



Daffodil
International
University

Project Title: Project/Thesis Proposal Management System

Submitted by

Ashfia Khatun

ID: 211-51-038

Department of Information Technology & Management

Daffodil International University

Supervised by

Ms. Nusrat Jahan

Assistant Professor and Department Head

Department of Information Technology & Management

Daffodil International University

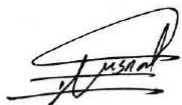
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Bachelor of Science in Information Technology & Management

Approval

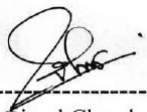
This project titled on “**Project/Thesis Proposal Management System**”, submitted by “**Ashfia Khatun, 211-51-038**”, to the Department of Information Technology & Management, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology & Management, and approval as to its style and contents.

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Professor
Institute of Information Technology
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I hereby declare that I have done this project under the supervision of Ms. Nusrat Jahan, Assistant Professor and Head of Department of Information Technology & Management (ITM), Daffodil International University. It also declares that neither this project nor any part of this has been submitted elsewhere for award of any degree.

Ashfia Khatun

Ashfia Khatun

Student ID: 211-51-038

Batch: 3

Department of Information Technology & Management

Faculty of Science & Information Technology

Daffodil International University



Certified by:

Ms. Nusrat Jahan

Assistant Professor and Department Head

Department of Information Technology & Management

Daffodil International University

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CHAPTER 1: INTRODUCTION

1.1 Background

In the final year of university, students are required to submit project or thesis proposals. Currently, this process is predominantly managed through email and manual interactions, leading to several challenges. The reliance on email communication often results in overloaded inboxes, making it difficult to manage the flow of proposals, feedback, and updates effectively. Additionally, there is a significant risk of losing important documents.

Another major concern is the lack of a centralized tracking system for the assignment of supervisors to students. Without a proper system, it becomes challenging to monitor the assignment of supervisors to students, leading to potential miscommunication and inefficiencies in the supervision process. The absence of a dedicated database also makes it difficult to filter and retrieve required data.

This project aims to address these issues by developing a streamlined and organized web-based portal, ensuring a more efficient, reliable, and user-friendly system for managing project and thesis proposals within the university.

1.2 Motivation

The motivation for developing the Project/Thesis Proposal Management System stems from various critical perspectives, highlighting the need for an efficient solution to current challenges.

Key motivating factors include:

1. **Efficiency in Management:** Overwhelmed email inboxes and manual tracking create bottlenecks in managing proposals, feedback, and updates, necessitating an organized system.

2. **Centralized Supervision:** The lack of a streamlined tracking mechanism for supervisor assignments lead to inefficiencies, which this project aims to resolve.
3. **Document Security:** Risks associated with misplaced or lost documents highlight the need for a secure and centralized database.
4. **Enhanced Accessibility:** Leveraging modern web technologies ensures intuitive navigation and easy access for students and faculty.
5. **Reduction of Communication Barriers:** By replacing fragmented email chains with direct feedback mechanisms, the system fosters clarity and reduces delays.
6. **Scalability and Future Potential:** Building this platform provides a foundation for further enhancements, such as progress tracking and advanced reporting.

This project is driven by the desire to address these challenges through technological innovation, ensuring a smoother academic experience for all stakeholders involved.

1.3 Objectives

By implementing this system, the following goals will be achieved:

1. **Streamlined Proposal Submission:** Provide a structured and organized platform for students to submit their proposals, reducing the reliance on email communication.
2. **Efficient Document Management:** Establish a centralized repository for all submitted documents, minimizing the risk of document loss and ensuring easy access for users.
3. **Supervisor Assignment Tracking:** Implement a tracking system that allows department advisors to efficiently assign and monitor supervisors for each student, ensuring clarity and accountability.
4. **Direct Feedback Mechanism:** Enable supervisors to provide direct feedback on student proposals within the system, enhancing communication and reducing the need for external email correspondence.

5. Data Storage and Retrieval: Ensure that all data is securely stored in a central database, allowing for easy retrieval, filtering, and reporting of information as needed.

6. Enhanced Communication and Transparency: Improve overall communication between students, advisors, and supervisors, fostering a transparent and organized project management process.

1.4 Expected Outcomes

Upon the successful completion of the Project/Thesis Proposal Management System, the following outcomes are expected:

1. A fully functional web application allowing students to submit project/thesis proposals and faculty to review and manage them efficiently.
2. A centralized document repository ensuring secure storage and easy retrieval of all proposals and related feedback.
3. Automated tracking of supervisor assignments, improving clarity and accountability.
4. An intuitive and user-friendly interface tailored to the needs of students, faculty, and administrators.
5. Enhanced communication and streamlined workflows, reducing reliance on external email systems.
6. A scalable and secure infrastructure, allowing for future system expansions such as project progress tracking and reporting tools.

1.5 Report Layout

This report is organized into several key sections:

1. **Introduction:** Lays the foundation of the project, discussing its background, motivation, objectives, and structure.
2. **Background:** Explores the project's context, including comparative studies, scope, and challenges.
3. **Requirement Specification:** Details the technical and user requirements, supported by diagrams and analyses.
4. **Design Specification:** Outlines the architectural and interface design.
5. **Implementation and Testing:** Provides an in-depth look into development processes, testing methodologies, and results.
6. **Conclusion and Future Scope:** Summarizes findings and identifies opportunities for future improvements.
7. **Appendix:** Includes additional resources such as diagrams and reflections.
8. **References:** Lists all sources and materials used in the project.

1.6 Comparative Studies

To highlight the necessity and advantages of the Project/Thesis Proposal Management System, a comparative analysis was conducted, focusing on existing systems and their limitations:

Current Systems

1. Email-Based Submission:

- **Limitations:** Overloaded inboxes, lack of organization, and the risk of lost or overlooked proposals.
- **Impact:** Inefficient communication and delayed processing.

2. Manual Tracking:

- **Limitations:** No central database for supervisor assignments or tracking approvals.
- **Impact:** Increased miscommunication and administrative burden.

3. Generic File Management Platforms (e.g., Google Drive):

- **Limitations:** Lack of customized workflows, no integrated feedback mechanisms, and limited automation.
- **Impact:** Ineffective for academic needs requiring structured review processes.

Proposed System

1. Centralized Platform:

- Offers a secure, centralized repository for proposals and related data.
- Simplifies the process of document submission, review, and retrieval.

2. Role-Based Access:

- Ensures tailored access and features for students, advisors, and supervisors, enhancing usability and security.

3. Automated Supervisor Assignment and Feedback:

- Streamlines assignment and monitoring processes.
- Provides direct, in-system feedback mechanisms to reduce reliance on email.

4. User-Friendly Interface:

- Designed with Bootstrap for responsive, mobile-friendly accessibility.

5. Scalable Infrastructure:

- Built using Laravel and MySQL to accommodate future expansions such as proposal tracking and reporting tools.

1.7 Scope of the Project

The Project/Thesis Proposal Management System aims to address current inefficiencies in managing proposals while laying a foundation for future enhancements.

Project Inclusions:

- **Proposal Management:** A structured portal for submission, review, and storage of proposals.
- **Role-Based Features:** Custom functionalities for students, advisors, and supervisors, including role-specific dashboards.
- **Supervisor Assignment:** Automated allocation and tracking of supervisors to ensure clarity and accountability.
- **Feedback Mechanism:** A direct channel for providing proposal feedback within the system.
- **Data Security:** Centralized and secure storage of all submissions and feedback.
- **Scalability:** Preparedness for future additions such as progress tracking and reporting tools.

Limitations:

1. **Initial Deployment:** Focused on managing submissions at a departmental level without integration across institutions.
2. **User Adoption:** Success is contingent on the willingness of faculty and students to transition from existing manual methods.
3. **Feature Set:** Does not include advanced project management tools for tracking post-approval stages.

1.8 Challenges

Several challenges were identified during the development and implementation of the Project/Thesis Proposal Management System:

1. **Data Security:** Safeguarding sensitive academic data such as proposals and feedback to ensure privacy and prevent unauthorized access.
2. **User Engagement:** Encouraging students, advisors, and supervisors to transition from traditional methods like email and manual tracking to the new web-based system.
3. **System Scalability:** Ensuring the platform can handle an increasing number of users and proposals without compromising performance.
4. **UI/UX Design:** Designing an intuitive interface to cater to users with varying technical expertise.
 - **Student Perspective:** Focused on a simple and straightforward process for submitting proposals and tracking approval statuses.
 - **Supervisor Perspective:** Ensured that reviewing, providing feedbacks to students was user-friendly with minimal navigation.
 - **Admin Perspective:** Provided easy access to user management and departmental-level reports for seamless oversight. Regular proposal review and assigning supervisor was incorporated to refine the interface and improve overall usability.
5. **Integration with Existing Workflows:** Aligning the platform's processes with current academic practices was challenging.
 - **Proposal Submission:** Structured forms were designed to resemble the manual proposal formats used by departments, ensuring familiarity for users.
 - **Approval Workflow:** Notifications and automated updates were incorporated to replicate the manual tracking often done through emails.

CHAPTER 2: REQUIREMENT SPECIFICATION

2.1 Business Process Modeling

The **Project/Thesis Proposal Management System** follows these key phases:

1. **Student Registration and Proposal Submission:** Students register on the platform and submit their project or thesis proposals, providing necessary details.
2. **Proposal Review by Advisors:** Department advisors review the submitted proposals, ensuring compliance with guidelines, and either approve or reject them.
3. **Supervisor Assignment:** For approved proposals, advisors assign supervisors, ensuring alignment with their expertise.
4. **Feedback and Progress Tracking:** Supervisors provide direct feedback on proposals through the system and monitor students' progress, ensuring a streamlined workflow.
5. **Data Management:** All proposals, assignments, and feedback are securely stored in a centralized database, enabling efficient retrieval, filtering, and reporting.
6. **Notifications:** The system sends real-time notifications to students and faculty for proposal updates, approvals, feedback, and deadlines, ensuring timely actions.

2.2 Stakeholder List

1. Super Admin:

- The Super Admin holds the highest level of access within the system, responsible for managing all aspects of the portal, including user management, department configuration, and overall system maintenance.

2. Admin (Advisor):

- Admins are responsible for overseeing the system within their specific departments. They manage teacher and student accounts, oversee the proposal submission process, and ensure the smooth operation of the system in their domain.

3. Supervisor (Teacher):

- Teachers, acting as either advisors or supervisors, play a critical role in reviewing and approving student proposals. Advisors are responsible for initial proposal approval and assigning supervisors, while supervisors provide ongoing guidance and feedback to students.

4. Students:

- Students are the primary users of the system, submitting their project or thesis proposals for review. They can track the status of their submissions, receive feedback, and interact with their assigned supervisors through the portal.

2.3 Functional Requirements

1. User Authentication & Authorization

- **Login/Signup:** Implement secure login and signup functionalities for all users (Super Admin, Admin, Supervisors, Students).
- **Role-Based Access Control:** Define different roles (Super Admin, Admin, Supervisor, Student) with specific access rights and permissions.

2. User Management

- **Super Admin:** Can create, update, and delete Admin, Supervisor, and Student accounts.
- **Admin:** Can manage Supervisor and Student accounts within their department.
- **Supervisor:** Can view and manage assigned students and their proposals.
- **Students:** Can update their profiles and submit project/thesis proposals.

3. Department Segmentation

- **Department Assignment:** Allow students and supervisors to be assigned to specific departments.

- **Proposal Segmentation:** Ensure that proposals are segmented by department and only visible to relevant department users.

4. Project/Thesis Proposal Submission

- **Proposal Form:** Allow students to submit a project/thesis proposal through a structured form.
- **Document Upload:** Enable students to upload supporting documents for their proposals.
- **Proposal Status Tracking:** Students can track the status of their proposals (Pending, Approved, Rejected).

