

FINAL REPORT DOCUMENT

ELECTRONIC VOTING SYSTEM - GROUP 1

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1. INTRODUCTION:

PURPOSE OF PROJECT:

In modern times, it comes to me as unfortunate to have manual and tiring means of voting systems especially with its high levels of human error in our quest to have true democratic systems. It is for this purpose that this project has become relevant to my community(School). An electronic voting system which is very simple to use yet improves voting experience and reduces the human error factor. This project is geared towards providing an electronic voting system which caters for the need for small communities such as schools;

OVERVIEW OF PROJECT:

This project uses JAVA SE in developing a very simple straightforward java application with a few JFrame pages implementing the functions of Login, a voting page and an administrator page. Using a JDBC database functionality as a few files, the program developed verifies login, counts votes and allows the administrator to access the data of votes counted.

2. REQUIREMENT SPECIFICATION:

FUNCTIONAL REQUIREMENTS:

- i. Login system.
- ii. Single Candidate selection.
- iii. Candidate vote count.
- iv. Access to total number of votes per candidate.

NON-FUNCTIONAL REQUIREMENTS:

- i. User-Friendly interface.
- ii. Easy- to- use.
- iii. Interactive.

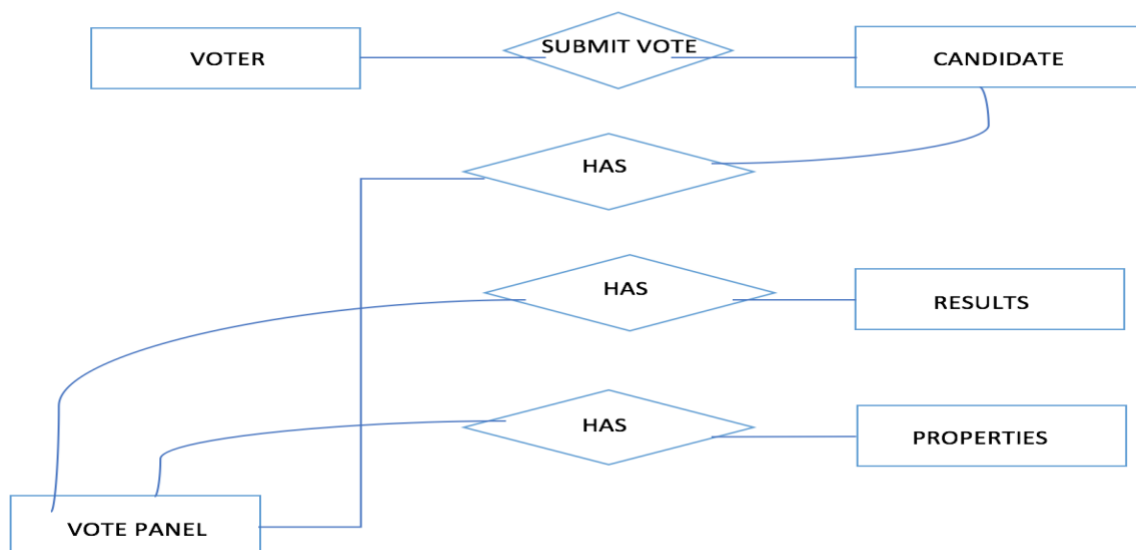
3. SOFTWARE DESIGN:

SOFTWARE MODEL: - JAVA APPLICATION.

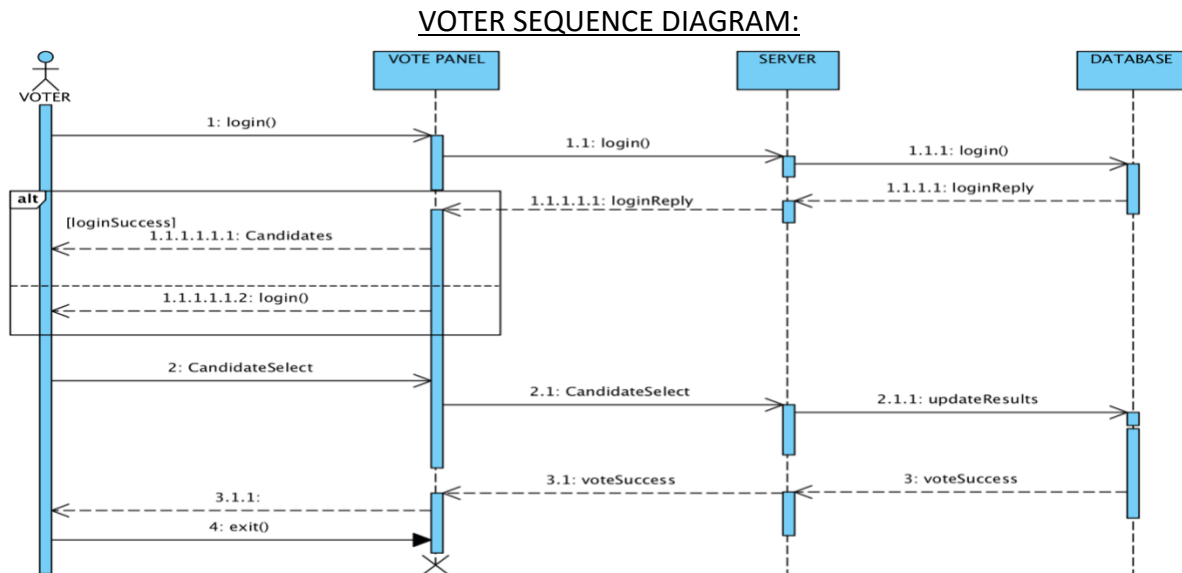
SOFTWARE DEVELOPMENT TOOLS: - NETBEANS IDE.

