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OF WOLLONGONG
AUSTRALIA



Singapore
Institute of
Management

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Preliminary User Manual

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1. Introduction

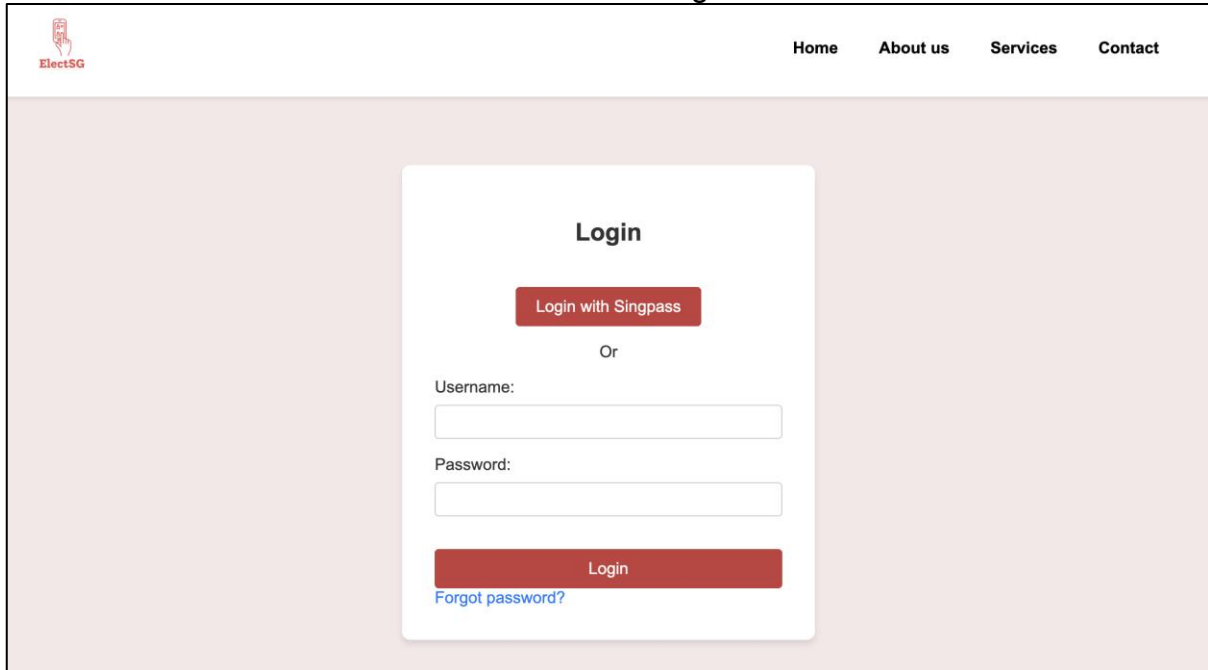
This user manual provides comprehensive guidance on using our e-voting system, developed specifically for the Singapore general election. Using Ring Confidential Transactions (RingCT) technology, this system ensures high levels of data and user anonymity by securely concealing voter identities and their vote selections.

This manual includes a detailed, step-by-step guide to help all users, including voters, candidates, and system administrators, efficiently use the e-voting system. The instructions provided will ensure a smooth and secure voting experience.

2. Using ElectSG as System Admin

2.1 Admin Log in

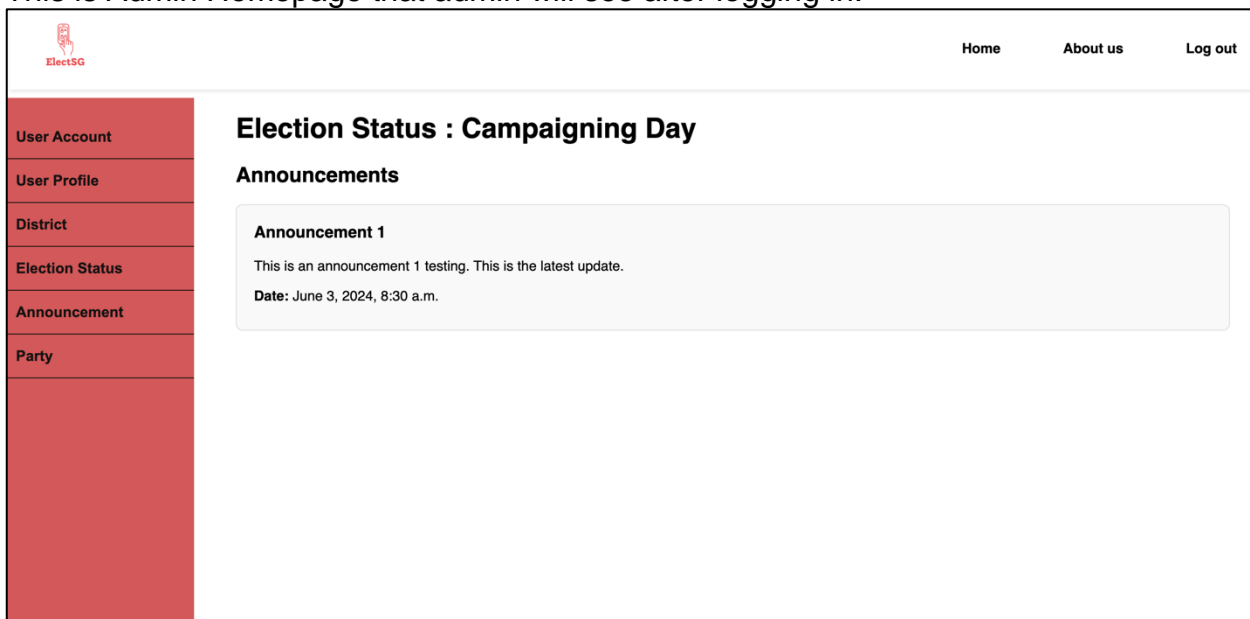
1.Fill in Username and Password. Then click “Login”.



The screenshot shows the ElectSG login page. At the top left is the ElectSG logo. At the top right are navigation links: Home, About us, Services, and Contact. The main content area has a light pink background. In the center is a white login box with the title "Login". Inside the box, there is a red button labeled "Login with Singpass". Below this is the word "Or". Then there are two input fields: "Username:" and "Password:". Below the password field is a red button labeled "Login". At the bottom of the login box is a blue link labeled "Forgot password?".

2.2 Admin Interface

This is Admin Homepage that admin will see after logging in.



The screenshot shows the ElectSG Admin Interface. At the top left is the ElectSG logo. At the top right are navigation links: Home, About us, and Log out. On the left side is a red sidebar with a list of menu items: User Account, User Profile, District, Election Status, Announcement, and Party. The main content area has a light pink background. At the top of the main content area is the title "Election Status : Campaigning Day". Below this is the section "Announcements". There is a grey box containing an announcement. The announcement is titled "Announcement 1" and contains the text "This is an announcement 1 testing. This is the latest update." and "Date: June 3, 2024, 8:30 a.m."

3.3 User Account

3.3.1 Creating an Account

1. Click “Create User Account” located in the side bar under “User Account” tab.
2. Fill in appropriate details in respective fields.
3. Click “Create New Account”.

3.3.2 Viewing Accounts

1. Click “View User Account” located in the sidebar under “User Account” tab. Then, you can see a list of created user accounts.

Username	Name	Date of Birth	ID	Party	District	Role	Actions
mary123	Mary Parker	Feb. 12, 1977	4	Party1	Jurong East	candidate	Update Delete
john123	John Doe	Feb. 12, 1988	2	Freedom	Clementi	candidate	Update Delete

3.3.3 Updating an Account

1. Click “Update” on the account you want to update.

User Accounts

Username	Name	Date of Birth	ID	Party	District	Role	Actions
mary123	Mary Parker	Feb. 12, 1977	4	Party1	Jurong East	candidate	Update Delete
john123	John Doe	Feb. 12, 1988	2	Freedom	Clementi	candidate	Update Delete

2. Update the field you want to update.

3. Click “Save Changes”.

As an example, I updated the district from “Clementi” to “Jurong East”.

Update User Account

Username: john123

Name: John Doe

Date of birth: 1988-02-12


Party: Freedom

District: Jurong East

Role: Candidate

[Save Changes](#)

After updating, you will be redirected to “View User Account” page, and you can see the district has been updated.

ElectSG

HomeAbout usLog out

User Account

User Profile

District

Election Status

Announcement

Party

User Accounts

Search...Search

Username	Name	Date of Birth	ID	Party	District	Role	Actions
mary123	Mary Parker	Feb. 12, 1977	3	Party1	Jurong West	candidate	<button>Update</button> <button>Delete</button>
john123	John Doe	Feb. 12, 1988	2	Freedom	Jurong East	candidate	<button>Update</button> <button>Delete</button>

3.3.4 Deleting an Account

1. Click “Delete” on the account you want to delete.
2. Click “OK”.

The screenshot shows the ElectSG User Accounts page. A confirmation dialog is displayed at the top, asking "Are you sure you want to delete this user?". The dialog has "Cancel" and "OK" buttons. The "OK" button is highlighted with a red box and a red number "2". Below the dialog, the "User Accounts" table is visible. The table has columns: Username, Name, Date of Birth, ID, Party, District, Role, and Actions. The first row shows a user with Username "mary123", Name "Mary Parker", Date of Birth "Feb. 12, 1977", ID "3", Party "Party1", District "Jurong West", and Role "candidate". The Actions column for this row has "Update" and "Delete" buttons. The "Delete" button is highlighted with a red box and a red number "1".

0.0.0.0:8000 says
Are you sure you want to delete this user?

Cancel OK 2

Home About us Log out

User Accounts

Search... Search

Username	Name	Date of Birth	ID	Party	District	Role	Actions
mary123	Mary Parker	Feb. 12, 1977	3	Party1	Jurong West	candidate	Update Delete 1
john123	John Doe	Feb. 12, 1988	2	Freedom	Jurong East	candidate	Update Delete

You will see that the account has been deleted.

The screenshot shows the ElectSG User Accounts page after deleting a user. The "User Accounts" table now only contains one row for the user with Username "john123", Name "John Doe", Date of Birth "Feb. 12, 1988", ID "2", Party "Freedom", District "Jurong East", and Role "candidate". The Actions column for this row has "Update" and "Delete" buttons.

Home About us Log out

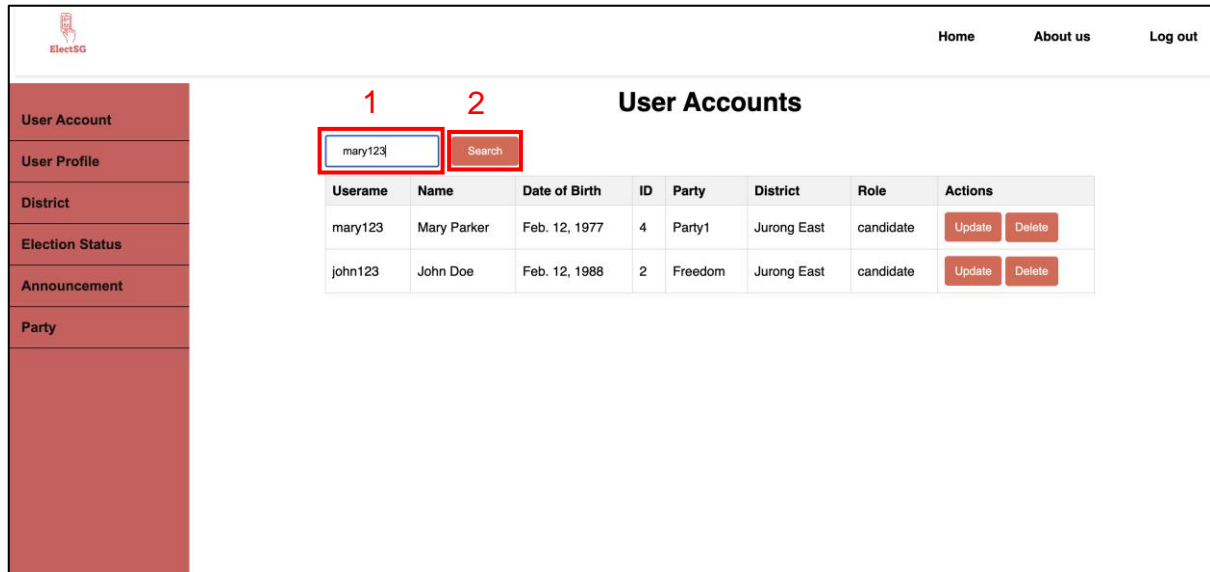
User Accounts

Search... Search

Username	Name	Date of Birth	ID	Party	District	Role	Actions
john123	John Doe	Feb. 12, 1988	2	Freedom	Jurong East	candidate	Update Delete

3.3.5 Searching an Account

1. Type in "Username" of the account you want to search in the search box.
2. Click "Search".



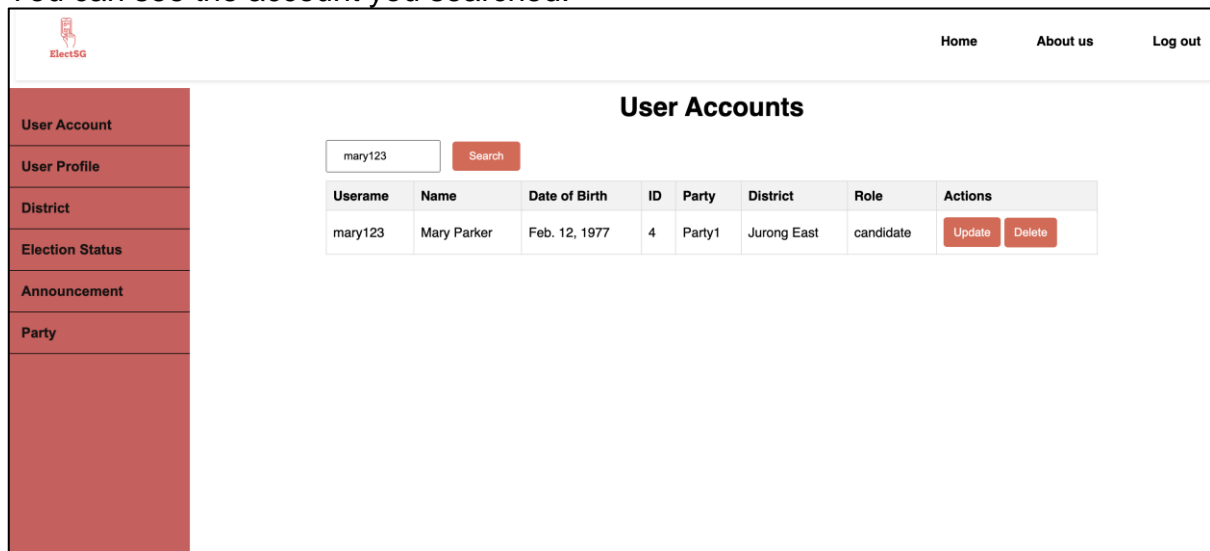
User Accounts

1 2

mary123 Search

Username	Name	Date of Birth	ID	Party	District	Role	Actions
mary123	Mary Parker	Feb. 12, 1977	4	Party1	Jurong East	candidate	Update Delete
john123	John Doe	Feb. 12, 1988	2	Freedom	Jurong East	candidate	Update Delete

You can see the account you searched.



User Accounts

mary123 Search

Username	Name	Date of Birth	ID	Party	District	Role	Actions
mary123	Mary Parker	Feb. 12, 1977	4	Party1	Jurong East	candidate	Update Delete

3.4 User Profile

3.4.1 Creating a User Profile

1. Click “Create User Profile” located in the side bar under “User Profile” tab.
2. Fill in appropriate details in respective fields.
3. Click “Create”.

Create User Profile

Profile Name: Admin

Description: Manages User Accounts.

Create

3.4.2 Viewing User Profiles

1. Click “View User Profile” located in the sidebar under “User Profile” tab. Then, you can see a list of created user profiles.

User Profiles

Profile Name	Actions
Admin	Update Delete
Candidate	Update Delete

3.4.3 Updating a User Profile

1. Click “Update” on the profile you want to update.

User Profiles

Profile Name	Actions
Admin	1 Update Delete
Candidate	Update Delete

2. Update the field you want to update.

3. Click “Save Changes”.

As an example, I updated the profile name from “Admin” to “System Admin”.

Edit Profile


Profile name:

Description:

3 Save changes

2

After updating, you will be redirected to “View User Profile” page, and you can see the profile name has been updated.

ElectSG

HomeAbout usLog out

User AccountUser ProfileDistrictElection StatusAnnouncementParty

User Profiles

Profile Name	Actions
Candidate	<button>Update</button> <button>Delete</button>
System Admin	<button>Update</button> <button>Delete</button>

3.4.4 Deleting a User Profile

1. Click “Delete” on the profile you want to delete.
2. Click “OK”.

The screenshot shows the ElectSG web application. A dark modal dialog is open in the center, asking "Are you sure you want to delete this profile?" with "Cancel" and "OK" buttons. The "OK" button is highlighted with a red box and a red number "2". Below the dialog is a table of user profiles:

Profile Name	Actions
Candidate	Update Delete
System Admin	Update Delete

The "Delete" button for the "System Admin" profile is highlighted with a red box and a red number "1". On the left is a sidebar with menu items: User Account, User Profile, District, Election Status, Announcement, and Party. The top navigation bar includes Home, About us, and Log out.

You will see that the profile has been deleted.

The screenshot shows the ElectSG web application after the deletion. The modal dialog is gone. The table now only contains the "Candidate" profile:

Profile Name	Actions
Candidate	Update Delete

The sidebar and top navigation bar remain the same as in the previous screenshot.

3.5 Electoral District

3.5.1 Creating a District

1. Click "Create District" located in the side bar under "District" tab.
2. Fill in appropriate details in respective fields.

3. Click “Add District”.

Add District

Jurong West;Jurong East;Clementi

District names:
Enter multiple district names separated by semicolons (;)

Add District

3.5.2 Viewing Districts

1. Click “View District” located in the sidebar under “District” tab. Then, you can see a list of created districts.

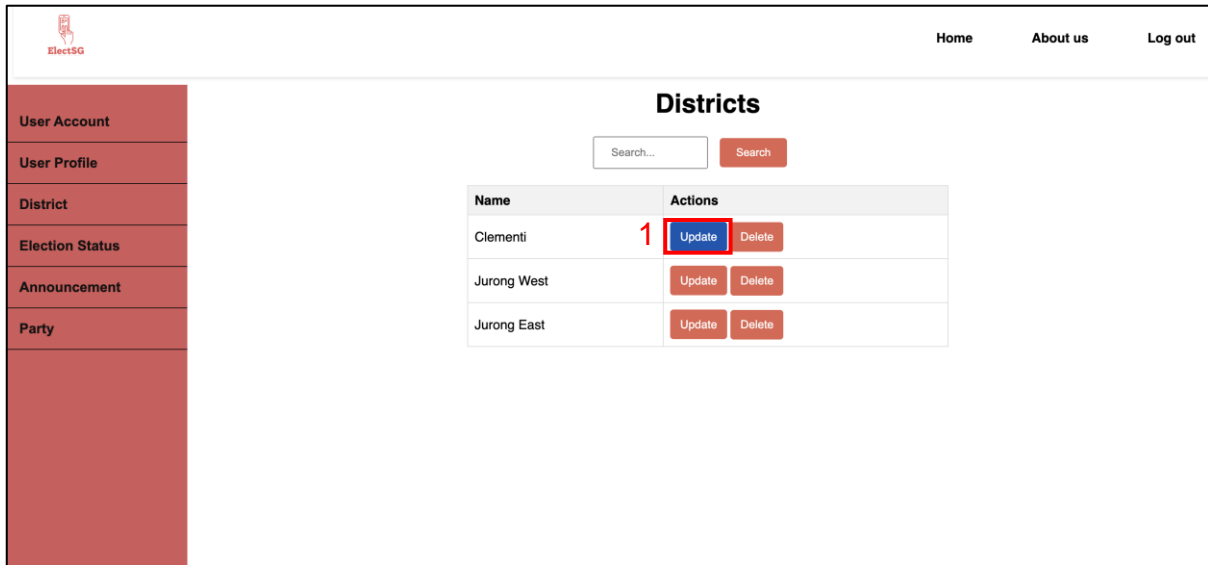
Districts

Search... Search

Name	Actions
Jurong West	Update Delete
Jurong East	Update Delete
Clementi	Update Delete

3.5.3 Updating a District

1. Click “Update” on the district you want to update.



Districts

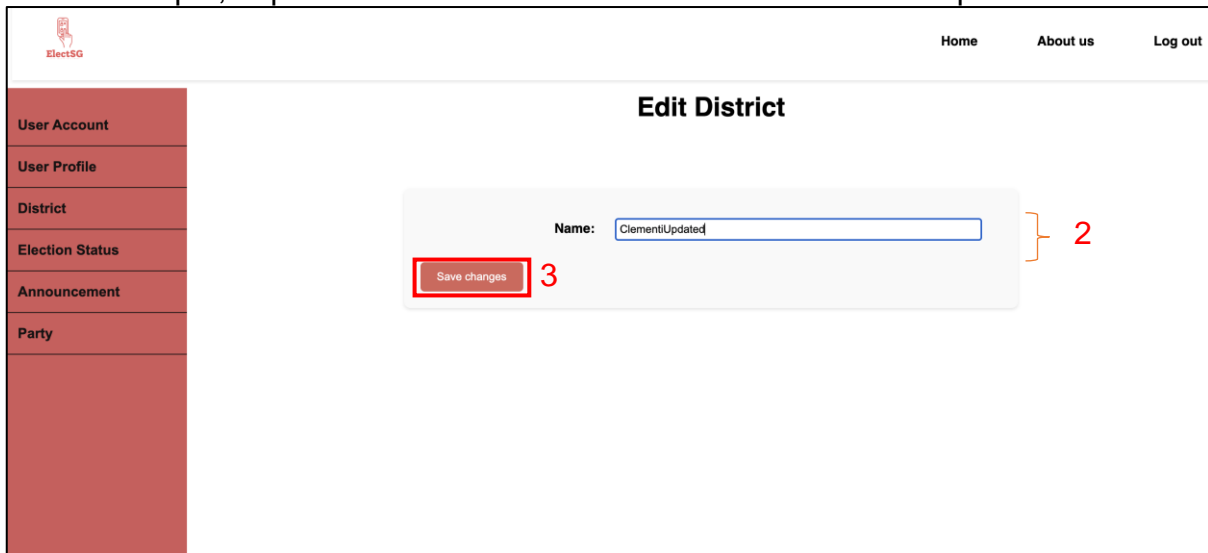
Search... Search

Name	Actions
Clementi	1 Update Delete
Jurong West	Update Delete
Jurong East	Update Delete

2. Update the name of the district.

3. Click “Save Changes”.

As an example, I updated the district from “Clementi” to “ClementiUpdated”.




