



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

An Autonomous Institution  
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Recognized under section 2(f) & 12(B) of UGC Act



## Web / App System

### 1. ERP System for College with Blackmarking Feature (Problem ID: HACK-6677)

**Description:** A comprehensive ERP system tailored for colleges that manages student data, courses, schedules, and finances, with an added blackmarking feature for disciplinary actions.

**Problem Solving:** Streamlining various administrative tasks and tracking student behavior for timely interventions, helping to maintain discipline across the campus.

**Example:** If a student is caught violating college rules (e.g., cheating or vandalism), the ERP system automatically records a black mark, which accumulates if further offenses occur.

### 2. Decentralized College Feedback and Complaint Portal with Role-Based Access (Problem ID: HACK-6677)

#### **Problem Description:**

The **Decentralized College Feedback and Complaint Portal** is a web-based system designed to allow students to provide feedback or file complaints about college facilities, courses, or other issues in an anonymous and secure manner. The system uses blockchain technology to store feedback, ensuring that it cannot be tampered with. The portal is equipped with **role-based access**, meaning that different users (students, faculty, and administrators) will have access to different features. Students can submit feedback, while faculty and administrators can manage and respond to complaints.

#### **Problem Solving:**

To solve this, the portal is built using modern web technologies and blockchain to ensure the immutability and security of the submitted data. When a student submits feedback, it is categorized, tagged with urgency, and stored securely using blockchain, ensuring that no one can modify or delete the original feedback. The **role-based access** ensures that faculty and administrators can view and respond to the feedback, while students can only submit their complaints or feedback. The system helps streamline feedback management, making it transparent and reliable for both students and the college management.

**Example:**

A student might submit a complaint about the Wi-Fi being slow in the library. The complaint is categorized as a "high-priority" issue and securely stored in the system. Faculty or administrative staff can then access this complaint and take appropriate action. Since the data is on a blockchain, it cannot be altered, ensuring the integrity of the complaint. The student can track the progress of their issue, ensuring transparency throughout the process.

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