

UTILIZING SMS AND STUDENT PORTALS: ACADEMIC GRADES VIEWING AND NOTIFICATION

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Abstract: Short Message Service (SMS) plays a significant role in people's daily life. This study has successfully designed and developed a notification system to send the notifications directly to the parent mobile phones via SMS and thus help in making sure that the information is delivered to all interested parents or student. Successfully implementing this notification system that will provide a reliable and convenient inter communication channel.

Keywords: Utilizing SMS; Grade Viewing; Web Portal; Notification; IOT

1. INTRODUCTION

The Internet of things (IoT) is the system of physical gadgets, vehicles, home apparatuses, and different things inserted with hardware, programming, sensors, actuators, and availability which empowers this things to interface, gather and trade information, making open doors for more straightforward reconciliation of the physical world into PC based frameworks, bringing about proficiency enhancements, monetary advantages, and lessened human efforts.

IoT includes broadening Web availability past standard gadgets, for example, work areas, workstations, cell phones, and tablets, to any scope of generally stupid or non-web empowered physical gadgets and regular items. Inserted with innovation, these gadgets can convey and cooperate over the Web, and they can be remotely checked and controlled. With the entry of driverless vehicles, a part of IoT, i.e. the Web of Vehicle begins to acquire consideration.

The advocate proposed IOT: Understudy Entry with Grades Notice Executing SMS. The framework causes the personnel to lessen their assignments in registering last grades of each subject. The personnel is fit for encoding quarterly evaluations on the web and the framework will process the last grade and general normal of the understudy.

The main purpose of the study is to create a Utilizing SMS and Student Portals: Academic Grades Viewing and Notification. The main objective is to lessen the errors in computing final grades and the general average of the students to lessen the time consumed of computing grades. The program would make the recording and computation of grades easier for teachers.

2. LITERATURE SURVEY

According to the Authors, In this study [1] will send an SMS Notification to the parents by periodic grades by course or subjects.

According to the Authors, to develop this Utilizing SMS and Student Portals: Academic Grades Viewing and

Notification [2] the students cannot be aware of their grades as the year ongoing. They need a system that can provide grades and subject information by sending SMS Notification. This system is the solution to make the computation of final grades easier and faster.

2.1 DESIGN OF THE STUDY

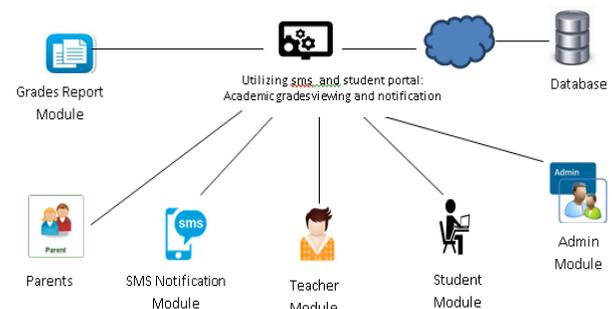


Figure 1 System Architecture

The System Architecture shows the different modules and components. The administrator has an

authority to print report (optional). The student module will handle the inquiries of their academic status. The system can provide a report of grades and notify parents by sending SMS notification for periodic grades and final grades. Teachers are capable of encoding periodic grades of the students. The final and general average will compute by the system. All data needed by the students are stored on the database server which handles all data from the users.

2.2 USE CASE DIAGRAM

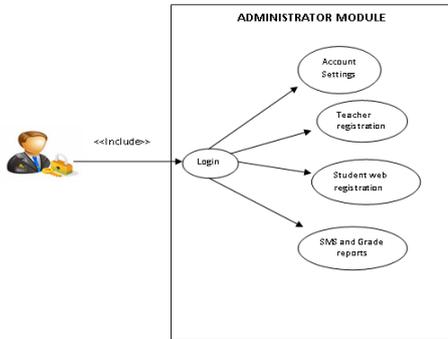


Figure 2 Administrator Web Module

The administrator can accept student web account registration, teacher web account registration and generate reports based on the grades of the entire school year of the students and SMS Notification for the parent. The student is required to register in order to monitor the grades. The teacher also required to encode the grades of the student.

