



VOTING WEB APPLICATION USING DJANGO



edunet
foundation

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ABSTRACT:

The proposed voting application is a web-based platform that allows users to create and participate in online votes. The application is built using the Django framework, a popular and well-supported Python-based web framework that provides a robust foundation for building scalable and secure web applications . The application is also designed to be flexible and scalable, with a modular architecture that allows for easy customization and extension. This makes it suitable for a wide range of use cases, from small-scale internal votes to large-scale public elections . Overall, the proposed voting application is a secure, user-friendly, and flexible platform for conducting online votes. Its use of the Django framework ensures a robust and scalable foundation, while its focus on security and user experience makes it an ideal choice for a wide range of voting scenarios.

Problem Statement:

- ▶ Online voting has become increasingly popular in recent years, with a growing number of organizations and governments turning to digital platforms to conduct elections and polls. However, online voting also presents a number of challenges, particularly in terms of security and integrity . Overall, the proposed voting application will address the challenges of security and integrity in online voting, while also providing a user-friendly platform for conducting online votes. Its use of the Django framework will ensure a robust and scalable foundation, while its focus on security and user experience will make it an ideal choice for a wide range of voting scenarios.
- ▶ In addition to its focus on security, the application will also prioritize user experience, with a clean and intuitive interface that makes it easy for users to create and participate in votes. The application will support multiple types of votes, including single-choice and multiple-choice votes, and will allow users to set deadlines and restrictions for each vote.

