**Chapter 5**

**SUMMARY, CONCLUSION AND RECOMMENDATION**

This chapter presents a brief summary of the study based from the results of the treated data. Moreover, the conclusions and recommendations that were drawn out from the findings and results were also presented.

**Summary**

The group considered that fast paced changes in technologies nowadays are considered opportunities to make everyday life an easier at home, at work and at school. Computer resources have been helpful in the field of education by providing information that demands credibility and accuracy. Teachers have been using these resources to come up with fast and reliable grade computations. Therefore, the proponents of the study aimed to develop a system that would provide for these demands.

The study “c-CRAFT: Class Record Assistant for Teachers of TFBC School, Inc. Grade School Department” aimed to design and develop a system that would aid the teachers in their grading system process. It also analyzed and explained the existing system used by the school together with the problems experienced by the teachers from the existing system. It also intended to develop a system that would lessen if not eliminate the shortcomings of the existing system and to prove that the proposed system is technically and operationally feasible. It also anticipated that there is a no significant difference between the existing and the proposed system in terms of security, efficiency, and reliability.

The researchers used prototyping in the development of the software for the system that suits the need for the information system to be properly designed and appropriated to the needs of the clients. Development tools such as Java Development Kit 6 Update 22 for main programming language, MySQL 5.1 for database and NetBeans IDE 6.9.1 as the source code editor were used in to develop the system.

Data gathering tools such as questionnaires, evaluation forms and interviews were vital for identifying the areas necessary for improvement and development. Data gathered were statistically treated using frequency distribution, weighted means, Rubrics method and Lickert scale were essential tools to illustrate the results of the evaluation of the proposed system. Other tools such as tables and charts were also used to demonstrate differences and visual presentations for easy interpretation.

**Summary of Findings**

This section provides the important parts of the study wherein the major findings of the proposed study were gathered from the respondents that was comprised of the faculty (16) and principal of the TFBC School, Inc. and three (3) IT experts. Hence, the following were the general objectives considered with their corresponding findings.

1. **The Existing Grading System of TFBC School, Inc.**

The school uses a semi-computerized system for grading wherein they manually compute grades to their class records and transfer them into a spreadsheet file using Microsoft Excel for their IRP’s to be consolidated by the class adviser and manually compute class standings periodically. Majority of the teachers update their class records daily.

1. **Problems Encountered of the Existing System**

However, the said system is vulnerable to problems such as difficulty in manual computation, record confidentiality and time consuming consolidation of grades. The existing system also requires effort in computations of academic and extra-curricular ranking necessary for the 70-30 scheme that is used to identify student final rankings at the end of the school year.

1. **Evaluation of The Designed and Developed System**

The proposed system was then evaluated by the respondents according to three criteria: Security, Efficiency and Reliability.

1. **Security**

The system was defined generally rated as excellent in terms of security. Results show that the system through authentication and control of database access and control keys makes it secured.

1. **Efficiency**

The proposed system was defined as excellent in terms of efficiency by the respondents. Figures and scores show that the system provides an organized and smooth way of producing information from inputs of the users. It showed consistency of results and requires minimal if not zero computation effort.

1. **Reliability**

Based from the responses, the proposed system was also accepted as excellent in terms of reliability. It shows that the system can be trusted in presenting complete and reliable data and computed results from raw scores into data. It presents accurate and credible computations and ranking of students per period and per subject.

Furthermore, responses from the questionnaires imply that the majority respondents agree to implement the proposed system for their use.

**Conclusion**

Treated data and analysis were done by the researchers to successfully arrive into conclusions. After the result were gathered and treated, it showed that the system is capable of being a reliable, secure and efficient grading system for TFBC School, Inc. of the grade school department. The system scored a total of 4.737 that is verbally equivalent to excellent in the Lickert scale interpretation table from the deigned Rubrics method.

**Recommendation**

After careful analysis on the results that were gathered from the evaluation of the system, it is therefore recommend that:

* The system should be used by the TFBC School, Inc. Grade School Department as a grading system.
* Further development should be done for the printing output and capabilities of the system.
* An online implementation of the system that can be accessed by teachers anywhere to update their virtual class records.