



NEXT GEN EMPLOYABILITY PROGRAM

| Creating a future-ready workforce

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CAPSTONE PROJECT

Project Title

Voting Application using Django Framework- Faris jassim.A(4022)

Abstract | Problem Statement | Project Overview | Proposed Solution |
Technology Used | Modelling & Results | Conclusion



ABSTRACT

The Django framework, assures a solid and scalable base. The web-based architecture of the proposed voting application enables users to establish and take part in online votes. The Django framework, a well-liked and robust Python-based web framework that offers a solid foundation for creating scalable and secure online applications, is used in the construction of the application. Along with being scalable and adaptable, the program has a modular architecture that makes modification and extension simple. Because of this, it may be applied to a variety of use cases, ranging from intimate internal voting to extensive public elections. All things considered, the suggested voting application provides a safe, convenient, and adaptable online voting platform. Its emphasis on security and user experience, along , making it an excellent and provides a better security to web applications.

PROBLEM STATEMENT

With more organizations and governments using digital platforms to hold elections and surveys, online voting has grown in popularity in recent years. Online voting does, however, come with a number of drawbacks, mostly with regard to security and integrity. The suggested voting application aims to tackle the issues of security and integrity in online voting, while simultaneously offering an intuitive platform for conducting votes online. Its emphasis on security and user experience, along with its usage of the Django framework, will make it an excellent option for a variety of voting scenarios. The program will emphasize user experience in addition to security, with a clear and simple 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.