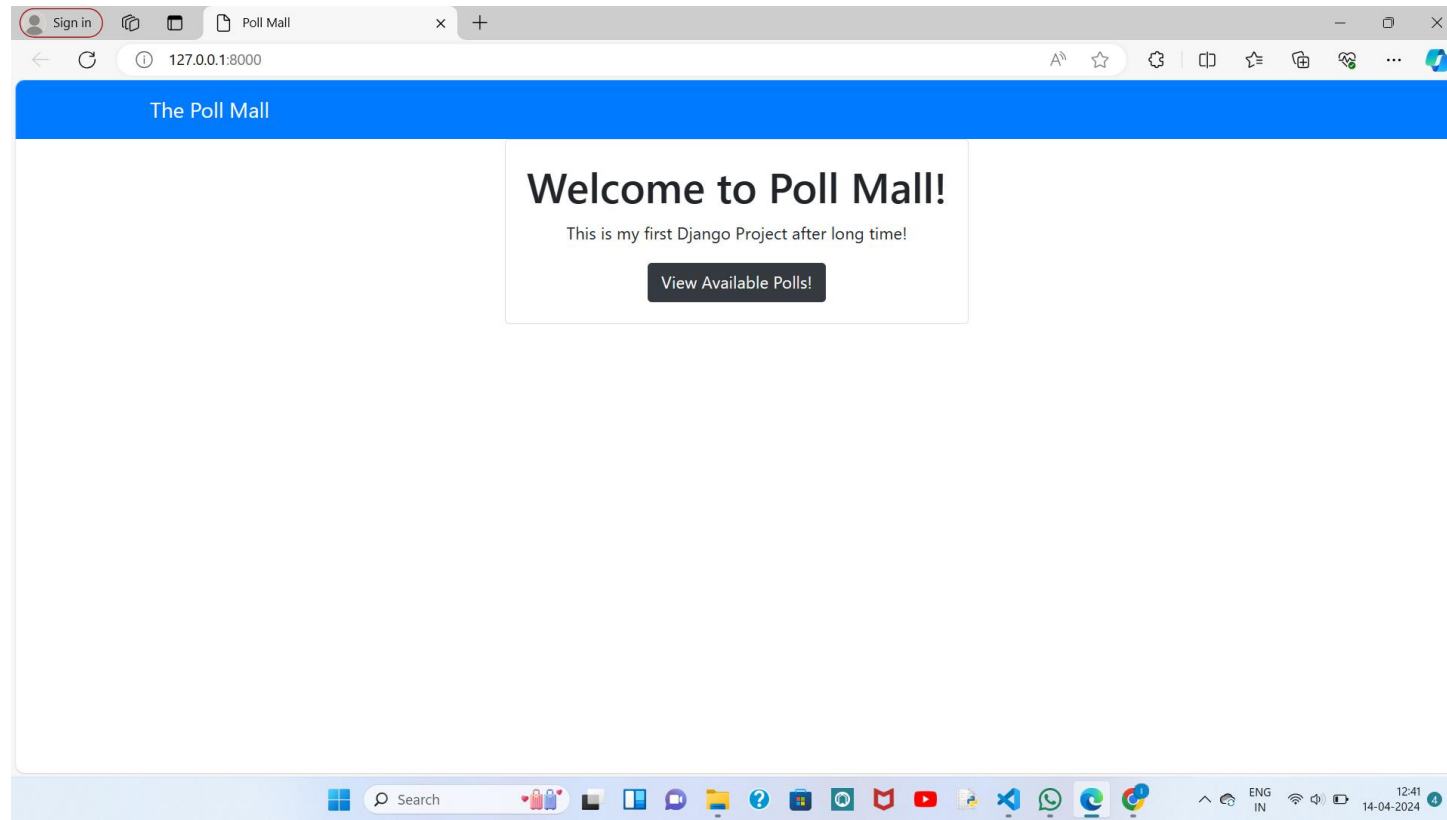
Project overview

- ▶ The project overview for a voting application using the Django framework involves creating a secure and user-friendly online voting system. The application allows users to register, vote, and view real-time results. Here is a steps involved in building the voting application:
- 1. **Setting up a Django Project:** Create a Django project to serve as the foundation for the voting application.
- 2. **Designing the Database Schema:** Define the database structure to store user information, votes, and other relevant data.
