# Abstract for the Project Review Management System

Managing and reviewing projects in educational institutions is often a tedious, manual process plagued by scheduling conflicts, lack of transparency, and disorganized record-keeping. Our **Web-Based Review Management System**, built using the MERN stack, addresses these challenges by centralizing and streamlining project reviews. The system caters to four user roles: **Students, Guides, In-Charge, and Admin**, providing tailored functionalities to enhance collaboration, tracking, and evaluation.

**Key Features:**

1. **For In-Charge**:
   * Manages projects by categorizing them into **Years, Semesters, Branches, and Sections**.
   * Populates team and project details, making them visible to students under **Active Works** upon guide approval.
   * Tracks interactions between guides and students while retaining the authority to evaluate final reviews.
   * Archives completed projects systematically under a **Completed Section** for future reference.
2. **For Guides**:
   * Reviews and accepts project proposals via notifications.
   * Updates project progress in a structured **Review Table** with fields such as review number, progress, corrections, presentees, and file attachments.
   * Collaborates directly with students to ensure timely submissions and feedback implementation.
3. **For Students**:
   * Views team details, project expectations, and feedback updates via **Active Works**.
   * Submits corrections, attaches files/links, and collaborates with teammates to track project milestones.
4. **For Admin**:
   * Oversees user management and ensures platform functionality.

**Enhanced Workflow with Additional Features:**

1. **Progress Analytics**:  
   A dashboard with visual tools like **progress charts, completion percentages**, and timelines provides real-time insights into project performance.
2. **Document Versioning**:  
   Maintain a **version history** of all files uploaded during the review process, allowing users to track changes and revert to previous versions if needed.
3. **Role-Based Notifications**:  
   Real-time notifications ensure timely updates for all users:
   * Students are alerted about review deadlines and guide feedback.
   * Guides receive reminders for pending reviews.
   * In-Charges get updates on upcoming evaluations or overdue tasks.
4. **AI-Powered Assistance**:
   * **Plagiarism Checker**: Ensures originality in project reports by detecting plagiarized content.
5. **Milestone Management**:  
   Define project milestones (e.g., proposal submission, mid-review, and final submission) and track their completion to ensure progress is aligned with deadlines.