AN ONLINE VOTING SYSTEM FOR CAVITE STATE UNIVERSITY IMUS CAMPUS

Undergraduate Thesis
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Cavite State University – Imus Campus

In partial fulfillment of the
Requirements for the degree
Bachelor of Science in Computer Science

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ABSTRACT

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The study entitled Online Voting System for Cavite State University-Imus Campus from December 2021 to May 2022. The study was developed to help the COMELEC in preventing the inefficient issues they used by manual voting process. The system consisted of two user levels, the COMELEC as the administrator and the student, as the user. The administrator can access all of the modules, while the authorized user has the only one that can perform in the system. the system is an online-based that needs internet access.

The Online Voting System is comprised of twelve modules such as Login, Dashboard, Votes, Voters, Positions, Candidates, Preview, Submit, Reset Password, View Ballot, and Log Out. The said modules were created and developed using PHP, Visual Studio Code(editor), and MySql for the programming language. The developers used Paint and Microsoft Word for the development of the diagrams for the documentation.

To achieve this study, the researchers interview the President of COMELEC to gather an information during voting process to maximize the amount of time for this study. After analyzing and collecting all the methods used in the development of the system, all functions and features of the system were tested by the five IT professionals and the head of COMELEC based on the given categories of ISO 9126. The grand mean for the system was 4.68, which is Highly Acceptable. This shows the participants believe that the system is outstanding and meets their expectations. Base on the result of the survey all participants agreed that the system was highly acceptable.

TABLE OF CONTENTS

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INTRODUCTION

Nowadays, modern voting systems have replaced the old way of voting based on paper ballots. Developing these voting methods may improve the voting process of each student using the internet. The online voting system may provide accurate results that can operate by the representative. That will help raise awareness for student services.

COMELEC held an election to select new student leaders. They usually used manual voting and announced the summary result for the new leaders in the organization. It is an activity wherein students are required to choose their chosen candidate, who will lead the organization of the Central Student Government (CSG). The voting process is usually through the ballot box and pieces of paper. After the voter selects his preferred candidates'. The paper ballot contains votes that will drop into a ballot box. Once the voting is done the COMELEC starts to count the numberof votes of each specific candidate. After the counting process, the last step is to finalize and will post the official results on the CSG page or bulletin board.

The Online Voting System is a web-based development to help the school organization obtain specific data on counting votes through transparency. The

1

information processed can be accessed through a network and stored in the database.

This Online voting is conducted similarly in polling places where officials can testify to ensure voter integrity. (James. 2011)

However, there are some students(voters) is difficult to encourage them to vote. Most of them are not aware of the candidates they will vote for. In having a busy schedules in their respective major and minor subject.

This study aims to convert the existing manual voting system into an online voting system that will help them to lessen the time-consuming of their voting process. It also provides a friendly interface for students and security for each voter. This process will also be enhanced. Also, the online voting system gives accurate results in counting votes that can easy to determine and have a smooth transaction during the election day.

STATEMENT OF THE PROBLEM

The online voting system aims to support those who need to achieve goals for specific problems.;

The COMELEC is struggling in providing a ballot box and pieces of paper to select new leaders in the organization, It takes time for the students to vote on their chosen candidates. They also experienced inaccurate counting of votes that can't determine by the COMELEC. *"How to minimize the amount of time spent tallying the votes and have accurate results?"*

The COMELEC finds it hard to check the participants' information given by the voters because of the lack of time. Some of the students create multiple accountsto give more votes for their favorite candidates. It is improper to vote again without the consent of the regulatory body of the COMELEC." *how to filter the voters in entering to the online voting system to offer an effective way to vote?"*