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## NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

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# 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 web application for sharing notes using Python with the Django framework. The application provides a user-friendly interface for creating, organizing, and sharing notes securely. Users can collaborate in real-time, edit notes, and comment on shared content, facilitating seamless knowledge exchange and collaboration in academic and professional settings.

## Problem Statement

**User Authentication Enhancement:** Implement a more secure and user-friendly authentication system for the notes sharing web application, allowing users to sign up, log in, and reset their passwords securely.

## 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

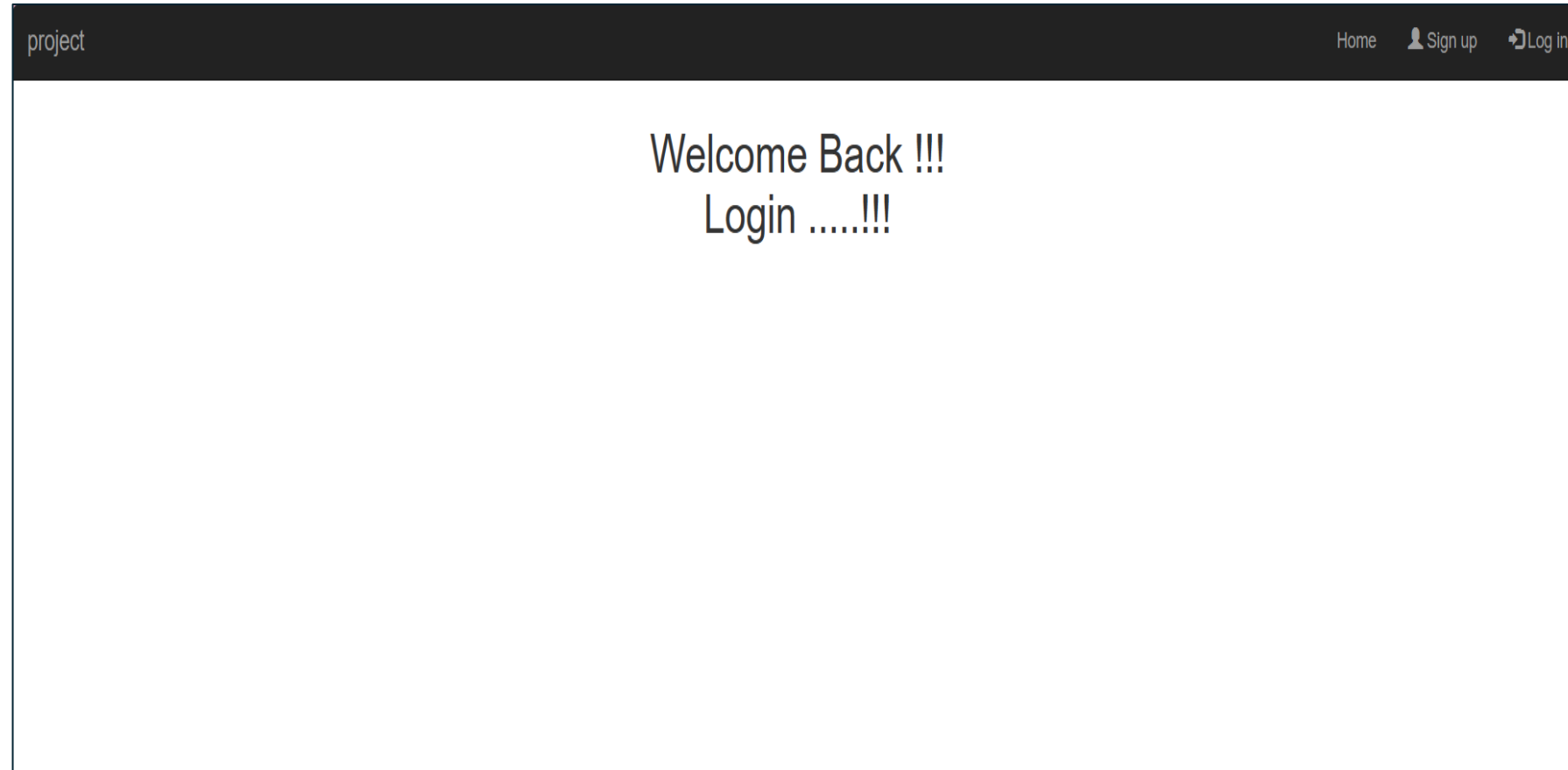
- **Python:** Utilize Python as the primary programming language for backend development due to its simplicity, versatility, and extensive libraries.
- **Django Framework:** Leverage the Django framework for rapid development, built-in security features, and scalability.
- **HTML/CSS/JavaScript:** Use 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 →→→ next slides





## Home Page



## SignUp Page

project

HomeSign upLog 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

[Already have an account ?](#)

## Login Page

project [Home](#) [Sign up](#) [Log in](#)

Username:  Password:

login

[don't have account, sign up](#)

## Files Uploading Page

### Upload Files

File uploaded successfully.

File Name

File

Choose File

No file chosen

Submit

### View File

S.No	File Name	File	Delete
1	college	<a href="#">Ex - 567.pdf</a>	Delete

## Files Deleting Page

### Upload Files

File deleted successfully.

File Name

File

Choose File

No file chosen

## 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 !**