



NEXT GEN EMPLOYABILITY PROGRAM

| Creating a future-ready workforce

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CAPSTONE PROJECT

Project Title

Voting Application using Django Framework- Ragul Anastraj(4064,AEC)

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.

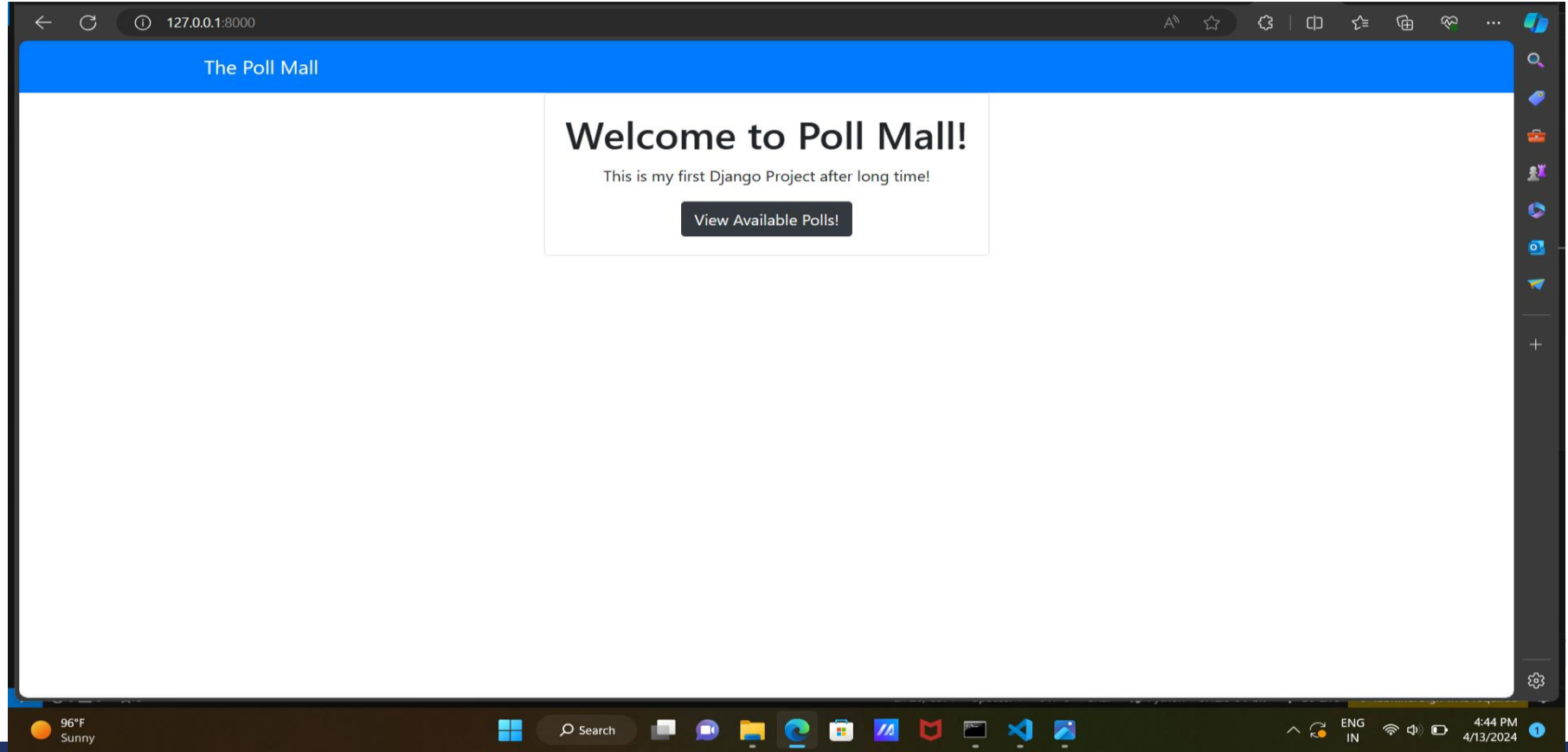
PROJECT OVERVIEW

- 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.

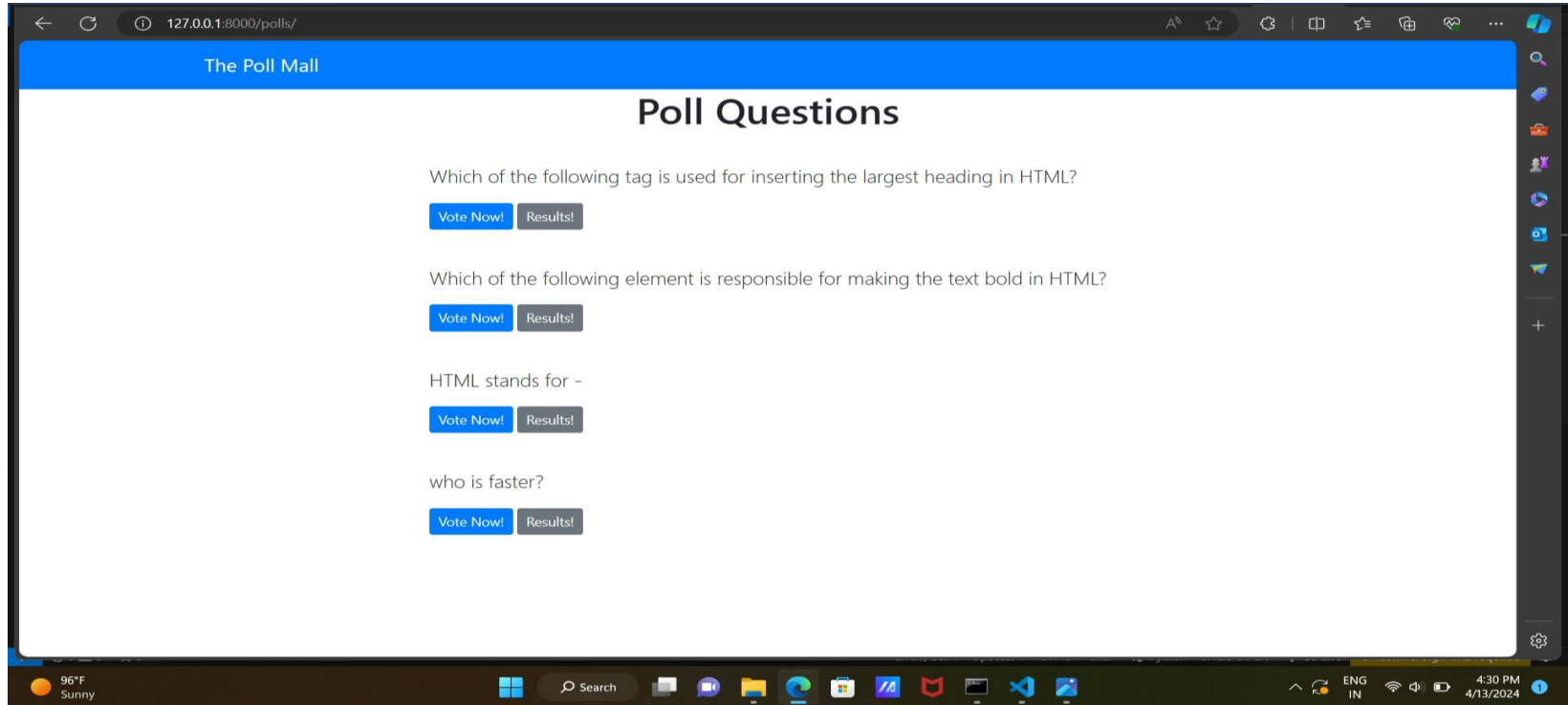
DETAILED SOLUTION

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.

