PROJECT PROPOSAL

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Matric Number: U21CS1040

Department: Computer Science

Institution: Air Force Institute of Technology

Project Proposal: SIWES Management System

Project Title: Development of a Web-Based SIWES Management System for Efficient Industrial Training Coordination in Air Force Institute of Technology

Objective:
To design and implement a web-based system that simplifies the management of the Student Industrial Work Experience Scheme (SIWES). The platform will streamline student registration, logbook updates, and supervisor assessments, reducing manual processes and enhancing efficiency.

Scope:

1. **Build a platform with the following features:**
   - **Online student registration and profile management.**
   - **Digital logbook for students to submit weekly reports.**
   - **Supervisor and ITF staff access for evaluations and approvals.**
   - **Notifications to ensure students meet deadlines.**
2. **Use web development technologies (HTML, CSS, JavaScript) for the frontend and a reliable backend framework for data management.**
3. **Ensure data security and user authentication to protect sensitive information.**

Expected Outcome:
The system will enhance SIWES operations by reducing paperwork, improving communication between students and supervisors, and ensuring a seamless evaluation process.

Timeline:
4 months (December – March 2025).

I look forward to your approval and guidance to proceed.

Project Proposal: Online School Learning Platform

Project Title: Development of a Smart E-Learning Hub for Enhanced Educational Access in AFIT using a web based platform

Objective:
To develop an interactive online learning platform that integrates the school curriculum, enabling students to access educational content, assignments, and assessments remotely. This platform will promote continuous learning and provide an efficient way to track student progress.

Scope:

1. Build a platform with the following features:
   - Integration of the school curriculum, with lessons organized by subjects and topics.
   - Interactive features such as quizzes, video lessons, and forums for discussions.
   - Assignment submission and grading system.
   - Admin and teacher dashboards for monitoring student progress.
2. Ensure compatibility across devices and browsers for easy access.
3. Implement features for student-teacher interaction and real-time notifications.

Expected Outcome:
The platform will enhance the learning experience by providing students with easy access to course materials, enabling self-paced learning, and improving communication between teachers and students.

Timeline:
4 months (December – March 2025).

I look forward to your feedback and approval to move forward with the project.

Project Proposal: Smart Attendance System Using QR Code Scanning

Project Title: Development of an intelligent QR-Based Attendance Tracking System for Efficient Workforce Management in AFIT

Objective:
To develop a smart attendance system that utilizes QR code scanning for automatic and efficient attendance tracking in educational institutions and workplaces. The system will reduce manual errors, ensure real-time attendance recording, and provide detailed reports for administrators.

Scope:

1. **Build a system with the following features:**

   - **QR code generation for each student/employee that can be scanned to mark attendance.**
   - **Real-time attendance tracking and recording in a database.**
   - **Admin interface for viewing, editing, and exporting attendance records.**
   - **Automated alerts for missed attendance or irregularities.**

2. **Ensure compatibility with mobile devices for easy scanning and access.**

3. **Implement a secure login and authentication process for users to prevent unauthorized access.**

Expected Outcome:
The system will streamline attendance management by eliminating the need for paper records, reduce the time spent on roll calls, and provide an easy-to-use platform for both students and administrators.

Timeline:
4 months (December – March 2025).

I look forward to your feedback and approval to proceed with this project.

Project Proposal: SmartGov Connect

Project Title: Development of a: A Digital Platform for Seamless Communication Between the Nigerian Government and Citizens

Objective:
To create a mobile application that facilitates direct and efficient communication between the Nigerian government and its citizens. The app will serve as a platform for sharing important updates, policies, news, and for receiving feedback from citizens, ensuring transparency and engagement in governance.

Scope:

1. **Build a mobile app with the following features:**
   - **Push notifications for government announcements, news, and updates.**
   - **A feedback system for citizens to report issues, ask questions, and provide suggestions.**
   - **Interactive features for government surveys and polls to gauge public opinion.**
   - **Integration with local government bodies for regional communication.**
2. **Ensure a user-friendly interface with multilingual support to cater to diverse Nigerian populations.**
3. **Implement secure authentication and data protection mechanisms for privacy.**

Expected Outcome:
The app will bridge the communication gap between the government and citizens, promoting transparency, improving civic engagement, and ensuring that citizens stay informed about policies and government actions.

Timeline:
4 months (December – March 2025).

I look forward to your approval and any suggestions you may have for this project.