5. Admin and Supervisor Management

- **Admin Assignment:** Allow department advisors to review and approve/reject proposals.
- **Supervisor Assignment:** Upon approval, allow advisors to assign supervisors to students.
- **Multiple Supervision:** Ensure that a supervisor can be assigned to multiple students.

6. Feedback Mechanism

- **Supervisor Feedback:** Supervisors can provide feedback directly on proposals.
- **Feedback Notifications:** Notify students when feedback is provided on their proposals.

7. Document Management

- **Document Repository:** Store all submitted documents securely in a central repository.
- **Version Control:** Allow students and supervisors to upload revised documents with version control.

8. Search and Filter

- **Proposal Search:** Implement search functionality to filter proposals by various criteria (e.g., student name, supervisor, status).
- **Supervisor and Student Search:** Allow searching and filtering of students and supervisors within departments.

9. Reporting

- **Proposal Reports:** Generate reports on the status of proposals (e.g., pending, approved, rejected).
- **User Activity Reports:** Track and report user activity within the portal.

10. Notifications

- **Email Notifications:** Send email notifications to users regarding important updates (e.g., proposal status changes, feedback provided).

11. Audit Trail

- **Activity Logging:** Log all significant actions within the system (e.g., proposal submission, approval, feedback) for accountability.

2.4 Non-Functional Requirements

1. Performance

- **Scalability:** Ensure the system can handle a growing number of users and data as the university expands.
- **Response Time:** Optimize the system to ensure quick response times for user actions (e.g., proposal submission, search).

2. Security

- **Data Encryption:** Encrypt sensitive data, both in transit and at rest.
- **User Authentication:** Implement strong password policies.

3. Usability

- **User-Friendly Interface:** Design an intuitive and user-friendly interface for all user roles.
- **Accessibility:** Ensure the system is accessible to users with disabilities, following standards like WCAG.

4. Reliability

- **Uptime:** Aim for high system availability with minimal downtime.
- **Backup and Recovery:** Implement regular data backups and a disaster recovery plan to prevent data loss.

5. Maintainability

- **Modular Codebase:** Develop the application with a modular architecture to simplify future updates and maintenance.
- **Documentation:** Provide comprehensive documentation for developers, admins, and end-users.

6. Compliance

- **Regulatory Compliance:** Ensure the system adheres to university policies and relevant regulations.
- **Audit Compliance:** Maintain an audit trail for all critical actions performed in the system.

2.5 Use Case Diagram

Actors:

- Super Admin
- Admin
- Supervisor
- Student

Admin and Super Admin:

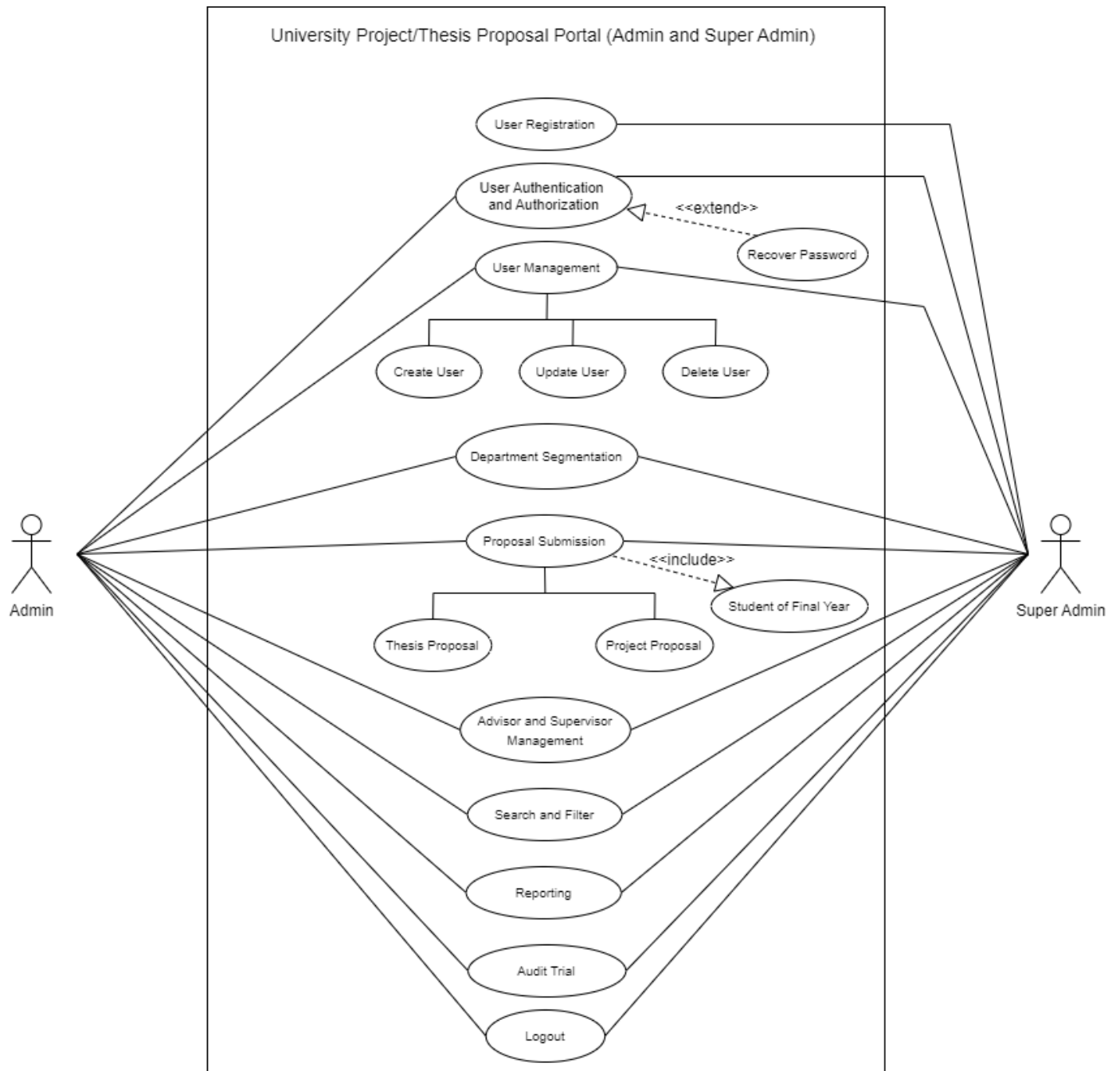


Figure 2.5.1 Use Case Diagram (Admin and Super Admin)

Supervisor:

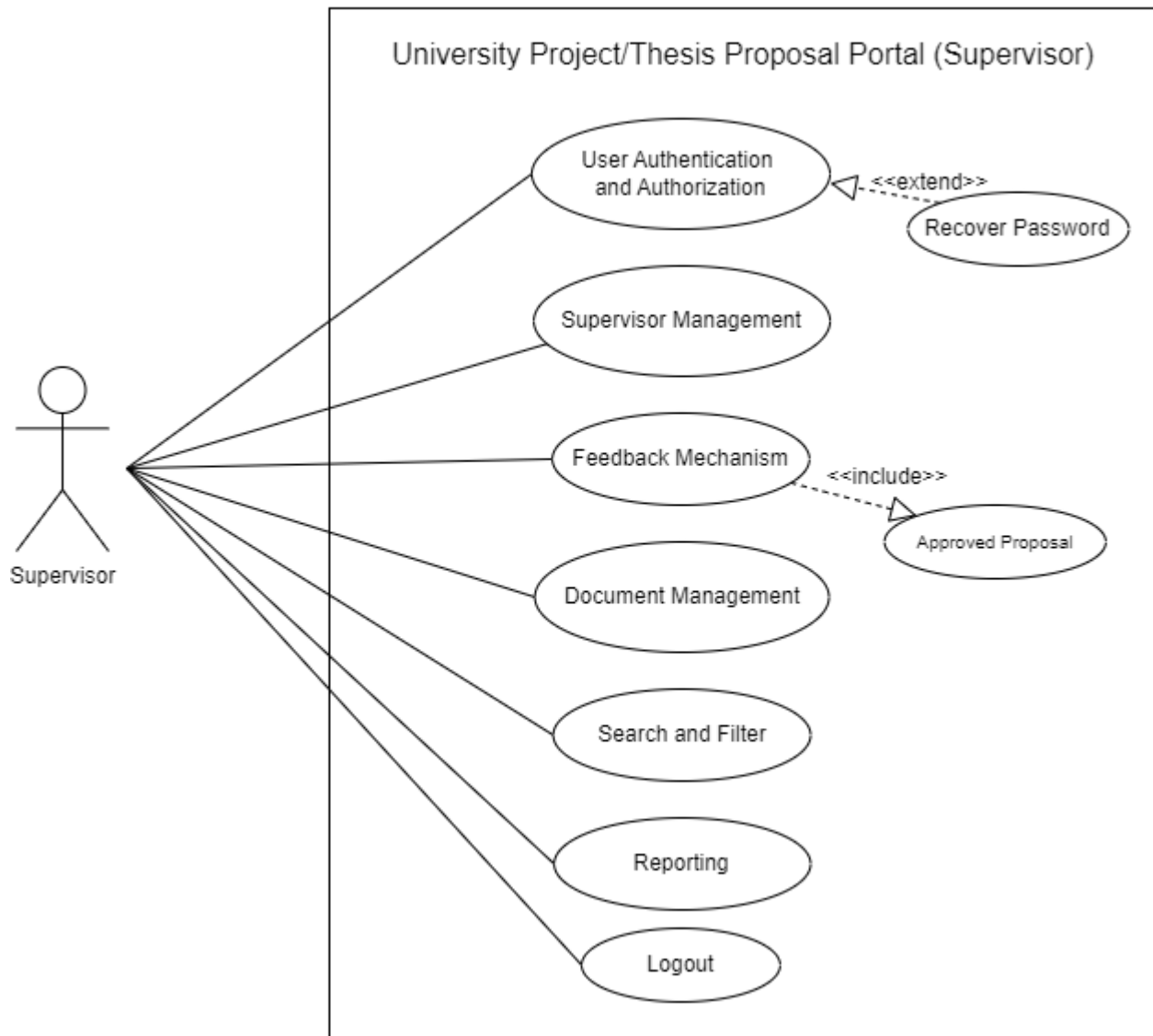


Figure 2.5.2 Use Case Diagram (Supervisor)

Student:

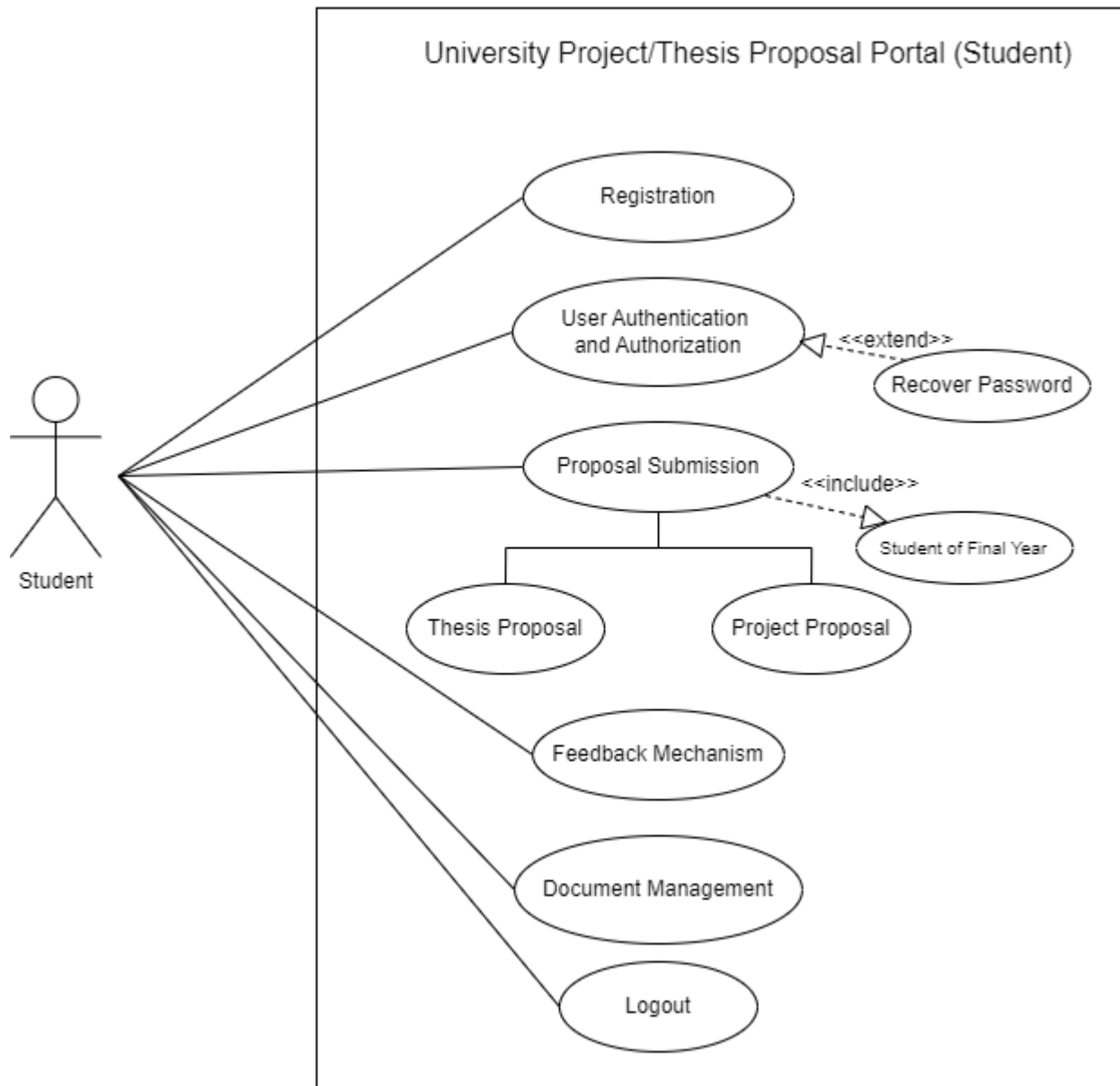


Figure 2.5.3 Use Case Diagram (Student)