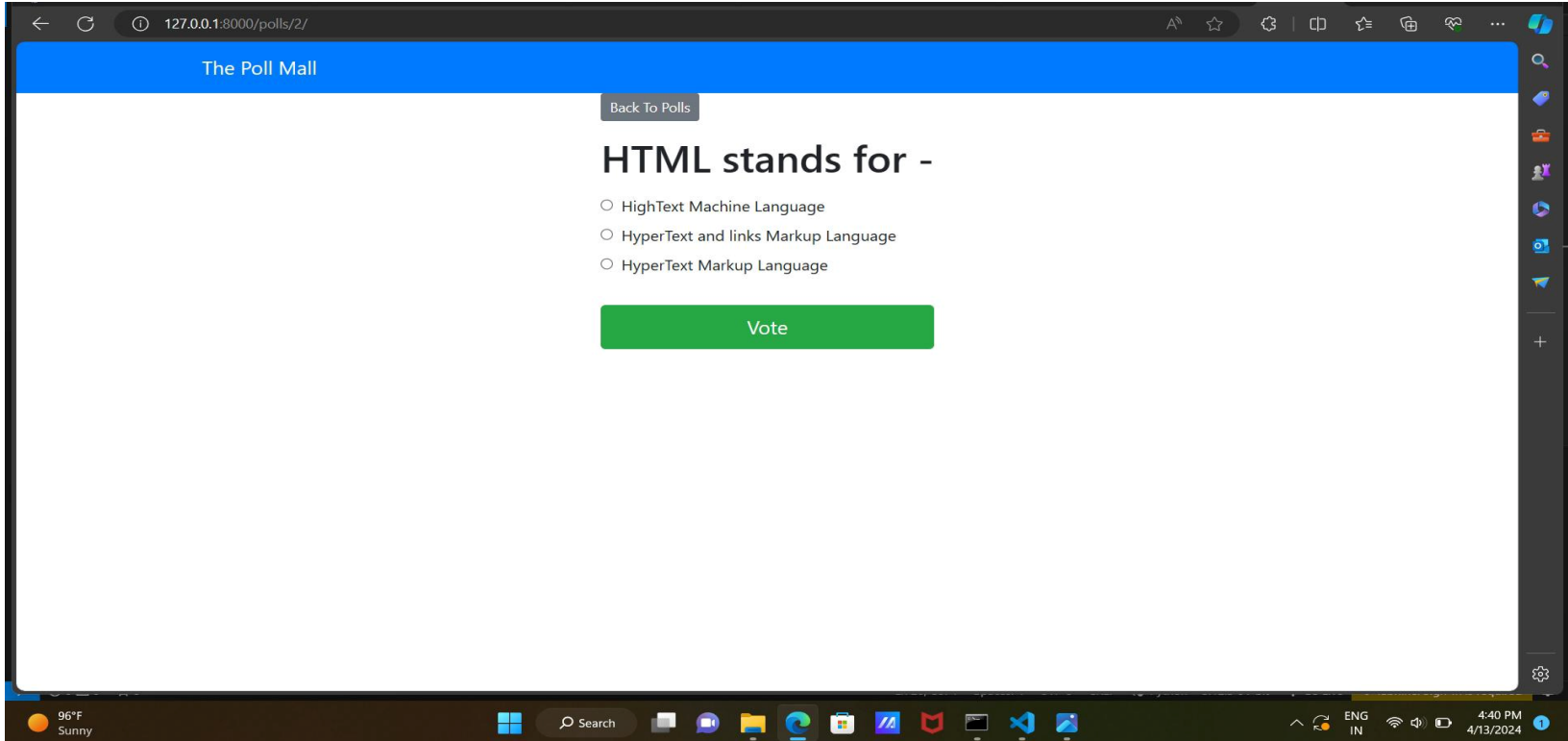
HOME PAGE



POLL PAGE



VOTING PAGE



The Poll Mall

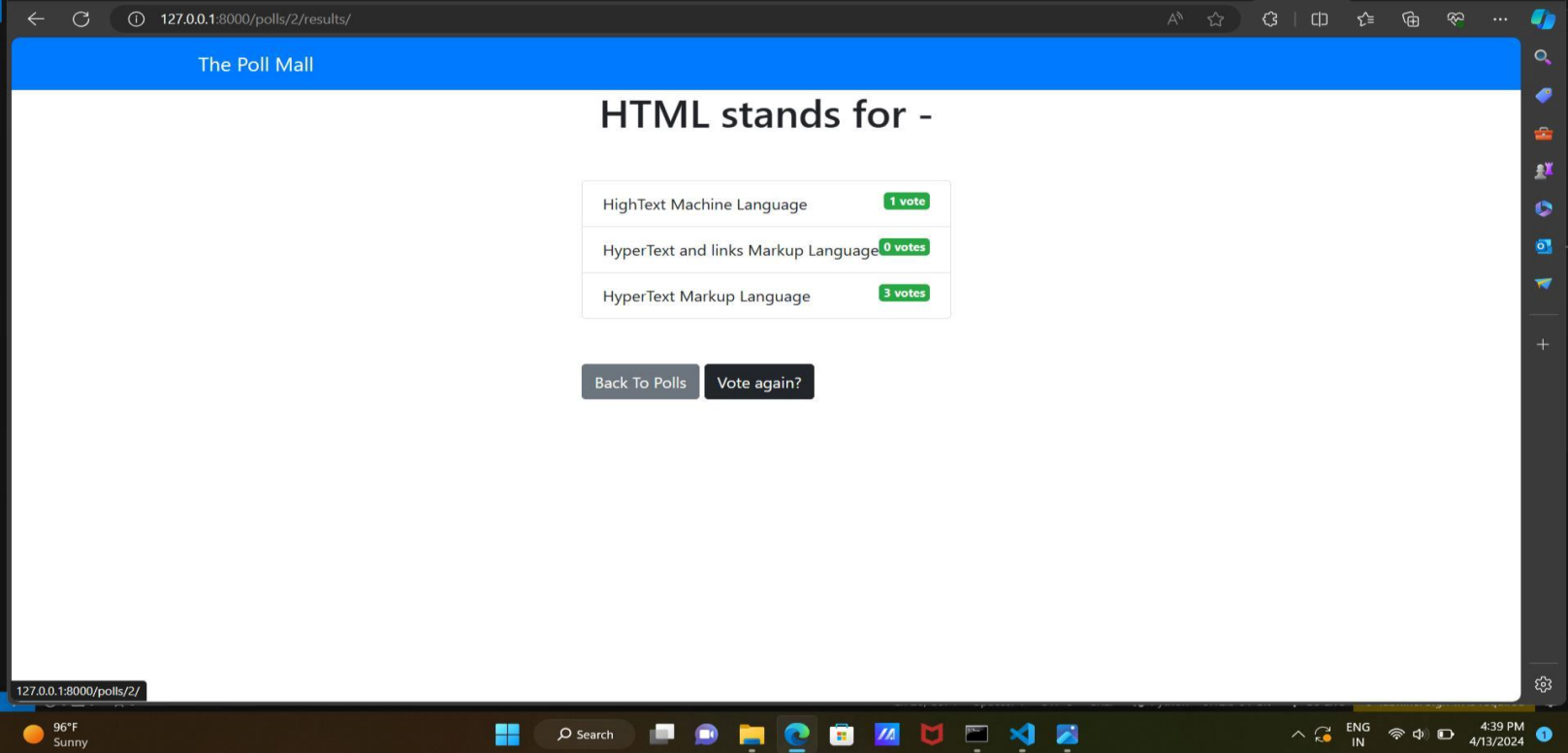
[Back To Polls](#)

HTML stands for -

- ☐ HighText Machine Language
- ☐ HyperText and links Markup Language
- ☐ HyperText Markup Language

[Vote](#)

VOTING DETAILS PAGE



The screenshot shows a web browser window with the address bar displaying `127.0.0.1:8000/polls/2/results/`. The page has a blue header bar with the text "The Poll Mall". Below the header, the main content area has the heading "HTML stands for -". Underneath the heading, there is a table-like structure showing the results of a poll:

HighText Machine Language	1 vote
HyperText and links Markup Language	0 votes
HyperText Markup Language	3 votes

At the bottom of the results section, there are two buttons: "Back To Polls" and "Vote again?". The browser's taskbar at the bottom shows the system clock as 4:39 PM on 4/13/2024, and the weather as 96°F Sunny.