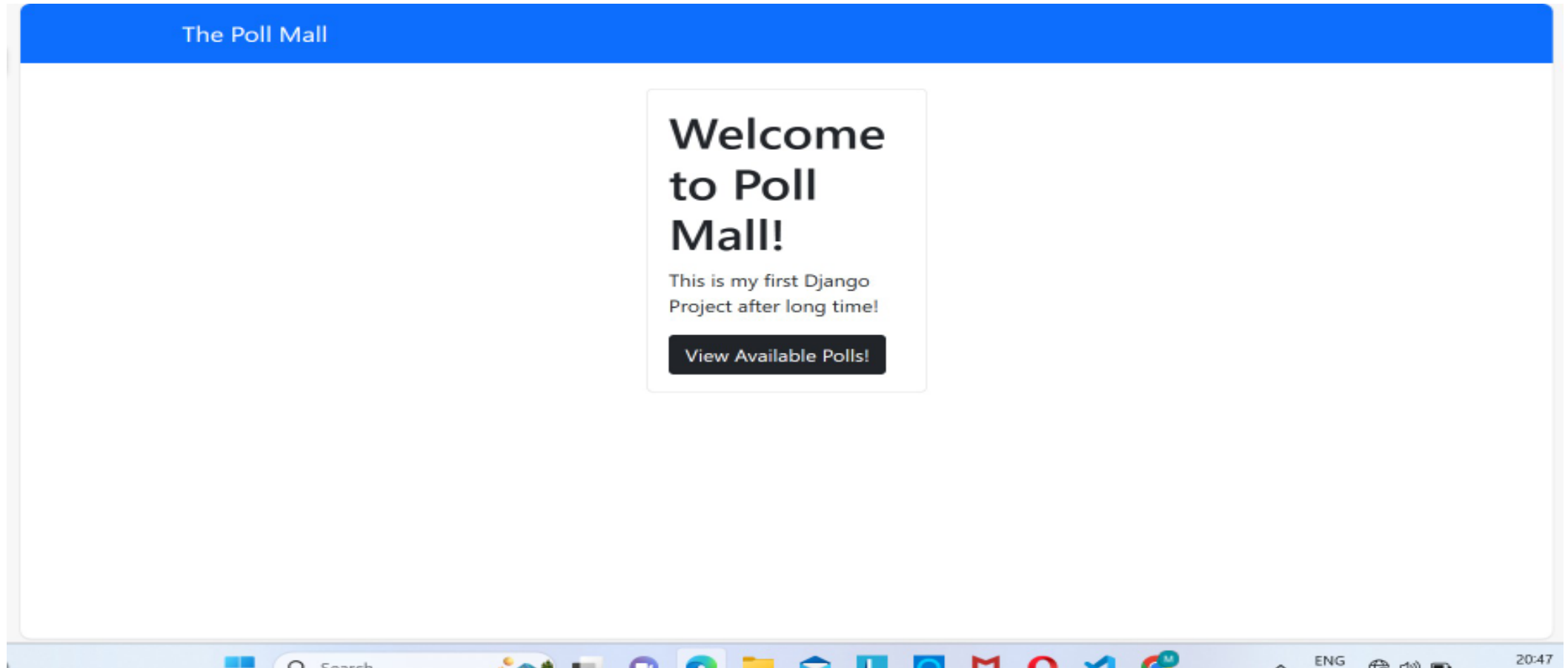
PROJECT OVERVIEW

- 1. Establishing a Django Project:** To provide the framework for the voting application, create a Django project.
- 2. Creating the Database Schema:** Establish the framework for the database that will hold user data, vote tallies, and other pertinent information.
- 3. Establishing User Authentication:** To enable users to sign up, log in, and take part in voting, implement user authentication.
- 4. Creating the Voting Interface:** Create the user interface that allows users to browse options, make selections, and cast ballots.
- 5. Putting Real-time Results into Practice:** Present the voting results in real-time to give users immediate feedback.
- 6. Creating an Admin Panel:** To efficiently manage the candidates, user accounts, and voting process, create an admin panel.