- 3. **Creating User Authentication:** Implement user authentication to allow users to register, log in, and participate in voting.
- 4. **Building the Voting Interface:** Develop the interface where users can view options, select their choices, and submit votes.
- 5. **Implementing Real-time Results:** Display the voting results dynamically to provide instant feedback to users.
- 6. **Developing an Admin Panel:** Build an admin panel to manage the voting process, candidates, and user accounts effectively.

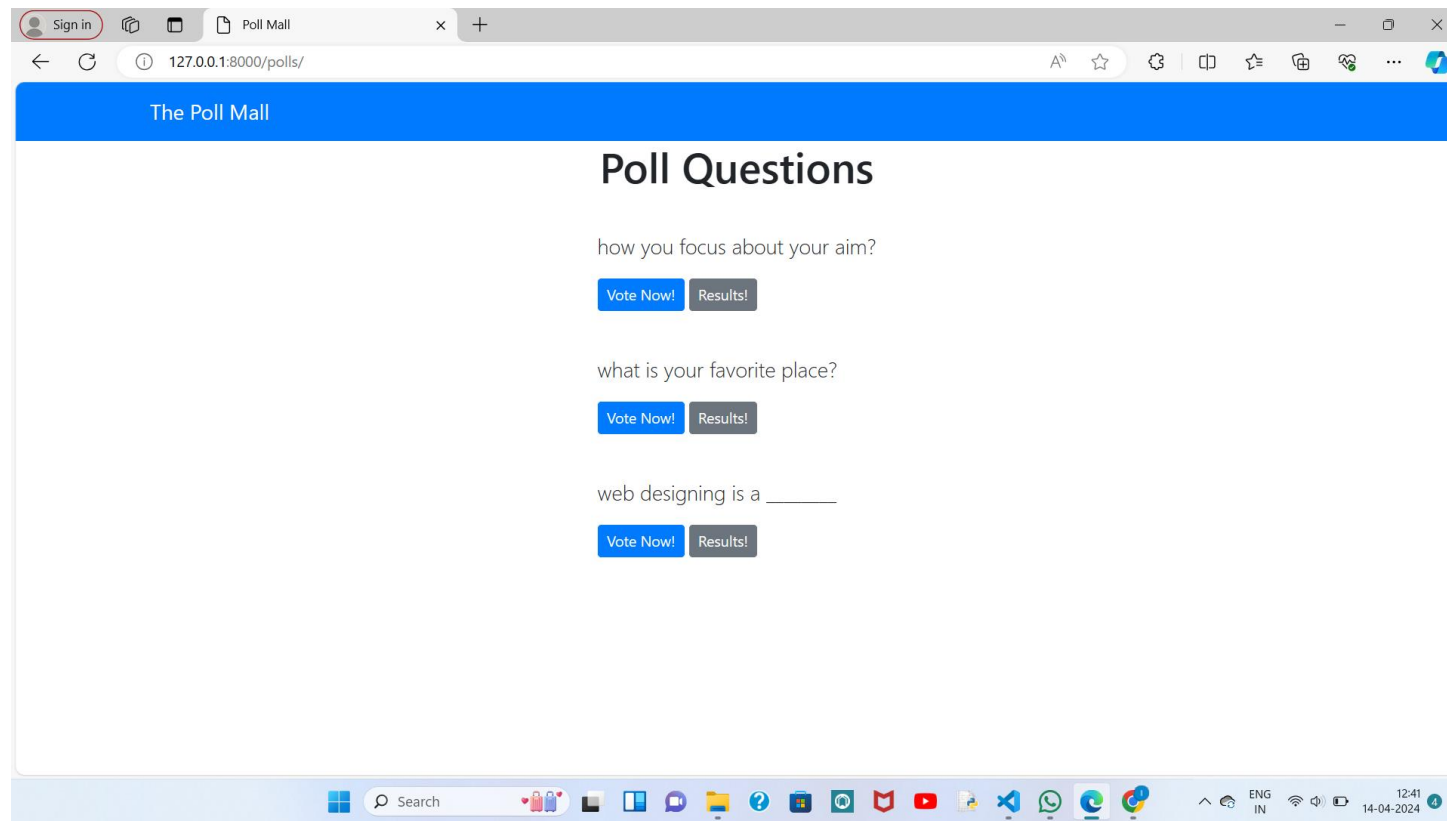
Proposed solution:

- ▶ The proposed solution for a voting application using the Django framework is to create a secure and user-friendly online voting platform. The application will allow users to register, vote, and view real-time results . To build the application, the Django framework will be used as the foundation due to its robustness and scalability. The application will have a user-friendly interface, a secure database, real-time results, and an admin panel for efficient management of elections, candidates, and user accounts. In summary, the proposed solution for a voting application using the Django framework is a secure, user-friendly, and flexible platform for conducting online votes. Its use of the Django framework ensures a robust and scalable foundation, while its focus on security and user experience makes it an ideal choice for a wide range of voting scenarios.

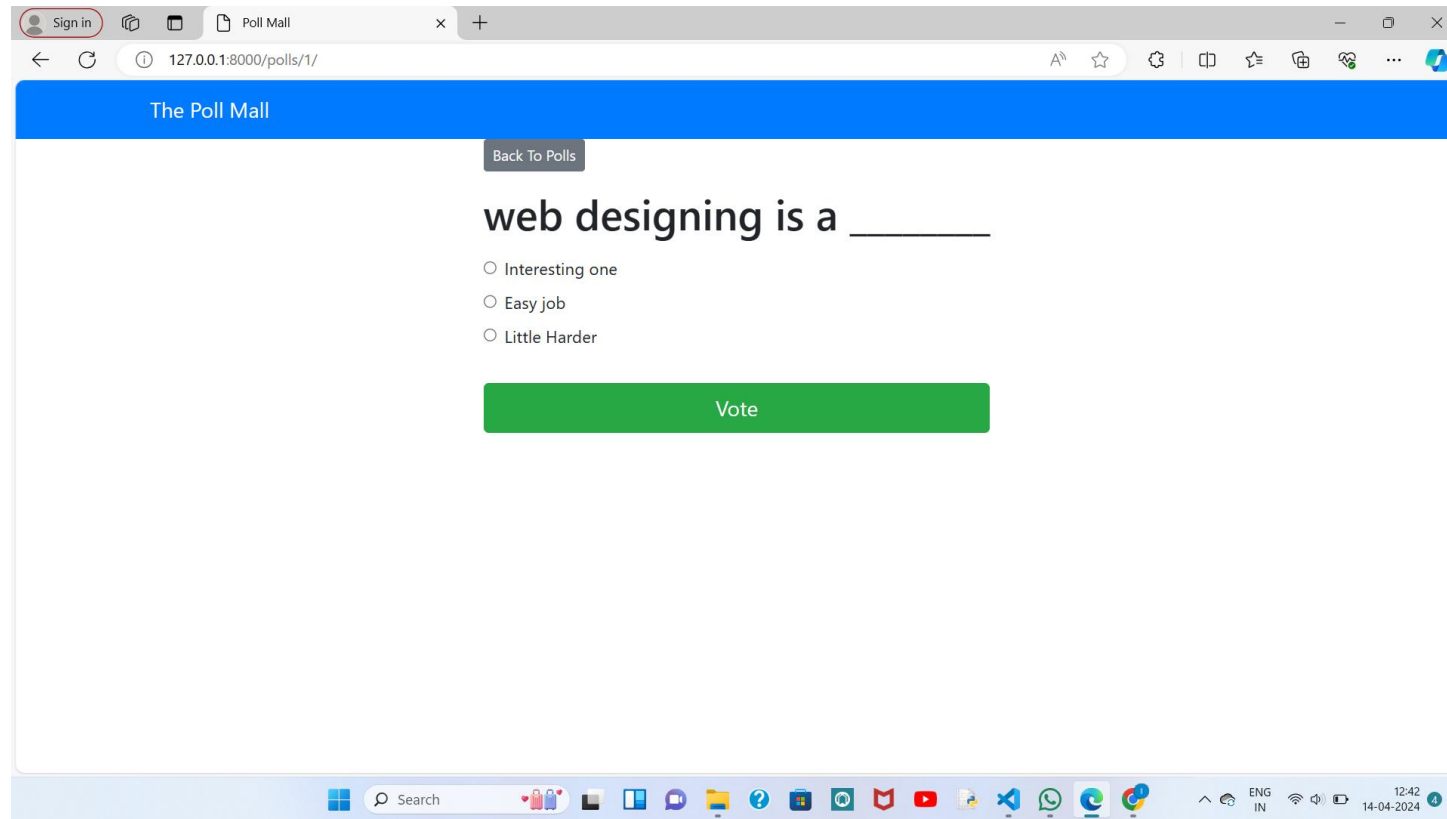
INITIAL HOME PAGE:



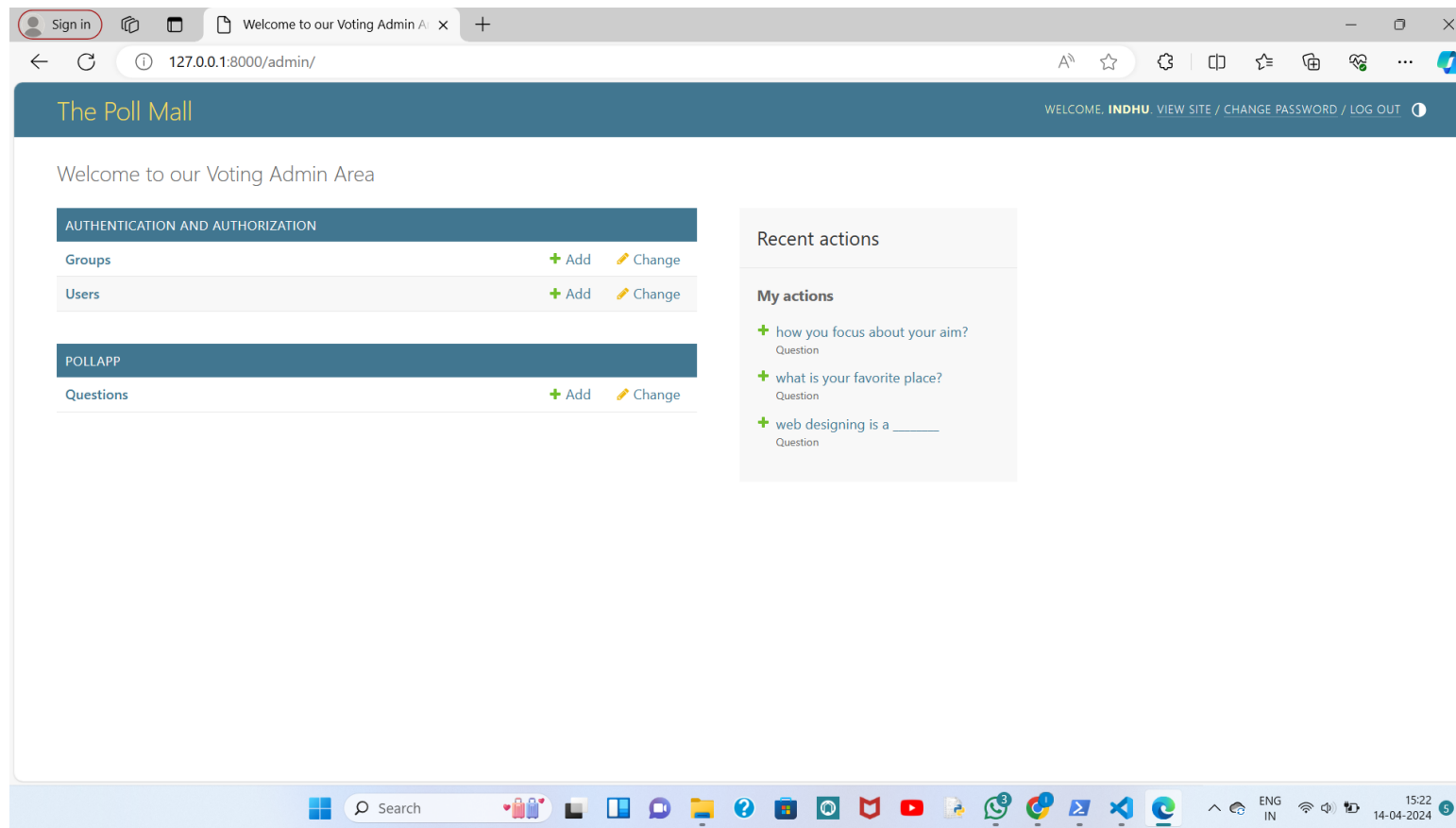
POLL PAGE-VOTING AREA:



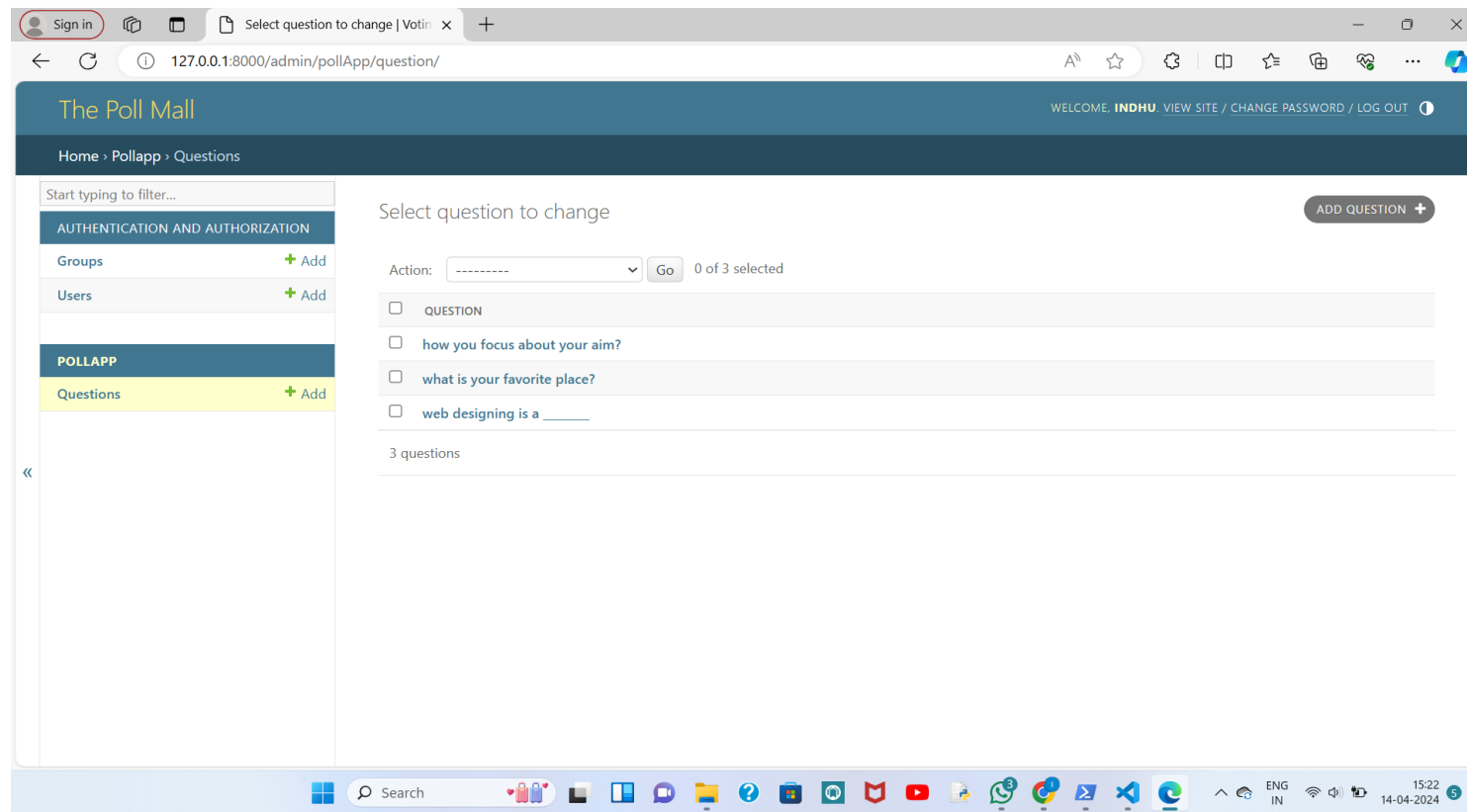
VOTING PAGE OF POLL:



VOTING ADMIN AREA



QUESTION INTIMATION FOR POLL APP:



AUTHENTICATION AND AUTHORIZATION:

The screenshot displays the 'The Poll Mall' web application interface. The browser's address bar shows the URL '127.0.0.1:8000/admin/auth/user/'. The page header includes a 'Sign in' button and a 'Select user to change | Voting Ad' tab. The main navigation bar shows 'Home > Authentication and Authorization > Users'. The left sidebar contains a search bar and a list of menu items: 'AUTHENTICATION AND AUTHORIZATION' (with sub-items 'Groups' and 'Users'), and 'POLLAPP' (with sub-item 'Questions'). The main content area is titled 'Select user to change' and features a search bar, an 'ADD USER +' button, and a table of users. The table has columns for 'USERNAME', 'EMAIL ADDRESS', 'FIRST NAME', 'LAST NAME', and 'STAFF STATUS'. One user, 'indhu', is listed with email 'AEC@xyz.com' and a green checkmark in the 'STAFF STATUS' column. A 'FILTER' sidebar on the right allows filtering by 'staff status' and 'superuser status', each with 'All', 'Yes', and 'No' options. The Windows taskbar at the bottom shows the time as 15:22 on 14-04-2024.

Sign in Select user to change | Voting Ad x +

127.0.0.1:8000/admin/auth/user/

The Poll Mall WELCOME, INDHU VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Authentication and Authorization > Users

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

POLLAPP

Questions + Add

Select user to change

ADD USER +

Q Search

Action: Go 0 of 1 selected

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	indhu	AEC@xyz.com			✓

1 user

FILTER

Show counts

By staff status

All
Yes
No

By superuser status

All
Yes
No

By active

All
Yes
No

Search

ENG IN 15:22 14-04-2024

CONCLUSION:

- ▶ To create a voting application using Django, one should have a solid understanding of Python programming, Django framework, HTML, CSS, and Bootstrap. The development process involves creating a new Django project, creating a Django app, defining models, creating views, defining templates, and creating URLs.
- ▶ The application can be further enhanced with features such as real-time results, a user-friendly interface, and a secure database design. It can also include an admin panel for managing elections, candidates, and user accounts.
- ▶ Overall, a voting application using the Django framework is a powerful and flexible solution for creating online voting systems that can cater to various use cases and requirements.

THANK YOU