Browser tabs: Template, Log in | V, Django M, django-v, Template, Add ques, Template, Welcome, Template, +

Address bar: 127.0.0.1:8000/admin/login/?next=/admin/

The Poll Mall

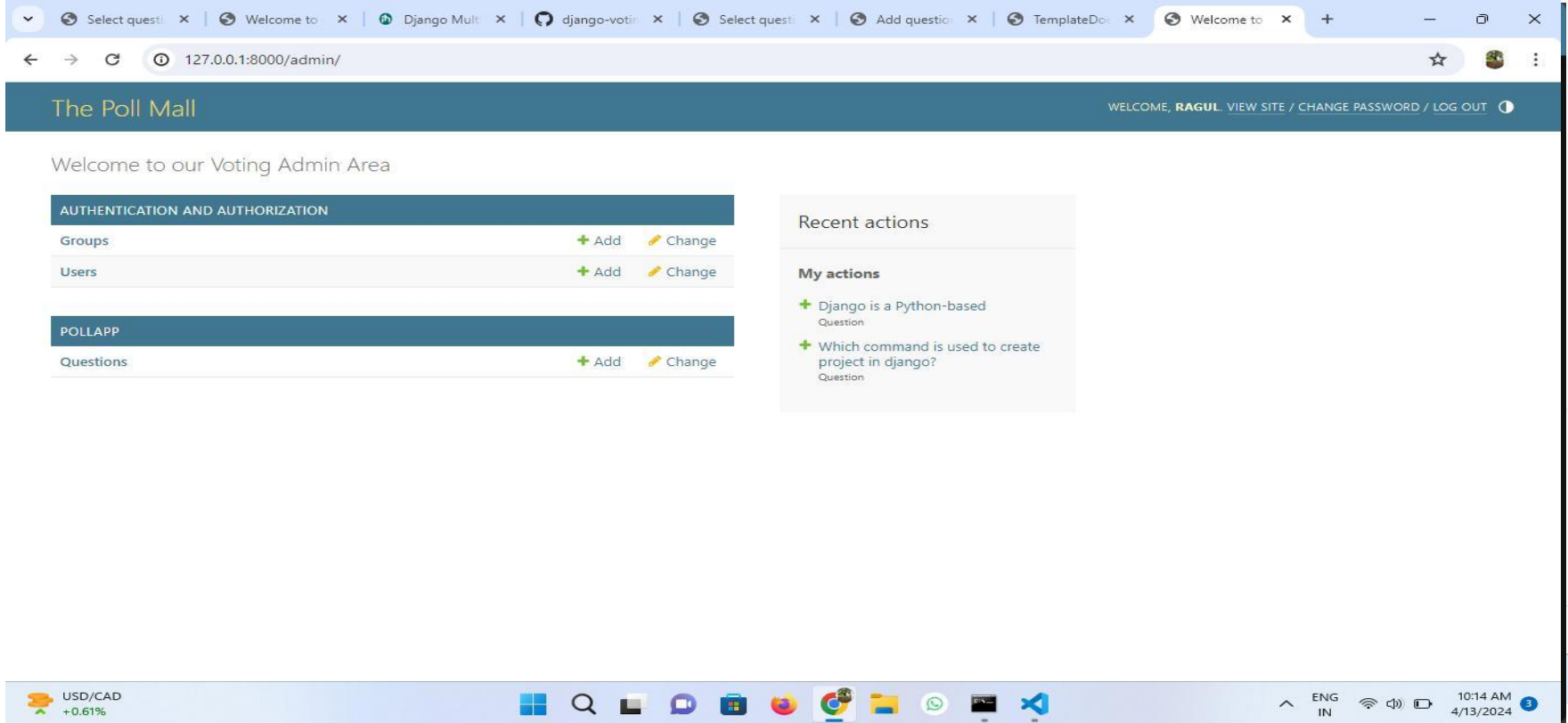
Username:

Password:

Log in

Taskbar: 84°F Haze, Windows icons, ENG IN, 12:53 PM 4/13/2024

ADMIN HOME PAGE



The screenshot displays the Django Admin interface. The browser's address bar shows the URL `127.0.0.1:8000/admin/`. The page header includes the title "The Poll Mall" and a user welcome message: "WELCOME, RAGUL. VIEW SITE / CHANGE PASSWORD / LOG OUT". The main content area is divided into two sections. The left section, titled "AUTHENTICATION AND AUTHORIZATION", contains links for "Groups" and "Users", each with "Add" and "Change" buttons. The right section, titled "Recent actions", lists two actions: "Django is a Python-based Question" and "Which command is used to create project in django? Question". The Windows taskbar at the bottom shows the system clock as 10:14 AM on 4/13/2024, along with various application icons and a currency indicator for USD/CAD.

Select questi x Welcome to x Django Multi x django-voti x Select questi x Add question x TemplateDo x Welcome to x

127.0.0.1:8000/admin/

The Poll Mall

WELCOME, RAGUL. VIEW SITE / CHANGE PASSWORD / LOG OUT

Welcome to our Voting Admin Area

AUTHENTICATION AND AUTHORIZATION

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

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

POLLAPP

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

Recent actions

My actions

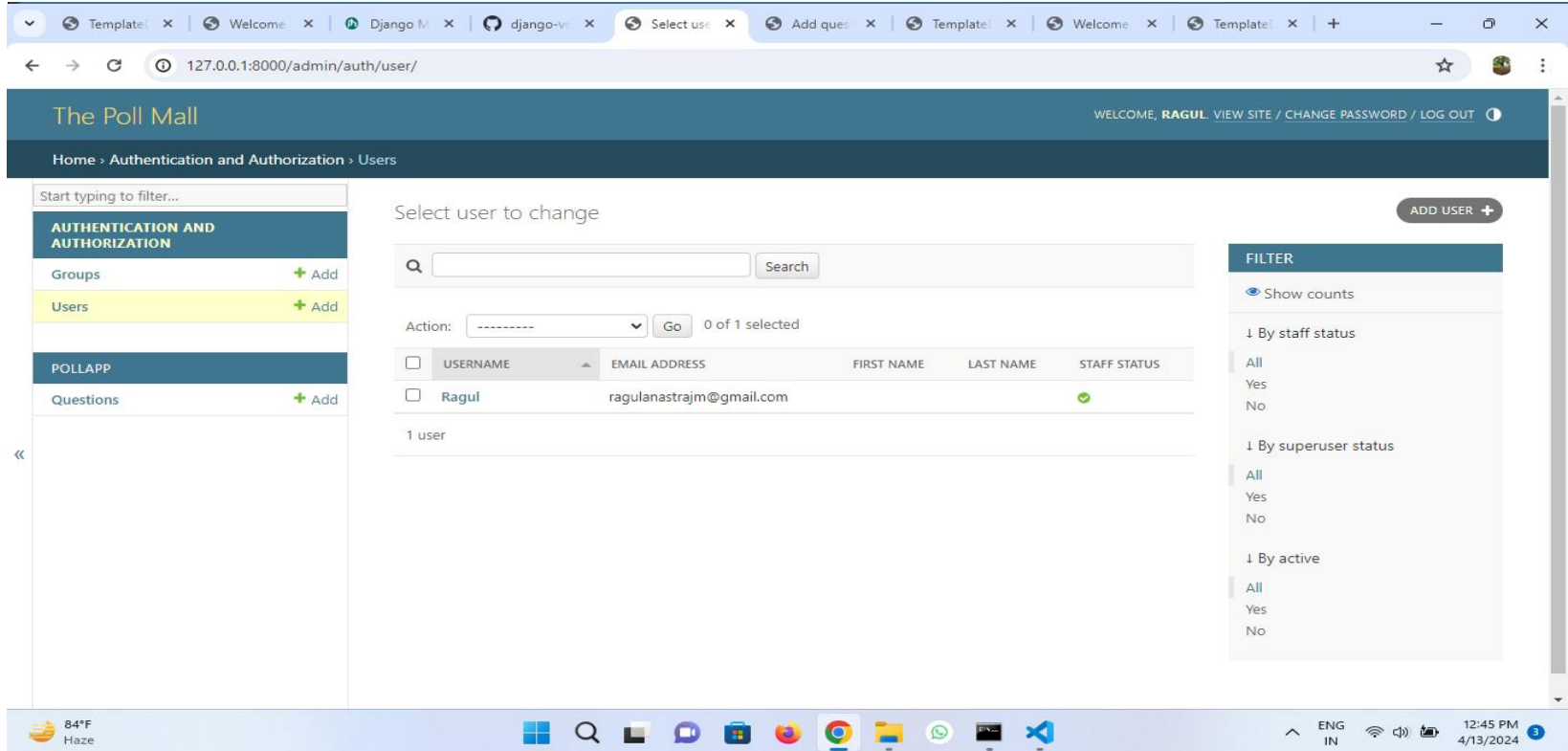
+ Django is a Python-based Question

+ Which command is used to create project in django? Question

USD/CAD +0.61%

ENG IN 10:14 AM 4/13/2024

AUTHENTICATION AND AUTHORIZATION PAGE



The screenshot displays the Django Admin interface for 'The Poll Mall'. The browser address bar shows the URL `127.0.0.1:8000/admin/auth/user/`. The page title is 'The Poll Mall' and the breadcrumb trail is 'Home > Authentication and Authorization > Users'. The left sidebar contains the following sections:

- AUTHENTICATION AND AUTHORIZATION**
 - Groups [+ Add](#)
 - Users [+ Add](#)
- POLLAPP**
 - Questions [+ Add](#)

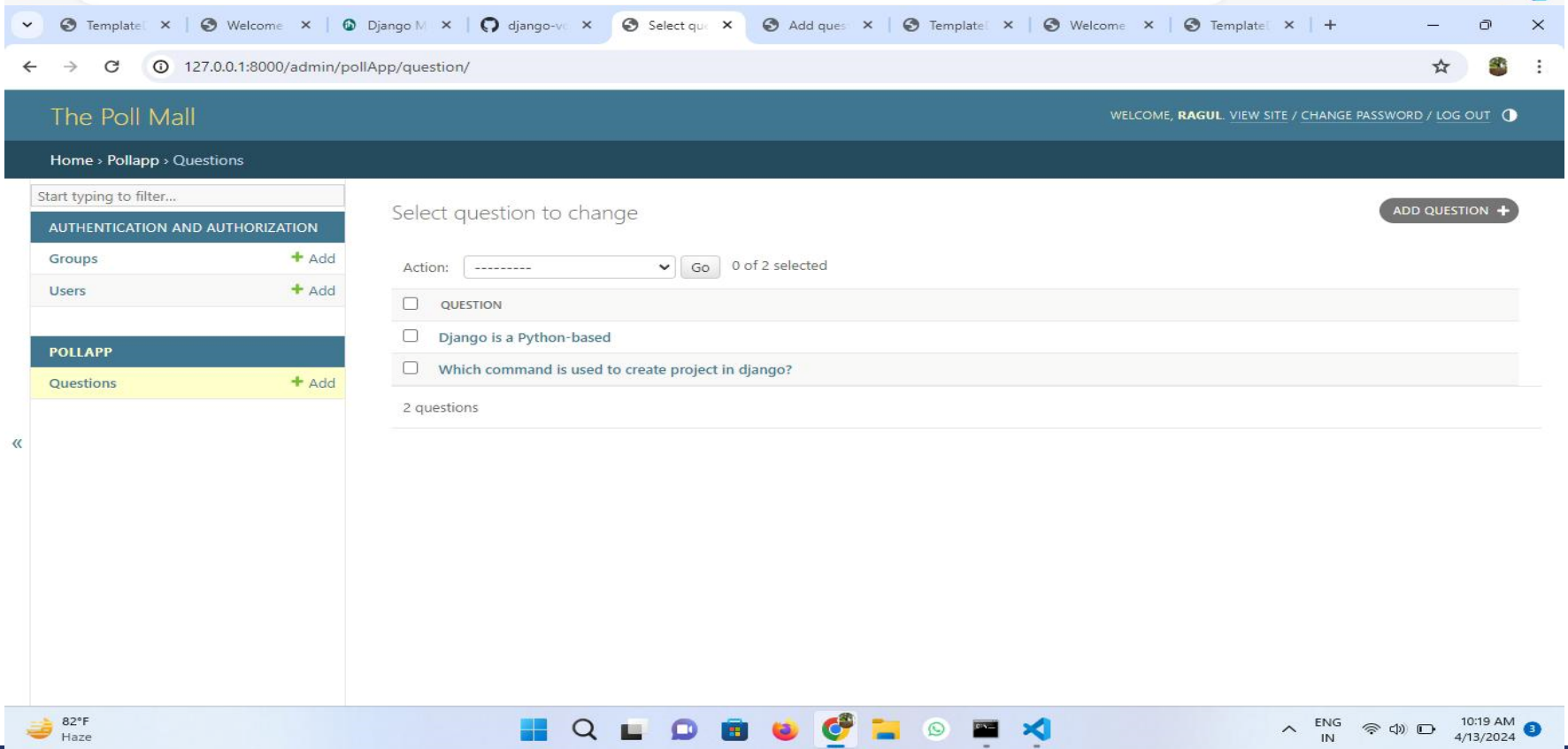
The main content area is titled 'Select user to change'. It features a search bar and a table of users. The table has columns: USERNAME, EMAIL ADDRESS, FIRST NAME, LAST NAME, and STAFF STATUS. One user is listed: 'Ragul' with email 'ragulanastrajm@gmail.com' and staff status 'Yes' (indicated by a green checkmark). Below the table, it says '1 user'.