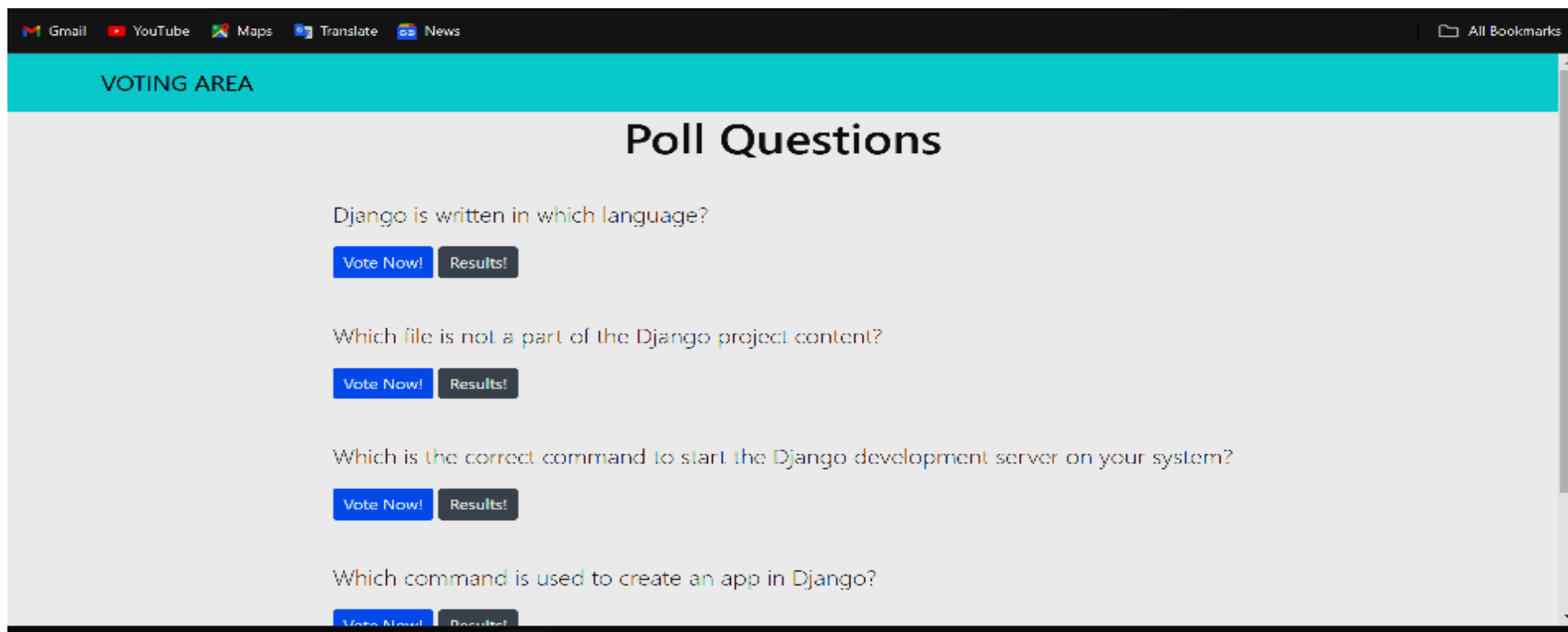
DETAILED SOLUTION

Developing a safe and user-friendly online voting platform is the suggested solution for a voting application built with the Django framework. Users of the app will be able to register, cast ballots, and see the results in real time. The Django framework will serve as the cornerstone for developing the application because of its scalability and resilience. In order to manage elections, candidates, and user accounts effectively, the program will feature an admin panel, a secure database, real-time results, and an easy-to-use interface. In conclusion, the Django framework-based voting application that has been suggested offers a safe, adaptable, and user-friendly online voting platform. Its emphasis on security and user experience, along with its use of the Django framework, assures a solid and scalable base, making it an excellent ideal choice for a wide range of voting scenarios.

