Spandana Kollipara (1002126792)
Jhansi Lakshmi Kommalapati (1002070510)
Varshith Konduru (1002132051)
Lakshmi Naga Vishnu Babu Korrapati(1002069537)
Devashish Sanjay Kumar (1002157097)

Member 1: K.L.N. Vishnu Babu (1002069537)

Module Overview

As a Member, my role centers on developing the User Registration and Authentication module for the volunteer program portal. This entails crafting a user-friendly registration form, implementing robust form validation, and incorporating email verification to ensure the authenticity of new graduates. User Authentication focuses on a secure login mechanism with encryption and salting techniques, complemented by password recovery options for a seamless user experience.

User Registration:
I am creating a user-friendly registration form that collects essential information from new graduates. Rigorous form validation ensures accurate data input. A key security feature is the incorporation of email verification. A verification link sent to university email addresses adds an extra layer of authenticity, securing the entry of genuine participants into the program.

User Authentication:
The User Authentication process centers on implementing a secure login mechanism. Utilizing encryption and salting techniques ensures the safe storage and verification of passwords. To enhance user experience, I am working on password recovery mechanisms, including email-based reset links, to assist users who may forget their login credentials.

Implementation Approach

- Utilizing Laravel as the web development framework to streamline the process and harness its authentication system.
- Designing a clear and intuitive user interface for the registration form, emphasizing efficient form validation.
- Integrating a secure email verification system into the registration process.
- Implementing encryption and salting techniques for password security.

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Member 2: Spandana Kollipara(1002126792)

Module Overview - Dashboard for Graduates

In this Project As Member , my primary focus is on developing the Dashboard for Graduates within the volunteer program portal. This module is designed to empower graduates by providing a centralized and user-friendly platform for tracking progress, managing tasks, and enhancing overall engagement with the program.

Dashboard for Graduates

The dashboard will serve as a comprehensive interface, offering graduates a real-time view of their progress. It will display assigned tasks, deadlines, and priorities, providing a visually appealing and intuitive layout. A calendar integration will enable graduates to efficiently manage their schedules, ensuring a seamless experience throughout their engagement with the program.

Task Tracking and Submission

The dashboard will feature a task tracking system, allowing graduates to monitor their assignments' statuses and mark tasks as complete. Additionally, an interface for submitting weekly reports directly from the dashboard will be implemented. This includes an attachment feature for graduates to include relevant documents along with their reports.

User-Focused Design

Prioritizing a user-centric design approach, the dashboard will be crafted to enhance usability and accessibility. Visual indicators for task status and completion progress will be incorporated, ensuring a clear and intuitive experience for graduates.

Implementation Approach

- Design and implement an intuitive dashboard layout for graduates.
- Integrate a task tracking system displaying assigned tasks, deadlines, and priorities.
- Ensure a responsive design for compatibility across various devices.
- Incorporate visual indicators for task status and completion progress.

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Member 3: Jhansi Lakshmi Kommalapati (1002070510)

Objective

As Member, I'm tasked with developing the Professor's Dashboard, which is a crucial component for efficient task assignment, monitoring, and feedback provision. The primary goal is to streamline the interaction between professors and graduates, facilitating effective supervision of volunteer activities.

Components

1. Task Assignment:

- Professors need a user-friendly interface to assign tasks to graduates.
- Task details such as description, deadlines, and priorities should be clearly visible.

2. Report Review:

- Professors must be able to review weekly reports submitted by graduates.
- A systematic presentation of reports with necessary details should be provided.

3. Feedback Mechanism:

- Professors should have a platform to provide constructive feedback on reports.
- A straightforward interface for commenting and rating graduate performance is essential.

Implementation Strategy:

- Develop an intuitive task assignment interface for professors.
- Create a dedicated section for professors to review submitted reports.
- Integrate a feedback mechanism with a commenting system and rating system.
- Implement user authentication integration for secure access to the dashboard.
- Establish a notification system for real-time alerts on new tasks and submitted reports.

By following this strategy, the aim to deliver a robust and user-friendly Professor's Dashboard that enhances the overall effectiveness of the volunteer program management. Regular communication with other team members will ensure seamless integration of this component with the broader system.

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Member 4 : Varshith Konduru (1002132051)

Objective

As Member 4, my primary objective is to develop the Task Management section, playing a pivotal role in providing graduates with a streamlined and efficient platform for viewing, understanding, and completing assigned tasks. The aim is to enhance user experience and contribute to the overall success of the volunteer program.

Components:

1. View Assigned Tasks:

- Develop an intuitive and visually appealing dashboard for graduates to view their assigned tasks.
- Prioritize clear presentation of task details, including descriptions, deadlines, and priorities.

2. Task Details and Deadlines:

- Ensure each task is accompanied by a comprehensive description, specific instructions, and clearly communicated deadlines.
- Implement a dynamic system that facilitates the seamless presentation of task-related information.

