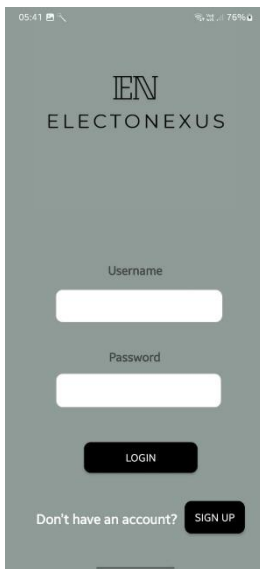# ELECTONEXUS

- ElectoNexus is an online voting platform designed to make elections easier, more accessible and cost-effective for communities.

- ElectoNexus is committed to supporting the Sustainable Development Goal of Sustainable Communities. By empowering communities to run their own elections, we're helping them govern themselves effectively.

- ElectoNexus brings all the essential election features together in one place. Unlike other solutions, everything you need is organized neatly, making the election process smooth and straightforward.

# DEVELOPMENT

- The application is developed by using Kotlin, the programming language recommended by Google for Android.

- Google's Firebase has been used in development. By using Firebase's Realtime Database, a NoSQL database, updates are displayed in real-time, thus making the app smoother

- The app primarily has 3 modules, listed below.

# ACCOUNTS

- Users can sign up for two kinds of accounts
  - Admin
  - Voter
- Admin accounts are used for starting elections
- Users with Voter accounts can participate in multiple elections
- The Login page automatically distinguishes between Admin and Voter and opens their respective dashboards



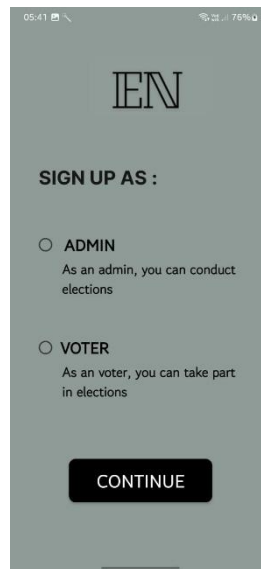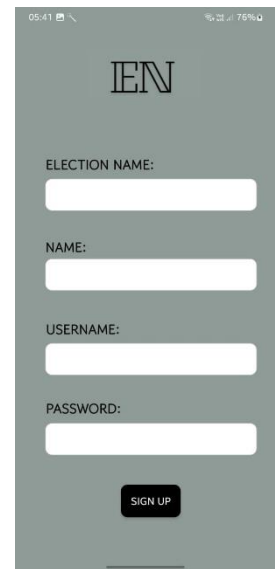| Login Page | Account Type | Voter Sign up | Admin Sign Up |

# ELECTION PROCESS

- Admin creates an account by providing the name of the election and a distinct username and password