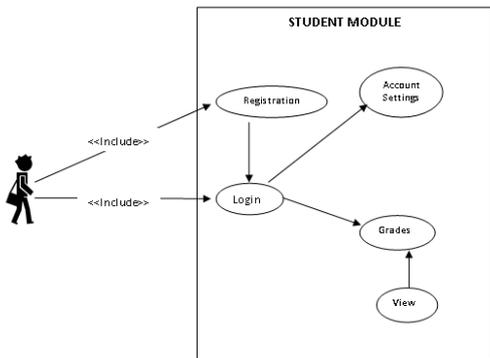


Figure 3 Student Web Module

The student is required for registration in order to log in and visits his academic status. The registered students are not capable of editing grades related information but they have an authority to update their personal information. The viewing method is the main purpose of this module.

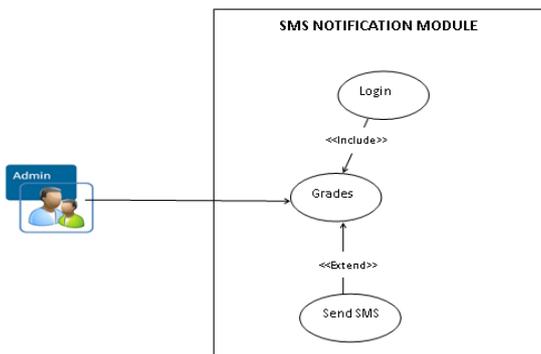


Figure 4 SMS Notification Module

The SMS Notification containing all subjects and final grades of the entire period. The parent is the receiver of the notification and SMS. Through this Notification, the parent will be aware of the academic status of his/her child. The admin has an authority to send SMS to the selected receiver which is the parent.

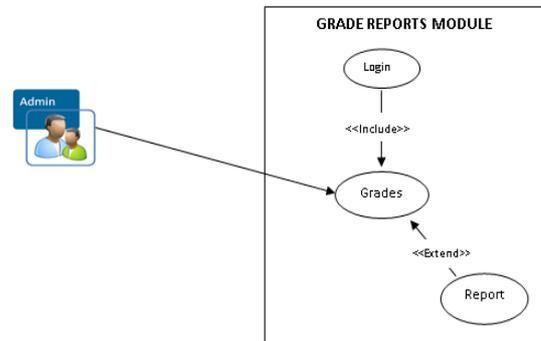


Figure 5 Grade Reports Module

The report is based on the Quarterly and computed grades. The administrator is responsible for generating a printed report of grades and editing of grades with permission of the teacher.

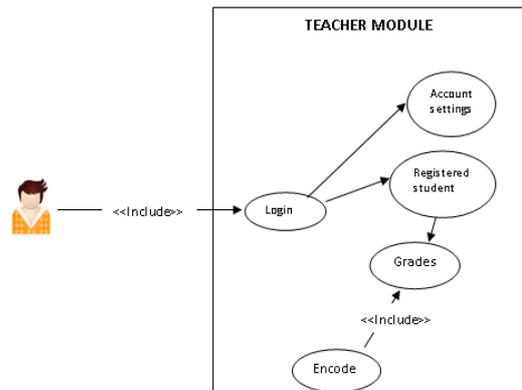


Figure 6 Teacher Web Module

The teachers need to login in order to encode the grades of the registered students. The grades encoded in every period will be computed by the system that can give a final grade and general average with an expected result to the student.

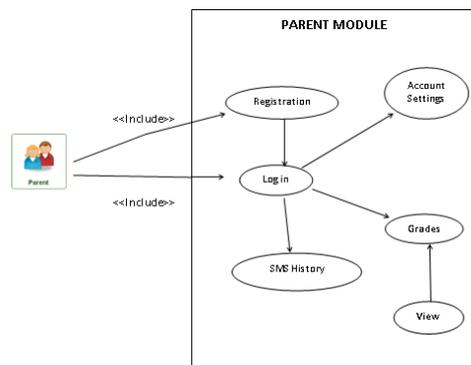


Figure 7 Parent Web Module

The parent is required for registration in order to log in and visits his/her child academic status. The parent is capable of managing SMS history, he/she is able to delete the messages he/she received

