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Project ID	7
Project Title	Project Mark Consolidation Portal(PMC Portal)

TECHNICAL COMPONENTS

Component	Technology Stack
Frontend	React
Backend	Node.js
Database	MongoDB
API	OpenAPI

IMPLEMENTATION TIMELINE

Phase	Deadline	Status	Stages
Stage 1	02/05/2024	Under review ▾	Planning and requirement gathering
Stage 2		Not started ▾	Design and UI/UX Prototyping
Stage 3		Not started ▾	Database Design and Implementation
Stage 4		Not started ▾	Backend Development
Stage 5		Not started ▾	Integration and Testing
Stage 6		Not started ▾	Deployment

PROJECT DESCRIPTION:

The academic results portal system is a web-based application designed to facilitate the management and dissemination of student results within an educational institution. It will provide a centralized platform for administrators, faculty, and students to access and interact with academic data.

SCOPE OF THE PROJECT:

The scope of the project includes the development of three distinct interfaces:

1. Admin Interface:

- Add and manage student mark data in the database
- Identify and manage moderation cases for students
- Rewrite or update student mark data as needed

2. Student Interface:

- View personal academic results
- Download mark reports in PDF format

3. Faculty Interface:

- View student mark data for their respective courses

FEATURES:

1. Admin Interface:

- User authentication and authorization
- CRUD operations for student mark data
- Moderation list management
- Mark data update/rewrite functionality

2. Student Interface:

- User authentication
- View personal academic results
- Download mark reports in PDF format

3. Faculty Interface:

- User authentication
- View student mark data for assigned courses
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4. Database Integration:

- Secure storage and retrieval of student mark data
- Efficient data management and retrieval

5. PDF Generation:

- Generate mark reports in PDF format for students

6. User Management:

- Role-based access control (admin, faculty, student)
- User account management (creation, update, deletion)

7. Responsive Design:

- Optimized for various devices and screen sizes

WORKFLOW:

Admin Interface:

1. Admin logs in to the system
2. Admin adds or updates student mark data in the database
3. If a student's marks require moderation, the system adds the student to the moderation list
4. Admin reviews moderation cases and updates student mark data as necessary
5. Admin can generate reports or perform other administrative tasks

Student Interface:

1. Student logs in to the system
2. Student views their personal academic results
3. Student can download mark reports in PDF format

Faculty Interface:

1. Faculty members log in to the system
2. Faculty member views and manages student mark data for their assigned courses
3. Faculty member provides input for moderation cases, if applicable
4. Faculty member can generate reports or perform other faculty-related tasks

FLOW CHART:

