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 focuses on developing a robust and scalable notes sharing web application using Python and Django. With an emphasis on user experience and collaboration, the platform enables seamless creation, sharing, and discussion of notes among individuals and groups. Through integration with popular productivity tools and cloud services, users can access their notes from anywhere, ensuring continuity and accessibility of learning resources.

Problem Statement

Access Control and Permissions : Implement access control and permission management functionalities, allowing users to control who can view, edit, and share their notes, ensuring privacy and data security.

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.

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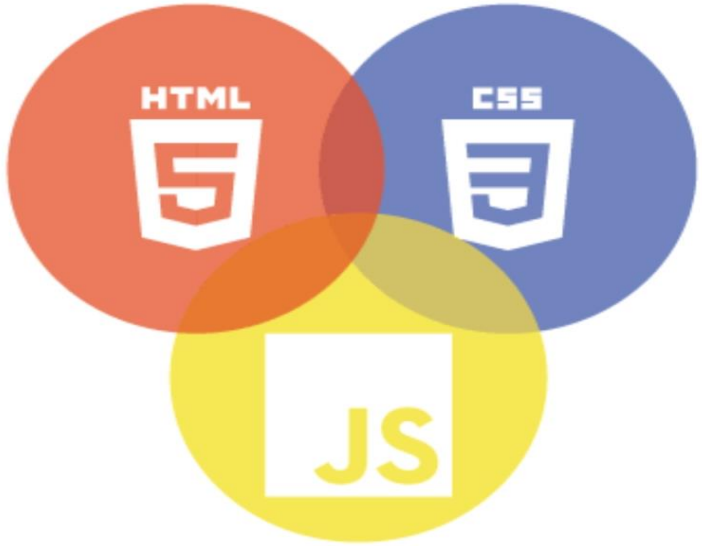
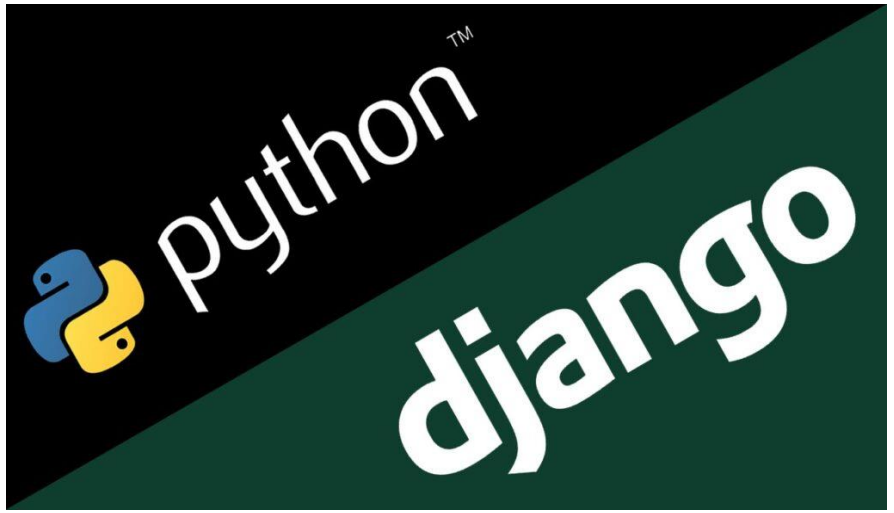
Technologies Used

Frontend



Backend



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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