HOME PAGE



POLL PAGE



The screenshot shows a web browser window with a dark header bar containing links to Gmail, YouTube, Maps, Translate, and News. On the right side of the header is a link to 'All Bookmarks'. Below the header is a teal-colored bar with the text 'VOTING AREA'. The main content area has a light gray background and is titled 'Poll Questions' in a large, bold, black font. There are four poll questions listed, each followed by two buttons: 'Vote Now!' (blue) and 'Results!' (gray).

VOTING AREA

Poll Questions

Django is written in which language?

[Vote Now!](#) [Results!](#)

Which file is not a part of the Django project content?

[Vote Now!](#) [Results!](#)

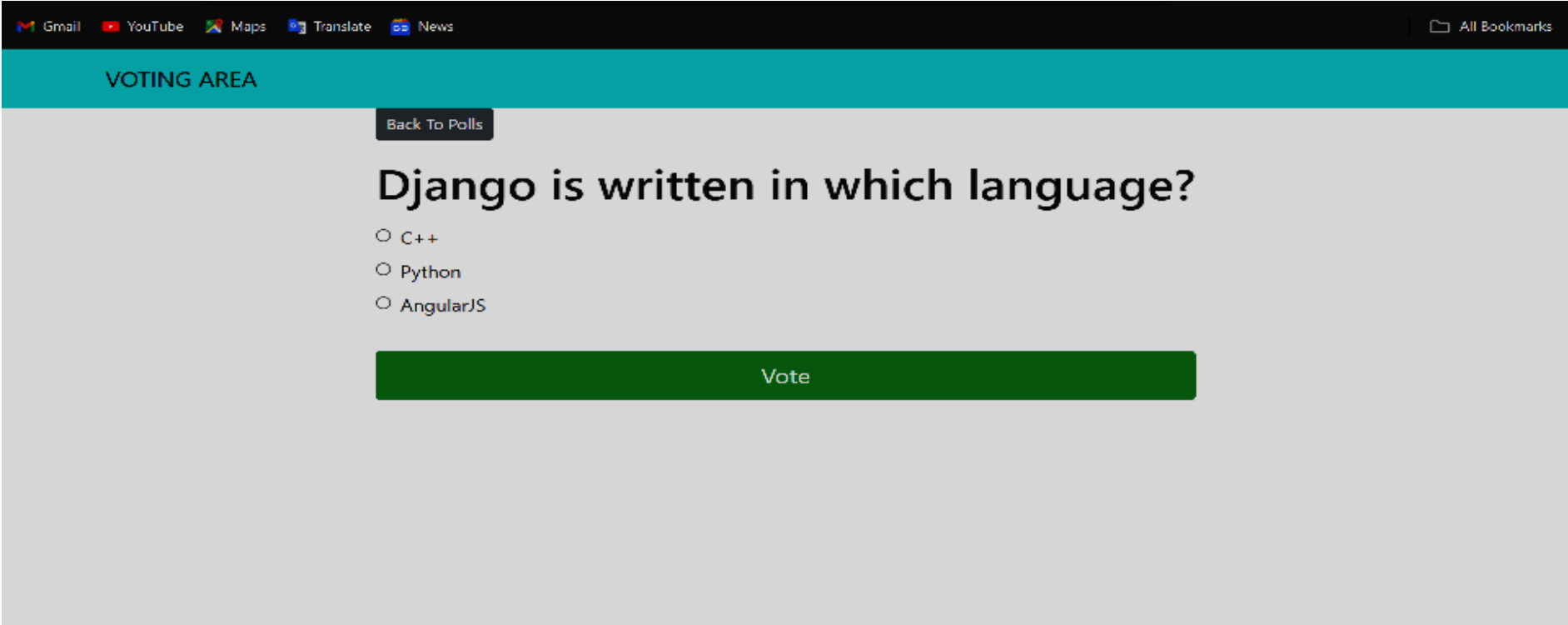
Which is the correct command to start the Django development server on your system?