The right sidebar contains a 'FILTER' section with the following options:

- Show counts
- By staff status
 - All
 - Yes
 - No
- By superuser status
 - All
 - Yes
 - No
- By active
 - All
 - Yes
 - No

The bottom of the screen shows a Windows taskbar with various icons and a system tray displaying the temperature (84°F), weather (Haze), and date/time (12:45 PM, 4/13/2024).

QUESTIONS ADDING SECTION PAGE



The screenshot shows a web browser window with multiple tabs. The active tab is titled "Select question" and the address bar shows the URL "127.0.0.1:8000/admin/pollApp/question/". The page header is "The Poll Mall" with a welcome message for "RAGUL" and links for "VIEW SITE", "CHANGE PASSWORD", and "LOG OUT". The breadcrumb trail is "Home > Pollapp > Questions".

On the left sidebar, there is a search bar "Start typing to filter..." and two main sections: "AUTHENTICATION AND AUTHORIZATION" with "Groups" and "Users" (each with a "+ Add" link), and "POLLAPP" with "Questions" (with a "+ Add" link). A double arrow icon is visible at the bottom of the sidebar.

The main content area is titled "Select question to change" and includes an "ADD QUESTION +" button. Below this, there is an "Action:" dropdown menu set to "-----" with a "Go" button and a counter "0 of 2 selected". A list of questions follows, each with a checkbox and text:

- ☐ QUESTION
- ☐ Django is a Python-based
- ☐ Which command is used to create project in django?

At the bottom of the list, it says "2 questions".

The Windows taskbar at the bottom shows the date and time as "4/13/2024 10:19 AM" and the weather as "82°F Haze".

VOTING DETAILS PAGE

Template: x

Welcome: x

Django M x

django-vc x

Django is x

Add ques x

Template: x

Welcome x

Template: x

+ x

127.0.0.1:8000/admin/pollApp/question/2/change/

☆🌐⋮

The Poll Mall

WELCOME, RAGUL. VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Pollapp > Questions > Django is a Python-based

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

POLLAPP

Questions + Add

Change question

HISTORY

Django is a Python-based


Question text: Django is a Python-based

Date Information (Show)

CHOICES

CHOICE TEXT	VOTES	DELETE?
web framework web framework	0	<input type="checkbox"/>
video creating tool video creating tool	0	<input type="checkbox"/>
analysis tool analysis tool	0	<input type="checkbox"/>
<input type="text"/>	0	<input type="checkbox"/>

82°F Haze



ENG IN

📶🔊🔋

10:20 AM 4/13/2024

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.