Edit District

Name: ClementiUpdated **2**

Save changes **3**

After updating, you will be redirected to “View District” page, and you can see the district name has been updated.

ElectSG

HomeAbout usLog out

User AccountUser ProfileDistrictElection StatusAnnouncementParty

Districts

Search

Name	Actions
Jurong West	<button>Update</button> <button>Delete</button>
Jurong East	<button>Update</button> <button>Delete</button>
ClementiUpdated	<button>Update</button> <button>Delete</button>

3.5.4 Deleting a District

1. Click “Delete” on the district you want to delete.
2. Click “OK”.

The screenshot shows the ElectSG web application. At the top, a dark notification bar displays "0.0.0.0:8000 says" and "Are you sure you want to delete this district?". Below this, a confirmation dialog with "Cancel" and "OK" buttons is visible. The "OK" button is highlighted with a red box and a red number "2". To the right of the dialog, the navigation menu includes "Home", "About us", and "Log out". On the left, a sidebar contains links: "User Account", "User Profile", "District", "Election Status", "Announcement", and "Party". The main content area is titled "Districts" and features a search bar with a "Search" button. Below the search bar is a table with two columns: "Name" and "Actions".

Name	Actions
Jurong West	<button>Update</button> <button>Delete</button>
Jurong East	<button>Update</button> <button>Delete</button>
ClementiUpdated	<button>Update</button> <button>Delete</button>

The "Delete" button for "ClementiUpdated" is highlighted with a red box and a red number "1".

You will see that the district has been deleted.

This screenshot shows the ElectSG interface after the deletion of the "ClementiUpdated" district. The notification bar and confirmation dialog are no longer present. The "Districts" table now only contains two rows: "Jurong West" and "Jurong East". The sidebar and navigation menu remain the same.

Name	Actions
Jurong West	<button>Update</button> <button>Delete</button>
Jurong East	<button>Update</button> <button>Delete</button>

3.5.5 Searching a District

1. Type in "District name" of the district you want to search in the search box.
2. Click "Search".

The screenshot shows the ElectSG web application. On the left is a red sidebar with navigation links: User Account, User Profile, District, Election Status, Announcement, and Party. The top navigation bar includes Home, About us, and Log out. The main content area is titled "Districts". At the top of this area, there is a search bar containing the text "Jurong East" (labeled with a red "1") and a red "Search" button (labeled with a red "2"). Below the search bar is a table with two columns: "Name" and "Actions".

Name	Actions
Jurong West	Update Delete
Jurong East	Update Delete

You will see the district that you searched.

This screenshot shows the same ElectSG interface after the search. The search bar now contains "Jurong East" and the "Search" button. The table below it now only displays the results for "Jurong East".

Name	Actions
Jurong East	Update Delete

3.6 Announcement

3.6.1 Creating an Announcement

1. Click "Create Announcement" located in the side bar under "Announcement" tab.
2. Fill in appropriate details in respective fields.
3. Click "Publish".

The screenshot shows the 'Create Announcement' interface. On the left sidebar, the 'Create Announcement' option is highlighted with a yellow box and labeled with a red '1'. The main content area is titled 'Create Announcement'. It features a 'Header' field containing the text '3 days left for voting!', a 'Content' text area containing the text 'The end of polling day is getting closer. Please don't forget to vote for the candidate that you support.', and a 'Publish' button at the bottom left, which is highlighted with a red box and labeled with a red '3'. A red '2' is placed next to a bracket indicating the 'Header' and 'Content' fields.

3.6.2 Viewing Announcements

1. Click "View Announcement" located in the sidebar under "Announcement" tab. Then, you can see a list of created announcements with the header.
2. Click "View" on the announcement that you want to view more.

ElectSG Home About us Log out

Announcements

Header	Actions
Announcement 1	View Update Delete
3 days left for voting!	View Update Delete

Left Sidebar: User Account, User Profile, District, Election Status, Announcement, Create Announcement, [View Announcement](#), Party

You can see the detailed content of the announcement that you selected.

ElectSG Home About us Log out

3 days left for voting!

The end of polling day is getting closer. Please don't forget to vote for the candidate that you support.

[Update](#) [Delete](#)

Left Sidebar: User Account, User Profile, District, Election Status, Announcement, Party

3.6.3 Updating an Announcement

1. Click “Update” on the announcement that you want to update.

ElectSG

Home About us Log out

Announcements

Header	Actions
Announcement 1	View Update Delete
3 days left for voting!	View Update Delete

2. Update the field you want to update.

3. Click “Save Changes”.

As an example, I updated the header from “3 days left for voting!” to “7 days left for voting!”.

ElectSG

Home About us Log out


Edit Announcement

Header: 7 days left for voting!

Content: The end of polling day is getting closer. Please don't forget to vote for the candidate that you support.

Save changes

After updating, you will be redirected to “View Announcement” page, and you can see the header of the announcement has been updated.

ElectSG

HomeAbout usLog out

User AccountUser ProfileDistrictElection StatusAnnouncementParty

Announcements

Header	Actions
Announcement 1	View Update Delete
7 days left for voting!	View Update Delete

3.6.4 Deleting an Announcement

1. Click “Delete” on the announcement you want to delete.
2. Click “OK”.

The screenshot shows the ElectSG web application interface. On the left is a red sidebar with navigation links: User Account, User Profile, District, Election Status, Announcement, and Party. The main content area has a top navigation bar with 'Home', 'About us', and 'Log out'. A dark confirmation dialog is open, asking 'Are you sure you want to delete this announcement?' with 'Cancel' and 'OK' buttons. The 'OK' button is highlighted with a red box and a red number '2'. Below the dialog is a table with two columns: 'Header' and 'Actions'.

Header	Actions
Announcement 1	View Update Delete
7 days left for voting!	View Update Delete

The 'Delete' button in the second row of the table is highlighted with a red box and a red number '1'.

You will see that the announcement has been deleted.

The screenshot shows the ElectSG web application interface after the announcement has been deleted. The sidebar and top navigation bar are the same. The main content area now has a heading 'Announcements' above a table with two columns: 'Header' and 'Actions'.

Header	Actions
Announcement 1	View Update Delete

3.7 Election Party

3.7.1 Creating a Party

1. Click "Create Party" located in the side bar under "Party" tab.
2. Fill in party name.
3. Click "Create".

ElectSG

Home About us Log out

User Account

User Profile

District

Election Status

Announcement

Party

Create Party 1

View Party

Create Party

Party: Dummy Party 2

Create 3

3.7.2 Viewing Parties

1. Click “View Party” located in the sidebar under “Party” tab. Then, you can see a list of created parties.

ElectSG

Home About us Log out

User Account

User Profile

District

Election Status

Announcement

Party

Create Party

View Party 1

Parties

Party	Actions
party 2	Update Delete
Dummy Party	Update Delete

3.7.3 Updating a Party

1. Click “Update” on the party that you want to update.

Parties

Party	Actions
party 2	Update Delete
Dummy Party	Update Delete

2. Update the party name.

3. Click “Save Changes”.


As an example, I updated the party name from “Dummy Party” to “Freedom Party”.

Edit Party

Party:

[Save changes](#)

After updating, you will be redirected to “View Party” page, and you can see the name of the party has been updated.

ElectSG

HomeAbout usLog out

User AccountUser ProfileDistrictElection StatusAnnouncementParty

Parties

Party	Actions
party 2	<button>Update</button> <button>Delete</button>
Freedom Party	<button>Update</button> <button>Delete</button>

3.7.4 Deleting a Party

1. Click “Delete” on the party you want to delete.
2. Click “OK”.

The screenshot shows the ElectSG web application. On the left is a sidebar with navigation links: User Account, User Profile, District, Election Status, Announcement, and Party. The main content area displays a confirmation dialog box at the top with the text "0.0.0.0:8000 says Are you sure you want to delete this party?" and buttons for "Cancel" and "OK". The "OK" button is highlighted with a red box and a red number "2". Below the dialog is a table with two columns: "Party" and "Actions".

Party	Actions
party 2	Update Delete
Freedom Party	Update Delete

The "Delete" button for "Freedom Party" is highlighted with a red box and a red number "1".

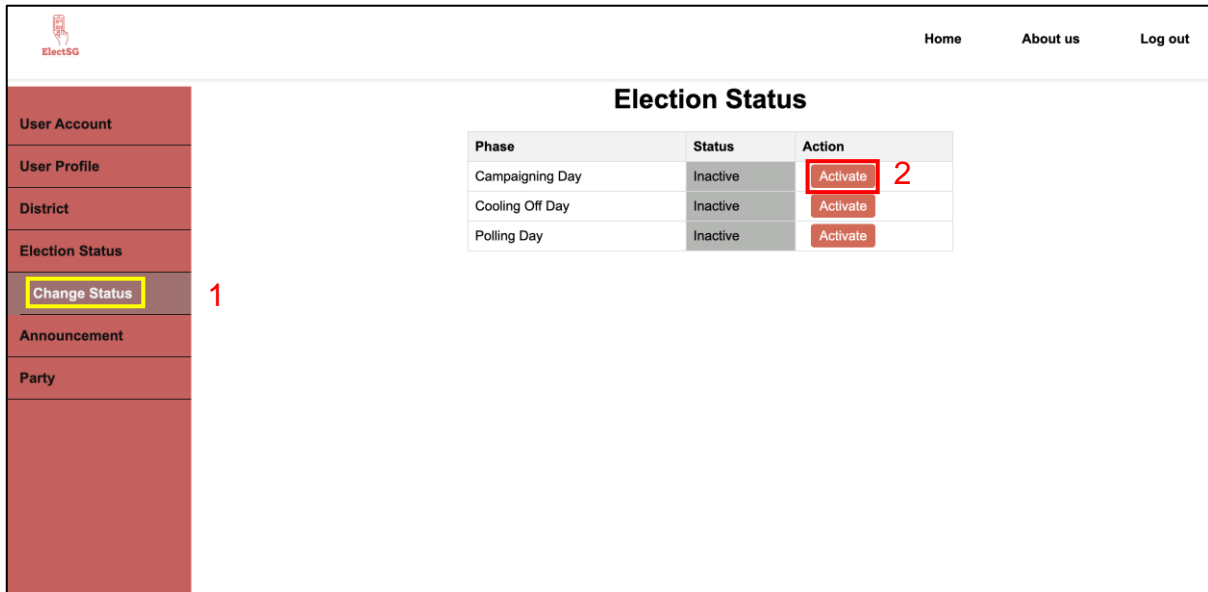
You will see that the party has been deleted.

The screenshot shows the ElectSG web application after the deletion of the "Freedom Party". The sidebar remains the same. The main content area now has a heading "Parties" above a table with two columns: "Party" and "Actions".

Party	Actions
party 2	Update Delete

3.8 Changing Election Phase

1. Click "Change Status" located in the side bar under "Election Status" tab.
2. Click "Activate" on the phase you want to activate.



