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SCHOOL OF COMPUTING AND INFORMATION SCIENCE

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TASK: CONCEPT PAPER STUDENT'S

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TOPICS: ELECTRONIC GRADING SYSTEM

CASE STUDY: NAGURU KATALI PRIMARY SCHOOL

1.0 Introduction

Electronic grading system is a web-based application that can be used to create report cards, class grade list and roll sheet attendance report for Naguru Katali Primary. This system will reduce the use of hardcopies at the school which helps reduce work load at the director of studies department of the school. It is meant to run on a web based environment so as it can be accessed by any pupils'. The parent of pupils of the school will be able to attain the results from the pupils.

1.1 Background of the study

Traditional grading methods in primary schools often involve manual recording and calculation of grades, leading to inefficiencies and potential errors. With the growing technology, there is a pressing need to introduce an electronic grading system tailored to the specific requirements.

Naguru Katali Primary School is a public school founded to help children living in Naguru parish located in Nakawa division; this school has a population of about one thousand students and has day facilities only. Staff members of about forty whereby ten of them are non-teaching staffs and the other thirty are teaching staff. A teacher can handle one class but teaching two subjects. The classes are from primary one to primary seven and each class is divided into different streams that is to say two streams with a minimum of 60 pupils.

Naguru Katali Primary School has these subjects mathematics, science, English, social studies and it does three sets of exams each term which include beginning, mid and end of term examination. Both beginning and mid of term are marked out of twenty percent each and end of term is marked out of sixty percent piled and stored in the file cabinet. The teacher invigilates and marks the subjects that he or she teaches in a class of four streams and each stream having a minimum of sixty students. He records and grades the marks of each student on a mark sheet and forwards to the class teacher.

The class teacher then computes all the three sets of exams done in the term using a calculator for each student for the four subjects each student handles and the average is obtained to come up with the positions for that particular term.

1.2 Problem statement

The current manual grading system used in primary schools is labor-intensive, prone to errors, and lacks real-time feedback mechanisms. There is a critical need for an electronic grading system that caters specifically to the unique dynamics of primary education. This system will simplify grading tasks for teachers, provide timely feedback to students, and

facilitate transparent communication with parents.

Naguru Katali Primary School is currently having a population of approximately one thousand students in the entire school. This big number of students delays the school administration and students to get their results on time, missing results, manpower additions by the teacher's manual calculators in totaling the marks hence making the students to receive non accurate results. Retrieving the results of the students from the results list for particular students takes a lot of time also since there is no other way other than checking for the results one by one.

1.3 Objectives

1.3.1 General Objective

- ☐ To develop an electronic grading system that will help to record, compute grades of pupils and giving out an organized report to the pupils.

1.3.2 Specific Objectives

- a) To streamline grade recording that allows teachers to record and updates student grades for various exams and assignments.
- b) To automate grade calculation reducing potential of human error and ensuring consistency in grading.
- c) To provide timely feedback to pupils on their assignments, assessments and overall academic performance.
- d) To enhance Parent-Teacher communication within the system for teachers to share pupils progress reports, academic updates and behavioral observations with parents or guidance.
- e) To track attendance for pupils.
- f) To provide training and support to teachers, students, and parents to effectively utilize the electronic grading system and maximize its benefits in the primary school environment.