[Vote Now!](#) [Results!](#)

Which command is used to create an app in Django?

[Vote Now!](#) [Results!](#)

VOTING PAGE



The screenshot shows a web browser interface. At the top, there is a dark navigation bar with links to Gmail, YouTube, Maps, Translate, and News. To the right of these links is a folder icon labeled 'All Bookmarks'. Below the navigation bar is a teal header section with the text 'VOTING AREA'. The main content area has a light gray background. It features a dark button labeled 'Back To Polls' in the top left. The central text asks 'Django is written in which language?'. Below this question are three radio button options: 'C++', 'Python', and 'AngularJS'. At the bottom of the form is a large green button labeled 'Vote'.

VOTING AREA

[Back To Polls](#)

Django is written in which language?

☐ C++

☐ Python

☐ AngularJS

[Vote](#)

VOTING DETAILS PAGE

VOTING AREA

Django is written in which language?

C++	4 votes
Python	10 votes
AngularJS	6 votes

[Back To Polls](#) [Vote again?](#)



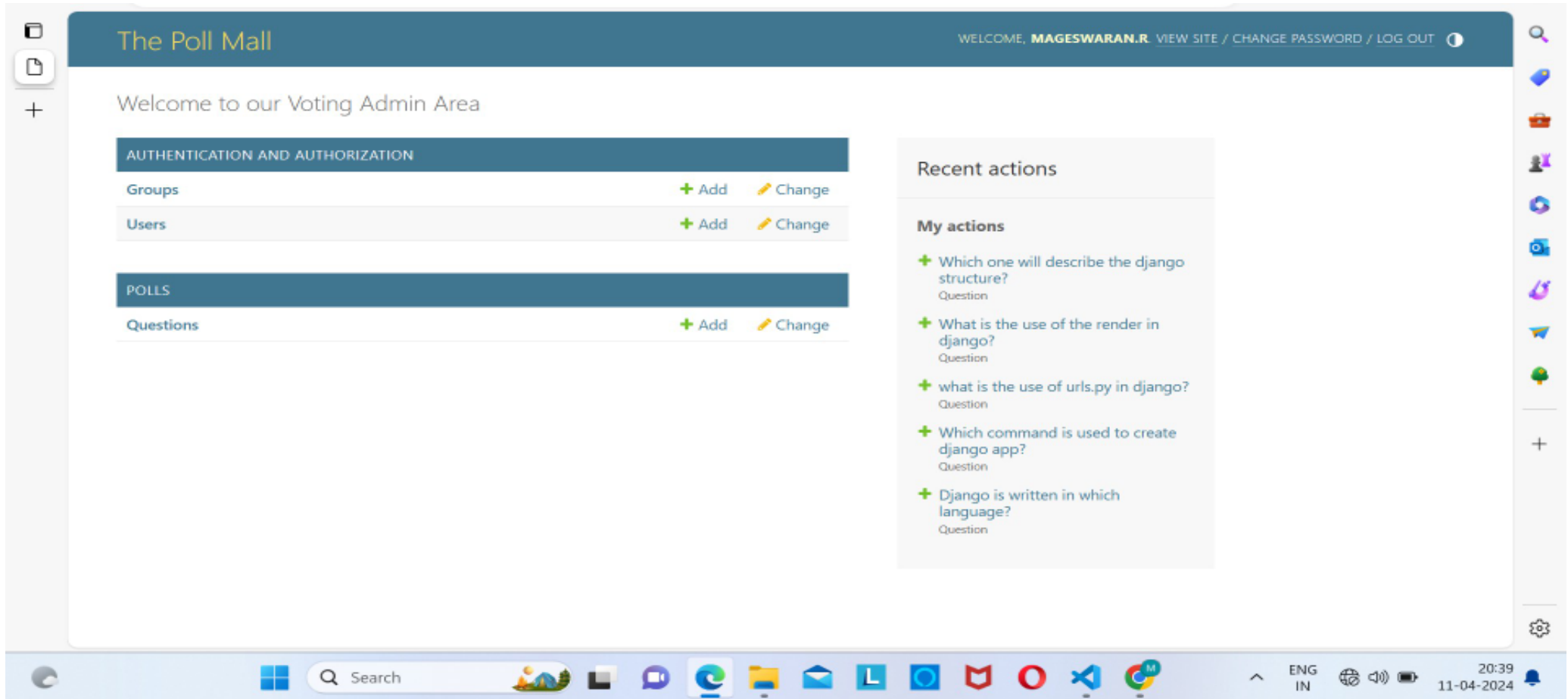
The Poll Mall

Username:

Password:

Log in

ADMIN HOME PAGE



The screenshot displays the 'The Poll Mall' admin interface. The top navigation bar is dark blue with the title 'The Poll Mall' on the left and user information 'WELCOME, MAGESWARAN.R.' with links for 'VIEW SITE', 'CHANGE PASSWORD', and 'LOG OUT' on the right. A left sidebar contains icons for home, documents, and a plus sign. The main content area is divided into two columns. The left column has two sections: 'AUTHENTICATION AND AUTHORIZATION' with links for 'Groups' and 'Users' (each with '+ Add' and 'Change' options), and 'POLLS' with a link for 'Questions' (also with '+ Add' and 'Change' options). The right column has two sections: 'Recent actions' and 'My actions'. 'My actions' lists five questions, each preceded by a green plus icon and followed by the word 'Question'. The bottom of the image shows a Windows taskbar with various application icons, a search bar, and system tray icons including language (ENG IN), time (20:39), and date (11-04-2024).

The Poll Mall

WELCOME, **MAGESWARAN.R.** [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Welcome to our Voting Admin Area

AUTHENTICATION AND AUTHORIZATION

- Groups [+ Add](#) [Change](#)
- Users [+ Add](#) [Change](#)

POLLS

- Questions [+ Add](#) [Change](#)

Recent actions

My actions

- + Which one will describe the django structure?
Question
- + What is the use of the render in django?
Question
- + what is the use of urls.py in django?
Question
- + Which command is used to create django app?
Question
- + Django is written in which language?
Question

AUTHENTICATION AND AUTHORIZATION PAGE

VOTING AREA

WELCOME, SHAHUL. [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 2 selected

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	Hameed	shx@xyz.com			✓
<input type="checkbox"/>	shahul	sha@xyz.com			✓