ElectSG Home About us Log out

Election Status

Phase	Status	Action
Campaigning Day	Inactive	Activate 2
Cooling Off Day	Inactive	Activate
Polling Day	Inactive	Activate

1

User Account

User Profile

District

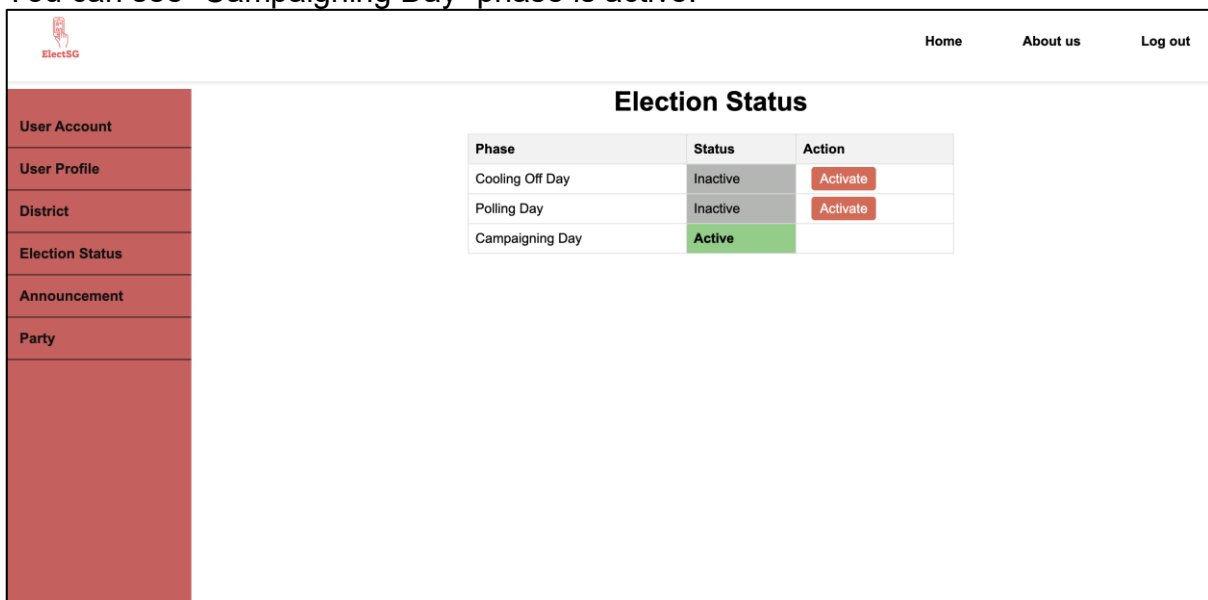
Election Status

Change Status

Announcement

Party

You can see “Campaigning Day” phase is active.



ElectSG Home About us Log out

Election Status

Phase	Status	Action
Cooling Off Day	Inactive	Activate
Polling Day	Inactive	Activate
Campaigning Day	Active	

User Account

User Profile

District

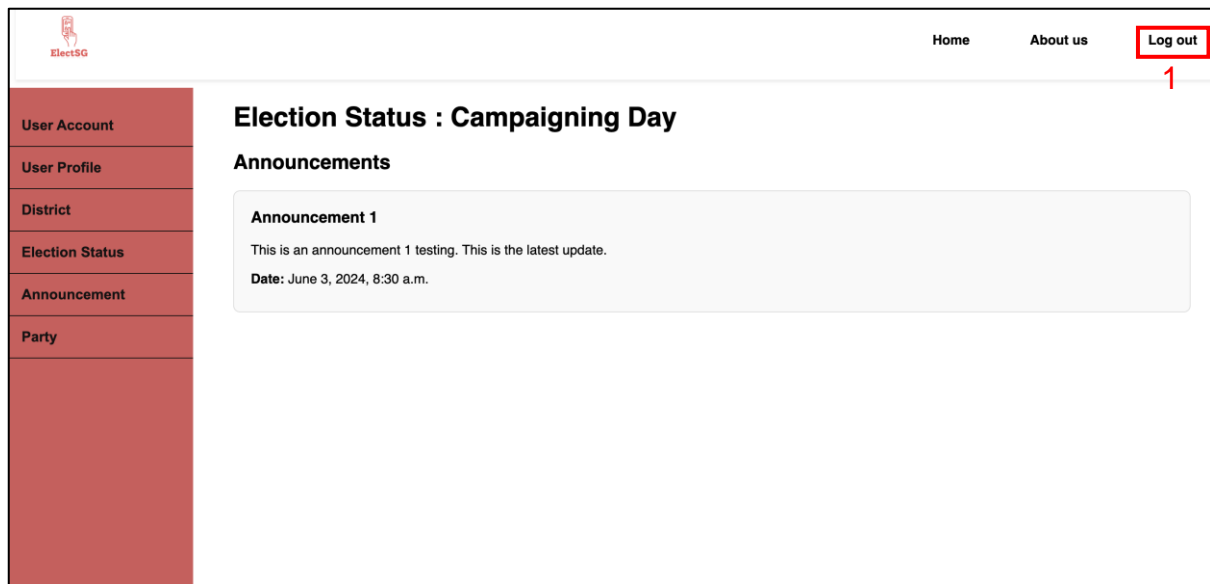
Election Status

Announcement

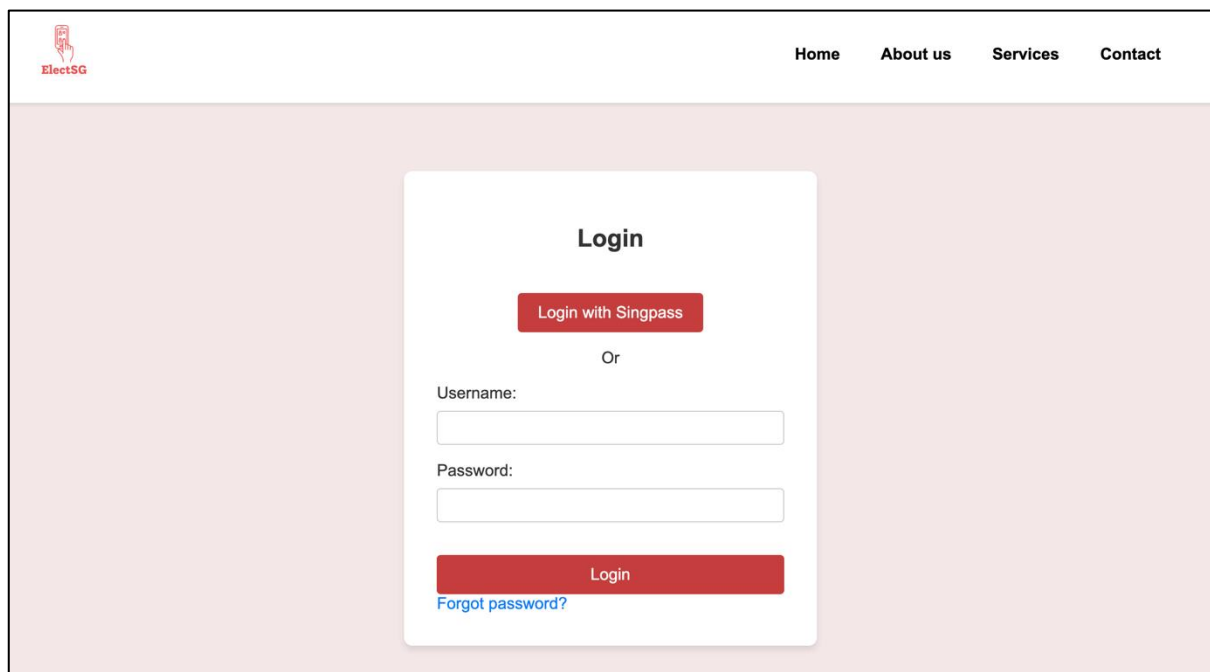
Party

3.9 Admin Log out

1. Click “Log out”.



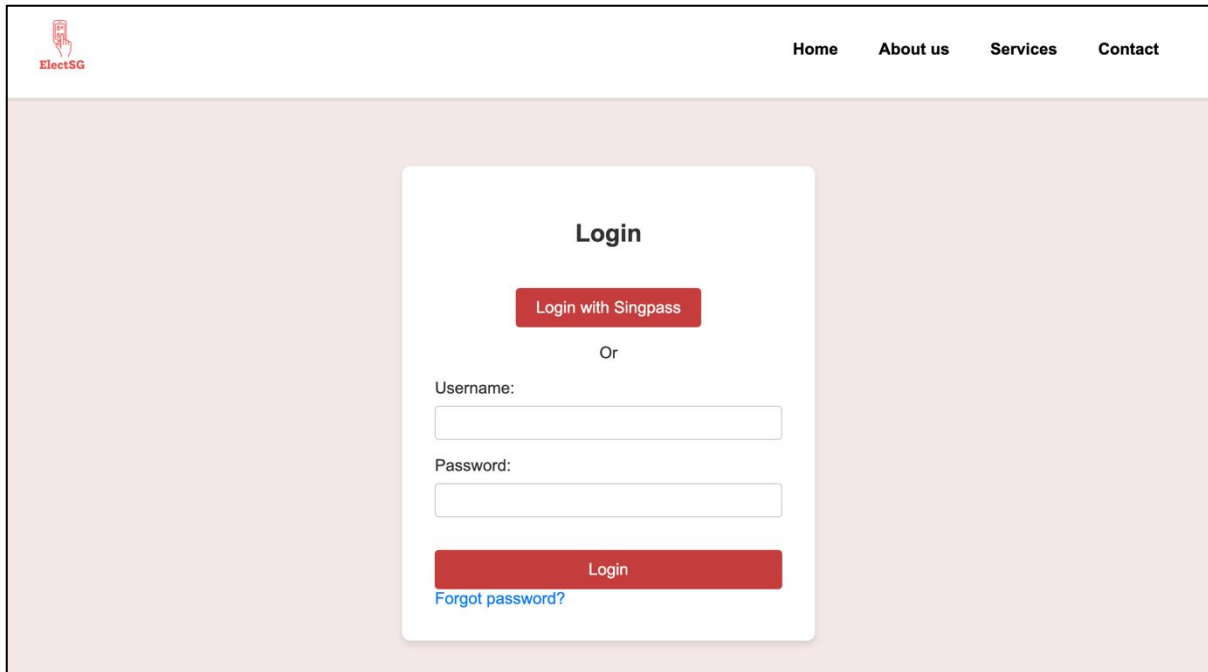
User will be redirected to log in page.



3. Using ElectSG as Candidate

3.1 Candidate Log in

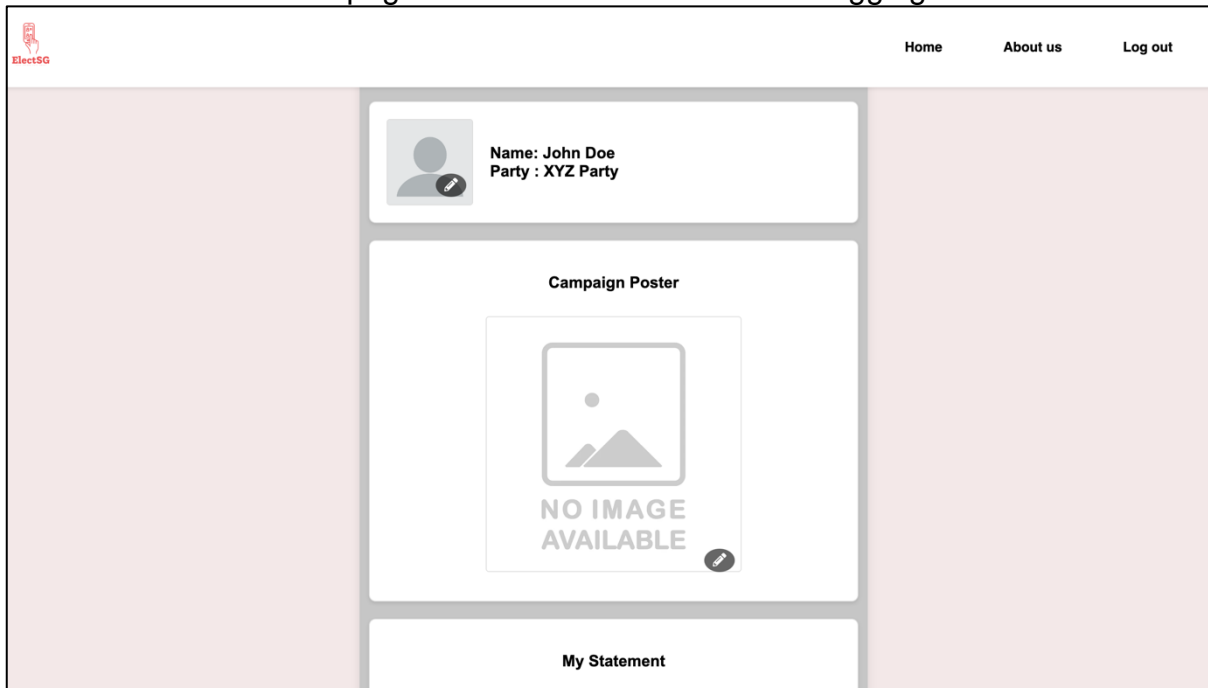
1.Fill in Username and Password. Then click “Login”.