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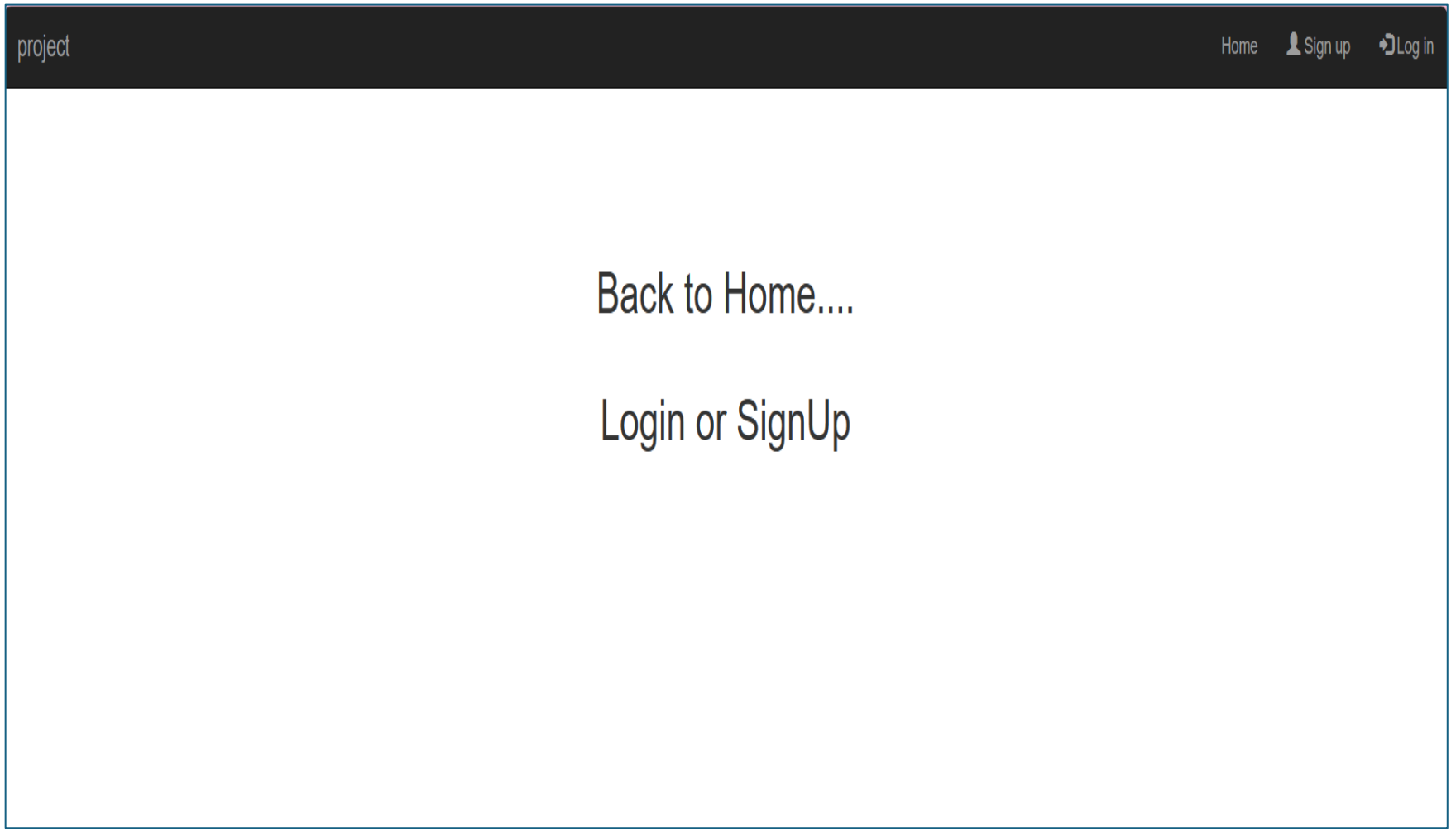
Home Page