2 users

FILTER

Show counts

1 By staff status

All

Yes

No

1 By superuser status

All

Yes

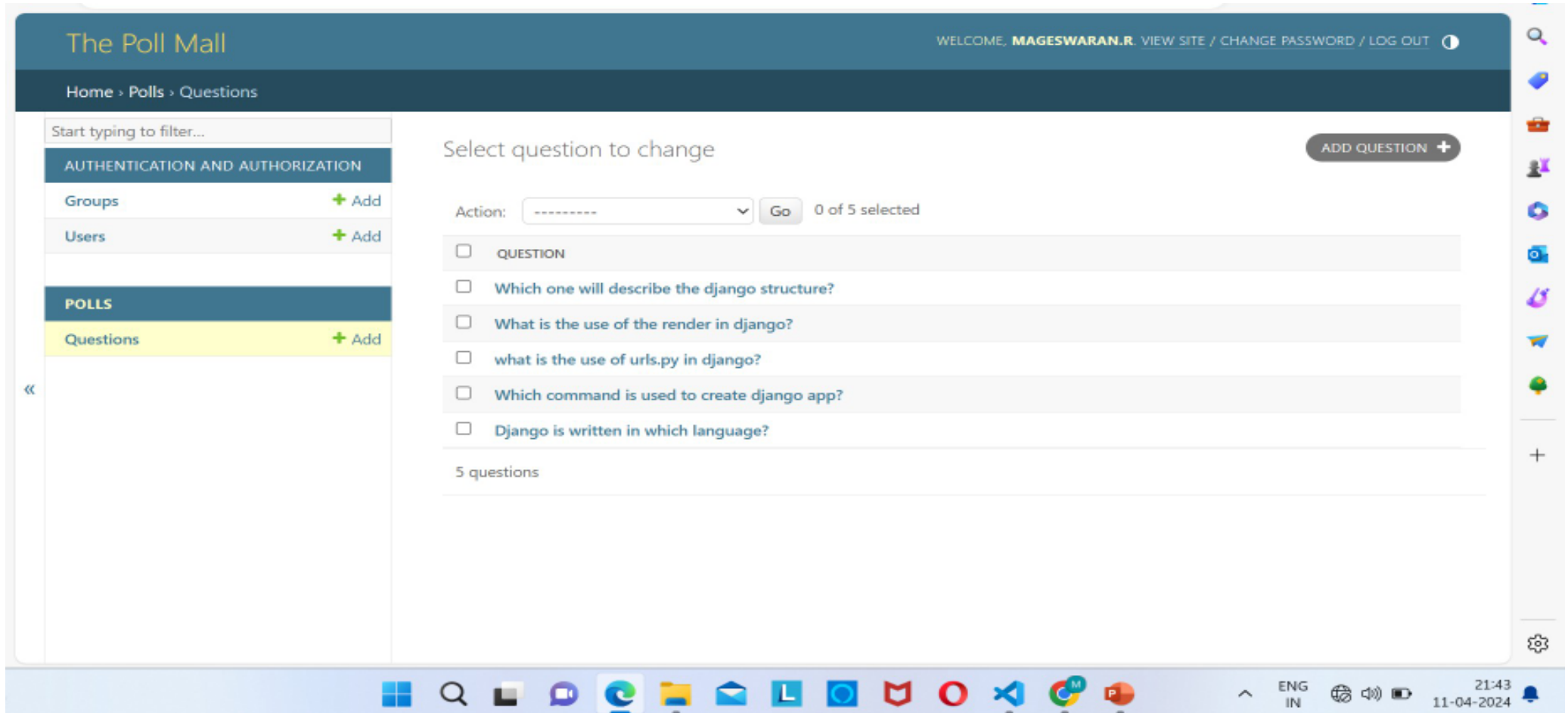
No

1 By active

All

Yes

QUESTIONS ADDING SECTION PAGE



The screenshot displays the 'The Poll Mall' web application interface. The top navigation bar includes the site name and a user welcome message for 'MAGESWARAN.R.' with links to 'VIEW SITE', 'CHANGE PASSWORD', and 'LOG OUT'. Below this, a breadcrumb trail shows 'Home > Polls > Questions'. A left sidebar contains a search bar and two main categories: 'AUTHENTICATION AND AUTHORIZATION' (with sub-items 'Groups' and 'Users') and 'POLLS' (with sub-item 'Questions'). The 'Questions' item is highlighted. The main content area is titled 'Select question to change' and features an 'ADD QUESTION +' button. It includes an 'Action:' dropdown menu, a 'Go' button, and a selection count '0 of 5 selected'. A list of five questions is shown, each with an unchecked checkbox. The questions are: 'QUESTION', 'Which one will describe the django structure?', 'What is the use of the render in django?', 'what is the use of urls.py in django?', and 'Which command is used to create django app?'. A sixth question, 'Django is written in which language?', is partially visible. At the bottom of the list, it says '5 questions'. The Windows taskbar at the very bottom shows various application icons and the system clock indicating 21:43 on 11-04-2024.

The Poll Mall

WELCOME, **MAGESWARAN.R.** [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Home > Polls > Questions

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

- Groups [+ Add](#)
- Users [+ Add](#)

POLLS

- Questions [+ Add](#)

«

Select question to change

[ADD QUESTION +](#)