3. Marking Tasks as Complete:

- Create a user-friendly mechanism allowing graduates to mark tasks as complete.
- Implement features to prevent accidental task completion and ensure a smooth user interaction.

Implementation Strategy:

- Utilize React for frontend development, creating an interactive and responsive dashboard that aligns with the user's expectations.
- Design a secure and efficient database schema using Laravel, allowing for the storage and retrieval of task-related information.
- Implement AJAX or similar technologies for seamless task completion, minimizing page reloads and enhancing user experience.

- Collaborate closely with **Member 2** (Dashboard for Graduates) to ensure smooth integration of the Task Management section into the overall dashboard.
- Implement rigorous testing procedures to identify and rectify any functional or usability issues, ensuring a reliable user experience.

Member 5: Devashish Sanjay Kumar (1002157097)

Objective

As Member 5, my goal is to develop the Weekly Reports section and implement a robust AI Anti-Cheating Mechanism for the volunteer program portal. The focus is on creating a secure and efficient system for graduates to submit reports while incorporating third-party APIs to detect and prevent any attempts at using AI agents for cheating.

Components:

1. Weekly Reports:

- Establish an interface for graduates to submit detailed weekly reports, including a summary of their work.
- Implement a text input mechanism for justifying the 21 hours of weekly work and enable the attachment of relevant documents.

2. AI Anti-Cheating Mechanism:

- Integrate third-party APIs for AI-based anti-cheating measures, detecting suspicious activities in submitted reports.
- Develop mechanisms to block and report any attempts of using AI agents like ChatGPT for writing reports.

Implementation Strategy

- Create a user-friendly interface using React for graduates to submit weekly reports, ensuring seamless navigation and input.
- Develop backend functionalities in Laravel to securely handle and store the submitted reports, maintaining data integrity.
- Implement a text input mechanism for justifying 21 hours of work, incorporating input validation for accuracy.
- Utilize third-party APIs, such as plagiarism detection services or natural language processing tools, to integrate an AI Anti-Cheating Mechanism.
- Establish secure connections and data transfer protocols to maintain confidentiality and prevent unauthorized access.

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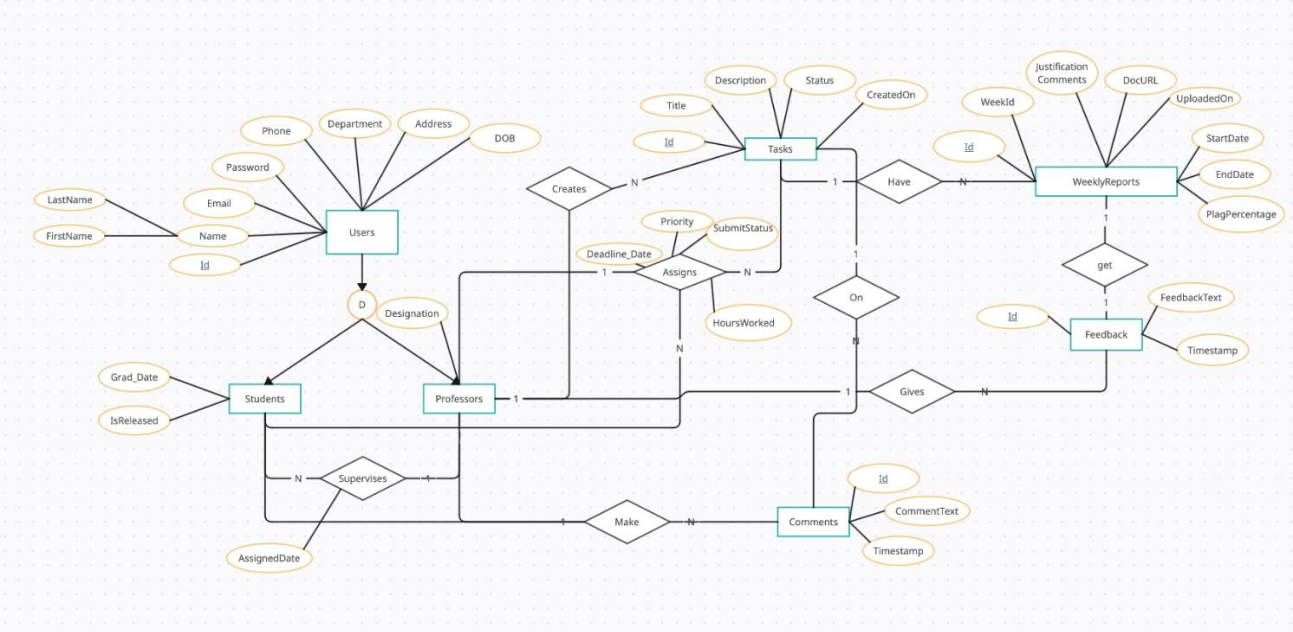
- Implement mechanisms to detect and block suspicious activities related to AI-based cheating, providing real-time alerts to administrators.

