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Seat No:

Project ID: 35

Project title: DC ENQUIRY FOLLOW
UP AND NORMALDCRELATED QUERIES

Technical Components

Component	Tech Stack
Backend	Express js, node js.
Frontend	Angular.
Database	MangoDB.
API	RESTful services.

PROBLEM STATEMENT:

The discipline committee of an educational institution is responsible for maintaining discipline among students. To Develop a web-based Discipline Committee Management System that streamlines the process of reporting, reviewing, and resolving student disciplinary cases. The system should ensure that all staff members can report student issues, while only authorized discipline committee admins can review the cases and decide on appropriate actions. The system should also maintain a comprehensive record of all disciplinary actions taken against students.

PROJECT-FLOW:

1. USER ACCESS & AUTHENTICATION:

- **Staff Login Page:** A login page where all types of staff members can access the system.
- **Input Fields:** Username, Password
- **Button:** Login
- **Access Control:** Ensure that only authorized users (staff and admins) can access the system. Differentiate between regular staff and discipline committee admins based on roles.

2. STUDENT DISCIPLINE ENTRY (ACCESSIBLE BY ALL STAFF):

- **Student Details Form:**
- **Input Fields:** Student ID, Name, Issue Type, Date, Description of the Issue
- **Button:** Submit
- After submitting, the data is saved to the database and can be accessed by discipline committee admins.

3. ADMIN SECTION (ACCESSIBLE BY DISCIPLINE COMMITTEE ADMINS ONLY)

Pending Cases Dashboard:

Display a list of students with reported issues.

- **Actions:** View Details, Mark as "Enquiry Required", or "Enquiry Not Required"
- **If Enquiry Not Required:**
Action: Mark the case as resolved.
Button: Close Case
Result: Stop the process and update the student database.
- **If Enquiry Required:**
Proceed to the punishment selection step.

4. PUNISHMENT SELECTION:

Options for Punishment:

Radio Buttons or Dropdown:

1. Fine
2. Email ID Block
3. Suspension

- **Fine Selection (if Fine is selected):**

Input Field: Enter Fine Amount

Button: Apply Fine

Result: Increase discipline count, store data in the student database, and close the case.

- **Email ID Block (if selected):**

Action: Immediately block the student's email ID.

Result: Increase discipline count, store data in the student database, and close the case.

- **Suspension (if selected):**

Input Field: Enter Number of Suspension Days

Button: Apply Suspension

Result: Increase discipline count, store data in the student database, and close the case.

5. STUDENT DATABASE

Database: Store all the student discipline records, including:

- Student ID, Name
- Issue Details
- Enquiry Status
- Punishment Details
- Discipline Count

6. UI/UX CONSIDERATIONS:

- Ensure the interface is user-friendly and that the navigation between different steps is clear.
- Use appropriate error handling and validation for all forms.

7. BACKEND LOGIC:

- **User Authentication:** Implement role-based authentication (e.g., staff vs. admin).
- **Database Management:** Use a relational database like MySQL or PostgreSQL to store student details and discipline records.
- **Automated Processes:**
Email blocking and suspension should trigger automatic updates to relevant systems.
Fine processing could be linked to a payment system if necessary.

8. ADDITIONAL FEATURES (OPTIONAL):

- **Audit Log:** Track all actions taken by users for accountability.
- **Notifications:** Send notifications to students or relevant staff when certain actions are taken (e.g., suspension).
- **Reports:** Generate reports on discipline actions, categorized by type, frequency, etc.

9. TECHNOLOGIES TO USE:

- **Frontend:** HTML, CSS, JavaScript, Bootstrap (for responsiveness)
- **Backend:** Node.js with Express.js, or Python with Django/Flask
- **Database:** MySQL, PostgreSQL, or MongoDB
- **Authentication:** JWT, OAuth, or similar
- **Deployment:** Use cloud platforms like Heroku, AWS, or Digital ocean for deployment.

10. WORKFLOW EXAMPLE:

Staff logs in → Enters student issue details → Admins review cases → If enquiry required, proceed to punishment selection → Apply punishment → Update student database and close case.

FLOW CHART