2.6 Activity Diagram

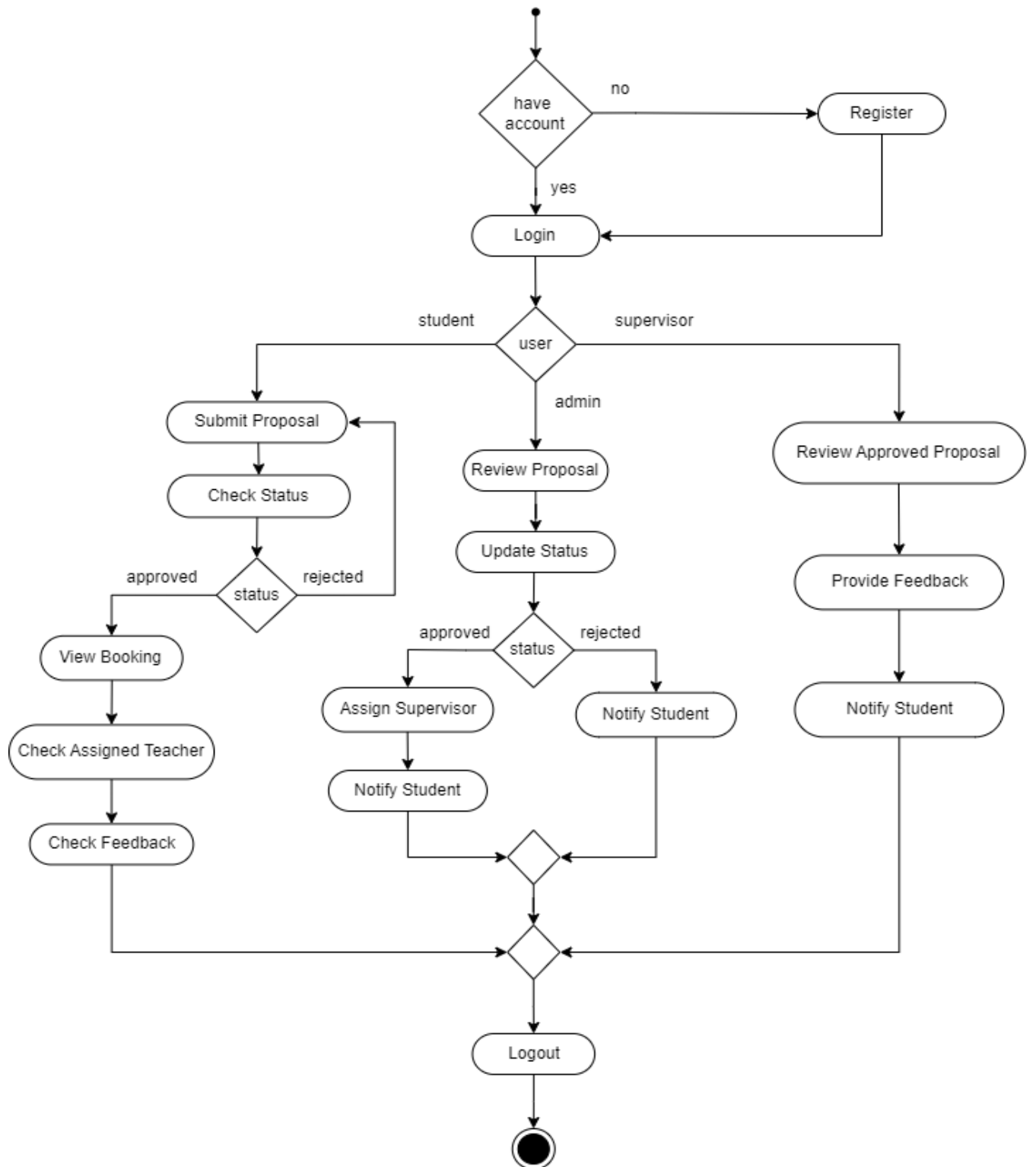


Figure 2.6.1 Activity Diagram

2.7 Sequence Diagram

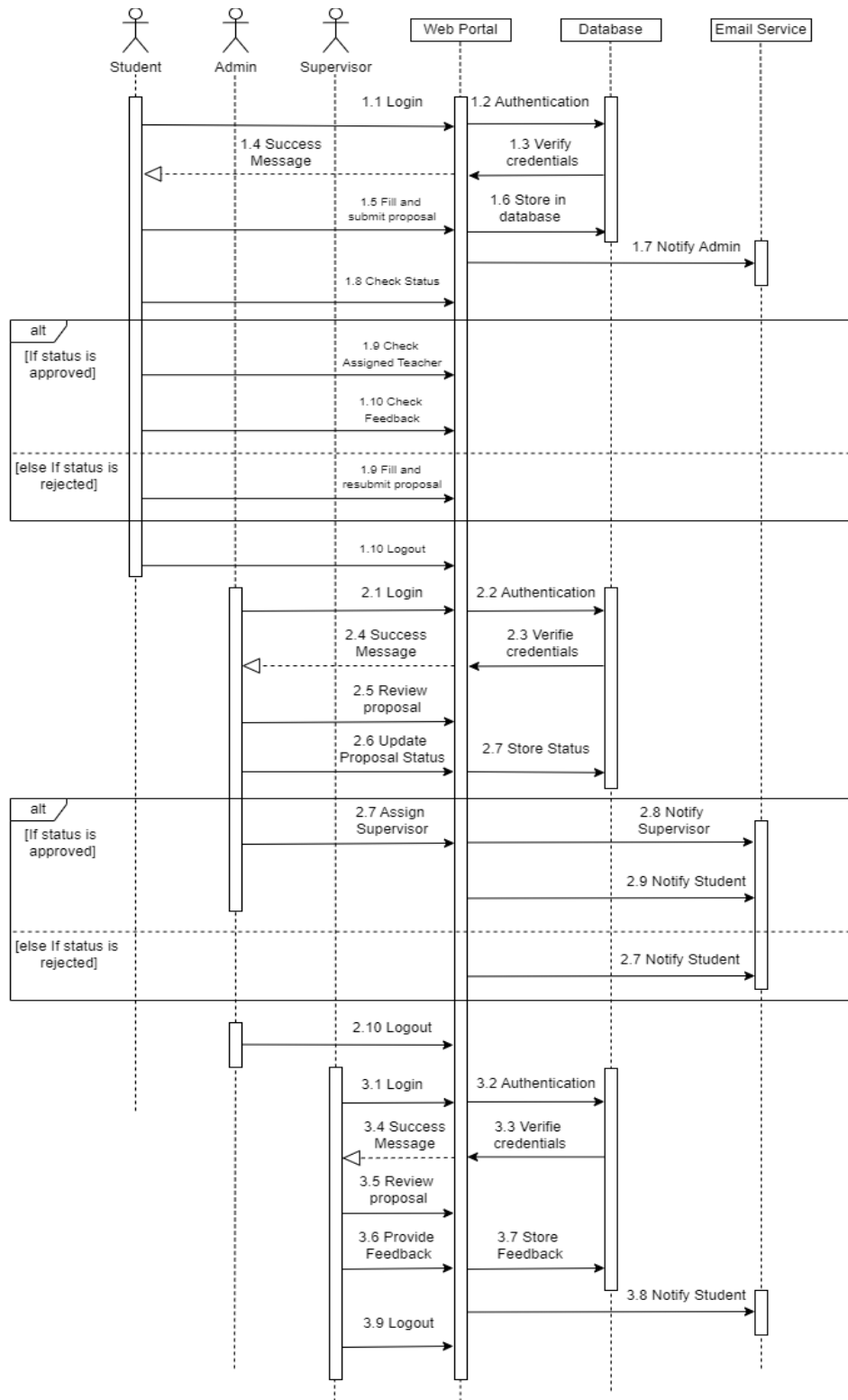


Figure 2.7.1 Sequence Diagram

2.8 Entity Relationship Diagram

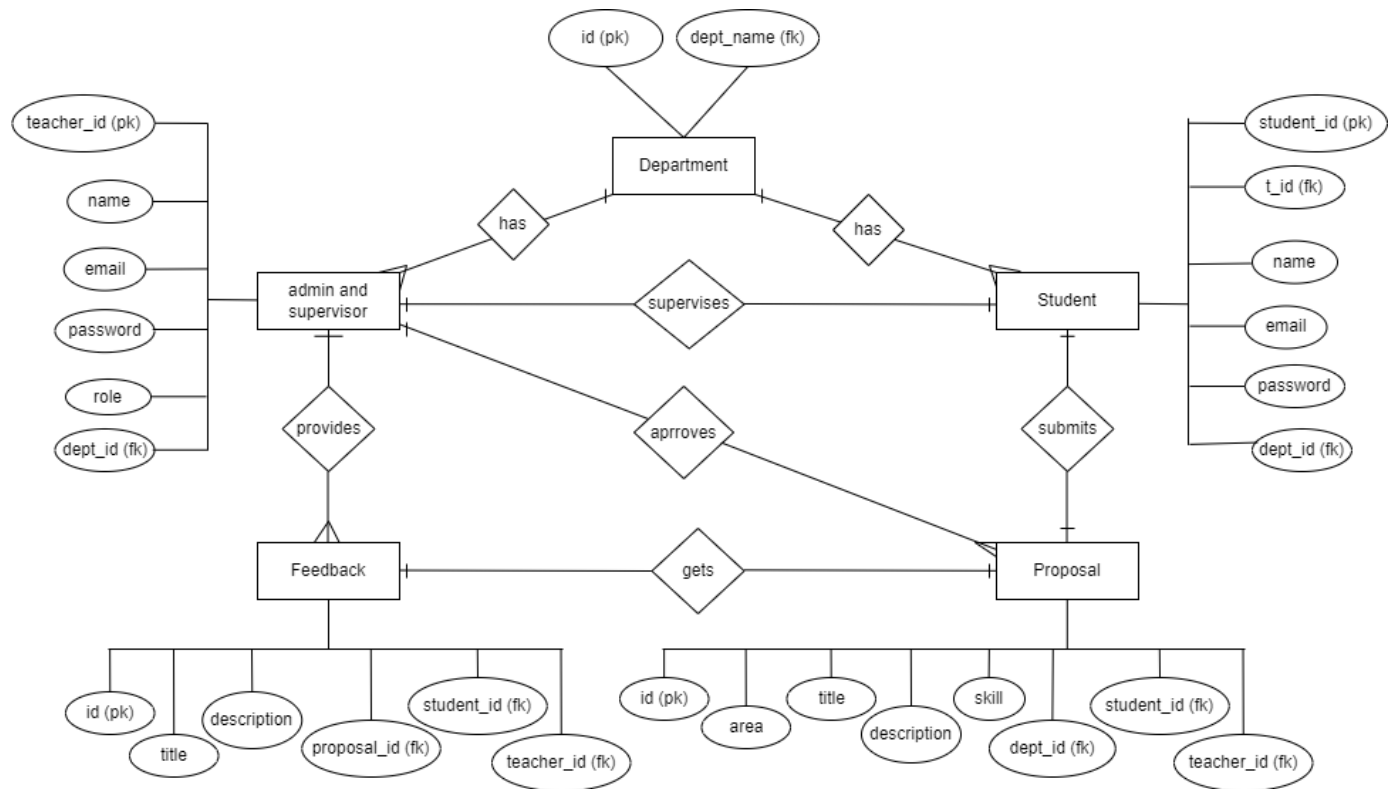


Figure 2.8.1 Entity Relationship Diagram

2.9 Gantt Chart

Task	Start Date	End Date	Duration (Weeks)
Requirement Gathering	Week 1	Week 2	2
System Design	Week 3	Week 4	2
Frontend Development	Week 5	Week 7	3
Backend Development	Week 5	Week 8	4
Integration	Week 9	Week 10	2
Testing	Week 11	Week 12	2
Deployment and Feedback	Week 13	Week 14	2

2.10 SWOT Analysis

Here is the SWOT Analysis for Project/Thesis Proposal Management System:

Strengths:

- **Centralized Platform:** Simplifies project submission and tracking for students and faculty.
- **Structured Workflow:** Ensures smooth transitions from proposal submission to supervisor assignment.
- **User-Friendly Interface:** Enhances accessibility for all user roles.
- **Improved Communication:** Direct feedback mechanisms reduce reliance on emails.

Weaknesses:

- **Initial Adoption Challenge:** Users may resist transitioning from familiar email processes.
- **Limited Features:** Focused primarily on proposals without extensive project tracking functionalities.
- **Resource Intensive:** Requires reliable hosting and consistent maintenance.

Opportunities:

- **Scalability:** Can evolve into a comprehensive project management tool.
- **Integration Possibilities:** Opportunity to add advanced features like AI-based suggestions for supervisors.
- **Broader Adoption:** Universities worldwide could benefit from similar systems.

Threats:

- **Technical Challenges:** Potential issues like system downtimes and scalability limits.
- **Data Privacy Concerns:** Risk of sensitive academic data breaches.
- **Competitor Systems:** Rival platforms offering more features could overshadow it.

CHAPTER 3: DESIGN SPECIFICATION

This section provides a detailed overview of the design and architecture of the Project/Thesis Proposal Management System. It highlights the cohesive interaction between frontend user experience, backend logic, and database structure to ensure an intuitive, efficient, and scalable platform.

3.1 Front-End Design

The frontend of the Project/Thesis Proposal Management System focuses on simplicity, functionality, and accessibility. It provides a seamless experience for users, ensuring they can navigate and interact with the system efficiently.

3.1.1 Frontend Accessibility

The frontend uses **Blade templates**, Laravel's native templating engine, to render dynamic content. Key advantages include:

- **Seamless Integration:** Works directly with Laravel's routing and controller logic.
- **Dynamic Content:** Efficiently handles server-side rendering for personalized user views.

3.1.2 Styling

- **Responsive Layouts:** Ensures usability across desktops, tablets, and mobile devices.
- **Predefined Components:** Speeds up development with ready-to-use UI components.
- **Custom Styles:** Extended CSS classes for branding and additional design elements.

3.1.3 Key Pages

- **Home Page:** Introduces the platform's purpose and features.
- **User Registration/Login:** Secure forms for authentication and user account creation.
- **Dashboard:** Displays user-specific data such as submitted proposals, feedback, and assigned supervisors.
- **Proposal Submission:** Allows students to upload proposals with real-time validation.

- **Supervisor Management:** For administrators to assign supervisors and track progress.

3.1.4 User Interactions

- **Real-Time Feedback:** Validation errors, success messages, and status updates provide instant user guidance.
- **Interactive Forms:** Includes client-side and server-side validation to ensure data accuracy.

3.1.5 Frontend Accessibility

- Designed to be inclusive, following accessibility standards.
- Supports screen readers and keyboard navigation to cater to users with disabilities.

3.2 Back-End Design

The backend of the Project/Thesis Proposal Management System is responsible for handling logic, data management, and secure user interactions. It is built using **Laravel**, leveraging its robust MVC architecture for clean and efficient development.

3.2.1 Architecture

- **Server-Side Framework:** Laravel provides tools for routing, middleware, and seamless API development.
- **Database:** MySQL is used to store structured data, ensuring fast queries and relational consistency.

3.2.2 Core Functionalities

- **User Management:** Features secure user registration, login, role-based profiles (students, faculty, administrators), and profile updates.

- **Proposal Submission:** Handles file uploads, tracks revisions, and manages approvals or rejections with notifications.
- **Supervisor Assignment:** Facilitates dynamic assignment of supervisors to students and monitors project status.
- **Automated Notifications:** Sends email or dashboard alerts for updates like feedback, approvals, and assignments.

3.2.3 Security Measures

- **Encryption:** Ensures all sensitive data is protected through HTTPS and Laravel's built-in encryption tools.
- **Role-Based Access Control (RBAC):** Restricts access to administrative functions based on user roles.
- **Validation:** Implements both server-side and client-side input validation to prevent security risks like SQL injection and XSS.

3.2.4 Scalability

The backend design supports:

- **High Traffic Loads:** Laravel's queue system manages tasks like sending emails and processing uploads efficiently.
- **Future Integrations:** Supports adding advanced features like analytics dashboards or feedback systems.

3.3 Interaction Design and UX

The interaction design and user experience (UX) strategies for the Project/Thesis Proposal Management System prioritize seamless navigation, user satisfaction, and intuitive functionality.

3.3.1 User Journey Mapping

The system streamlines workflows, ensuring minimal steps to achieve key actions, such as:

- **Students:** Submit proposals in a few clicks by uploading documents and filling required details.
- **Faculty:** Easily review, provide feedback to proposals with real-time updates.
- **Administrators:** Effortlessly assign supervisors and manage proposal statuses.

3.3.2 Navigation Design

- **Top Navigation Bar:** Links to the dashboard and user profile.
- **Sidebar Menu:** Displays specific options like proposals, users, and departments.
- **Breadcrumb Navigation:** Guides users to track their steps while exploring the system.

3.3.3 Feedback Mechanisms

- **Positive Feedback:** Messages like *"Proposal submitted successfully"* or *"Supervisor assigned."*
- **Error Prompts:** Alerts such as *"You do not have access to this page."*
- **Tooltips:** Provide guidance for filling forms and understanding complex fields.

3.3.4 Mobile-First Approach

The platform is designed with a responsive, mobile-first strategy to ensure functionality and accessibility on smartphones and tablets while remaining robust on larger screens.

3.3.5 Testing for Usability

Extensive usability testing was conducted with students, faculty, and administrators to optimize navigation and accommodate various skill levels.

3.4 Implementation Requirements

The implementation of the Project/Thesis Proposal Management System requires a robust stack of tools and technologies to ensure its efficiency, scalability, and reliability.

3.4.1 Frontend Tools

- **Blade Templates (Laravel):** For server-side rendering of views with dynamic data.
- **Bootstrap:** For responsive, mobile-first styling and consistency in design.
- **JavaScript:** For dynamic interactions and enhanced user experience.

3.4.2 Backend Tools

- **Laravel Framework:** To handle server-side logic, routing, and business operations.
- **MySQL:** For structured data storage and management.
- **XAMPP Server:** As a server to run this project

3.4.3 Hosting and Deployment

- **AWS (Amazon Web Services):** Provides scalable and secure cloud hosting for the application.
- **GitHub Actions:** Automates deployment pipelines for continuous integration and delivery.

3.4.4 Development Environment

- **Version Control:** Git and GitHub for collaborative development and version tracking.
- **IDE/Editor:** Visual Studio Code with Laravel, JavaScript, and debugging extensions for streamlined coding.

CHAPTER 4: Implementation and Testing

The Project/Thesis Proposal Management System is a robust web application designed to simplify and organize the proposal submission process for students and faculty. The project is executed with a focus on security, scalability, and seamless user interaction, ensuring a reliable and efficient system for managing project and thesis proposals.

4.1 Database Implementation

The database design for the Project/Thesis Proposal Management System is carefully structured to support diverse user roles, manage proposals efficiently, and ensure data security and scalability. MySQL serves as the database, integrating seamlessly with Laravel's ORM for robust data handling.

4.1.1 Database Design

Tables and Their Relationships:

1. Users Table

- **Fields:** id, name, email, password, role, status, isAdmin, isSuperAdmin, dept_id, assigned_teacher, official_id, teacher_initial, designation, credit_finished, cgpa, batch.
- **Purpose:** Stores user details, roles (student, admin, teacher), departmental affiliations, and academic/professional information.
- **Relationships:**
 - Belongs to a Department.
 - Has many Proposals (as a student or supervisor).

2. Proposals Table

- **Fields:** id, status, type, area, title, description, background, question, objective, skills, feedback, user_id, student_id, dept_id, ass_teacher_id.
- **Purpose:** Maintains project/thesis proposals with details like title, objectives, assigned supervisors, and departmental affiliation.
- **Relationships:**
 - Belongs to a User (student or assigned teacher).
 - Belongs to a Department.
 - Has many Feedbacks.

3. Departments Table

- **Fields:** id, name.
- **Purpose:** Categorizes users and proposals by departments.
- **Relationships:** Has many Users and Proposals.

4. Feedbacks Table

- **Fields:** id, feedback, prop_id.
- **Purpose:** Records advisor or supervisor comments on proposals.
- **Relationships:** Belongs to a Proposal.

4.1.2 Data Security

- User passwords are hashed using Laravel's bcrypt for secure storage.
- Sensitive fields like official_id and email are encrypted.
- Environment variables manage secure database connections, ensuring credentials are never hard-coded.

4.1.3 Optimization

- Indexed columns include official_id, dept_id, and status to improve query performance.
- Relationships utilize foreign keys for data consistency and integrity.
- Efficient retrieval of proposals by using eager loading for related models like department and assignedTeacher.

4.1.4 Sample Data Population

Sample data was populated during development for testing and prototyping purposes. Below is an example for the Users Table:

```
INSERT INTO users (name, email, password, role, dept_id, official_id, designation, batch)
VALUES
('John Doe', 'johndoe@example.com', '$2y$10$Zl...', 'student', 1, '20242001', NULL, 2024),
('Dr. Alice Smith', 'asmith@example.com', '$2y$10$Lx...', 'teacher', 1, 'T001', 'Professor', NULL);
```

4.2 Frontend Implementation

The frontend of the platform delivers a clean and responsive interface, ensuring seamless interaction and accessibility for all users.

