



# NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

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# CAPSTONE PROJECT

## Project Title

Voting Application using Django Framework- MAGESWARAN.R(4034,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







The Poll Mall

# Welcome to Poll Mall!

This is my first Django  
Project after long time!

[View Available Polls!](#)

## POLL PAGE

 Gmail  YouTube  Maps  Translate  News |  All Bookmarks

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

[Gmail](#) [YouTube](#) [Maps](#) [Translate](#) [News](#) [All Bookmarks](#)

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

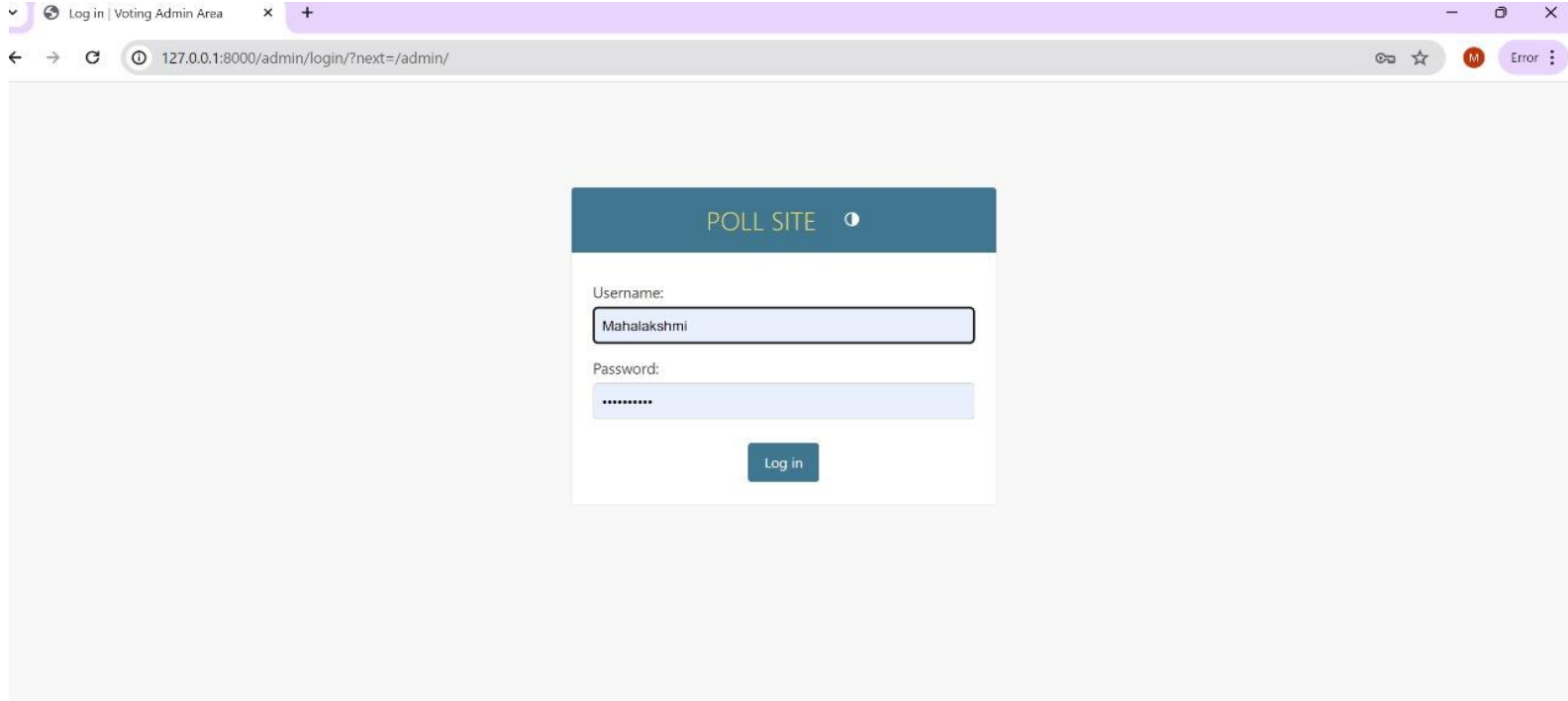
AngularJS

6 votes

[Back To Polls](#)

[Vote again?](#)

## ADMIN LOGIN PAGE

A screenshot of a web browser showing the admin login page. The browser's address bar displays the URL '127.0.0.1:8000/admin/login/?next=/admin/'. The page has a light gray background. In the center, there is a white rectangular box with a dark teal header that says 'POLL SITE' with a small circular icon to its right. Below the header, there are two input fields: 'Username:' with the text 'Mahalakshmi' and 'Password:' with masked characters '\*\*\*\*\*'. A dark teal 'Log in' button is positioned below the password field.

