





#### **NEXT GEN EMPLOYABILITY PROGRAM**

**Creating a future-ready workforce** 

**Team Members** 

**Student Name: Haritha R** 

Student ID: au613021205015

**College Name** 

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 build a comprehensive notes sharing web application using Python and Django, offering a rich set of features for collaborative note-sharing. By incorporating elements of social networking and document management, the platform empowers users to engage in meaningful discussions, share insights, and collectively build knowledge repositories. Through seamless integration with third-party tools and APIs, the application ensures flexibility and extensibility, catering to diverse user preferences and workflows.



#### **Problem Statement**

**Data Synchronization Across Devices:** Implement robust data synchronization mechanisms to ensure that changes made to notes are automatically synchronized across all devices and platforms, providing a seamless user experience.



#### **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**





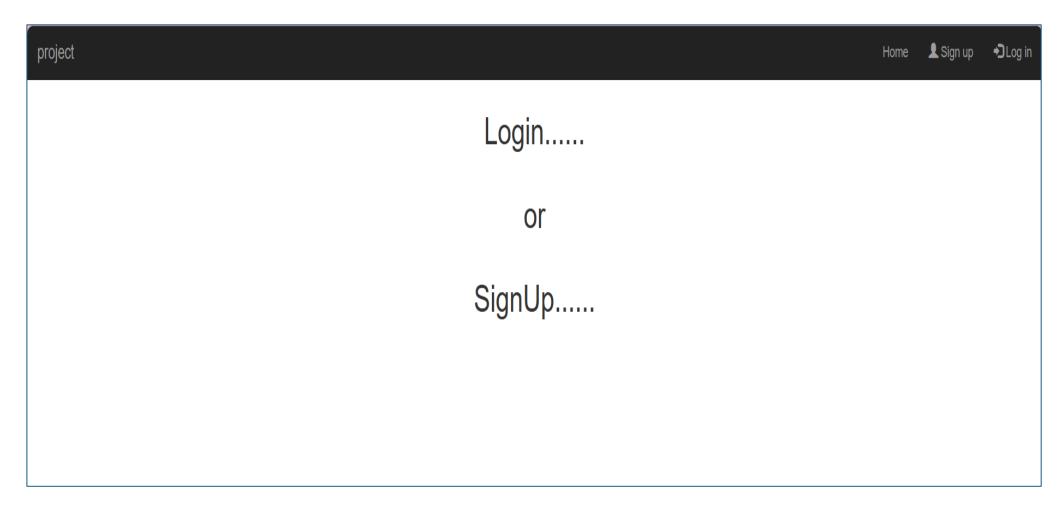
#### Modelling & Results

- **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	<b>♣</b> Sign up	<b>→</b> DLog in
Username:			
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only. Email:			
Phone no: Password:			
<ul> <li>Your password can't be too similar to your other personal information.</li> <li>Your password must contain at least 8 characters.</li> <li>Your password can't be a commonly used password.</li> <li>Your password can't be entirely numeric.</li> </ul>			
Password confirmation:			
Enter the same password as before, for verification. First name:  Last name:			
<b>⊠</b> sign up			
Already have an account?			



## **Login Page**

project		Home
	Username: Password:	
	<b>♥</b> login	
	don't have account, sign up	



#### Files Uploading Page

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

#### **View File**

S.No	File Name	File	Delete	
1	ppt 1	Presentation1.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!**