NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

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CAPSTONE PROJECT SHOWCASE

Project Title

Voting web application using django

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

Abstract

Voting web application using Django:

This project entails the development of a web application using Django that facilitates voting on polls. The application consists of a home page and a create page. The home page displays available polls with options to vote and view results. Clicking the vote button redirects users to the voting page, and upon submission, displays the results. Alternatively, clicking the view results button redirects users to a results page, which includes the total number of votes and votes for each of the three options. The create page prompts users to input a question and three options to create a new poll, which will then be displayed on the home page for voting.

Problem Statement

The absence of a convenient and efficient platform for creating and participating in polls necessitates the development of a Voting Web application using Django. Users lack a centralized system where they can easily create polls, vote on existing ones, and view comprehensive results. Existing solutions may lack user-friendly interfaces or lack crucial features such as real-time result updates. Thus, there is a need for a web application that addresses these shortcomings, providing users with a seamless experience for creating, voting on, and viewing poll results.

Project Overview

Title : Voting web application using Django

Developer : Ramlath Nisha M

Objectives : Develop secure online voting with Django, ensuring integrity, scalability, and trust.

Structure : Home, Voting Interface,Create a poll, Results.

Materials : Django, SQLite3(Database), HTML/CSS, Python.

Outcome : Secure, scalable system, showcasing Django expertise.

Source : Ramlath Nisha M

Proposed Solution

Solution Overview:

- Develop a web-based voting application using Django framework.
- Create a user interface for creating a poll
- Create an intuitive user interface for casting votes securely.
- Ensure data integrity and confidentiality throughout the voting process.
- Utilize Django's robust features for scalability and administrative control.

Source : Ramlath Nisha M

Speaker Notes:

Our proposed solution is to develop a secure online voting system using Django:

- Django offers rapid development capabilities, enabling us to build the system efficiently. Its built-in features for authentication, database management, and templating simplify development.
- Implementing robust security measures, such as encryption, authentication, and access controls, ensures data integrity and confidentiality throughout the voting process.
- Leveraging Django's scalability capabilities, we can design the system to handle large voter bases and accommodate increasing user interactions seamlessly.

Technology Used

Front-end

Back-end

Source : Ramlath Nisha M

Modelling & Results

Modelling :

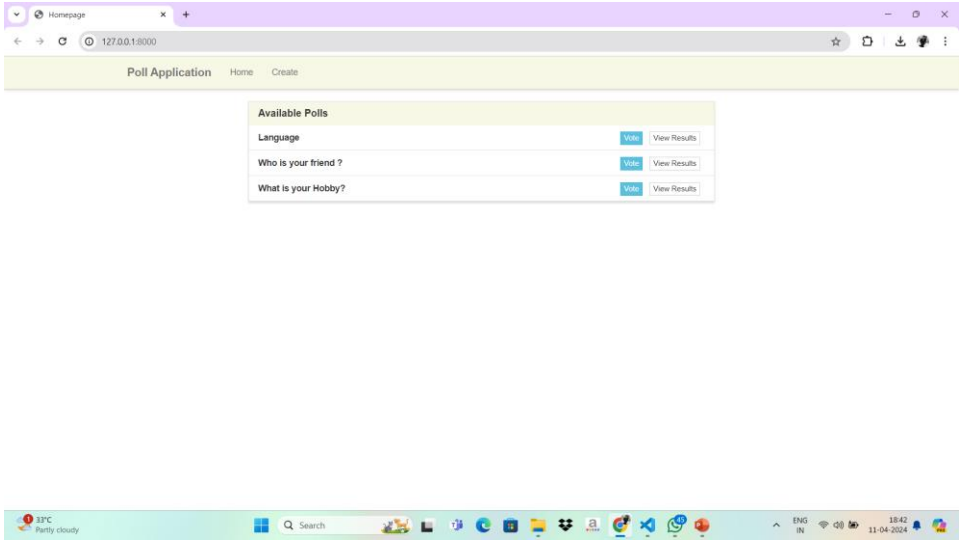
System Architecture:

- Client-server architecture with Django as the backend framework.
- Database schema for storing user data, polls, and voting results.
- Frontend interface using HTML/CSS for user interaction.

Results :

- Response time: Measure system responsiveness to user actions.
- Scalability: Assess system's ability to handle increasing user loads.
- Security: Evaluate effectiveness of security measures in protecting user data.

Homepage



Key Elements:

- Displays Available Polls
- Vote for available polls.
- View the results of the available polls.
- Navigation menu for creating a new poll.

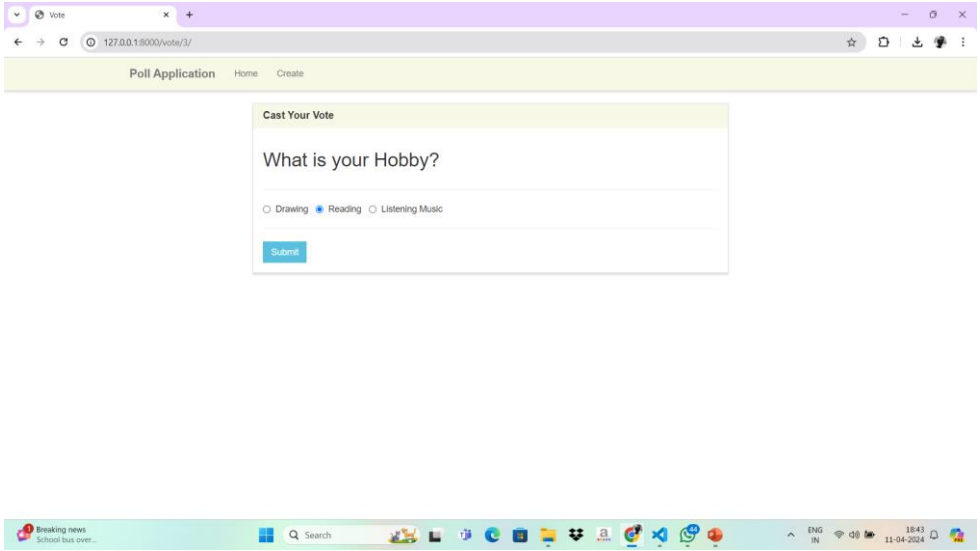
Speaker Notes:

- Homepage emphasizes interaction.
- All users can contribute questions and choices.

Source : Ramlath Nisha M

Vote Page :

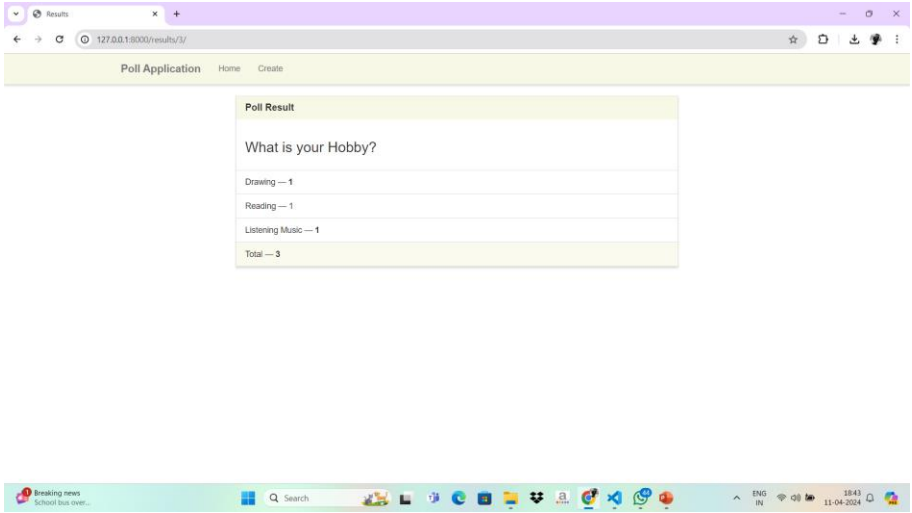
- **Access Poll**: Users access a poll from the home page and select the "vote" option.
- **Redirect to Voting Page**: Upon selection, users are redirected to the voting page.
- **Question and Options**: The voting page presents the question and available options.
- **Vote Submission**: Users select their preferred option and submit their vote.



Source : Ramlath Nisha M

Result page

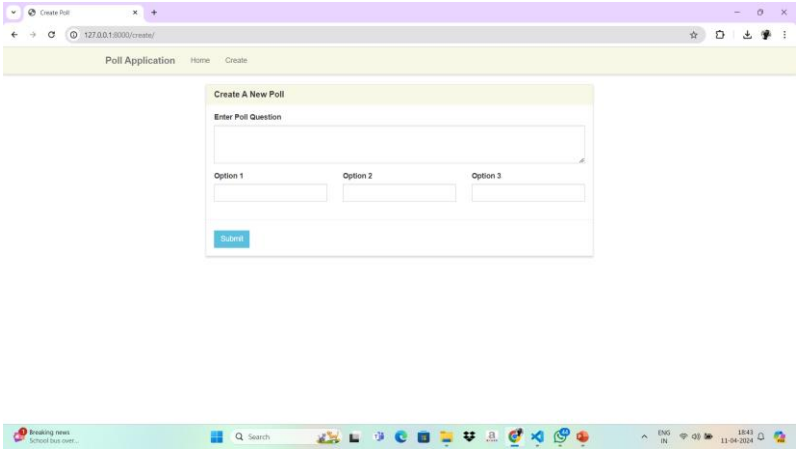
- **Real-time Result Updates**: The system processes the vote and updates the poll's result in real-time.
- **Redirect to Results Page**: After voting, users are redirected to the results page.
- **View Results**: Users can view the latest tally of votes for each option and the total number of votes cast on the results page.



Source : Ramlath Nisha M

Create Poll Page

- **Access:** Accessed from the home page by selecting the "create" option.
- **Input Form:** Presents a form for entering the poll question and three options.
- **Submission**: Users submit the form to create the poll.
- **Display:** The created poll is displayed among the available polls on the home page.



Source : Ramlath Nisha M

Future Enhancements:

Enhanced Profiles: Personalize with avatars and bios.

Voting Analytics: Insights into user trends.

Community Forums: Facilitate user interaction.

Mobile App: Extend accessibility.

Speaker Notes:

- Enhance profiles for personalization.
- Provide voting analytics for insights.
- Add community forums for interaction.
- Develop a mobile app for wider accessibility.

Conclusion :

Title: Advanced Online Voting

Recap : Highlight key features and benefits.

Commitment: Promise ongoing improvements.

Engagement: Encourage user participation.

Appreciation: Thank users for their support.

Speaker Notes:

- Encourage user engagement and contributions.
- Express gratitude for user support in building a stronger platform.

Thank You!