UML DESIGNS: -

MAIN VOTE PANEL:



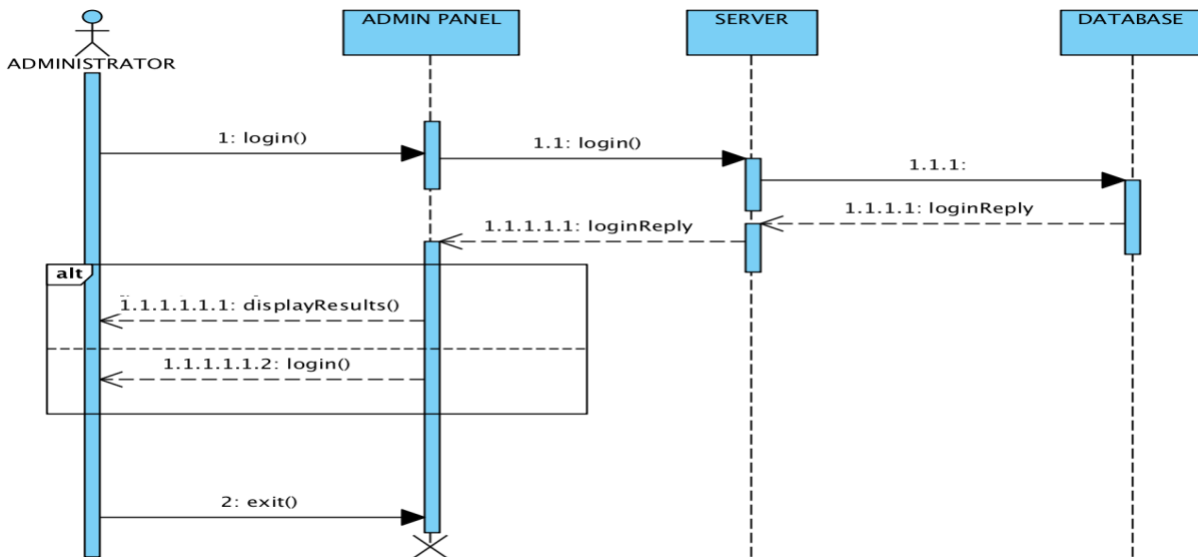
The vote panel or the main voting page accesses multiple features or classes. It has its own properties, that is allowing users to graphically navigate through the voting process. However, it also has access to the files used to store the results to read and write the count of results for any individual candidate. The voting panel allows the user to select a candidate from a group of radio buttons then upon clicking vote, increments the selected candidate's vote count which is done via calling an external class.



The sequence of the voting process is as follows:

1. The voter needs to enter the login details, once the login button is clicked, a request is made through to the database and the details are checked. If the login information is correct, the user is allowed onto the main voting page to commence voting, else the user sees a pop-up for login error and is taken back to entering the login information again.
2. Once the login information is correct and the main vote page is displayed, the voter may select the candidate of their choice and click the vote button.
3. Once the vote button is clicked, the results are updated in the background and the voter receives a notice of vote success.

ADMINISTRATOR SEQUENCE DIAGRAM:



The process of administrative active is as follows:

1. The administrator on the login page changes the jcombo box selection to administrator then enters the login details. If the details are correct, the administrator page is displayed, else the login error exception is invoked and login details asked again.
2. Once the administrator page is displayed, the administrator may select any individual and click the results button to see candidate's vote count results.

4. TESTING:

TEST PROCEDURE:

To test the program developed in this project, I asked a few other students to try out the voting system to check if we could have at least the basic functionalities working and so far we have been able to login successfully with the right login details, the exception handling

works fine, our vote count is implemented and we are able to get the result of votes from our administrator page.

CONCLUSION AND FINAL REMARKS:

This project has been successfully completed at this phase. In the future I , look to add more functionalities and to improve on the security of this vote system. It has been a great learning experience for me whilst working on this project.

NB: All research, development and implementation for this project was done solely by FRIMPONG FELIX NANA student ID F15040121 from the CST 2015 class.

REFERENCES:

- 1 YouTube**
- 2 Java Beginner tutorial by the newBoston.**