4.2.1 Technology Used

- **Blade Template Engine:** Utilized for creating dynamic server-rendered pages within Laravel. Blade simplifies templating with features like layout inheritance and control structures.
- **Bootstrap CSS:** Used for consistent styling and a responsive, mobile-first design.
- **JavaScript (Vanilla):** Incorporated for interactivity and dynamic client-side behavior where needed.

4.2.2 Key UI Components

1. Registration and Login Forms

- **Server-Side Validation:** Ensures correct user input with error messages displayed after form submission.
- **Example:** If a user submits an invalid email, the page reloads and displays: "Please enter a valid email address."
- Custom role-specific registration fields ensure a tailored onboarding process for students, teachers, and admins.

2. Dashboard

- Displays personalized user data such as proposal statuses, assigned supervisors, and system notifications.
- **Views:**
 - **Student Dashboard:** Shows proposals submitted, feedback received, and their statuses.
 - **Teacher Dashboard:** Lists supervised proposals and feedback pending.
 - **Admin Dashboard:** Offers management tools for users and proposals.

3. Proposal Submission Form

- User-friendly form with fields for title, description, objectives, and other details.
- File upload functionality for adding supporting documents.

4. Search and Filter Feature

- Teachers can filter proposals by status (e.g., pending, approved, rejected).
- Admins can filter by department, type, or assigned supervisor.

5. Notifications

- A notification area displays updates like new feedback, approvals, or changes to proposals.

4.2.3 Responsive Design

- **Bootstrap Grid System:** Ensures the platform is fully responsive, adapting seamlessly across devices (smartphones, tablets, and desktops).
- **Mobile-First Design:** Prioritizes usability on smaller screens, with features like collapsible navigation and optimized form layouts.
- **CSS Media Queries:** Customize styles for different screen sizes to ensure readability and usability.

4.2.4 Additional Features

- **Theme Consistency:** Shared Blade layouts ensure a uniform appearance across pages.
- **Accessibility:** Adheres to web accessibility standards for better usability by diverse user groups.
- **Minimal JavaScript Usage:** Enhances performance by focusing on server-side rendering and limiting heavy client-side dependencies.

4.3 Backend Implementation

The backend of the platform is the core engine, managing data processing, business logic, and ensuring the smooth operation of all functionalities.

4.3.1 Technology Used

- **Laravel Framework:** Provides a robust and scalable environment for building web applications with elegant syntax.
- **PHP 8.2:** Powers the application logic and server-side processing with XAMPP.
- **MySQL Database:** Stores and retrieves structured data efficiently.

4.3.2 Core Functionalities

- **Authentication and Authorization**
 - **Built-in Laravel Authentication:** Ensures secure user login and registration.
 - **Role-Based Access Control (RBAC):**
 - **Students:** Limited to proposal submission and viewing feedback.
 - **Teachers:** Can manage proposals and provide feedback.
 - **Admins:** Full access to manage users, proposals, and departments.
- **Proposal Management**
 - **Submission:** Students can submit detailed proposals linked to their profiles and departments.
 - **Approval Workflow:** Teachers can approve, reject, or provide feedback on proposals.
 - **Assignment:** Approved proposals are assigned to supervisors automatically or manually by admins.
- **Notifications System**
 - **Email Notifications:**
 - Sent for actions like proposal submission status updates or new feedback from supervisors.

- **Database Notifications:**
 - Stored and displayed in dashboards for students and teachers.
- **Data Validation and Integrity**
 - All form submissions are validated using Laravel’s Request classes to ensure correct data formats.
 - **Example:** Proposals cannot be submitted without required fields like title, description, or objectives.
- **Reporting and Analytics**
 - Admins can view reports on proposal statuses by department, teacher workload, and student activity.
 - Filters allow admins to generate insights for specific time periods or departments.

4.3.3 Middleware and Error Handling

1. Middleware

- **Role Verification:** Ensures users access only authorized resources.
- **Input Sanitization:** Protects the system from malicious inputs and ensures clean data entry.

2. Centralized Error Handling

- **Custom Error Pages:** Displays user-friendly messages for common errors like 404 or 500.
- **Logging:** Captures server-side errors with Laravel’s Log facade for troubleshooting.

3. CSRF Protection

- Built-in CSRF token validation secures forms against cross-site request forgery attacks.

4. Rate Limiting

- Limits the number of requests to APIs, preventing abuse and maintaining server performance.

4.3.4 Additional Backend Features

- **Department-Based Data Segmentation:** Ensures data is grouped and managed efficiently by departments.
- **Audit Trails:** Tracks actions like proposal updates and approvals for accountability.
- **Extensibility:** The modular design of the Laravel application ensures future features can be added seamlessly.

4.4 Interaction Mechanisms

The Project/Thesis Proposal Management System ensures a seamless and intuitive interaction experience for users, tailored to their roles and responsibilities within the platform.

4.4.1 User Interactions

1. Registration and Login

- Validation rules ensure proper data entry for required fields like name, email, and password.
- Users receive confirmation messages after successful registration or login.

2. Proposal Submission

- **Students:**
 - Submit proposals with details such as title, description, objectives, and background.
 - Real-time validation prevents submission of incomplete or invalid forms.
 - Students can track their proposal status (Pending, Approved, Rejected) through their dashboard.
- Example: If a student leaves the title blank, a prompt displays: "Proposal title is required."

3. Feedback and Approval Workflow

- **Teachers:**
 - Review proposals and provide feedback or comments for improvement.
 - Approve or reject proposals directly from their dashboard.
 - Status updates reflect immediately in the system.

4. Notifications

- **Email Notifications:** Inform students about proposal approval, rejection, or feedback.
- **Dashboard Alerts:** Provide real-time updates on proposal status changes.

4.4.2 Admin Interactions

1. User Management

- Admins can add, update, or deactivate user accounts for students, teachers, and department heads.
- Role assignment ensures users access functionalities aligned with their responsibilities.

2. Proposal Oversight

- Admins can monitor proposal submissions across departments.
- View detailed proposal statuses and assign supervisors to approved proposals.
- Filter proposals by department, status, or assigned teacher for effective management.

3. Department and Role Management

- Admins can manage department details and associate users with their respective departments.

4.4.3 Role-Specific Dashboards

1. **Students:** Submit and track proposals, view assigned teachers, and receive feedback.
2. **Teachers:** Review and manage proposals, provide feedback, and monitor assigned student progress.
3. **Admins:** Comprehensive view of all proposals, users, and departments, ensuring smooth coordination.

4.5 Integration and Deployment

4.5.1 Integration

1. Frontend-Backend Communication

- Blade templates dynamically render data from the backend using Laravel's built-in templating engine.
- HTTP requests are managed through Laravel controllers to fetch and send data between the frontend and backend.
- **Example:** The ProposalController handles requests to the /proposals endpoint to submit, retrieve, or update proposals.

2. Dynamic Data Updates

- User dashboards and proposal statuses dynamically update based on data changes in the backend.
- **Example:** When a proposal is approved, the status is updated in real time on the student's dashboard.

4.5.2 Deployment

1. Frontend and Backend

- Deployed together on AWS, leveraging EC2 instances for hosting the Laravel application.
- Nginx serves as the web server for handling requests efficiently.

2. Database

- Hosted on AWS RDS (Relational Database Service) with MySQL as the database management system, ensuring secure, scalable, and high-performance storage.

3. Version Control and CI/CD

- GitHub is used for version control, enabling collaborative development and maintaining a codebase history.
- Deployment pipelines automate testing and deployment using GitHub Actions, ensuring smooth integration of new features.

4. Environment Management

- Environment variables securely configure database credentials, AWS keys, and application secrets using Laravel's .env file.

4.6 Security Implementation

1. Data Encryption:

- **In Transit:** All data exchanges between the client (browser) and the server are encrypted using SSL/TLS protocols, ensuring the use of HTTPS for secure communication.

- **At Rest:** Sensitive data like passwords and user details are encrypted using Laravel's bcrypt hashing, providing additional security for stored information.

2. Authentication:

- **Session-based Authentication:** Laravel's session management handles user authentication securely by storing session tokens and preventing unauthorized access. Passwords are hashed using bcrypt before storage in the database.
- **Role-based Login:** Different authentication and redirection logic is in place for students, teachers, and admins based on roles.

3. Role-Based Access Control:

- **Role Management:** Different roles (e.g., student, supervisor, admin) are defined in the system. Each role has specific access permissions to certain.
- **Middleware:** Laravel's middleware enforces role-based access control, ensuring users can only access authorized pages and functionalities based on their assigned role.

4.7 Key Challenges and Solutions

1. Real-Time Notifications

- **Challenge:** Initially, the system experienced delays in notifying users about proposal status updates (e.g., when a proposal was approved or rejected) due to high server traffic during peak usage times.
- **Solution:** Optimization was achieved by reducing the polling frequency and implementing WebSocket support through Laravel Echo for real-time notifications or use AJAX, ensuring instant updates for students and teachers.

2. Validation Issues

- **Challenge:** Some users bypassed frontend validation rules when submitting incomplete proposals, leading to database errors.
- **Solution:** Backend validation using Laravel's Form Request Validation was implemented, ensuring that data validation occurs on both the frontend and backend, preventing incorrect submissions.

4.8 Testing Features

1. User Registration/Signup:

- **Description:** Tests whether new students, teachers, and admins can register successfully, ensuring that validation rules are enforced (e.g., valid email format, required fields).
- **Expected Outcome:** Users can register, and a confirmation email is sent.

2. User Login:

- **Description:** Verifies that registered users can securely log in to their respective dashboards.
- **Expected Outcome:** Correct credentials allow access; incorrect credentials return error messages.

3. Submit Proposal (Student):

- **Description:** Tests the submission process for students proposing their thesis/project.
- **Expected Outcome:** Proposals are saved successfully with valid data.

4. Approve Proposals (Teacher/Admin):

- **Description:** Verifies that teachers can approve or reject student proposals, providing feedback where necessary.
- **Expected Outcome:** Teachers can review, approve, or reject a proposal, and students receive real-time notifications.

5. Admin Login:

- **Description:** Ensures that admins can securely access their control panels, managing the overall system functionalities.
- **Expected Outcome:** Admins can log in and view the user management dashboard.

6. Manage Users (Admin):

- **Description:** Tests the admin's ability to manage users, including viewing, updating, activating/deactivating, or deleting accounts.
- **Expected Outcome:** Admins can successfully manage users, including deactivation or account deletion.

7. Proposal Approval Workflow (Admin):

- **Description:** Verifies the admin's ability to oversee the proposal approval workflow, ensuring admins can manage all proposals and intervene if necessary.
- **Expected Outcome:** Admins can view proposal statuses, approve, or escalate issues as needed.

4.8.1 Testing Strategy

Manual Testing Approach

- **Testing Approach:** Each feature is manually tested through step-by-step processes that simulate real user interactions with both the student and admin modules.

Pass/Fail Criteria

- **Component Pass/Fail Criteria:**
 - **Pass:** A feature passes the test if it functions as intended and meets all requirements.
 - **Fail:** A feature fails if it does not meet its objectives or produces errors during the test.

Suspension and Resumption

- **Regression Testing:**
 - Ensures that previously working features continue to function after new features or updates are introduced to the system.
- **Build Acceptance Testing:**
 - Every new system build must pass testing before being deployed. Failed tests will trigger revisions and re-testing before proceeding.
- **System Design Changes:**
 - Any updates to the system design (e.g., changes in user flow or UI updates) will undergo thorough testing to ensure they do not affect the integrity or functionality of other components in the system.

4.8.2 Test Cases

Test Case 01: User Registration

System: User Management

Subsystem: Registration

Designed By: Ashfia Khatun

Executed By: Ashfia Khatun

Execution Date: 02-12-2024

Student Registration:

Step	Action	Pass/Fail	Comment
1	User fills in only the name field and clicks "Register".	Fail	Prompts user to complete other fields.
2	User clicks "Register" without filling in any fields.	Fail	Displays error for missing required fields.
3	User enters an invalid email format (e.g., abc.com).	Fail	Prompts user to provide a valid email.
4	User enters valid data and clicks "Register".	Pass	Registration succeeds, user receives confirmation.