3. FLOWCHART

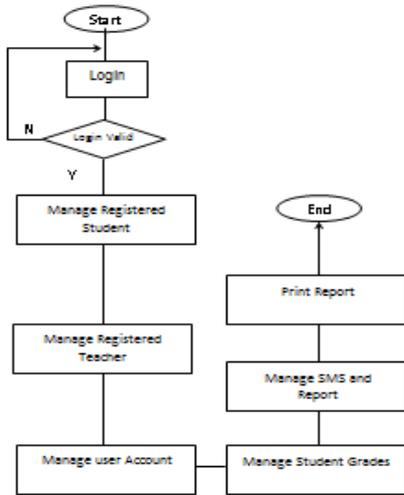


Figure 8 Administrator

The admin will log in first in order to manage the registered students and teachers. He/she is capable of the grades of the students and also managing the sending of SMS to the parents and printing of grades report.

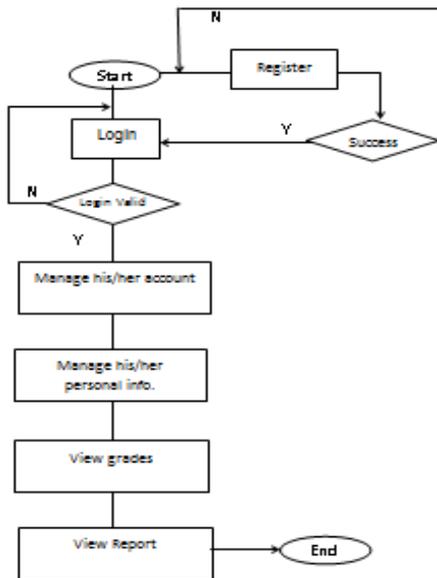


Figure 9 Student

The student is required to register an account enabling them to log in from the web. The student can see his/her computed grades from a specific subject he/she can manage his/her account by updating his/her personal information.

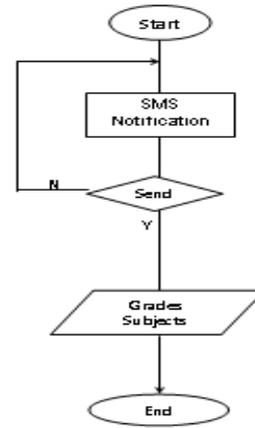


Figure 10 SMS Notification

Admin has the authority to send SMS to the parents of the specific student the SMS Notification is consist of periodic grades in each subject and the general average of the subjects.

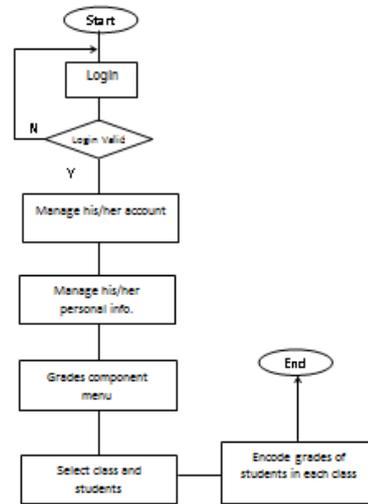


Figure 11 Teacher

The teacher needs to log in first to manage his/her account and update his/her personal info. He/she is capable of managing registered students he/she is also the one who encodes periodic grades and final grades of a specific subject and the general average will be computed.

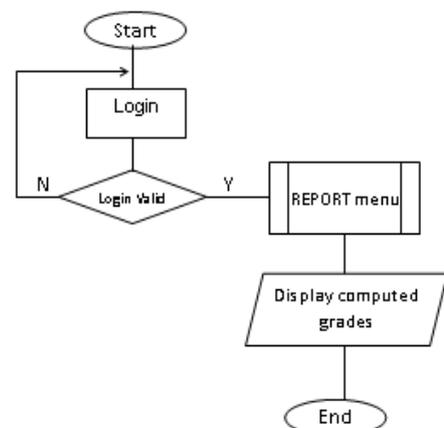


Figure 12 Grade Reports

The admin will log in first to be able to select the report menu and him/she can print the computed grades of each period.

