

ABSTRACT

The study was conducted and developed at Dao National High School, Dao, Capiz. The general objective of this study was to design and develop the Grade Viewing System that will give solution to the grade transparency problem of students and make them aware of their grades. This study focused only on viewing the students' grade. The Grade Viewing System can be used to assess grades of the students by viewing through the system. It can be a great advantage for the students and the teachers by helping them to encode and view students' grade easier.

The researchers used the Waterfall model in developing the system and undergone five (5) phases Planning, Analysis, Design, Coding, and Testing. The respondents with randomly selected senior high school students in every strand. Initially, the researchers gathered information about the different problems encountered by students and teachers in viewing and encoding grades, then, analyzed the problem and created a possible solution to solve the problem. In designing the system, the programming language, researchers used Java, NodeJS, and MongoDB for the database. In the testing phase, the researchers first presented the system to the Advisory Committee for their comments and suggestions which were applied in the modification of the system. The system was evaluated in terms of Functional Suitability, Maintainability, Performance Efficiency, Compatibility, Reliability, Usability, Security, and Portability.

After the conduct of the study, the following conclusions were drawn; it is possible to design a grade viewing system that will give the students at Senior High School Department at Dao National High School easy access to view their grades. Grade Viewing System could give security to the student's grades and allow students to view their grades

offline. The system can provide easy and fast access to finding, adding, and updating data. The developed system is acceptable in terms of functional suitability, maintainability, performance efficiency, compatibility, reliability, usability, security, and portability. Finally, the Grade Viewing System was “highly acceptable” using a questionnaire adapted from ISO 25010 standards to gather the acceptability of the Grade Viewing System in terms of functional suitability, maintainability, performance efficiency, compatibility, reliability, usability, security, and portability.