Supervisor Registration:

Step	Action	Pass/Fail	Comment
1	Teacher fills in name but skips department information.	Fail	Prompts to complete required fields.
2	Admin submits registration without providing a valid email address.	Fail	Displays error for invalid email.
3	Teacher completes registration and submits.	Pass	Registration succeeds, pending admin approval.

Test Case 02: User Login

System: User Management

Subsystem: Login

Designed By: Ashfia Khatun

Executed By: Ashfia Khatun

Execution Date: 03-12-2024

Step	Action	Pass/Fail	Comment
1	User fills in only the email field and clicks "Login".	Fail	Prompts user to enter the password.
2	User clicks "Login" without filling in any fields.	Fail	Displays error for missing required fields.
3	User enters an invalid email format (e.g., abc.com).	Fail	Prompts user to provide a valid email.
4	User enters correct credentials and clicks "Login".	Pass	Successfully logs in.

Test Case 03: Proposal Management

System: Proposal Management

Subsystem: Proposal Submission and Approval

Designed By: Ashfia Khatun

Executed By: Ashfia Khatun

Execution Date: 04-12-2024

Submit Proposal (Student):

Step	Action	Pass/Fail	Comment
1	Student submits a proposal without selecting type.	Fail	Prompts user to select type.
2	Student submits incomplete proposal data.	Fail	Displays error for missing fields.
3	Student submits a valid proposal.	Pass	Proposal is successfully submitted.

Approve Proposal (Admin/Supervisor):

Step	Action	Pass/Fail	Comment
1	Admin views a list of assigned proposals.	Pass	Displays all proposals.
2	Admin approves a proposal.	Pass	Student is notified of approval.
3	Teacher provides feedback to assigned teacher.	Pass	Student receives feedback as notification.

Test Case 04: Admin Dashboard

System: Admin Management

Subsystem: User and Proposal Management

Designed By: Ashfia Khatun

Executed By: Ashfia Khatun

Execution Date: 05-12-2024

Manage Users (Admin):

Step	Action	Pass/Fail	Comment
1	Admin views a list of registered users.	Pass	Displays all registered users.
2	Admin creates a user account.	Pass	User account is created successfully.
3	Admin deletes a user account.	Pass	User is successfully removed.

Manage Proposals (Admin):

Step	Action	Pass/Fail	Comment
1	Admin views a list of all proposals.	Pass	Displays proposals in tabular format.
2	Admin removes a rejected proposal from the system.	Pass	Proposal is successfully deleted.

Send Emails (Admin):

Step	Action	Pass/Fail	Comment
1	Admin sends bulk emails to notify teachers of assigned proposals.	Pass	Emails are successfully sent.
2	Admin sends bulk emails to notify students of feedback from assigned supervisor.	Pass	Emails are successfully sent.

CHAPTER 5: CONCLUSION AND FUTURE WORK

5.1 Conclusion

The Project/Thesis Proposal Management System effectively resolves the challenges in traditional project and thesis proposal processes by offering an organized, efficient, and user-friendly platform. It streamlines the submission, review, and approval workflow, ensuring seamless communication between students, advisors, and supervisors.

With a centralized interface, students can submit their proposals, track statuses, and receive feedback in a structured manner. Advisors and supervisors' benefit from tools that enable efficient evaluation, assignment, and tracking of proposals. The platform's role-based access control ensures that each user interacts with only the relevant features, enhancing security and usability.

A standout feature of the system is its ability to consolidate data, reducing reliance on email and paper-based communication. By providing a transparent and accessible process, the platform minimizes errors, reduces response times, and improves accountability.

In summary, the Project/Thesis Proposal Management System is a robust solution that modernizes the way academic institutions handle proposals. It lays the foundation for further enhancements, such as integration with analytics tools or mobile platforms, ensuring scalability and adaptability for future needs. By streamlining processes and improving user satisfaction, the system promotes academic excellence and operational efficiency.

5.2 Future Scope

The platform's future roadmap includes:

1. Mobile Application Development

- Native applications for iOS and Android to allow students, advisors, and supervisors to access the platform conveniently from their mobile devices, ensuring seamless proposal submission, tracking, and feedback on the go.

2. Real-Time Notifications and Chat

- Introducing real-time notifications to alert users about updates, approvals, or deadlines.
- Adding a secure chat feature to facilitate instant communication between students, advisors, and supervisors.

3. Advanced Reporting and Analytics

- Providing detailed reports and insights on submission trends, approval rates, and project outcomes to help administrators monitor and improve academic processes.

4. Scalability and Multi-Institution Support

- Expanding the platform to support multiple universities or departments with customizable workflows and configurations.

5. Integration with Academic Tools

- Connecting the system with existing academic tools such as Learning Management Systems (LMS) or document management platforms for a more cohesive academic ecosystem.

5.3 Revenue Generation Process

To sustain and manage the **Project/Thesis Proposal Management System**, two revenue models can be adopted:

1. **One-Time Registration Fee Model:** Each department that enrolls in the system will pay a **one-time registration fee**. This ensures lifetime access to the platform without recurring payments. This model suits institutions looking for minimal recurring expenses.
2. **Semester-Wise Subscription Fee Model:** Each department will pay a **subscription fee every six months**. This semester-based model aligns with academic cycles, ensuring consistent revenue for managing and upgrading the system over time.

These revenue models provide flexibility and scalability, supporting the application’s long-term maintenance and growth.

5.3 Approximate Monthly Cost Management Report

Cost Breakdown (in BDT):

Here’s an estimated cost analysis for the platform, covering development, hosting, and maintenance.

Category	Details	Cost (BDT)
Development Cost	Initial cost to develop the platform, spread over 12 months	15,000
Hosting Cost	Web hosting and domain fees (e.g., AWS)	3,500
Database Management	MySQL database hosting charges	2,000
Administrative Costs	Salary for system administrator/manager	8,000
Web Application Management	Technical support and maintenance (e.g., bug fixes, updates)	At Actual

Marketing Costs	Promotion and outreach to departments	At Actual
Miscellaneous Expenses	Backup services, monitoring tools, and software subscriptions	2,000
Total Monthly Cost		30,500

Annual Costs:

- **One-time Development Cost:** Approximately **90,000 BDT** (15,000 x 6 months).
- **Post-Publication Maintenance:** Around **186,000 BDT/year** (15,500 x 12 months).

5.4 Revenue Model

Model	Details	Income Per Dept. (BDT)	Total Income for 25 Dept. (BDT)
One Time Registration	One-time fee for lifetime access.	20,000	5,00,000
Subscription (Semester)	Subscription fee every 6 months (2 times/year)	5,000	2,50,000

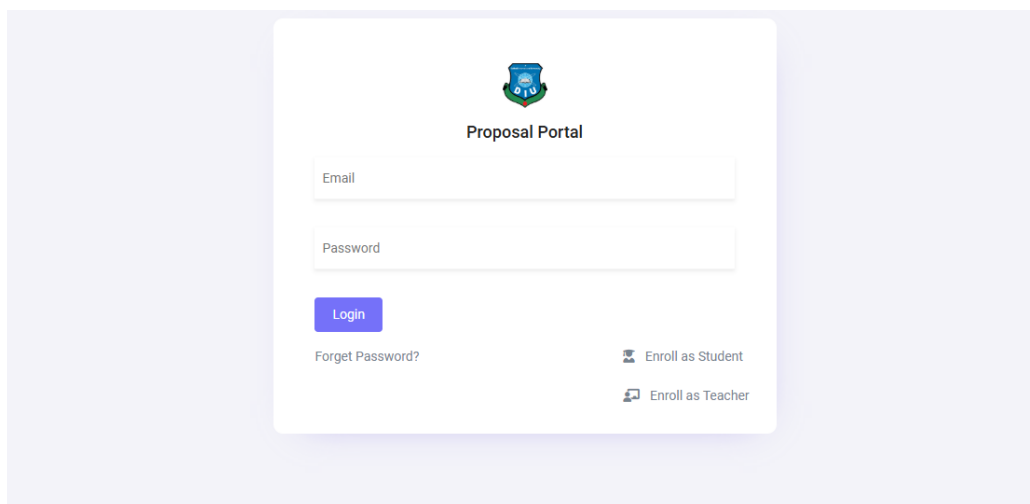
CHAPTER 6: APPENDIX

Appendix A: Git Hub Link

<https://github.com/ashfiaKhatun/proposal-portal>

Appendix B: System Design

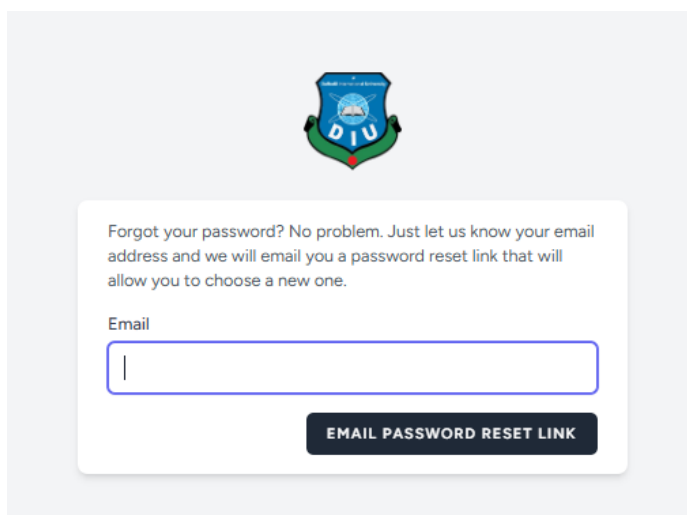
Login Page:



The screenshot shows the login page for the Proposal Portal. At the top center is the DIU logo, followed by the text "Proposal Portal". Below this are two input fields: "Email" and "Password". A blue "Login" button is positioned below the password field. At the bottom left, there is a link for "Forget Password?". At the bottom right, there are two links: "Enroll as Student" and "Enroll as Teacher".


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Developed by Ashfia Khatun

Forget Password:



The screenshot shows the "Forget Password" page. At the top center is the DIU logo. Below it is a text box containing the message: "Forgot your password? No problem. Just let us know your email address and we will email you a password reset link that will allow you to choose a new one." Below the text is an "Email" input field. At the bottom right, there is a dark blue button labeled "EMAIL PASSWORD RESET LINK".