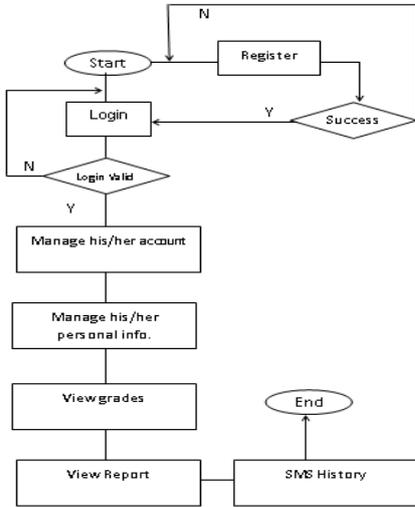


Figure 13 Parent

The parent is required to register if he/she does not have any account. He/she needs to log in to manage his/her account. He/she is capable of viewing the grades of his/her son/daughter to the specific subjects He/she is also able to delete SMS history that they already received.

4. RESULT AND DISCUSSION



Figure 14 Homepage

The homepage of the system that allows the users to login first the proceed other activities.

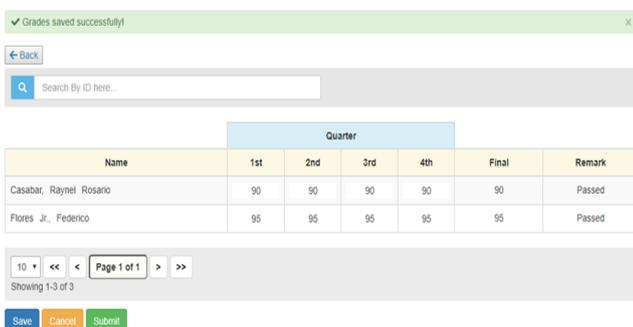


Figure 15 Faculty

The teachers/faculty can encode the grades of the students in a specific subject.

Progress Report Slip E.R.N: 124005

Republic of the Philippines
Department of Education
Region IV-A CALABARZON
District of Laguna
NEREO R. JOAQUIN NATIONAL HIGH SCHOOL
Saint Rose Castle, City of Biñan Laguna

Name: Buena, John Rhey E. Age: _____
Grade Level: Grade 7 Gender: Male
Section: Narra Academic Year: 2018-2019

Learning Area	Quarter				Final Grade	Remarks
	1st	2nd	3rd	4th		
Mapa	78	78	78	78	78	Passed
Araling Panlipunan	78	78	78	78	78	Passed
Filipino	78	78	78	78	78	Passed
Edukasyon Sa Paggapakatao	78	78	78	78	78	Passed
Mathematics	78	78	78	78	78	Passed
Edukasyong Pantabanan At Pangkabuhayan	78	78	78	79	78.25	Passed
English	78	78	78	78	78	Passed
Science	78	78	78	78	78	Passed
General Average					78.03125	Passed

Principal _____ Adviser _____

Figure 16 Computed Grades Report

The computation of the final grade and the general average of the student the teachers just encode the grades in each period and the final grade of each subject will show.

5. CONCLUSION

The Utilizing SMS And Student Portals: Academic Grades Viewing and Notification will help the teachers to lessen the workload on computing final grades and the general average of the student. The system helps the parent in monitoring the grades of their children. It is very helpful to the teacher in terms of inquiry of worried students to grades

Utilizing SMS and Student Portals: Academic Grades Viewing And Notification can help both parents, students and teachers lessen the works of the teacher. They just encode the quarterly grades and compute final grades in each subject and give the general average of the student at the end of the entire year. The Parent is aware of the grades of his/her son and daughter by receiving an SMS notification. Teachers can encode grades of the students and the admin can print periodic grades for the student.

5.1 RECOMMENDATIONS

The researchers of the study further recommended the following:

1. Make the system responsive to android phone and tablets.
2. To add more features that will help the administrator, teachers, and students easily used the system.

6. REFERENCES

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