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**B.Tech Communications and Computer Networks**

**TUSOME E-learning Management System**

One pager proposal

**Project description and background**

The E-learning systems integration into the Kenyan education system in recent years has been rampant, especially due to COVID-19. Ever since, it has become a norm for learning institutions to incorporate online classes leading to what we call blended learning.

TUSOME E-learning system is an android application that is utilized to orchestrate, implement, and access categorical learning programs. It allows for students and instructors to create and share academic content, monitor and grade students' performance. Students get a platform to access school work, join classes through video conference, submit work and track their performance.

The application is important as it provides many benefits to school administration, such as continuously monitoring teaching and learning and detailed analytics and reports that help track students' academic progress. Management can also keep track of the lessons that the teachers complete without constantly asking for updates. TUSOME E-Learning app provides digital content through secure sign-ins so that only school staff can access the information.

**Problem statement**

Students coming from different parts of the country to study have to relocate and find accommodation which can be stressful. The implementation of the learning management system will bring about access of learning resources remotely while ensuring the school facilities are equally distributed.

**Objectives**

* To deliver course content via phone that caters for remote educational experiences for both students and instructors; accessible from anywhere, anytime.
* To allow students and lecturers to upload and manage documents containing curriculum content.
* To establish methods for assessments and testing for students.

**Target customers**

* Students will be able to connect with other students for student discussion and get in touch with instructors through online classes.
* Instructors will have it easier to tracking attendance and progress.
* School administrators will be able to monitor both instructor and student engagement

**Project scope**

Project deliverables

* The project will be divided into two sections. the instructors' and the students' sides
* Students will be able to register then log in, access their course content and links to online classes and submit their assignments on the client side.
* Instructors can log in using their registered credentials, upload and download documents, keeping track of student records and assigning grades.

The functionality consists of the following modules:

Project constraints

* Time constraints depending on the number of project phases
* It will only be accessible on smartphones
* Lack of extensive programming knowledge.

The limitations will be managed by:

* Trying to stick to the development plan to avoid time wastage.
* Seeking assistance from a better experienced developer.

**Application features and description**

* Both students and instructors will be required to log in with their official credentials
* Students will get notifications and messages on new assignments
* A homepage on students’ accounts which contains the dashboard, courses, and grades
* A homepage for the instructor to keep track of submitted assignments, upload and download documents
* The students will be able to upload and download documents on the system

**High-level requirements**

**Deliverables**