Student and Supervisor Registration Page:


Proposal Portal
Student Registration

Student ID:

Name:

Email:

Batch:

Credit Finished:

Current CGPA:


Department

Password:

Confirm Password:

[Register](#)

[Already registered?](#)


Proposal Portal
Supervisor Registration

Teacher ID:

Name:

Teacher Initial:

Email:

Department

Designation:

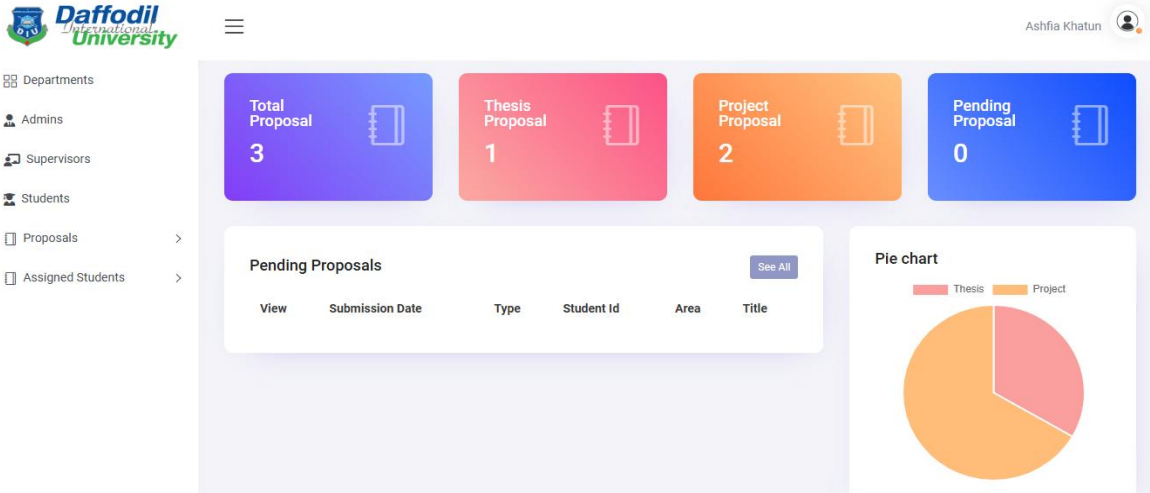
Password:

Confirm Password:

[Register](#)

[Already registered?](#)

Admin Dashboard:



List of departments

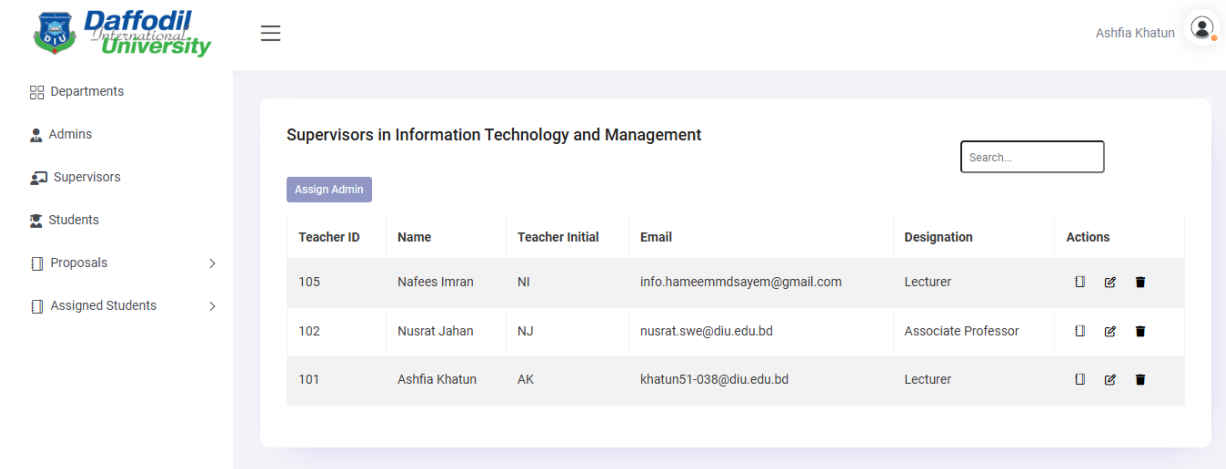
The 'List of Departments' page shows a search bar and an 'Add New Department' button. Below is a table with three departments: Information Technology and Management, Nutrition and Food Engineering, and Pharmacy. Each department has a set of action buttons: Supervisors, Students, Proposals, Edit, and Delete.

Name	Actions
Information Technology and Management	Supervisors, Students, Proposals, Edit, Delete
Nutrition and Food Engineering	Supervisors, Students, Proposals, Edit, Delete
Pharmacy	Supervisors, Students, Proposals, Edit, Delete

‘Add New Department’ button triggers to open a modal

The 'Add New Department' modal is open, showing a text input field for 'Department Name:'. Below the input field are 'Close' and 'Save Department' buttons. The background dashboard is dimmed.

For each ‘Supervisors’ button, it redirects to the list of supervisors of that particular department



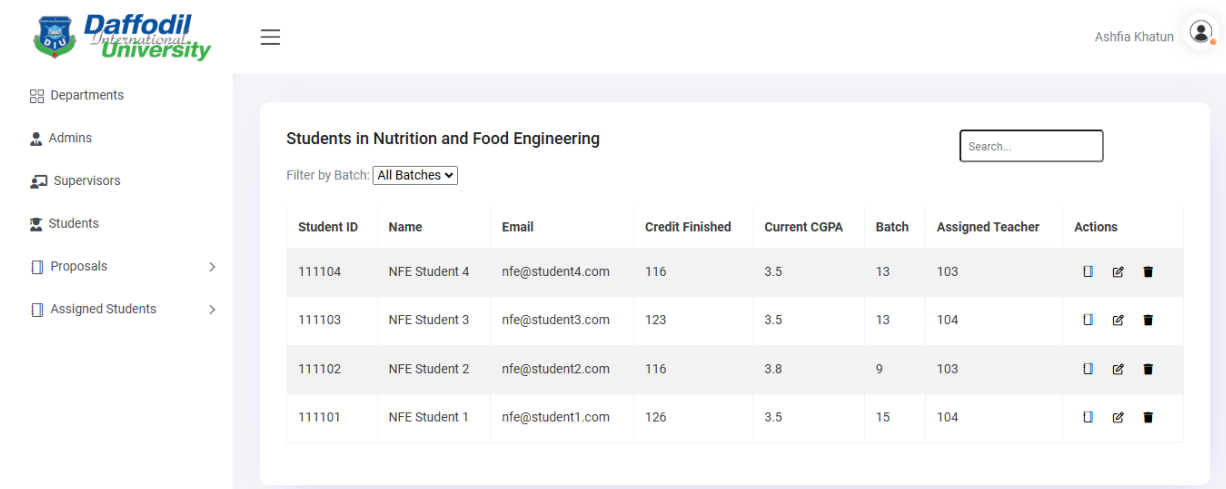
Supervisors in Information Technology and Management

Search...

Assign Admin

Teacher ID	Name	Teacher Initial	Email	Designation	Actions
105	Nafees Imran	NI	info.hameemdsayem@gmail.com	Lecturer	View Edit Delete
102	Nusrat Jahan	NJ	nusrat.swe@diu.edu.bd	Associate Professor	View Edit Delete
101	Ashfia Khatun	AK	khatun51-038@diu.edu.bd	Lecturer	View Edit Delete

For each ‘Students’ button, it redirects to the list of students of that particular department



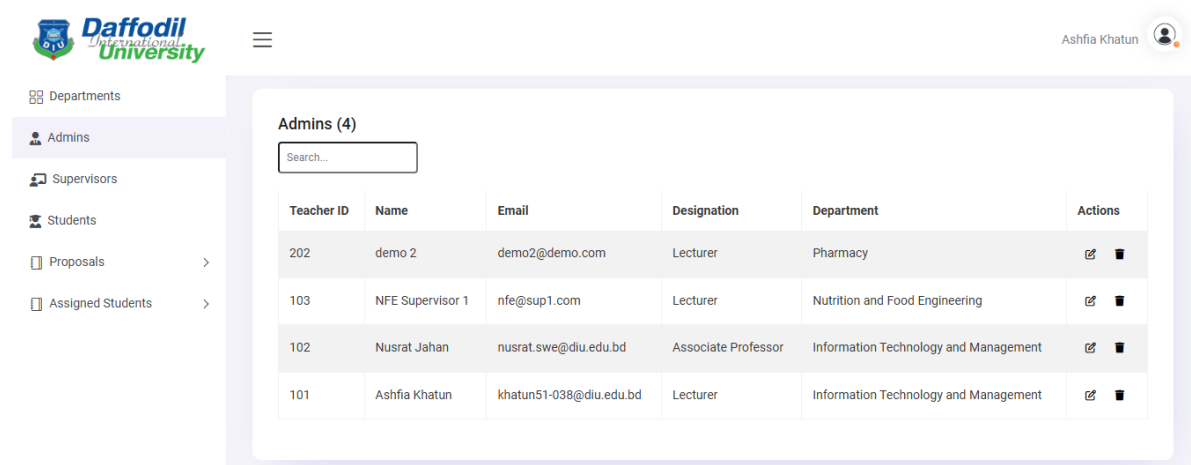
Students in Nutrition and Food Engineering

Search...

Filter by Batch: All Batches

Student ID	Name	Email	Credit Finished	Current CGPA	Batch	Assigned Teacher	Actions
111104	NFE Student 4	nfe@student4.com	116	3.5	13	103	View Edit Delete
111103	NFE Student 3	nfe@student3.com	123	3.5	13	104	View Edit Delete
111102	NFE Student 2	nfe@student2.com	116	3.8	9	103	View Edit Delete
111101	NFE Student 1	nfe@student1.com	126	3.5	15	104	View Edit Delete

‘Admins’ from sidebar redirects to the list of all admin



Admins (4)

Search...

Teacher ID	Name	Email	Designation	Department	Actions
202	demo 2	demo2@demo.com	Lecturer	Pharmacy	View Delete
103	NFE Supervisor 1	nfe@sup1.com	Lecturer	Nutrition and Food Engineering	View Delete
102	Nusrat Jahan	nusrat.swe@diu.edu.bd	Associate Professor	Information Technology and Management	View Delete
101	Ashfia Khatun	khatun51-038@diu.edu.bd	Lecturer	Information Technology and Management	View Delete

‘Supervisors’ from sidebar redirects to the list of all supervisors of logged in admin’s department

Supervisors (3)

Search...

Teacher ID	Name	Teacher Initial	Email	Designation	Status	Change Status	Actions
105	Nafees Imran	NI	info.hameemdsayem@gmail.com	Lecturer	Approved	Approved	🗑️ ✉️
102	Nusrat Jahan	NJ	nusrat.swe@diu.edu.bd	Associate Professor	Approved	Approved	🗑️ ✉️
101	Ashfia Khatun	AK	khatun51-038@diu.edu.bd	Lecturer	Approved	Approved	🗑️ ✉️

« »

‘Students’ from sidebar redirects to the list of all students of logged in admin’s department

Students (2)

Search...

Filter by Batch: All Batches

Student ID	Name	Email	Credit Finished	Batch	Current CGPA	Status	Change Status	Actions
211-51-041	Shahadat Limon	hasan51-047@diu.edu.bd	111	2	3.71	Approved	Approved	🗑️ ✉️
211-51-038	Ashfia Sohely	ashfia.khatun01@gmail.com	118	3	3.8	Approved	Approved	🗑️ ✉️

« »

‘Proposals’>’All Proposals’ from sidebar redirects to the list of all submitted proposals

All Submissions (3)

Search...

Filter by Batch: All Batches Filter by Type: Select

Student Name	Batch	CGPA	Area	Title	Status	Assigned Supervisor
Ashfia Sohely	3	3.8	demo	demo	Approved	Ashfia Khatun
Shahadat Limon	2	3.71	test area 4	test title 4	Approved	Nafees Imran
Ashfia Sohely	3	3.8	test area 1	test title 1	Approved	Nafees Imran

« »

‘Assigned Students’ from sidebar redirects to the list of all assigned proposals by category

The screenshot shows the Daffodil International University dashboard. The left sidebar contains navigation options: Departments, Admins, Supervisors, Students, Proposals, Assigned Students (selected), Thesis Proposals, and Project Proposals. The main content area displays 'Project Proposals (1)' with a search bar and a filter dropdown set to 'All Batches'. Below is a table with the following data:

Student ID	Student Name	Batch	CGPA	Area	Title	Status	Assigned Supe
211-51-038	Ashfia Sohely	3	3.8	demo	demo	Approved	Ashfia Khatun

After assigning supervisor to a proposal, a sweet alert will be shown to ensure

The screenshot shows the Daffodil International University dashboard with a 'Successful' alert overlay. The alert message reads: 'Supervisor assigned and both notified successfully!' with an 'OK' button. The background shows the 'All Submissions (2)' section with a table of submissions:

View	Type	Batch	CGPA	Area	Titl
	Project	3	3.8	test area 1	tes
	Project	3	3.8	demo	der
	Project	2	3.71	test area 4	tes

By clicking on ‘View’ button of any proposal, the detailed proposal will appear on another page

The screenshot shows the Daffodil International University dashboard with a 'Submitted Project Proposal' detail page. The proposal is 'Approved' and was submitted on 6 December 2024. The details are as follows:

- Area: test area 1
- Title: test title 1
- Brief Discussion: test description 1
- Skills: test skills 1
- Assigned To: Ashfia Khatun
- Supervisors Feedback: Provide Feedback (button: Give Feedback)
- Change Status: Approved (dropdown)
- Assign Supervisor: Ashfia Khatun (dropdown)

On the right, the 'Student Information' section displays:

- Student ID: 211-51-038
- Student Name: Ashfia Sohely
- Student Email: ashfia.khatun01@gmail.com
- Batch: 3
- Credit Finished: 118
- CGPA: 3.8

At the bottom right, there is a watermark: 'Activate Windows Go to Settings to activate Windows.'

