NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

Team Members

Student Name : Nivetha B.L
Student ID : au613021104063

College Name

Vivekanandha College Technology For Women

CAPSTONE PROJECT SHOWCASE

Project Title

Notes Sharing Web Application using Django Framework

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

Abstract

- This project aims to develop a notes sharing web application using the Django framework.

- The application facilitates users to create, edit, view, and share notes with other users within the platform.

- Django, a high-level Python web framework, is chosen for its robustness, scalability, and ease of development

- Key features of the notes sharing web application include user authentication, allowing users to register, login, and manage their accounts securely.

Source :

Problem Statement

- In today's digital age, efficient collaboration and information sharing are essential for individuals and teams across various domains. However, existing note-taking applications often lack robust collaboration features or are limited by platform dependencies. To address this issue, we propose to develop a notes sharing web application using the Django framework.

  1.Create Notes: Users should have the ability to create new notes, categorize them, and add relevant content using a rich text editor.

  2.Share Notes: Users should be able to share their notes with other registered users, granting them view or edit permissions as desired. Collaborative editing features should be implemented to enable real-time collaboration among users.

  3.Access Control: The application should enforce access control mechanisms to ensure that only authorized users can view or edit shared notes. Permissions management should be intuitive and flexible, allowing note owners to revoke access if necessary.

  4.User Interface: The user interface should be intuitive, responsive, and aesthetically pleasing. Users should be able to navigate the application easily, view their notes, and interact with shared notes effortlessly.

  5.Security: Data security is paramount. The application should implement robust authentication and authorization mechanisms to protect user accounts and sensitive information. Additionally, measures should be taken to prevent common security vulnerabilities such as cross-site scripting (XSS) and SQL injection.

  6.Scalability and Performance: The application should be designed to scale gracefully as the user base grows. Performance optimizations should be implemented to ensure fast response times and smooth user experience, even under heavy loads.

Source :

Project Overview

Creating a notes sharing web application using the Django framework involves several steps. Here's an overview of the project:

1. **Project Setup**

2. **Database Models**

3. **Views and URLs**

4. **Templates**

5. **Forms**

6. **Authentication and Authorization**

7. **Static Files**

8. **Testing**

9. **Deployment**

10. **Security**

11. **Documentation**

12. **Maintenance and Updates.**

Source :

Proposed Solution

. proposed solution for building a notes sharing web application using Django framework:

1.**Project Setup:**
- •Install Django and create a new project named "**notes_app**."
- •Set up a virtual environment to manage dependencies.
- •create a new Django app named **notes**.

2.**Database Models:**
- •Define a **Note** model to store notes with fields such as **title**, **content**, **created_at**, and **user** (for the user who created the note).
- •Implement a custom user model or extend Django's built-in **User** model to include additional fields like **profile_picture** or **bio**.

3.**Views and URLs:**
- • Create views for functionalities like creating, editing, deleting, and viewing notes.
- • Define URLs to map these views to appropriate endpoints.

Source :

Technology Used

Front-end

Back-end

Source :

Modelling & Results

Homepage

About-Us-Page

Service-Page

Departments-Page

Blog-Page

Future Enhancements:

Conclusion

Thank You!