The screenshot shows the ElectSG Login page. At the top left is the ElectSG logo. At the top right are navigation links: Home, About us, Services, and Contact. The main content area has a light pink background. In the center is a white login card. The card has the title "Login" in bold. Below the title is a red button labeled "Login with Singpass". Underneath is the word "Or". Then there are two input fields: "Username:" and "Password:". Below these is a red button labeled "Login". At the bottom of the card is a blue link labeled "Forgot password?".

3.2 Candidate Interface

This is Candidate Homepage that candidate will see after logging in.



The screenshot shows the ElectSG Candidate Interface. At the top left is the ElectSG logo. At the top right are navigation links: Home, About us, and Log out. The main content area has a light pink background. In the center is a white card. The card has a profile picture placeholder (a grey circle with a pencil icon) and the text "Name: John Doe" and "Party : XYZ Party". Below this is a section titled "Campaign Poster" which contains a placeholder for a campaign poster (a square with a mountain icon and the text "NO IMAGE AVAILABLE" and a pencil icon). At the bottom of the card is a section titled "My Statement".

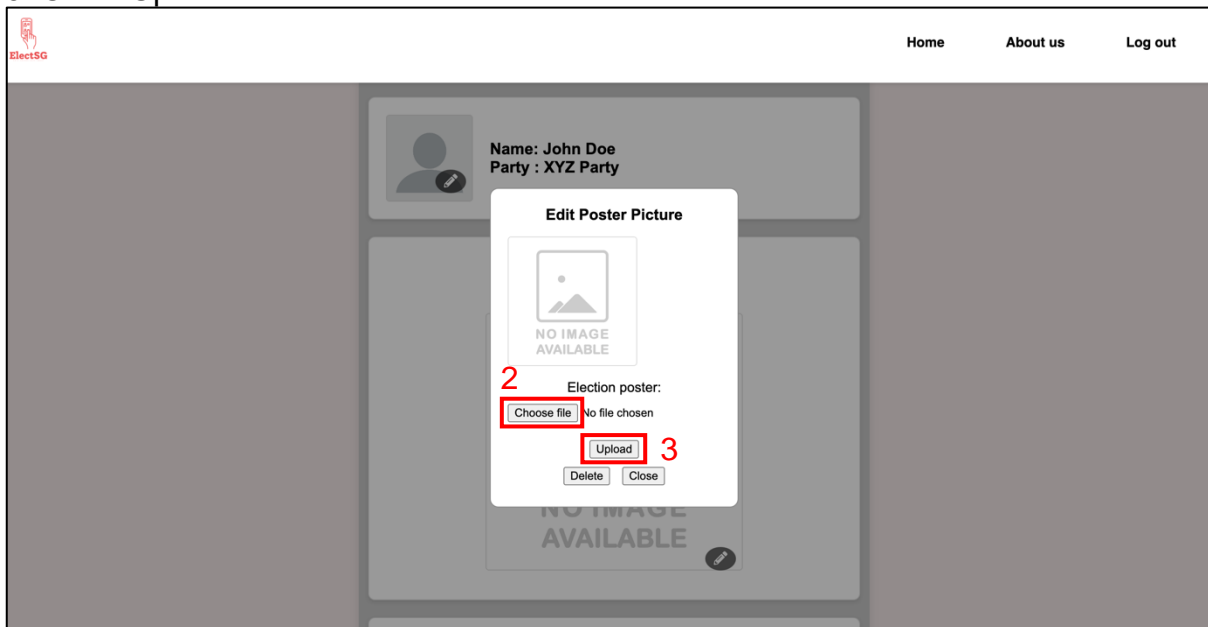
4.3 Election Poster

4.3.1 Uploading a Poster

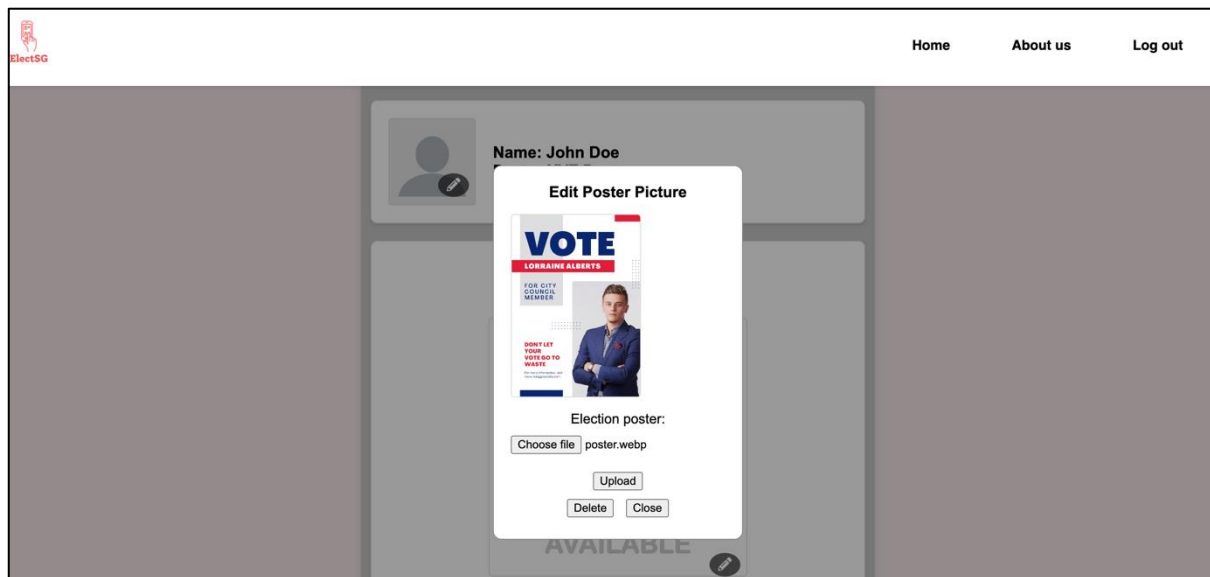
1. Click "Upload" button.



2. Click “Choose File” and pick your preference poster to upload.
3. Click “Upload”.

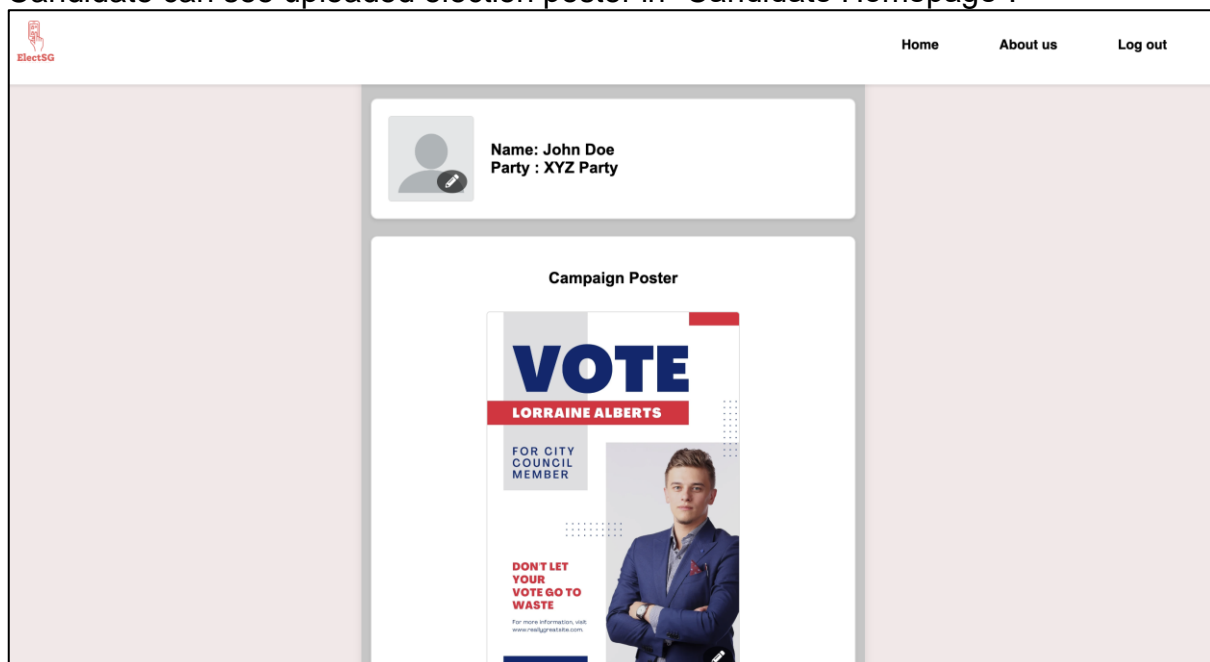


Here, I uploaded a sample poster as an example.



4.3.2 Viewing a Poster

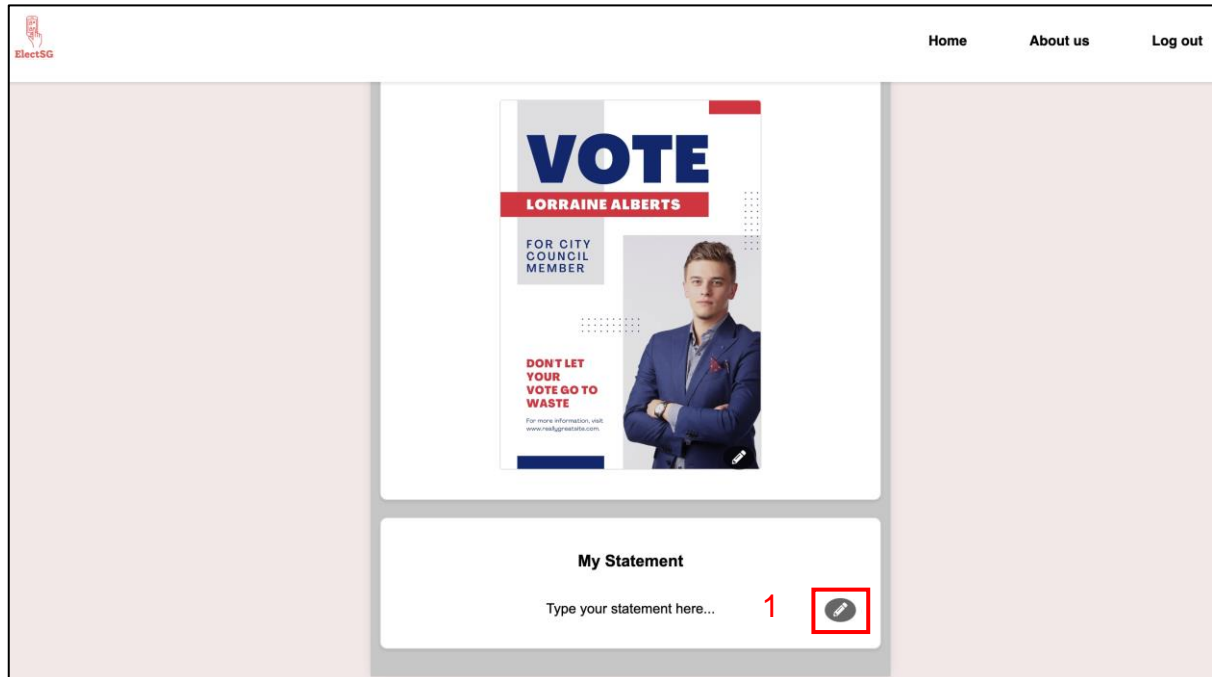
Candidate can see uploaded election poster in “Candidate Homepage”.



