MOI UNIVERSITY

2014/15 ACADEMIC YEAR

COM 311 PROJECT PROPOSAL

***High School Management System***

A PROJECT SUBMITTED TO

THE DEPARTMENT OF

PHYSICS, MATHEMATHICS, STATISTICS AND COMPUTER SCIENCE

IN PARTIAL FULFILLMENT FOR

THE DEGREE OF

BACHELORS OF SCIENCE

IN COMPUTER SCIENCE

BY

*Group: Software Geeks*

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# Personal background

We are a group of third year computer science students in Moi University. We are five in number and working as a group in developing a management system. We are programmers and got interested in developing a high school management system after realizing the problems that most of the teachers and non- teaching staff are going through in their daily activities. Being students once and also after visiting some schools and assisting in compiling of results and conducting some other supportive duties in high school we saw the hardship experienced by using the old manual way of doing things.

We are therefore interested in this topic from the experience we have passed through and also as a request from the teachers who have contacted us and told us of the hardships they go through.

# Introduction

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The proposal is all about developing a high school management system which will be able to hold all the activities currently done manually. The system is going to easen the way the way things have been done manually hence consuming a lot of time and energy.

# Organizational overview

The target institution is a Kenyan high school. The high school runs on the current 8.4.4 education system in which the students in this schools take four years before completing their studies. The students are divided into four years of study forming the following categories: form one, form two, form three and form four. Those are the major categories on the students.

The school apart from the students has the teachers who hold different ranks. At the top we have the principal, the deputy principal (acts when principal is absent and also administers discipline) curriculum officer, examination officer, two teachers on duty every week and the teachers.

There are also the un-teaching staff. We have the school secretary, the accountant, the school nurse and the matron. For efficient running of the school program this people must work very closely together and also maintain a proper communication channel.

# Problem statement and the scope of the project

A problem statement should describe the problem, describe its causes, and identify potential approaches or solutions to the problem through the use of literature reviews. So, explain the current problem(s) and how your project will solve it, define the goal and the scope of your project.

Loss of school property. Many students after getting the books from the library do not take care of them and tend to borrow many books from library before returning the previously borrowed. Books cannot be traced because the librarian is unable to know the exact number of books left in library unless they are counted manually. The system is going to maintain the actual record of the books. It will show those that are borrowed and the dates to be returned. Those students with more books not returned will have to first return them before being allowed to borrow more.

A lot of time wastage. After the exams are done the teachers record and calculate the results manually. The process is time consuming as a teacher will take a lot of time arranging and finding the positions of various students. The system is going to just take the results and the admission number of the student and record the results, calculate the total, position the students and give their grades.

Lack of publicity. The school is only known by those who are from the same location of the school and those who have heard about its performance. The system is going to make the school known by anyone who can access it through the internet. This will attract many students from far and also the facilities that the school offers will be known to people.

Lack of transparency by some students. After examinations results are out it has been noted that some students cheat their parents on their grades and their discipline in school. The system can be accessed through the internet to show each student individual grade and behavior in school hence it will be hard for students to cheat their parents.

High expenses on communication. Sending text messages to the parents and writing of the circulars is very expensive. The system will be communicating everything as scheduled on the news and updates link on the website. This will be considerably cheap compared to the circulars and texts.

Poor and slow communication. The school currently uses a system whereby everyone must meet the principal in person which is very slow. The system is going to make sure that everyone in a certain rank for example the matron has to take in the expenses incurred on food and purchasing other catering materials. The accountant also has to key in the transaction made during the day and therefore all these can be accessed by the principal as need arises.

Difficulty in accessing the student’s details. Currently the details of students are not in a same record where they can be accessed at a glance. For example you can’t find the fee balance, the books owned by the student and academic progress of the student at a glance. The system makes sure after keying in the students admission number all the details of the student are going to be displayed.

# Description of the current system

There is no management system currently in the school. Calculators are used in result analysis and manual methods used in the recording, grading and positioning the students. At times spreadsheets are used in result management.

The cycle involved in results production is shown below.

The school does not have a website currently, they send circulars to the parents and guardians in order to update them on what is going on. They also carry out their advertisements on local radio stations and also through social functions due to lack of a website.

The recording of student details is always done manually. The deputy principal records the discipline of students in a black book while the school nurse records the details of students in a book before taking the names to the accountant who can then record the charges. There is no system where you can find this details in a same place and view it at a glance.

During voting the students queue and vote, this takes the whole day while the counting of votes begins afterwards which is also done through the night.

# Requirements for the proposed system design

The proposed system makes the use of the current computers in the school. The software just has to be installed in the computers and operation begins. The hardware requirements for example has been met by the current computers.

The users of the system require a simple training which will enable them to use the system effectively.