STATEMENT OF WORK

**Mobile Application for MU Website (Android)**

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**Project Overview**

**FOR** parents, students, and faculty members of MU  
**WHO** need an efficient way to access university information, track students' location, and receive faculty announcements  
**The MU Mobile Application** is a **university mobile app**  
**THAT** provides access to university information, real-time student tracking for parents, and a broadcast system for faculty announcements  
**UNLIKE** the university's current website, which lacks mobile accessibility and interactive features  
**OUR PRODUCT** ensures real-time communication, location monitoring, and an enhanced user experience through a dedicated mobile application

**Key Features:**

1. **University Information Access** – Quick access to general information, news, and updates about the university
2. **Student Geo-Tracking** – Enables parents to monitor the real-time location of their children
3. **Faculty Announcements** – Allows faculty members to broadcast messages and updates to students
4. **User-Friendly Interface** – Ensures an easy-to-use design for seamless navigation

**Scope of Work**

1. **Requirement Analysis**
   * Gather requirements from stakeholders, including students, faculty, and parents.
2. **UI/UX Design**
   * Design user-friendly interfaces with intuitive navigation and accessibility.
3. **Feature Development**
   * Implement core features, including university information, student geo-tracking, and faculty announcements.
4. **Backend Development**
   * Set up servers, databases, and APIs for secure data storage and communication.
5. **Security & Privacy Implementation**
   * Ensure compliance with data privacy laws and implement encryption and authentication.
6. **Testing & Quality Assurance**
   * Conduct rigorous testing for functionality, security, and performance across devices.
7. **Deployment & App Store Submission**
   * Publish the app on Google Play and the Apple App Store following their guidelines.

**Project Description**

* The **MU Mobile Application** aims to bridge the gap between students, faculty, and parents by providing a seamless digital platform for university-related communication, monitoring, and academic management. The app will serve as a one-stop solution for accessing general university information, enabling parents to track their children's real-time location, ensuring student safety and accountability. The app also allows faculty to broadcast important announcements while integrating essential academic features.
* Additionally, the app will feature **QR code-based attendance marking** to streamline student check-ins for lectures and exams. Faculty members will have the ability to **upload and manage exam marks**, which will be displayed numerically for students. The app will also provide **personalized timetables** based on students' respective courses and sections across various disciplines such as **Engineering, Law, Business & Management, and Media & Communication**. With different user views for students, faculty, and parents, the application will cater to specific needs, ensuring a customized experience. A secure backend infrastructure will guarantee **data privacy and compliance** with regulatory standards.

**Objectives**

* Seamless University Information Access
* QR Code-Based Attendance System
* Personalized Timetable Display
* Real-Time Student Geo-Tracking
* Multi-View User Interface

**Competitor Analysis**

1. **Standalone Attendance Systems** – Do not integrate with other academic features.
2. **LMS Platforms (Moodle, Blackboard)** – Lack geo-tracking and timetable personalization.
3. **Parental Monitoring Apps (Life360, Find My Kids)** – Track location but lack academic tools.
4. **Timetable & Exam Portals** – Do not offer personalized section-based schedules.

**Assumptions and Constraints**

**Assumptions:**

* Students, faculty, and parents will actively engage with the application.
* Faculty members will regularly update attendance, timetables, and exam marks.
* University administration will support and facilitate app implementation.

**Constraints:**

* Strict data privacy and security measures must be implemented for student information.
* The app must comply with university policies and academic regulations.
* Limited development time and budget may impact feature scope.
* Dependence on faculty and administration for timely data updates.
* Scalability challenges as the number of users increases.