Washington State University

# Electronic Voting System

## Deliverable 2-2

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## Introduction:

This is a voting system: a desktop application for users to register and login, search, voting, and manage information

## Installation & Configuration:

**Link to repository:** https://github.com/fox-Y/CPTS_583-Software-Quallity

The voting system is designed to be used exclusively as a desktop application. This application run on the local host, which can be run on both windows and MACOS platforms. Our configuration are windows 7 and MACOS 11 and upper.

## Usage for different types of users

## Guests

### Registration

In order to have access to vote for ideal candidate, they need to create a new account. They can do so by clicking the registration button at the bottom of the entry boxes which used for getting login information.

### Account Creation

In order to register a new account, you users should provide their real names, genders, ages, position (state and city they are living), a username, and a password. Then, users can sign in directly after account creation.

### Sign in

Voters need to provide particular username and password to sign in.

## Registered Voters

After voters successfully sign in to the voting system, voters will move the to the main interface of the voting system, and they can see a menu on the leftmost which showed all names of the candidates. Every candidate matched with a voting button on the rightmost of the interface.

**Vote**

Registered users can vote for their ideal candidates by clicking the voting button and then interface will disappear and there will be a message box that appears and have message "Congratulations on successfully voting!"

## Administrator

Administrator have access to all information of the voters, candidates, and voting. They also have advanced privileges such as add candidate.

**Add Candidates**

Each candidate name can be stored into the system and is seen by the registered voter when in the voting menu. This privilege is not allowed for a Registered Voter to keep spam candidates from being inputted into the system.

## Misc Notes

- Currently, users and administrator can sign in by username and password, as well as 2 Factor Authentication using email OTP. The password has no minimum requirements or a maximum failed login attempts, and user data is not connected to the database, yet. Passwords are saved in a voters profile in hash function output form.
- Voters can see candidates name and voting button.
- Registered Voters and Administration will have the ability to logout of the system.
- Storing candidate information, other than their name, has not been implemented.
- Additional functionalities such as voting, managing voters and candidates information, and voting result calculation will be implemented in the next iteration.

To tests registered users:
Username: kitty
Password: Ty32467+ (The password contains both alphanumeric and special characters)
To test administrator:
Username: admin123
Password: Xtx123456+ (The password contains both alphanumeric and special characters)