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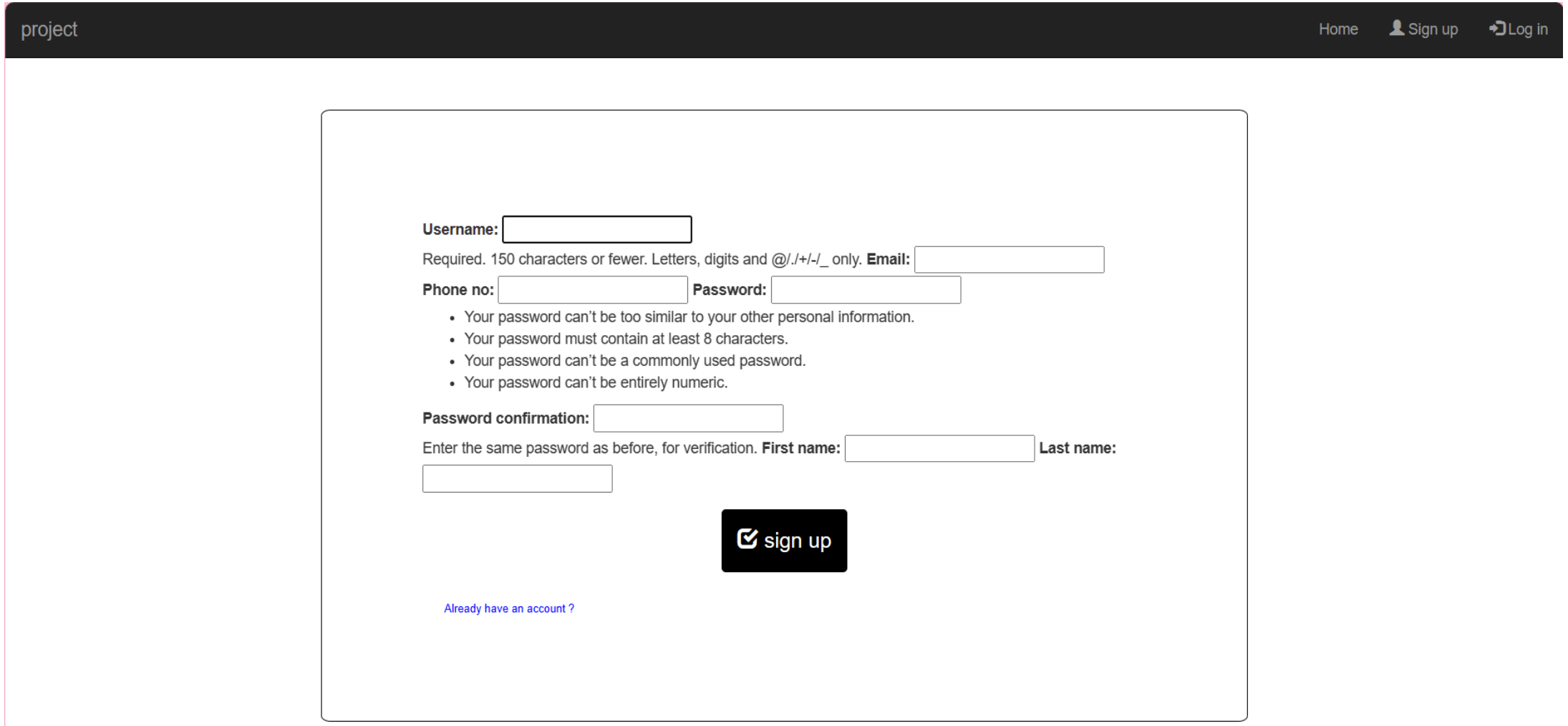
SignUp Page



