

User Manual (CLI)

Logging In:

Note that when you create a user, the password must be at least 8 characters long.

Ex:

```
Welcome to SPC-Evoting!
-----
Enter your username: akwok1
Enter your password: 12345
```

Election Admin CLI

Note: only an admin can create other users so to populate your database, you need to use the pre-seeded admin account detailed in the readme

Creating an Election

- The creation of an election involves a list of sequential prompts
- If at any moment you wish to exit the application, you can type exit as a response or hit Ctrl+Z and then Ctrl + C
 - o If you would like to return to the menu rather than exit the entire application, you can type “return”
- When prompted for the official_id this is referring to the username of the election official you would like to associate this election with. This means you need to know beforehand what the username is. You also need to have created at least one election official before creating an election.
- **Note:** Because Golang has some weird buffering / spacing problems, sometimes prompts won't print all the way. In the creation of an election, you can hit enter, and it will re-prompt you. For registering a user and logging in, you may need to re-run the application CLI to see the prompts print all the way.

```
Welcome to SPC-Evoting!
-----
Enter your username: akwok1
Enter your password: 12345
Successfully logged in!
  v Create a new Election

  █
```

^ when this happens, you can hit enter and it will clear the screen and re-prompt you:

```
Enter the id of the election official responsible for this Election: □
```

Registering a new user

- The registration cli allows you to create a new user
- Note that there are 6 inputs for this form. The options don't show up all at once, so you need to use your arrow keys to navigate through the full list before submitting

```
user := map[string]string{
    "Username":      "",
    "Password":      "",
    "First Name":    "",
    "Last Name":     "",
    "Date of Birth": "",
    "Account Type": ""
}
```

- The prompt for this section allows you to edit your answers. To edit a field, select it using your arrow keys and hit enter. Then you can type the new field value, and it will replace the old one

District Official CLI

After logging in, the terminal should look like this:

```
Use the arrow keys to navigate: ↓ ↑ → ← and / toggles search
Select Election:
→ TestElection
  Campus Food Awards
  <Exit Program>

----- Election Info -----
Name:      TestElection
ID:       2
District: Maryland
Status:   Post-Election
□
```

- Use the up/down arrows to navigate through the list of elections.
- If you need to exit the program, select the <Exit Program> option at the bottom of the menu or hit Ctrl+Z then Ctrl+C.
- Note that you can only execute an action on elections assigned to you by the Election Admin through your user ID.

Selecting an election will lead you to this:

```
Use the arrow keys to navigate: ↓ ↑ → ←
Select Action for TestElection:
→ Display position winners
  <Return to election list>
  <Exit Program>
□
```

- Elections have multiple stages and affect the action provided in the 1st menu option
 - o After creating an election, the election is in the “Pre-Election” state. The 1st menu option will let you “open” the election for voting

- After opening an election, the election is in the “Active Election” state. The 1st menu option will let you “close” the election, so voters can no longer submit ballots. This will also notify the server to tally up votes
- After closing an election, the election is in the “Post-Election” state. The 1st menu option will let you view the results, i.e. the winner of each position in the election and how many votes they received
- The 2nd menu option will take you back to the election listing

Voter CLI

After logging in, the terminal should look like this:

```
Use the arrow keys to navigate: ↓ ↑ → ← and / toggles search
Select Election:
→ Campus Food Awards
<Exit Program>

----- Election Info -----
Name: Campus Food Awards
ID: 1
District: Main
Status: Active Election
```

- Unlike the Official’s screen, you will only see open elections

Selecting an election will lead you to the list of positions in that election:

```
Use the arrow keys to navigate: ↓ ↑ → ←
Select Position to Cast Ballot:
→ President
Vice President
Secretary
↓ <Submit Ballot>

----- Position Info -----
Position: President
Candidate Chosen: (None)
```

And selecting a position will lead to the list of candidates running for that position:

```
Use the arrow keys to navigate: ↓ ↑ → ←
Cast your ballot for President:
→ John Doe (Chosen)
Sarah Park
<Return to positions list>
<Exit Program>

----- Candidate Info -----
Candidate: John Doe
Party: Democrat
Chosen: Yes
```

- Selecting a candidate is optional, and selecting a selected candidate will deselect it
- Press <Return to positions list> to save changes for that position

When you are done, press <Submit Ballot> in the list of positions.

- Note that any errors with submission will be shown above the prompt, like in the image below where you must vote for at least 1 position

```
Error submitting ballot: Ballot submission failed: ballot must include at least one selection
Use the arrow keys to navigate: ↓ ↑ → ←
Select Position to Cast Ballot:
    President
    Vice President
    Secretary
↓ →   <Submit Ballot>
Please review your ballot selections before submitting
```