



NEXT GEN EMPLOYABILITY PROGRAM

| Creating a future-ready workforce

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College Name:
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CAPSTONE PROJECT

Project Title

Voting Application using Django Framework- LOKESHRAM. S(4033,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.

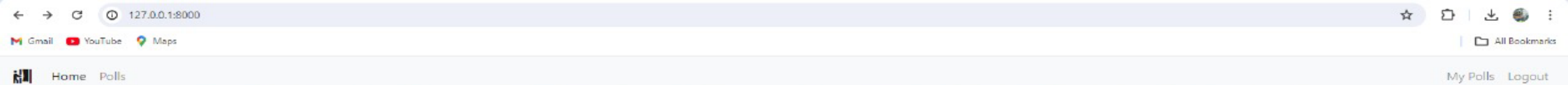
PROJECT OVERVIEW

- 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.

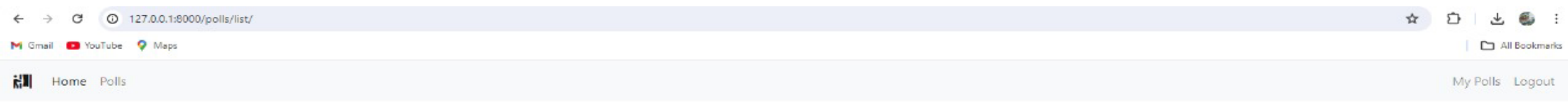
HOME PAGE



PollMe - Get Started!
Your Voice Matters!

Get Started !

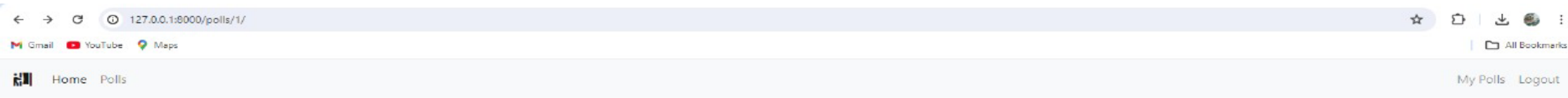
POLL PAGE



Welcome to polls List!

👤 Name	🕒 Date	🗳️ Vote	Add +
<input type="text" value="Search"/>			🔍
Which of these is not ...		🗳️	✎
Which component of Java is ...		🗳️	✎
What is the purpose of ...		🗳️	✎
Which feature of Java makes ...		🗳️	✎

VOTING PAGE



Polls details page

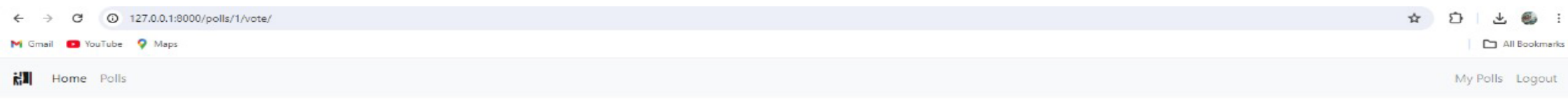
Which of these is not a feature of Java?

- ☐ Object-oriented
- ☐ Platform-independent
- ☒ Compiled

[Vote](#)

[Cancel](#)

VOTING DETAILS PAGE



Result for: Which of these is not a feature of Java?

Total: 1 votes

Compiled-100%	
Object-oriented	0
Platform-independent	0
Compiled	1

[Back To Polls](#)

ADMIN LOGIN PAGE



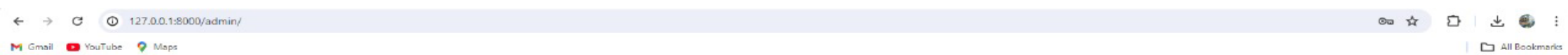
Django administration

Username:

Password:

Log in

ADMIN HOME PAGE



Django administration

WELCOME, **LOKESHRAM** | [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups	+ Add	Change
Users	+ Add	Change

POLLS

Choices	+ Add	Change
Polls	+ Add	Change
Votes	+ Add	Change

Recent actions

My actions

None available

AUTHENTICATION AND AUTHORIZATION PAGE

← → ↺ 127.0.0.1:8000/admin/auth/user/ ☆ 📁 📄 🌐 ⋮

Gmail YouTube Maps All Bookmarks

Django administration WELCOME, LOKESHAM VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Authentication and Authorization > Users

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

POLLS

Choices + Add

Polls + Add

Votes + Add

Select user to change

Q

Search

Action:

 Go 0 of 1 selected

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

1 user

ADD USER +

FILTER

Show counts

By staff status

All

Yes

No

By superuser status

All

Yes

No

By active

All

Yes

No

QUESTIONS ADDING SECTION PAGE

← → ↺ 127.0.0.1:8000/admin/polls/poll/ ☆ 📁 ⬇️ 👤 ⋮

Gmail YouTube Maps

All Bookmarks

Django administration

WELCOME, LOKESH RAM VIEW SITE / CHANGE PASSWORD / LOG OUT

Home > Polls > Polls

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

Groups + Add

Users + Add

POLLS

Choices + Add

Polls + Add

Votes + Add

✔️ The poll "Which feature of Java makes it possible to run a Java program on different platforms?" was added successfully.

Select poll to change

Q

Search

2024 April 14

Action:

Go

 0 of 4 selected

	OWNER	PUB DATE	ACTIVE	CREATED AT
<input type="checkbox"/> TEXT				
<input type="checkbox"/> Which feature of Java makes it possible to run a Java program on different platforms?	lokeshram	April 14, 2024, 1:35 p.m.	✔️	April 14, 2024, 1:36 p.m.
<input type="checkbox"/> What is the purpose of the PATH environment variable in Java?	lokeshram	April 14, 2024, 1:34 p.m.	✔️	April 14, 2024, 1:35 p.m.
<input type="checkbox"/> Which component of Java is responsible for running the compiled Java bytecode?	lokeshram	April 14, 2024, 1:32 p.m.	✔️	April 14, 2024, 1:34 p.m.
<input type="checkbox"/> Which of these is not a feature of Java?	lokeshram	April 14, 2024, 1:31 p.m.	✔️	April 14, 2024, 1:32 p.m.

4 polls

ADD POLL +

FILTER

Show counts

↓ By active

All

Yes

No

↓ By created at

Any date

Today

Past 7 days

This month

This year

↓ By pub date

Any date

Today

Past 7 days

This month

This year

VOTING DETAILS PAGE



Result for: Which of these is not a feature of Java?

Total: 1 votes

Compiled-100%	
Object-oriented	0
Platform-independent	0
Compiled	1

[Back To Polls](#)

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.