Log in | Voting Admin Area

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

POLL SITE

Username:

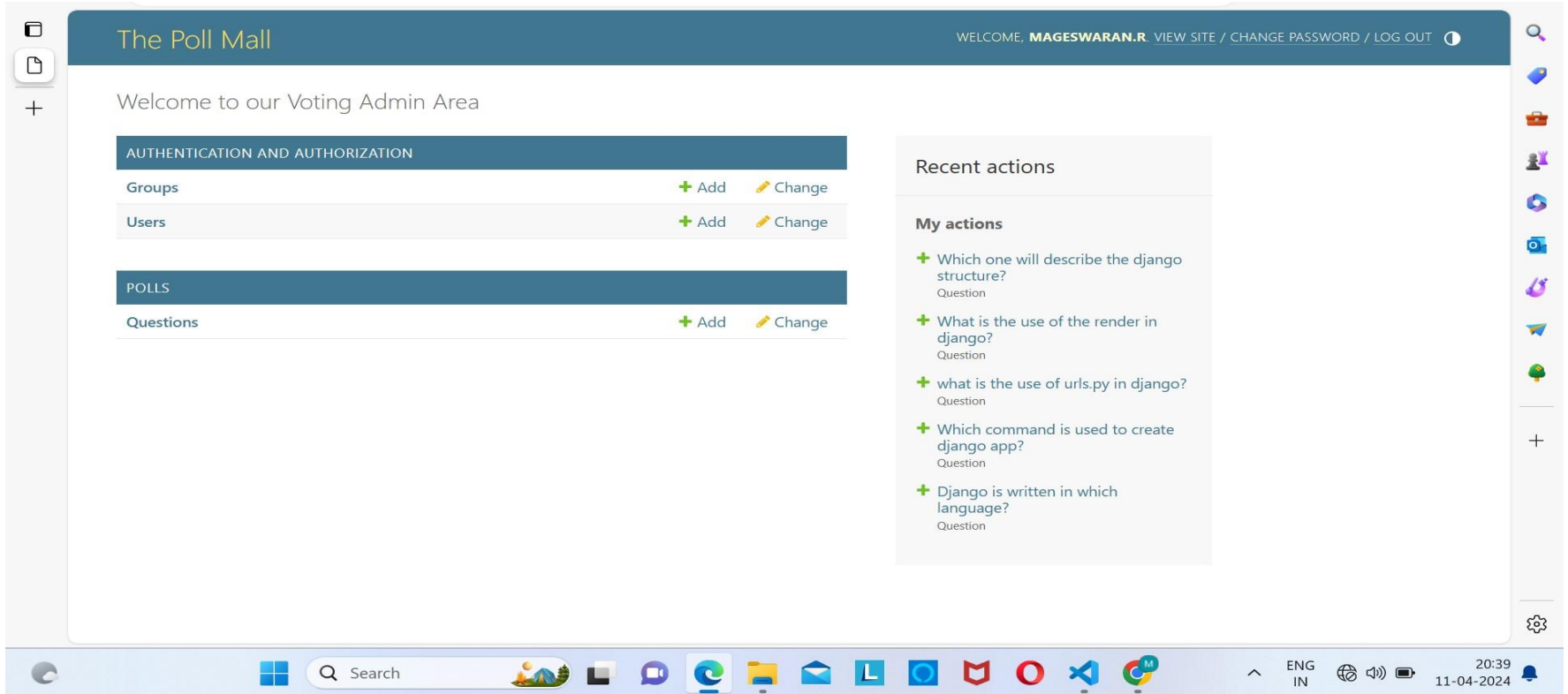
Mahalakshmi

Password:

\*\*\*\*\*

Log in

## ADMIN HOME PAGE



The screenshot displays the 'The Poll Mall' admin interface. The top navigation bar is dark blue with the site title 'The Poll Mall' on the left and user information 'WELCOME, MAGESWARAN.R. VIEW SITE / CHANGE PASSWORD / LOG OUT' on the right. A sidebar on the left contains icons for home, documents, and a plus sign. The main content area is divided into two columns. The left column features two sections: 'AUTHENTICATION AND AUTHORIZATION' with links for 'Groups' and 'Users' (each with '+ Add' and 'Change' buttons), and 'POLLS' with a link for 'Questions' (also with '+ Add' and 'Change' buttons). The right column contains 'Recent actions' and 'My actions' sections. 'Recent actions' is currently empty. '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 status 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





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

ADD USER 

FILTER

 Show counts

↓ By staff status

All

Yes

No

↓ By superuser status

All

Yes

No

↓ By active

All

Yes

## QUESTIONS ADDING SECTION PAGE

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

 Gmail  YouTube  Maps  Translate  News

All Bookmarks

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:

Date Information (Show)

CHOICES

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