4.4 Candidate Statement

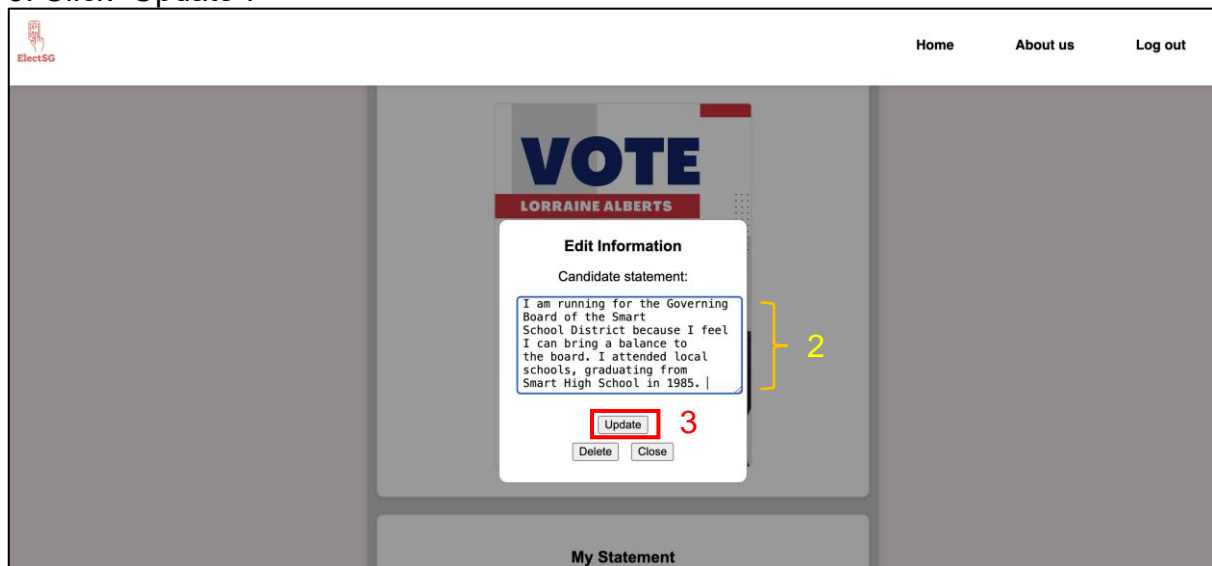
4.4.1 Editing a Statement

1. Click “Edit” button.



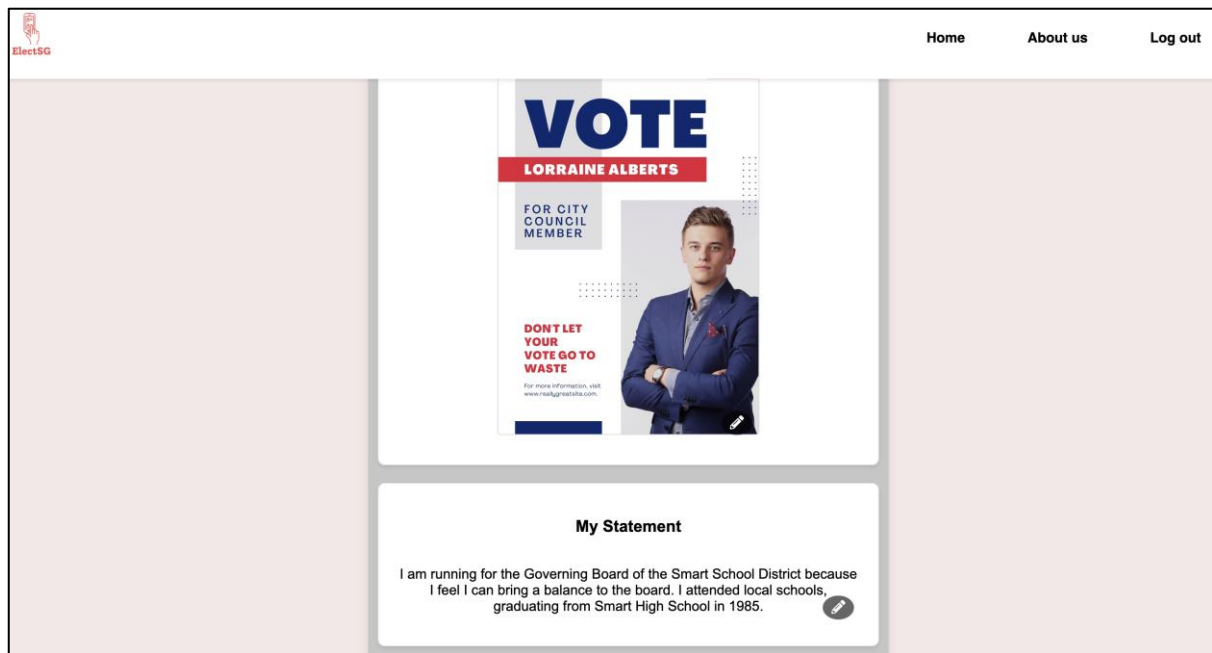
2. Fill in candidate statement.

3. Click “Update”.



4.4.2 Viewing a Statement

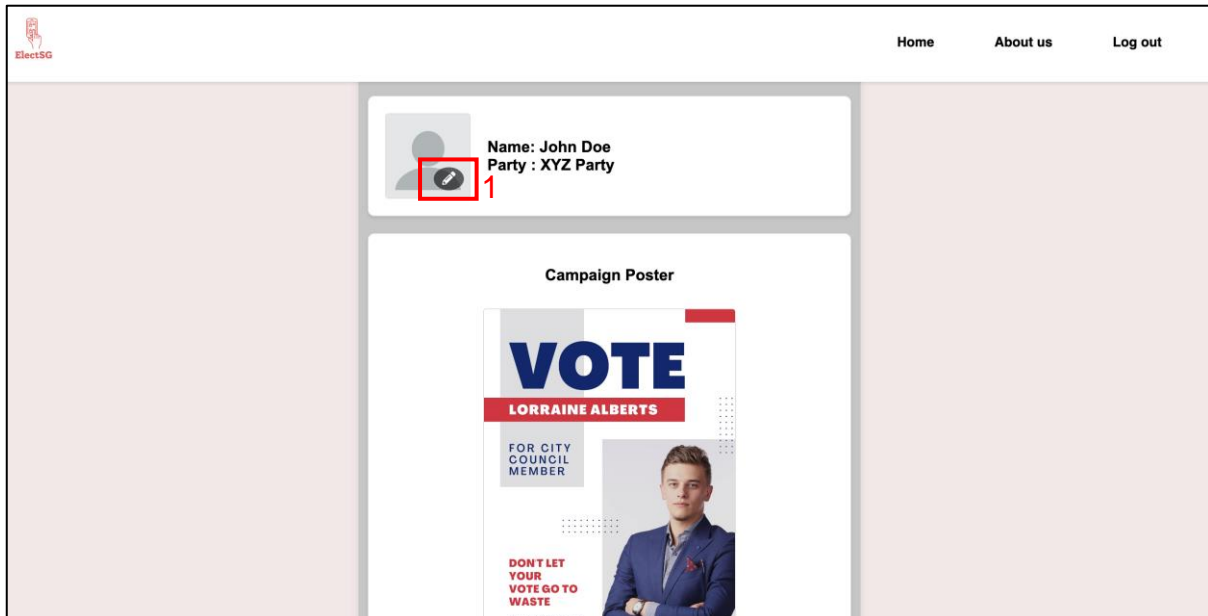
Candidate can see uploaded candidate statement in “Candidate Homepage”.