Supervisor Dashboard:

Daffodil International University

Assigned Students >

Total Proposal
2

Thesis Proposal
1

Project Proposal
1

Proposals

View	Submission Date	Type	Student Id	Area	Title
👁	10 November 2024	Project	211-51-041	test area 4	test title 4
👁	9 November 2024	Thesis	211-51-038	test area 1	test title 1

Pie chart

Thesis Project

Activate Windows
Go to Settings to activate Windows.

Nafees Imran

‘Give Feedback’ button triggers to open a modal to submit a feedback

Daffodil International University

Departments
Admins
Supervisors
Students
Proposals >
Assigned Students >

Submitted Project Proposal
Approved

Submission Date:
Area:
Title:
Brief Discussion:
Skills:
Assigned To:
Supervisors Feedback:
Provide Feedback:
Change Status:
Assign Supervisor:

test title 1
test description 1
test skills 1
Ashfia Khatun

Give Feedback

Submit Feedback

Student Information

Student ID: 211-51-038
Student Name: Ashfia Sohely
Student Email: ashfia.khatun01@gmail.com
Batch: 3
Credit Finished: 118
CGPA: 3.8

Ashfia Khatun

Student Dashboard:

Daffodil International University

Proposals >

Submit Your Proposal

Check Your Proposals

Ashfia Sohely

'Proposals' > 'Submit Proposal' from sidebar redirects to the page where submitted proposal will be shown

The screenshot shows the 'Your Submitted Thesis Proposal' page. At the top left is the Daffodil International University logo. At the top right is the user name 'Ashfia Sohely' with a profile icon. A sidebar on the left contains 'Proposals' (expanded), 'Submit Proposal', and 'My Submissions'. The main content area is titled 'Your Submitted Thesis Proposal' and features a green 'Approved' badge. Below the badge, a table lists proposal details: Area (test area 1), Title (test title 1), Background Study (test background 1), Research Questions (test questions 1), Research Objectives (test objectives 1), Skills (test skills 1), and Assigned To (Nafees Imran). A 'Supervisors Feedback' section shows two entries: '12 November 2024: test feedback 101' and '16 November 2024: test feedback 102'. An 'Activate Windows' watermark is visible in the bottom right corner.

'Proposals' > 'Submit Proposal' from sidebar redirects to the submission page if there are no submissions

The screenshot shows the 'Submit Your Proposal' page. At the top left is the Daffodil International University logo. At the top right is the user name 'Ashfia Sohely' with a profile icon. A sidebar on the left contains 'Proposals' (expanded), 'Submit Proposal', and 'My Submissions'. The main content area is titled 'Submit Your Proposal' and contains a form with the following fields: 'Select Type:' (a dropdown menu with 'Project' selected), 'Area' (a text input field), 'Title' (a text input field), 'A brief discussion of the topic' (a text area), and 'Skill(s) needed by the students (if any) such as proficiency in Python or in a particular framework such as Laravel' (a text area). A blue 'Submit' button is located at the bottom left of the form. An 'Activate Windows' watermark is visible in the bottom right corner.

‘Proposals’>’My Submissions’ from sidebar redirects to the list of all submitted proposals

All Submissions (2)

Submission Date	Student ID	Student Name	Batch	CGPA	Area	Title	Status
December 2024	211-51-038	Ashfia Sohely	3	3.8	test area 1	test title 1	Pending
November 2024	211-51-038	Ashfia Sohely	3	3.8	demo	demo	Rejected

Profile:

Profile Information
Update your account's profile information and email address.

Name: Ashfia Khatun

Email: khatun51-038@diu.edu.bd

Update Password
Ensure your account is using a long, random password to stay secure.

Current Password:

New Password:

Confirm Password:

Developer:

‘Ashfia Khatun’ from footer will redirect to developer’s information

ASHFIA KHATUN

DEVELOPER

Department of Information Technology and Management
Daffodil International University
+88 01521 565097
khatun51-038@diu.edu.bd

The primary objective of this application is to create a comprehensive platform that facilitates the submission, review, and management of student project and thesis proposals.

Appendix C: Database Design

Departments:

	id	name	created_at	updated_at
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Information Technology and Management	2024-11-08 17:29:54	2024-11-08 17:29:54
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Nutrition and Food Engineering	2024-11-08 18:12:48	2024-11-08 18:12:48
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Pharmacy	2024-11-13 19:36:21	2024-11-13 19:36:21

Users:

id	name	email	email_verified_at	password	remember_token	created_at	updated_at	official_id	teacher_initial	assigned_teacher	designation	role	status	isAdmin	isSuperAdmin	dept_id	credits_finished	cgpa	batch
3	nohe	ashifa.khatun01@gmail.com	NULL	\$2y\$10\$vsGe2kqgXO...nF5fJmGuqF7yBmMmTLVn0Fu...	NULL	2024-11-08 18:42:28	2024-11-08 10:19:15	211-51-038	NULL	101	NULL	student	approved	0	0	1	118	3.8	3
5	NFE Supervisor	nfe@sup1.com	NULL	\$2y\$10\$Ry3iG7eHLWE1G1BHK...NRYtY1eB3C0KWdWT...	NULL	2024-11-08 19:15:44	2024-11-09 19:05:07	103	NS1	NULL	Lecturer	supervisor	approved	1	0	2	NULL	NULL	NULL
8	Shahadat Limon	hasan51-647@du.edu.bd	NULL	\$2y\$10\$Cathw2C0cArspuR...pIowZ59fUJZIT7161hm5KH...	NULL	2024-11-09 18:56:29	2024-11-13 20:46:14	211-51-041	NULL	105	NULL	student	approved	0	0	1	111	3.71	2
9	supervisor	nfe@sup2.com	NULL	\$2y\$10\$E3RTSMQ5...UJckmUBIT0x...kou95agmNDUK0D7668...	NULL	2024-11-09 19:00:33	2024-11-09 19:11:17	104	NS	NULL	Lecturer	supervisor	approved	0	0	2	NULL	NULL	NULL
10	NFE Student 1	nfe@student1.com	NULL	\$2y\$10\$JNWG...GNZEELVNAcXGbuOrdgZEaNaMMececpKx...	NULL	2024-11-09 19:01:52	2024-11-11 08:55:26					student	approved	0	0	2	123	3.5	13
11	NFE Student 2	nfe@student2.com	NULL	\$2y\$10\$AQWVVS...kak2haqaS378UgZuka2EDpXmre6MvscWW1Kp...	NULL	2024-11-09 19:03:05	2024-11-11 08:58:01					student	approved	0	0	2	116	3.5	13
12	NFE Student 3	nfe@student3.com	NULL	\$2y\$10\$HCBY...cKzazFANDJF8hulg5GP4614ZORpe8jebXX...	NULL	2024-11-09 19:04:01	2024-11-10 08:55:05	111103	NULL	104	NULL	student	approved	0	0	2	116	3.5	13
13	NFE Student 4	nfe@student4.com	NULL	\$2y\$10\$BHEH...19W6MhuCpQ0U577nieagLJTTGGLV5FIPa7q1r...	NULL	2024-11-09 19:04:55	2024-11-10 08:54:58	111104	NULL	103	NULL	student	approved	0	0	2	116	3.5	13
14	Nafess Inran	info.hameemmdbayem@gmail.com	NULL	\$2y\$10\$H3bH...9KUWYXY0YbWuVqEY3bu39gZ3adD1UkAA...	NULL	2024-11-09 19:08:28	2024-11-12 20:17:35	105	NI	NULL	Lecturer	supervisor	approved	0	0	1	NULL	NULL	NULL
18	Tayfiq Hasan	sakibcom02@gmail.com	NULL	\$2y\$10\$1HkUL...TnG7H0EyyYTWa3Fp5GfRkXtkvMvM9KE...	NULL	2024-11-06 20:31:06	2024-11-13 20:48:24	106	TH	NULL	Associate Professor	supervisor	approved	0	0	2	NULL	NULL	NULL
19	demo 2	demo2@demo.com	NULL	\$2y\$10\$tLJ...WuUVQ94t...QHANE9G0P5K4hncP4qOIMpIVBZ2Hm...	NULL	2024-11-23 15:54:28	2024-11-23 15:54:28	202	d2	NULL	Lecturer	supervisor	approved	1	0	4	NULL	NULL	NULL

Proposals:

id	status	type	area	title	description	background	question	objective	skills	user_id	student_id	ass_teacher_id	dept_id	created_at	updated_at
5	approved	project	test area 4	test title 4	test description 4	NULL	NULL	NULL	test skills 4	8	211-51-041	105	1	2024-11-10 08:40:16	2024-11-13 20:46:13
6	approved	project	test area 5	test title 5	test description 5	NULL	NULL	NULL	test skills 5	10	111101	104	2	2024-11-10 08:42:07	2024-11-10 08:55:26
8	approved	thesis	test area 7	test title 7	NULL	test background 7	test questions 7	test objectives 7	test skills 7	12	111103	104	2	2024-11-10 08:48:47	2024-11-10 08:55:05
9	approved	thesis	test area 8	test title 8	NULL	test background 8	test questions 8	test objectives 8	test skills 8	13	111104	103	2	2024-11-10 08:49:53	2024-11-10 08:54:58
10	approved	project	test area 61	test title 61	test description 61	NULL	NULL	NULL	test skills 61	11	111102	103	2	2024-11-10 08:57:28	2024-11-10 08:58:01
11	rejected	project	demo	demo	demo	NULL	NULL	NULL	demo	3	211-51-038	NULL	1	2024-11-23 16:15:09	2024-12-06 10:14:00
12	approved	project	test area 1	test title 1	test description 1	NULL	NULL	NULL	test skills 1	3	211-51-038	101	1	2024-12-06 10:16:54	2024-12-06 10:19:15

Feedbacks:

	id	feedback	prop_id	created_at	updated_at
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	test feedback 401	5	2024-11-10 08:52:52	2024-11-10 08:52:52
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	test feedback 402	5	2024-11-12 20:42:29	2024-11-12 20:42:29

CHAPTER 7: REFERENCES

1. The idea for this project originated from the Software Engineering Department of Daffodil International University, aiming to streamline the project/thesis proposal management process. https://swe.application.daffodilvarsity.edu.bd/final_project/public/
2. Laravel Framework was used for backend development to build robust and scalable RESTful APIs. <https://laravel.com>
3. Bootstrap was utilized for responsive and user-friendly UI design. <https://getbootstrap.com>
4. MySQL served as the database for efficient data storage and management. <https://www.mysql.com>
5. XAMPP was used as the local development server for running and testing the application. <https://www.apachefriends.org>
6. GitHub was used for version control and collaborative development. <https://github.com>
7. Stack Overflow was referenced to resolve technical issues and adopt best coding practices. <https://stackoverflow.com>
8. Visual Studio Code was the primary IDE for project development. <https://code.visualstudio.com>
9. PHPMailer was used for email notifications, ensuring effective communication between users and the system. <https://github.com/PHPMailer/PHPMailer>

report_on_project_or_thesis_proposal_portal

ORIGINALITY REPORT

9%	8%	3%	7%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

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2	Submitted to Daffodil International University Student Paper	2%
3	Submitted to University of Mindanao Student Paper	<1%
4	Sivaraj Selvaraj. "Mastering REST APIs", Springer Science and Business Media LLC, 2024 Publication	<1%
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