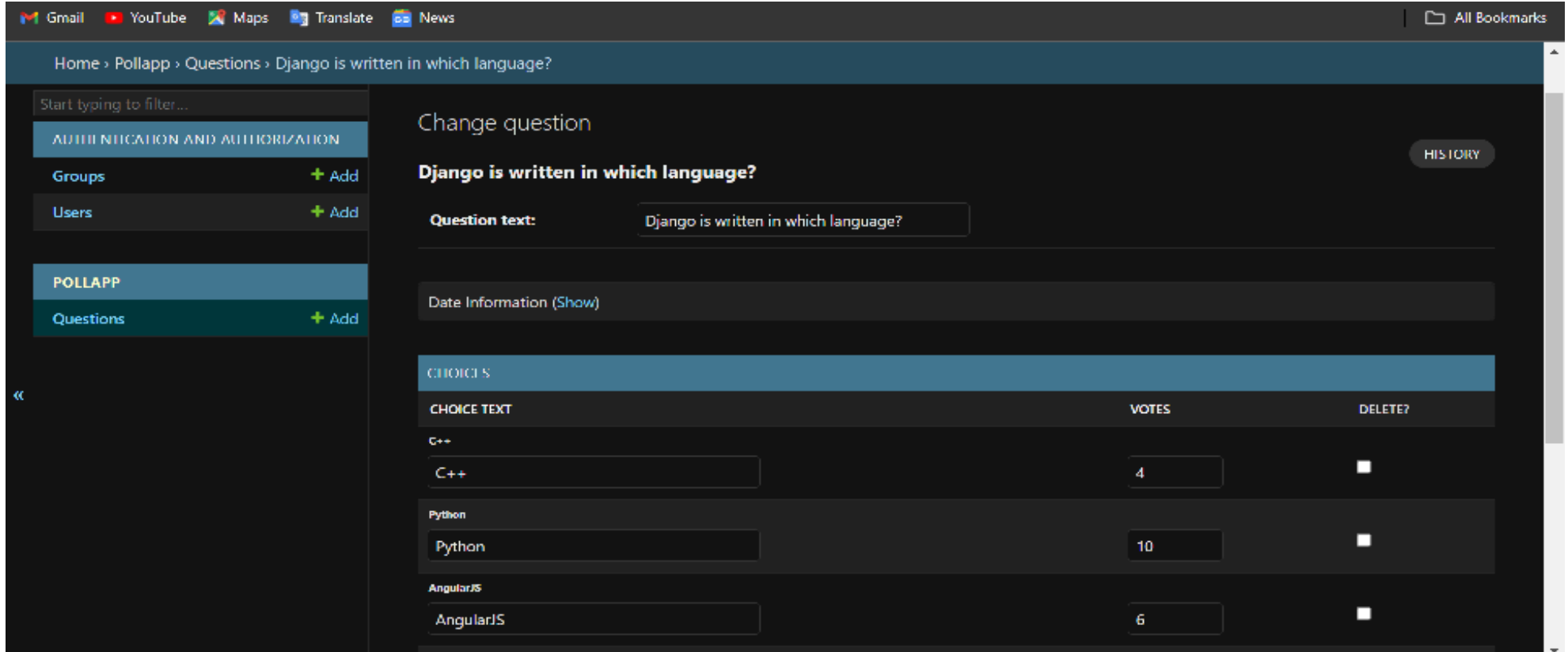
Action: [Go](#) 0 of 5 selected

- ☐ QUESTION
- ☐ Which one will describe the django structure?
- ☐ What is the use of the render in django?
- ☐ what is the use of urls.py in django?
- ☐ Which command is used to create django app?
- ☐ Django is written in which language?

5 questions

ENG IN 21:43 11-04-2024

VOTING DETAILS PAGE



Home > Pollapp > Questions > Django is written in which language?

Start typing to filter...

Authentication and Authorization

- Groups + Add
- Users + Add

POLLAPP

- Questions + Add

«

Change question

Django is written in which language? HISTORY

Question text: Django is written in which language?

Date Information (Show)

CHOICE TEXT	VOTES	DELETE?
C++	4	<input type="checkbox"/>
Python	10	<input type="checkbox"/>
AngularJS	6	<input type="checkbox"/>

Technology Used

FRONT-END



BACK-END



CONCLUSION

A good understanding of HTML, CSS, Bootstrap, Django, and Python programming to design a voting application using Django. The development process entails starting a fresh Django project, building a Django application, specifying models, views, templates, and locations. Features like a user-friendly interface, a secure database design, and real-time results can further improve the program. An admin panel for controlling elections, candidates, and user accounts may also be included. All things considered, a voting application built using the Django framework is a strong and adaptable way to build online voting systems that meet different needs and use cases.