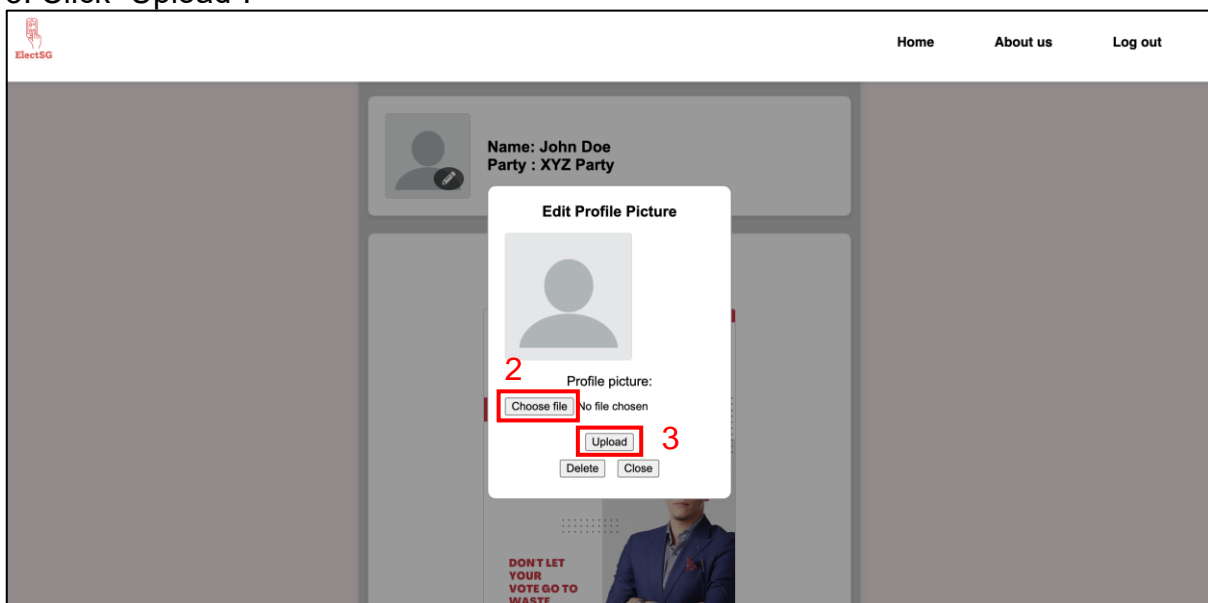
4.5 Profile Picture

4.5.1 Uploading a Profile Picture

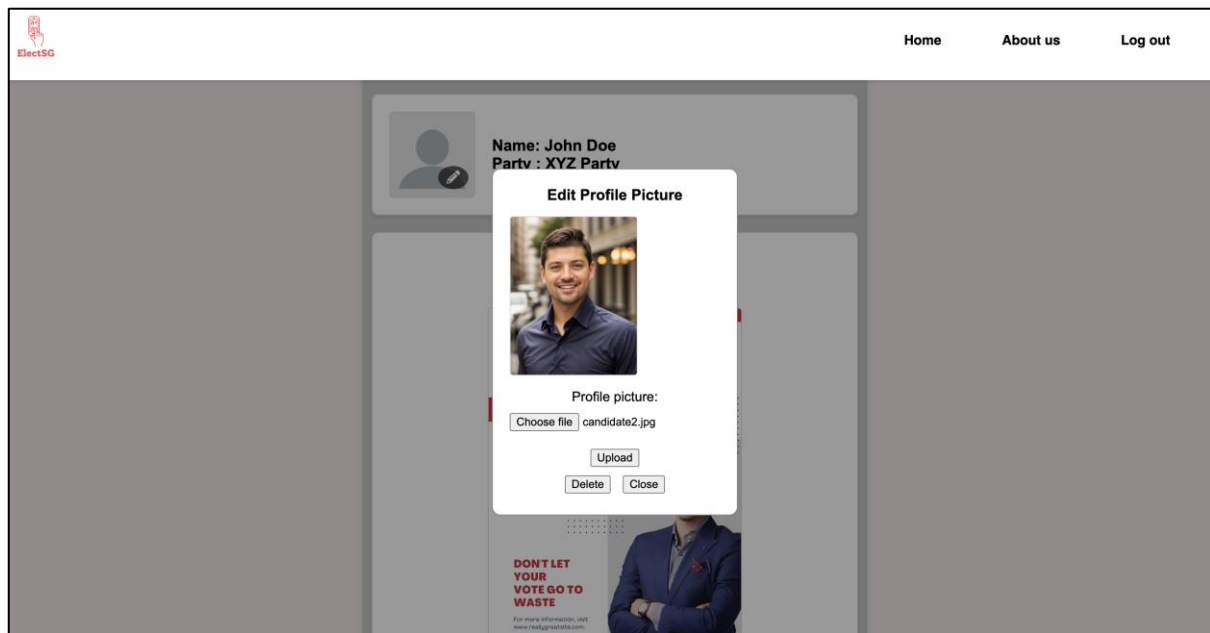
1. Click "Upload" button.



2. Click "Choose File" and pick your preference profile picture to upload.
3. Click "Upload".

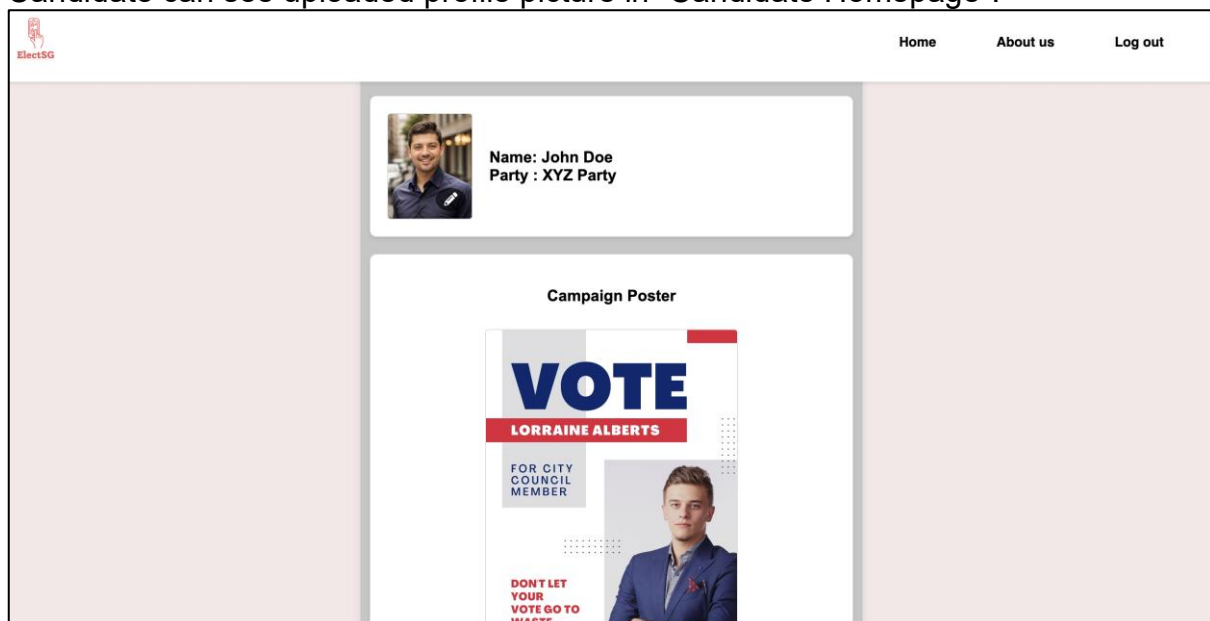


Here, I uploaded a sample profile picture as an example.



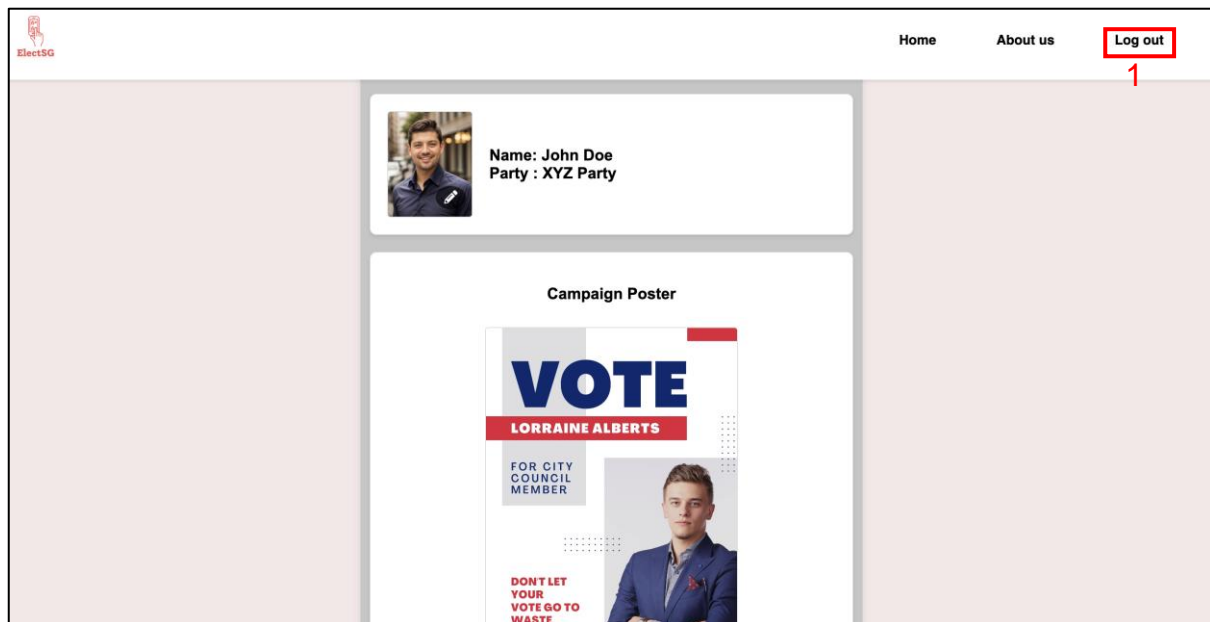
4.5.2 Viewing a Profile Picture

Candidate can see uploaded profile picture in “Candidate Homepage”.

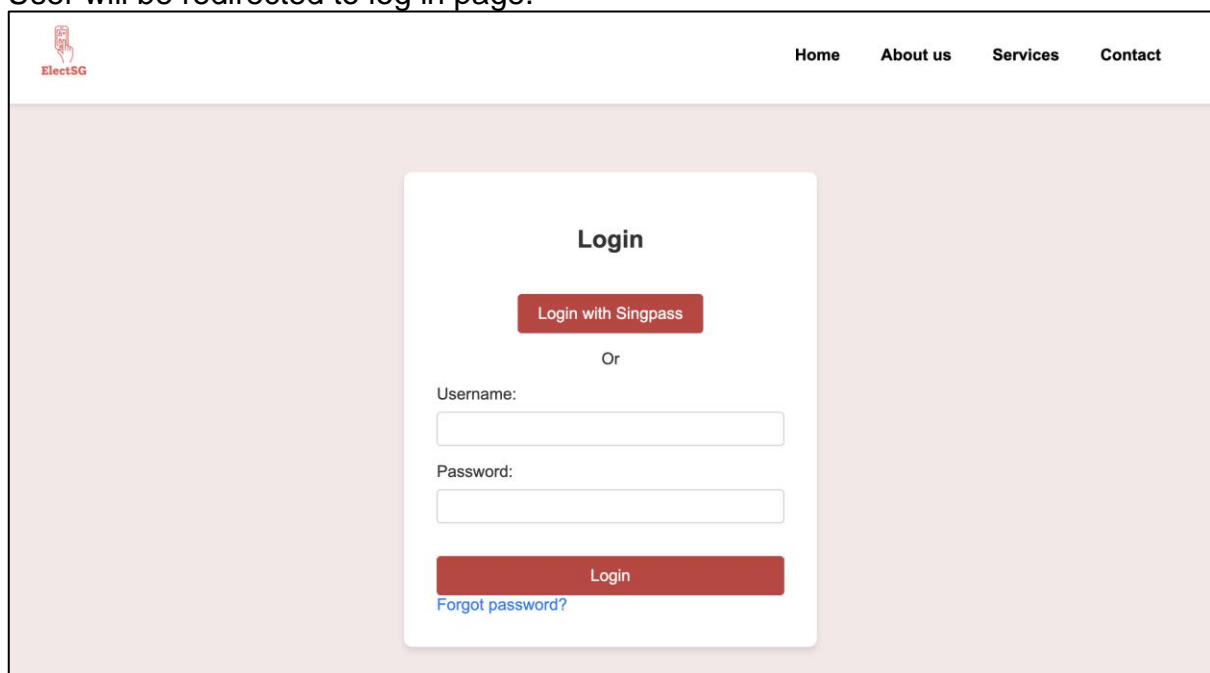


4.6 Candidate Log out

1. Click “Log out”.



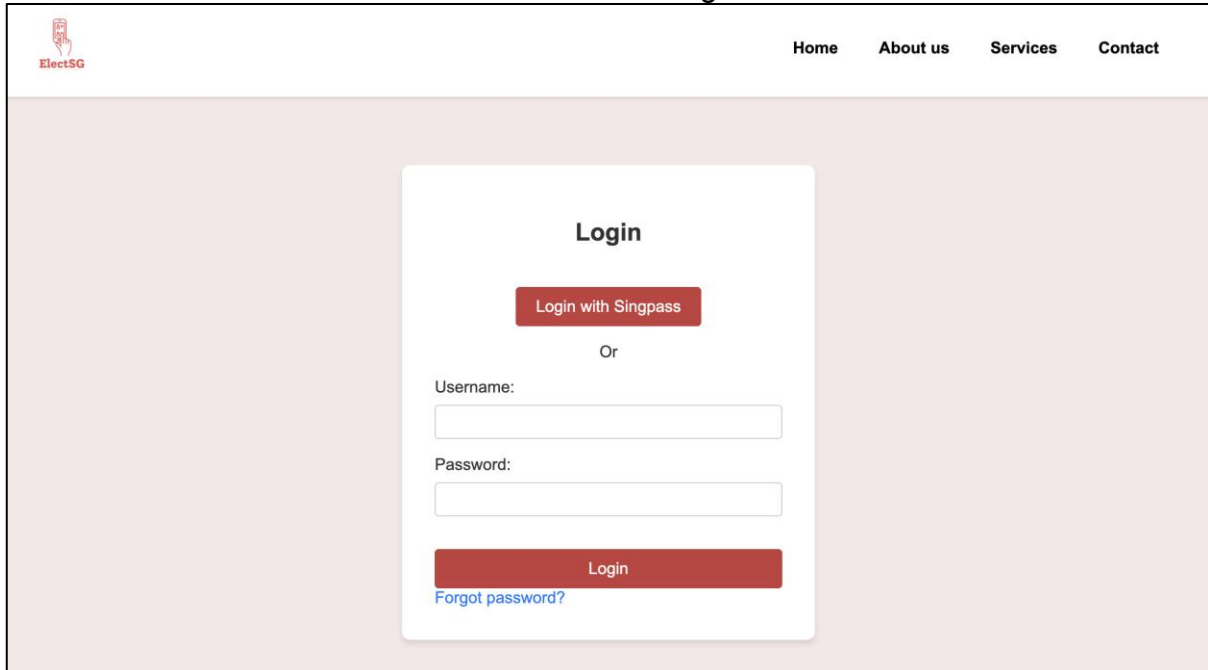
User will be redirected to log in page.