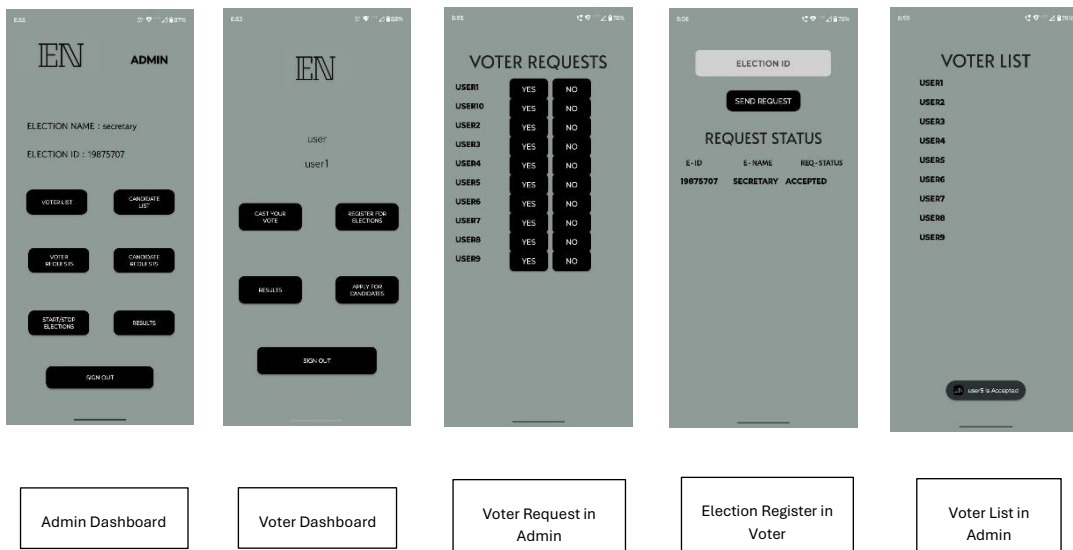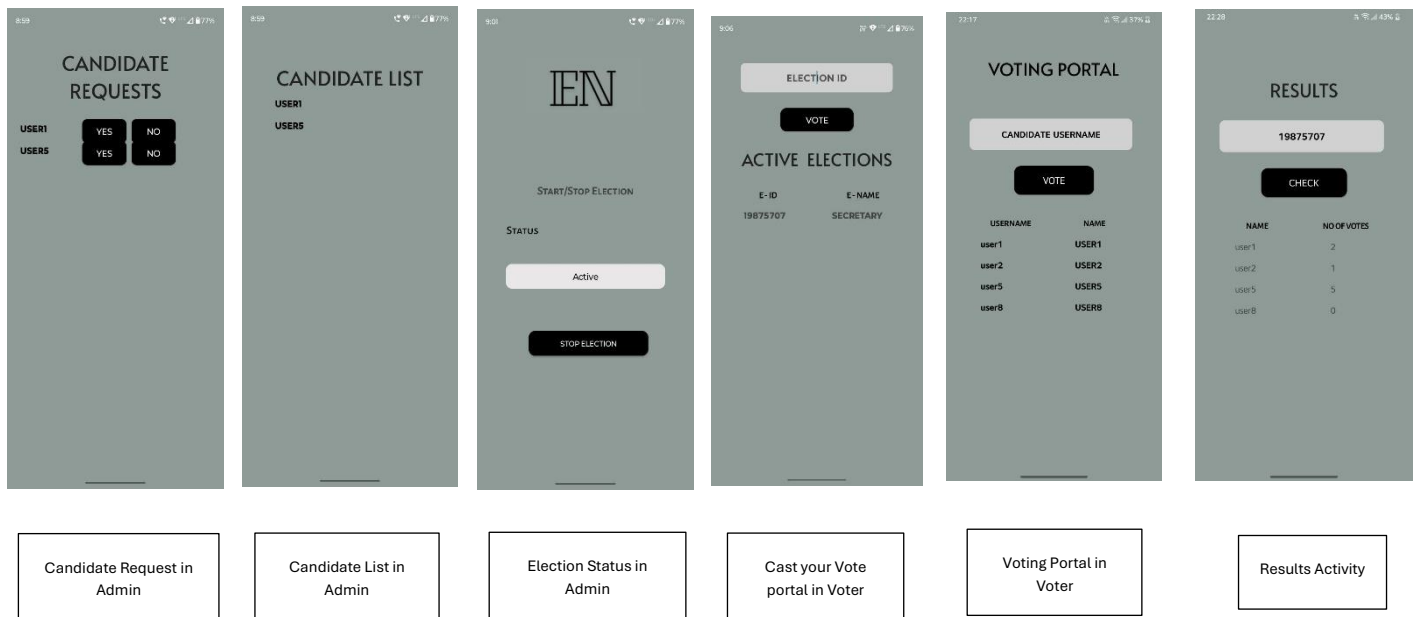- Election ID number is a 8 digit number automatically generated by the application which is unique for every election.

- Voters can create their account by using a distinct username and password.

- Voters can request to join the elections by requesting the admin to join the voting process which the admin can accept to let them join the election.

- Existing Voters can be viewed by the Admin in the Voters List menu

- Request Status can be viewed by the Voters in the register for election menu



| Admin Dashboard | Voter Dashboard | Voter Request in Admin | Election Register in Voter | Voter List in Admin |

- Among the existing voters, some voters can send in nomination requests to run as candidate.
- These requests can be accepted by the admin which adds them to the candidate list
- Even candidates can participate in the election.

## TO START THE ELECTION

- Admin can start the election which changes its status to active
- In cast your vote activity, users can see active registered elections and enter its EID to enter the vote portal.
- All candidate names and usernames are displayed in the voting portal.
- By entering the candidate's username and clicking the VOTE button, their vote gets registered.
- After the election time, the admin can stop the election upon which the results are released.
- The results of the elections can be viewed by the voters in the results activity.

| Candidate Request in Admin | Candidate List in Admin | Election Status in Admin | Cast your Vote portal in Voter | Voting Portal in Voter | Results Activity |

# TEAM MEMBERS

Below mentioned are the team members and their contributions

Jakka Anirudh Reddy

- Spearheaded Backend development

K. Sri Saya Sandeep

- Connected the app to Firebase Realtime Database

S. Sri Nithish Goud

- Designed all frontend panels for Login and Sign Up and helped in connecting backend with frontend

Sathvik Pilyanam

- Designed all frontend panels for the admin module and helped in connecting backend with frontend

Rohith Venkat Mutyala

- Designed all frontend panels for the Voter module and helped in connecting backend with frontend

Laxmi Narasimha

- Designed the entire app layout on Figma and helped in frontend development