Entity-Relation Diagram(ERD)



Identified Relationships with Cardinality

One to One:

- For every Weekly Report, there will be only One Feedback will be given

One to Many:

- For every Professor (Supervisor), there can be Many Students (Volunteers)
- For every Task, Many Comments can be made.
- For every Task, there can be Many Weekly Report Can be submitted.
- One Professor can create Many Tasks
- One Professor can give Many Feedback
- One Professor can Assign task to Many Students

Many to Many:

- Many Tasks can be assigned to Many Students

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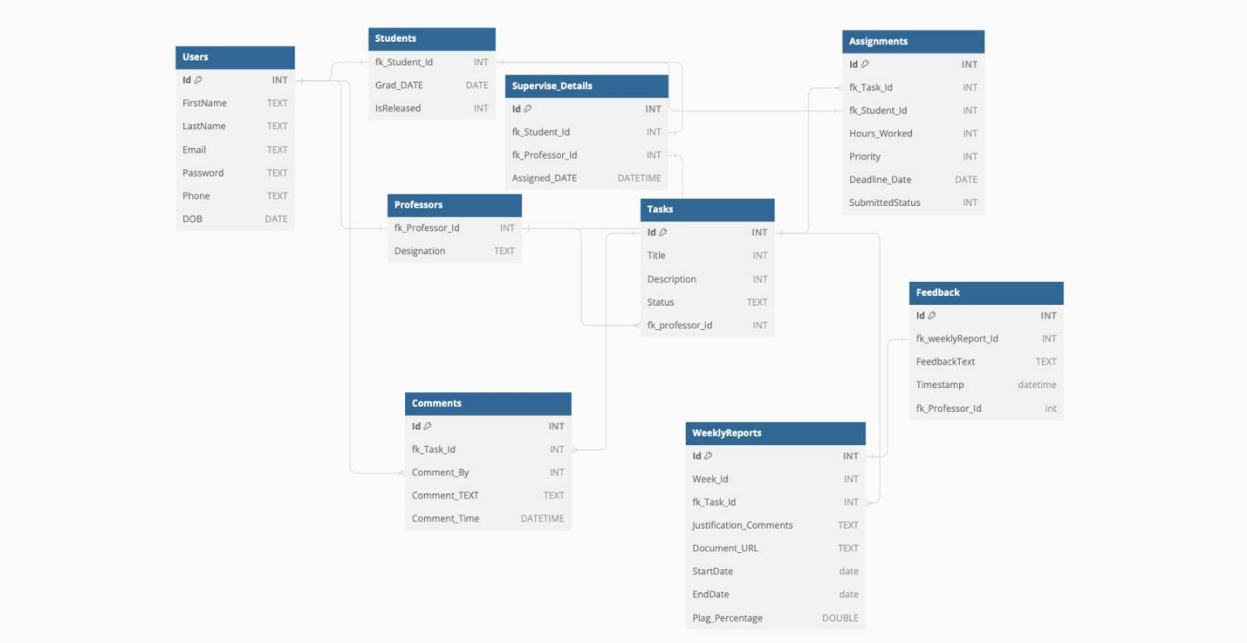
Schema

Below is the Schema of Proposed Database



Tables

- Users {Id [Primary Key], FirstName, LastName, Email, Password, Phone, DOB}
- Students { fk_Student_Id[Primary Key], Grad_DATE, IsReleased}
- Professors { fk_Professor_Id[Primary Key], Designation}
- Supervise_Details {Id [Primary Key], fk_Student_Id, fk_Professor_Id, Assigned_DATE}
- Tasks {Id [Primary Key], Title, Description, Status, fk_professor_id}
- Assignments {Id [Primary Key], fk_Task_Id, fk_Student_Id, Hours_Worked, Priority, Deadline_Date, SubmittedStatus}
- Comments {Id [Primary Key], fk_Task_Id, Comment_By, Comment_TEXT, Comment_Time}
- WeeklyReports {Id [Primary Key], Week_Id, fk_Task_Id, Justification_Comments, Document_URL, StartDate, EndDate, Plag_Percentage}

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- Feedback {Id [Primary Key], fk_weeklyReport_Id, FeedbackText, Timestamp, fk_Professor_Id}

References

- Tasks.Id References Assignments.fk_Task_Id
- Students.fk_Student_Id References Assignments.fk_Student_Id
- Professors.fk_Professor_Id References Tasks.fk_professor_id
- Feedback.fk_weeklyReport_Id References WeeklyReports.Id
- Students.fk_Student_Id References Supervise_Details.fk_Student_Id
- Professors.fk_Professor_Id References Supervise_Details.fk_Professor_Id
- Tasks.Id References WeeklyReports.fk_Task_Id
- Users.Id References Comments.Comment_By
- Tasks.Id References Comments.fk_Task_Id
- Users.Id References Students.fk_Student_Id
- Users.Id References Professors.fk_Professor_Id