4. Using ElectSG as Voter

4.1 Voter Log in

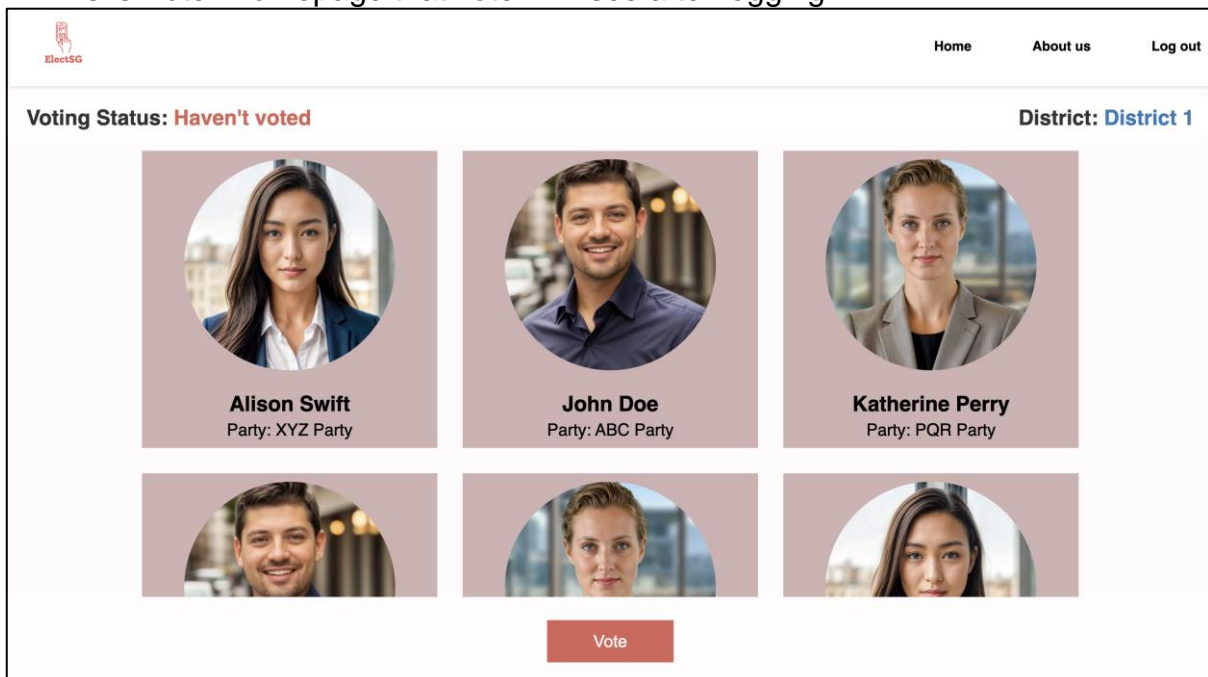
1. Fill in Username and Password. Then click “Login”.



The screenshot shows the ElectSG login interface. At the top left is the ElectSG logo. The top navigation bar includes links for Home, About us, Services, and Contact. The main content area features a white login card centered on a light pink background. The card has the title 'Login' and a red button labeled 'Login with Singpass'. Below this is the text 'Or' followed by input fields for 'Username:' and 'Password:'. A red 'Login' button is at the bottom of the card, with a blue link 'Forgot password?' underneath it.

4.2 Voter Interface

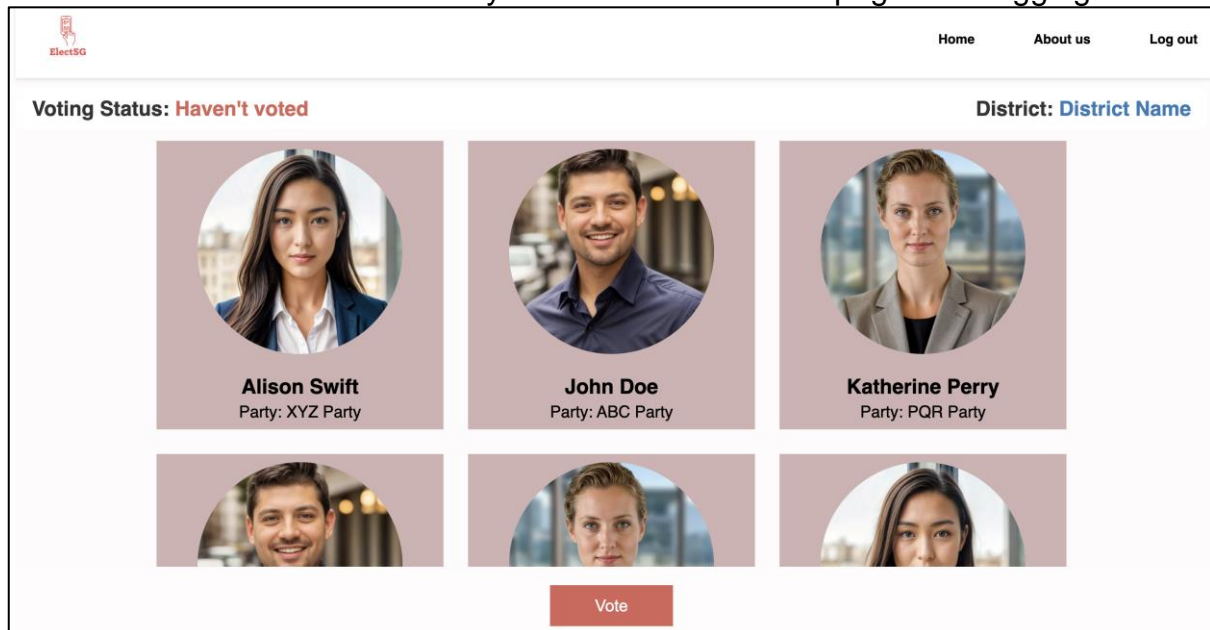
1. This is Voter Homepage that voter will see after logging in.



The screenshot shows the ElectSG voter homepage. The top navigation bar includes links for Home, About us, and Log out. The main content area displays the 'Voting Status: Haven't voted' and the 'District: District 1'. Below this, there are six circular portraits of candidates arranged in two rows of three. The first row shows Alison Swift (Party: XYZ Party), John Doe (Party: ABC Party), and Katherine Perry (Party: PQR Party). The second row shows the same three candidates in a different order. A red 'Vote' button is centered at the bottom of the page.

4.3 Viewing Candidates

You can see all the candidates in your district in the home page after logging in.



4.4 Casting Vote

1. Click "Vote".

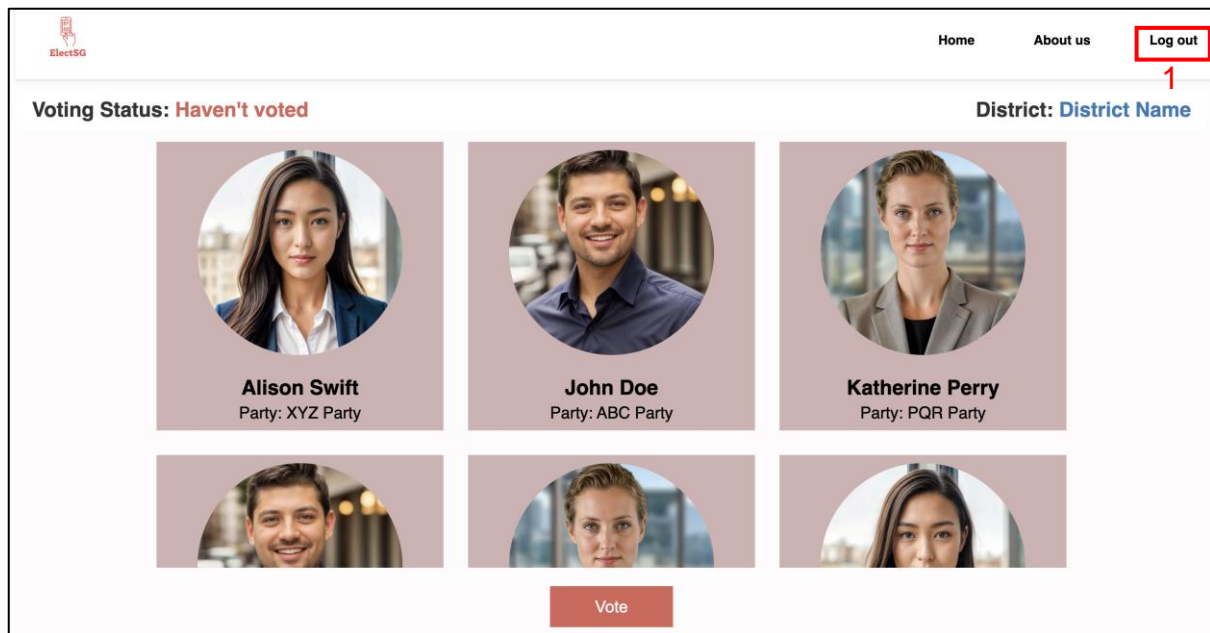
The screenshot shows the ElectSG voting interface. At the top, there is a navigation bar with the ElectSG logo, 'Home', 'About us', and 'Log out' links. Below the navigation bar, the 'Voting Status' is 'Haven't voted' and the 'District' is 'District Name'. The main area displays six candidate portraits in a 2x3 grid. The first row shows Alison Swift (XYZ Party), John Doe (ABC Party), and Katherine Perry (PQR Party). The second row shows three more portraits, but they are partially obscured. A red box highlights a 'Vote' button at the bottom center, with a red number '1' next to it.

2. Choose Candidate or Candidates to vote.
3. Click "Submit".

The screenshot shows the ElectSG digital ballot paper. At the top, there is a navigation bar with the ElectSG logo, 'Home', 'About us', and 'Log out' links. Below the navigation bar, the title 'Digital Ballot Paper' is centered. The main area displays a ballot box with three rows, each showing a candidate portrait and a checkbox. All three rows show the same candidate, Alison Swift, and the checkbox is labeled 'XYZ Party'. A red box highlights a 'Submit' button at the bottom center, with a red number '3' next to it. A red number '2' is also present, with a bracket indicating the three rows of the ballot box.

4.5 Voter Log out

1. Click "Log out".



User will be redirected to log in page.

