

## **Project Proposal**

**Project Title:** Smart Class Timetable Notifier

**Course:** Bachelor of Science in Information Technology

**Institution:** The Co-operative University of Kenya

**Prepared by:** Teddy Oluoch

**Date:** July 2025

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### **1.0 Introduction**

Timetable management in universities can be challenging for students, often leading to missed classes due to miscommunication or lack of timely information. The Smart Class Timetable Notifier system aims to bridge this communication gap by providing a digital platform where students receive timely reminders about their classes and are immediately alerted about changes such as cancellations or room changes.

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### **2.0 Problem Statement**

Students often miss or arrive late to classes due to the lack of real-time notifications or changes in the timetable. Manual timetable handling through physical notice boards or static PDFs is ineffective in urgent or last-minute changes. There is a need for an automated, accessible, and reliable system to improve student attendance and time management.

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### **3.0 Objectives**

#### **3.1 General Objective:**

To develop a Smart Class Timetable Notifier system that automates student class reminders and timetable change notifications.

#### **3.2 Specific Objectives:**

- To create a user-friendly system for uploading and managing class timetables.
  - To notify students daily about their classes through email or SMS notifications.
  - To allow lecturers and admins to instantly update or cancel scheduled classes.
  - To reduce class absenteeism caused by miscommunication.
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### **4.0 Justification**

This project will enhance student engagement and academic performance by ensuring they are aware of their schedule at all times. It saves time, minimizes confusion, and helps lecturers communicate changes promptly. It is especially relevant in today's digital and connected world.

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## 5.0 Scope

The system will include features such as: - Student and lecturer registration/login - Timetable management by admins or lecturers - Notification system for reminders and cancellations - Dashboard for students to view their weekly schedule - Admin panel for monitoring and managing users and schedules

The system will be implemented as a **web-based solution** using PHP and MySQL.

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## 6.0 Methodology

The project will follow the **Software Development Life Cycle (SDLC)** model, specifically the **Waterfall model**, involving: 1. Requirement gathering 2. System design 3. Implementation 4. Testing 5. Deployment 6. Maintenance

Tools and Technologies: - Web: HTML, CSS, PHP, MySQL, Apache - Notifications: Cron jobs, SMTP for emails, or Twilio API for SMS

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## 7.0 Expected Outcome

- A working prototype of the Smart Class Timetable Notifier system
  - Improved class attendance and communication within the academic environment
  - Real-time alerts and smooth class schedule management
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## 8.0 Project Timeline

Phase	Duration
Requirements Gathering	1 week
System Design	1 week
Development	3 weeks
Testing	1 week
Final Presentation	1 week
<b>Total</b>	<b>7 weeks</b>

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## 9.0 Budget (Optional)

Item	Estimated Cost (KES)
Hosting & Domain	3,000

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Item	Estimated Cost (KES)
SMS/Notification API	2,000
Internet & Data	2,000
Miscellaneous	1,000
<b>Total</b>	<b>8,000</b>

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## 10.0 Conclusion

The Smart Class Timetable Notifier system is a valuable and innovative solution that addresses real problems faced by students in managing class schedules. This project will not only fulfill academic requirements but also create a solution that can be deployed in real academic institutions.

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