**UNIVERSITY OF NAIROBI**

**SCHOOL OF COMPUTING AND INFORMATICS**

**SECOND YEAR PROJECT PROPOSAL**



**STUDENT PERFOMANCE INDEX**

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**ABSTRACT**

Explain circumstances that lead to the picking of this project

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**CHAPTER 1: INTRODUCTION**

**BACKGROUND INFORMATION**

In many educational institutions in Kenya today, examiners rely on various tools to compute and analyze examination results of their students. For instance, in most secondary schools, teachers use tools such as Microsoft PowerPoint, scientific calculators and even mobile based calculator applications to compute student’s scores. They then come up with various relationships that are useful in determining the performance of students with respect to past results in other examinations.

This is quite important since from these relationships, teachers are able to gauge how well the students are learning. It enables them to take the appropriate measures to realize improvement in the quality of education offered in their respective disciplines based on interpretations made from the relationships made from the analysis. Generally, keeping track of students’ performance would be so much effective if it was done at individual level. This is because problems would be detected at the root and appropriate actions taken to improve performance

**PROBLEM DEFINITION**

Examinations are an integral part of any learning institution. This is because they provide a platform in which teachers can be able to evaluate their students to find out how well the academic goals of the institution are being achieved. However, tools to keep track of the performance of a particular student do not readily exist. It takes a lot of time to make calculations and come up with a detailed performance index of a student. The other challenge is that, after coming up with these results, storing and retrieval becomes a problem. The quality of education offered in schools would greatly improve if a system was developed to solve all this challenges. A one stop system to generate s students performance index, offer a storage mechanism and a way to retrieve the results whenever needed. Creating this system would require a considerable amount of time a computer equipped with the appropriate software and skills in programming

**GOAL AND OBJECTIVES**

**GOAL**

The overall objective of the project is to develop a web based application that will generate a student’s performance index over the span of an academic year

**RESEARCH OBJECTIVES**

* Research into the various tools that can be used to represent performance index

**ESYSTEM DEVELOPMENT OBJECTIVES**

The built application should be able to:

1. Accept the name and scores of a particular student in various subjects
2. Analyze these scores
3. Give a detailed performance index of the student

**JUSTIFICATION**

Currently secondary school teachers use very many applications before they can come up with a comprehensive performance index of any one student. It would be more convenient if all this was done by a single application. Even after obtaining this breakdown, storage and retrieval becomes a problem. SPI will be able to solve these problems by providing storage and an easy way of printing out the results

**PROJECT SCOPE**

The project will focus on analyzing the scores of a student in various examinations throughout the year. The would include results for the first second and third terms

It will generate the students’ performance index which will be available online for printing at any time as long as one has an internet connection