





NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

Team Members

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VIVEKANANDHA COLLEGE OF 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 feature-rich notes sharing web application using Python and the Django framework. Through an intuitive and customizable interface, users can create, organize, and share notes effortlessly. Leveraging advanced collaboration tools such as real-time editing and commenting, the platform facilitates interactive learning experiences and knowledge exchange. With emphasis on performance optimization and scalability, the application caters to the needs of diverse user communities, from students to professionals.



Problem Statement

Real-Time Collaboration Feature : Integrate real-time collaboration features into the application to enable multiple users to edit and view notes simultaneously, fostering better teamwork and productivity.



Project Overview

The proposed solution aims to develop a robust notes sharing web application using Python with the Django framework. This application will facilitate seamless sharing and collaboration on notes among users, providing a user-friendly interface and robust security measures.

Our Notes Sharing Web Application built on Python with the Django framework has laid a strong foundation for collaborative note-taking and sharing. However, to ensure its continued relevance and competitiveness in the ever-evolving landscape of digital collaboration tools, we propose several future enhancements aimed at enriching user experience, enhancing functionality, and optimizing performance.



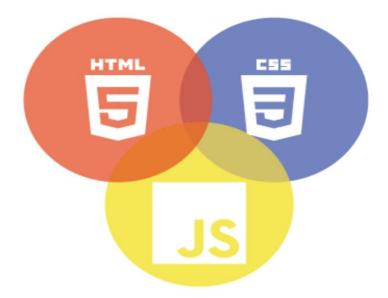
Proposed Solution

- ✓ The proposed solution aims to develop a robust notes sharing web application using Python with the Django framework. This application will facilitate seamless sharing and collaboration on notes among users, providing a user-friendly interface and robust security measures.
- ✓ Implement a secure user authentication system allowing users to sign up, log in, and manage their accounts securely.
- ✓ Users can create, edit, and delete their notes. Rich text editing capabilities can be integrated to enhance the note-taking experience.
- ✓ Enable users to share their notes with other users, allowing for real-time collaboration on notes. Implement features such as version control to track changes and revisions.

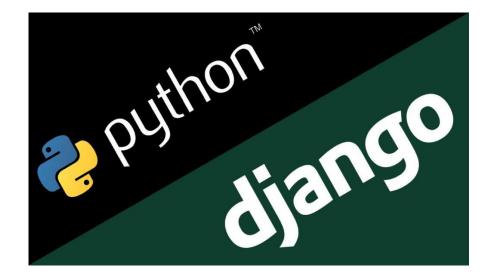


Technologies Used

Frontend



Backend





Modelling & Results

- **Python:** Utilize Python as the primary programming language for backend development due to its simplicity, versatility, and extensive libraries.
- **Django Framework:** Leverage the Django framework for rapid development, built-in security features, and scalability.
- HTML/CSS/JavaScript: Use these technologies for frontend development to create an intuitive and interactive user interface.
- SQLite/PostgreSQL: Employ SQLite during development for its simplicity and switch to PostgreSQL for production for better scalability and performance.
- **RESTful API:** Develop a RESTful API to facilitate communication between the frontend and backend, enabling seamless integration with other platforms and services.

Results $\rightarrow \rightarrow \rightarrow$ next slides



Home Page





SignUp Page

project Home L Sign up DLog in
Username: Required. 150 characters or fewer. Letters, digits and @//+/-/_only, Email: Phone no: Password: Your password can't be too similar to your other personal information. Your password must contain at least 8 characters. Your password can't be a commonly used password. Your password can't be entirely numeric. Password confirmation: Enter the same password as before, for verification. First name: Last name: ✓ sign up



Home ♣ Sign up ♣ Log in

Login Page

project		
	Username: Password:	
	• login	
	don't have account,sign up	



Files Uploading Page

	Upload Files
File uploaded	d successfully.
File Name	
File	
Choose File	No file chosen
Submit	
	View File

S.No	File Name	File	Delete
1	RS	RS - Unit 1 Notes.pdf	Delete



Files Deleting Page

	Upload Files	
File deleted s	successfully.	
File Name		
File		
Choose File	No file chosen	
Submit		



Future Enhancements

- Ensure full mobile responsiveness to provide a seamless experience across various devices and screen sizes.
- Consider developing native mobile apps for iOS and Android platforms to offer a more tailored and optimized experience.
- Optimize database queries, caching mechanisms, and server-side processing to improve overall application performance.
- Implement lazy loading techniques to efficiently handle large volumes of notes and improve page load times.



Conclusion

The proposed solution aims to deliver a feature-rich and scalable notes sharing web application that meets the needs of users seeking a platform for collaborative note-taking and knowledge sharing. By leveraging Python with the Django framework and following best practices in software development, the application will provide a seamless and secure user experience while enabling efficient collaboration and productivity.



Thank You!