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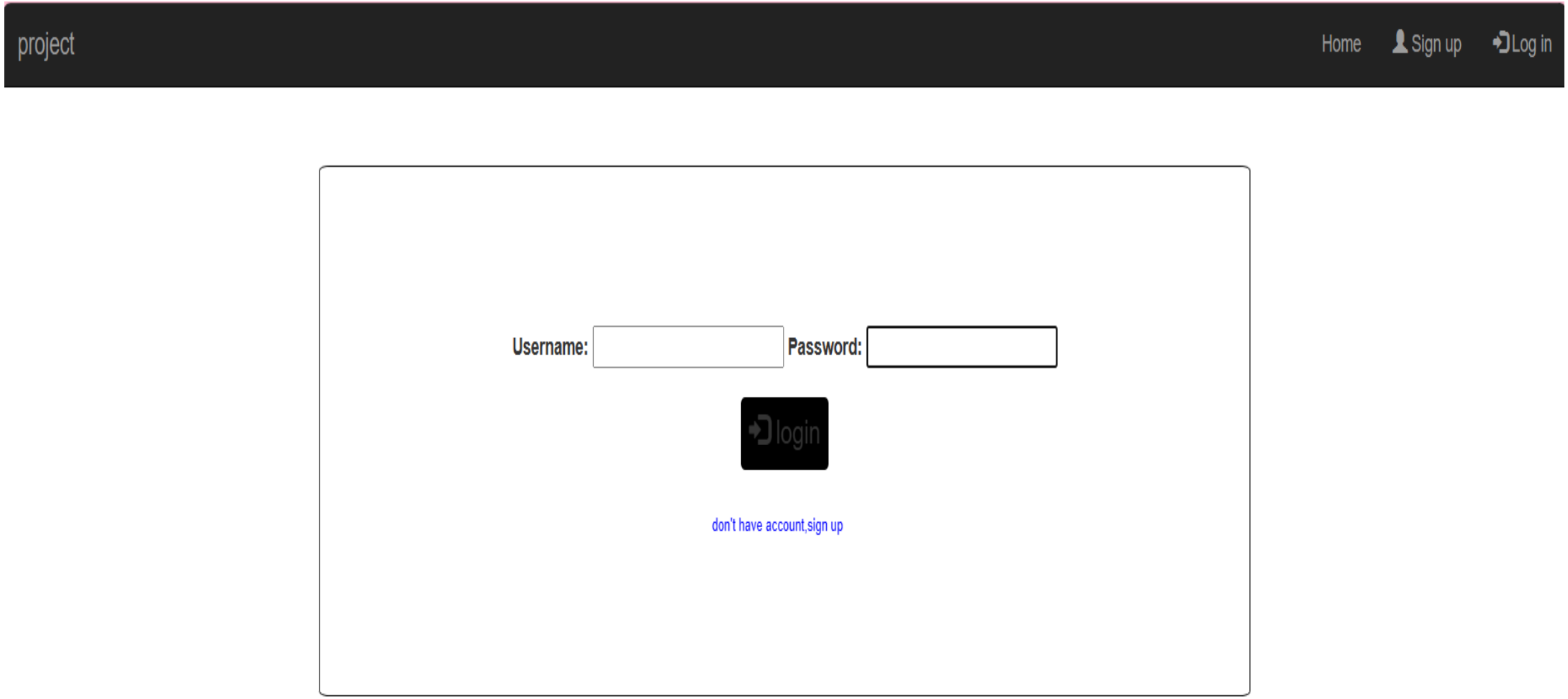
Login Page



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Files Uploading Page

Upload Files

File uploaded successfully.

File Name

File

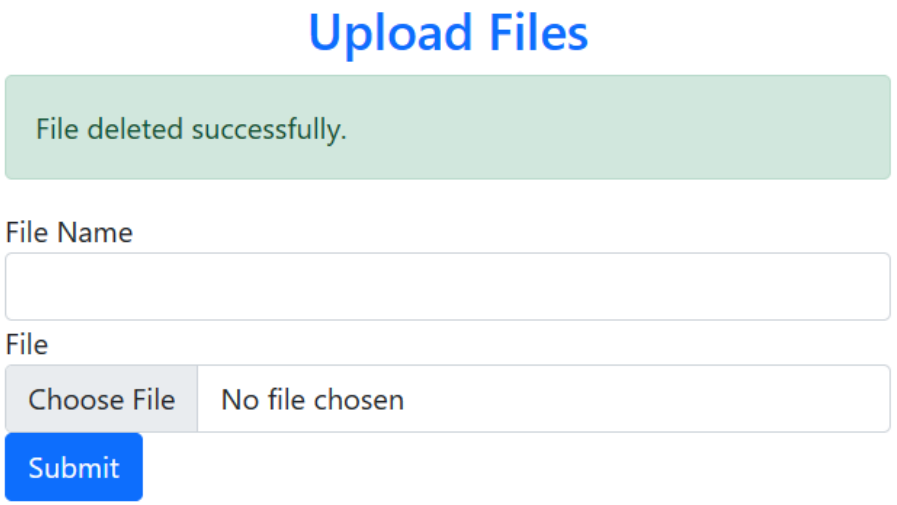
Choose File | No file chosen

Submit

View File

S.No	File Name	File	Delete
1	OOSE notes	CS8582-OBJECT ORIENTED ANALYSISAND DESIGN LABORATORY-1.pdf	Delete

Files Deleting Page



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.

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Thank You !