESTAMP

4.5 DETAILED DESCRIPTION OF COMPONENTS

4.5.1. NAVIGATION BAR

The navigation bar exists on all pages to provide quick access to its functions. The left side of the navigation bar contains the logo of the College Notes Catalog. At the right side is a search bar that lets the user immediately search for notes and subjects in the database with various keywords.

4.5.2. HOME PAGE

The Home page will have the hero section with the navigation bar and a welcome message. Since the target users are college students, each section of the home page will detail the functions of the application and how to use them. To that end, the page will have sections to describe the app's purpose, how it works, a call to login to use the application, contact details for help, and the footer to conclude it.

4.5.3. ADMIN DASHBOARD

The dashboard page exists for the admin side to view various analytics. The dashboard will have shortcut buttons to view various assorted lists of subjects, chapters, and users. It will also have a more comprehensive search bar with filters and sorting options for managing the catalog system.

4.5.4. SUBJECT LISTING PAGE

The subject listing pages will be accessible through the dashboard and separate pages will be available for different listing needs. The page will have access to extensive searching features with filters and various keywords associated with the subjects and chapters. To avoid clutter, the list will be managed by pagination.

4.5.5. CHAPTER EDIT PAGE

The chapter edit page will be accessible from the details page and will allow the admin to edit every detail of a previously entered chapter. Moreover, it will also have a module to upload or update PDF files. It will also have help details in case the users are having issues.

4.5.6. CHAPTER DETAIL PAGE

The details page will be accessible from the listing page where it opens up details for the selected chapter. It will display the chapter content, associated PDF files, and related information. It will also have the help details in case the users are having issues accessing or understanding the content.

4.6 TOOLS USED

Category	Tools Used
1. Front End	HTML/CSS, Tailwind CSS, ReactJS
2. IDE	Visual Studio Code
3. Database	MySQL: For application of multi-clients. It is used to monitor different clients at once. Every data including the IP addresses, keystrokes, and screenshots are captured in the database.
4. Backend	NodeJS
5. Version Control	Git, GitHub: To provide backup, development, version control, and CICD (Continuous Integration and Continuous Deployment)
6. Project Management	Notion
7. UML Design	Draw.io, Eraser.io
8. UI/UX	Figma

CHAPTER 5

CONCLUSION

5.1 Conclusion

The College Notes Catalog system has been successfully designed and implemented to address the needs of college students for efficient note management and sharing. By providing a centralized platform for organizing, accessing, and collaborating on academic materials, the system enhances the learning experience and promotes knowledge sharing among students. The implementation of features such as subject-wise organization, chapter management, and access control ensures that users can easily navigate and utilize the vast repository of notes and study materials.

5.2 Future Enhancement

While the current system provides a solid foundation for note management, several enhancements can be made to further improve its functionality and user experience:

- i. **Mobile Application Development:** Create a mobile app version of the College Notes Catalog to provide on-the-go access to notes and study materials, enhancing accessibility for students.
- ii. **Gamification Elements:** Introduce gamification features such as badges, points, and leaderboards to encourage active participation and contribution to the note repository.

These enhancements will not only improve the functionality of the College Notes Catalog but also increase user engagement and the overall value of the platform for students in their academic journey.

Appendix

- Dashboard
- Create New Notes
- My Notes**
- Courses
- Message 3
- Settings

Good Morning
My Notes

Search

Search: Search in your courses... Sort by: Latest Category: All Category Rating: 4 Star & Up

DEVELOPMENTS

Premiere Pro CC for Beginners: Video Editing in Premiere

★ 4.9 982,941 students

DEVELOPMENTS

Learn Python Programming Masterclass

★ 4.0 511,123 students

DEVELOPMENTS

Data Structures & Algorithms Essentials (2021)

★ 5.0 197,637 students

DEVELOPMENTS

Machine Learning A-Z™: Hands-On Python & R In Data Science

★ 5.0 211,434 students

DEVELOPMENTS

Complete Blender Creator: Learn 3D Modelling for Beginners

★ 3.5 435,671 students

DEVELOPMENTS

SQL for NEWBS: Weekender Crash Course

★ 4.7 154,817 students

DEVELOPMENTS

SEO 2021: Complete SEO Training + SEO for WordPress Websites

★ 4.9 181,811 students

DEVELOPMENTS

Angular - The Complete Guide (2021 Edition)

★ 4.8 236,568 students

DEVELOPMENTS

Graphic Design Masterclass - Learn GREAT Design

★ 5.0 1,356,236 students

DEVELOPMENTS

[NEW] Ultimate AWS Certified Cloud Practitioner - 2021

★ 4.5 435,671 students

DEVELOPMENTS

2021 Complete Python Bootcamp From Zero to Hero in Python

★ 4.3 435,671 students

DEVELOPMENTS

Instagram Marketing 2021: Complete Guide To Instagram Growth

★ 4.9 854 students

DEVELOPMENTS

Complete Adobe Lightroom Megacourse: Beginner to Expert

★ 4.8 854 students

DEVELOPMENTS

The Python Mega Course: Build 10 Real World Applications

★ 4.7 154,817 students

DEVELOPMENTS

The Ultimate Drawing Course - Beginner to Advanced

★ 4.5 2,711 students

DEVELOPMENTS

Machine Learning A-Z™: Hands-On Python & R In Data Science

★ 4.1 451,444 students

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