

TECHNICAL UNIVERSITY OF KENYA

FACULTY OF APPLIED SCIENCES AND TECHNOLOGY

SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY

**SCIT Student Project Management System**

BY

OCHANDA LILIAN ONSOMBI

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A project proposal for a SCIT student project management system.

**SUPERVISORS:**

**DR. SALESIO KIURA**

**MR. OWIRA**

**CHAPTER ONE**

**1.1 INTRODUCTION**

All students are required to do projects as part of their course be it diploma, degree or masters program. This is considered very important to every student hence they have to do it right. It becomes a difficult task for students to come up with what project they want to do. Due to these issue having a platform where one can be able to view previous projects done it will help a great deal. They can either improve on what has been done or get an idea of what is required.

A system that will assist students to review previous projects and uploaded materials will greatly assist them in getting started on their projects. The projects will be stored in a central repository and they will be categorized in their thematic areas. The lecturers can track the progress of the student projects. The project will involve managing school projects in the School of Computing and Information Technology at Technical University of Kenya.

**1.2 BACKGROUND**

The university requires that students carry out projects during their final year of study. They are required to apply the knowledge acquired through their years of study. Most students are not aware of what they want to do hence they just pick any project and begin working on them. Students have a hard time in choosing a suitable project for them to do and the lecturers rarely assist them in coming up with good projects.

Students need to find an avenue where they will be able to choose a project from some samples provided by the lecturers or improving on a project that has already been done by their fellow students. This will motivate them to do the projects and will help them have a different view on projects. In case they also have a good idea they can share with their lecturers and get advice concerning it.

**1.3 PROBLEM STATEMENT**

In the University there is a tendency where lecturers tell students to look for their own projects to do hence students don’t take this projects seriously. They end up doing projects just for the sake of graduation. Other students end up not getting a project to work on hence they have to delay because without that they can’t proceed.

Other students also end up repeating a project that has been done in the previous years hence it makes them lazy because they will only have to copy what has been done and no extra effort will be required. Students also don’t have a chance to add various materials that can help out in one’s research on a particular project.

**1.4 OBJECTIVES**

**General objective**

To provide a well-organized platform to manage previously done projects where they are categorized in their various thematic areas and the year they were done.

**Specific objectives**

* To develop a system that students register their projects.
* To develop a platform where lecturers can monitor their students’ progress and give remarks concerning the projects they have done.
* To develop a dashboard that analyzes reports on the percentage of projects in each thematic area, those in completed states and the ones defended in panel A and panel B.
  1. **JUSTIFICATION**

This system will help students go through the projects that have been done by their various colleagues. They can also upload some resources that will help in the research. The students will be aware of the projects that have already been done and instead of repeating the same project they can make various improvements. The student who has written the project can also leave their remarks and only the lecturer supervising the student and the coordinating lecturer is allowed to give a remarks. Various people are allowed to access the content but others will be limited especially if one is a guest.

**1.6 SCOPE**

In order to achieve this project I will develop a web application that can be accessed while on the internet.

**In scope**

* Creating a user interface for the web application.
* Creating a student registration and log in capability.
* Creating a database to store the student’s names and registration numbers.
* Creating a lecturers’ log in with the capability of uploading the students’ projects.

**Out of scope**

* The system will not provide projects from other schools in the university.

**Project risks and mitigations**

Time- the time to implement the system might be too short hence a schedule should be prepared where all activities will be outlined and their end dates.

**Limitations**

* This project only targets students mostly in the university who understand how to do projects.
* The system will only be available to those who have access to the internet.

**1.7 RESOURCE REQUIREMENT**

For the SCIT student projects management system will require the following software and hardware in order to complete the project.

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| ITEMS | DESCRIPTION | QUANTITY | PRICE |
| Laptop | To code the application | 1 | 50000 |
| Internet access | To connect to a network |  | 5000 |
| Cloud back-up access | To back up |  |  |
| Visual studio code | Editor |  | free |
| Flash disk | To store some data | 1 | 1200 |
| Deployment and testing | In the web |  | 2000 |