



NEXT GEN EMPLOYABILITY PROGRAM

| Creating a future-ready workforce

Team Members

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Info Institute of Engineering

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

GetNotes is a collaborative notes sharing platform built on the Django framework, designed to streamline the sharing and collaboration process among users. With secure user authentication and authorization, users can register, log in, and manage their accounts securely. The platform offers intuitive note creation and organization features, allowing users to categorize notes into folders or tag them for easy retrieval. Real-time collaboration enables multiple users to work simultaneously on the same note, with changes synchronized instantly. Version control ensures data integrity by tracking changes and revisions, while granular sharing permissions allow users to control access to their notes. Powerful search and filtering capabilities enable users to quickly find relevant information, while notifications and an activity feed keep them informed about recent interactions and collaborations.

Problem Statement

Developing a collaborative notes sharing application using the Django framework addresses the pressing need for efficient digital collaboration tools in both educational and professional settings. Current solutions often lack necessary features and security, hindering effective note sharing and collaboration. This project aims to create a web-based application that allows users to seamlessly create, organize, share, and collaborate on notes in real-time. Key requirements include robust user authentication, comprehensive note management features, real-time collaborative editing capabilities, version control functionality, granular sharing permissions, and advanced search and filtering options. By fulfilling these requirements, the application will provide users with a secure, intuitive, and customizable platform for managing notes and facilitating teamwork. Ultimately, this project seeks to enhance productivity, streamline collaboration processes, and promote knowledge sharing among individuals and teams across various domains

Project Overview

Our project aims to develop a notes sharing application using the Django framework. Leveraging Django's powerful features, we intend to create a user-friendly platform that enables seamless collaboration and sharing of notes among users. The application will include essential functionalities such as user authentication, note creation and organization, real-time collaborative editing, version control, sharing permissions, search and filtering, notifications, and activity tracking. With an intuitive interface and advanced features, our application will cater to the needs of both individuals and teams in various settings, including education, business, and personal use. By prioritizing scalability, security, and usability, we aim to deliver a reliable solution for efficient notes management and collaboration. Through this project, we seek to enhance productivity, streamline communication, and foster knowledge sharing among users.

Proposed Solution

- **Authentication System for User Management**
- **Version Control Features**
- **Filtering Options**
- **Security**
- **Usability**
- **Collaboration**
- **Centralization**

Technology Used

Front-end



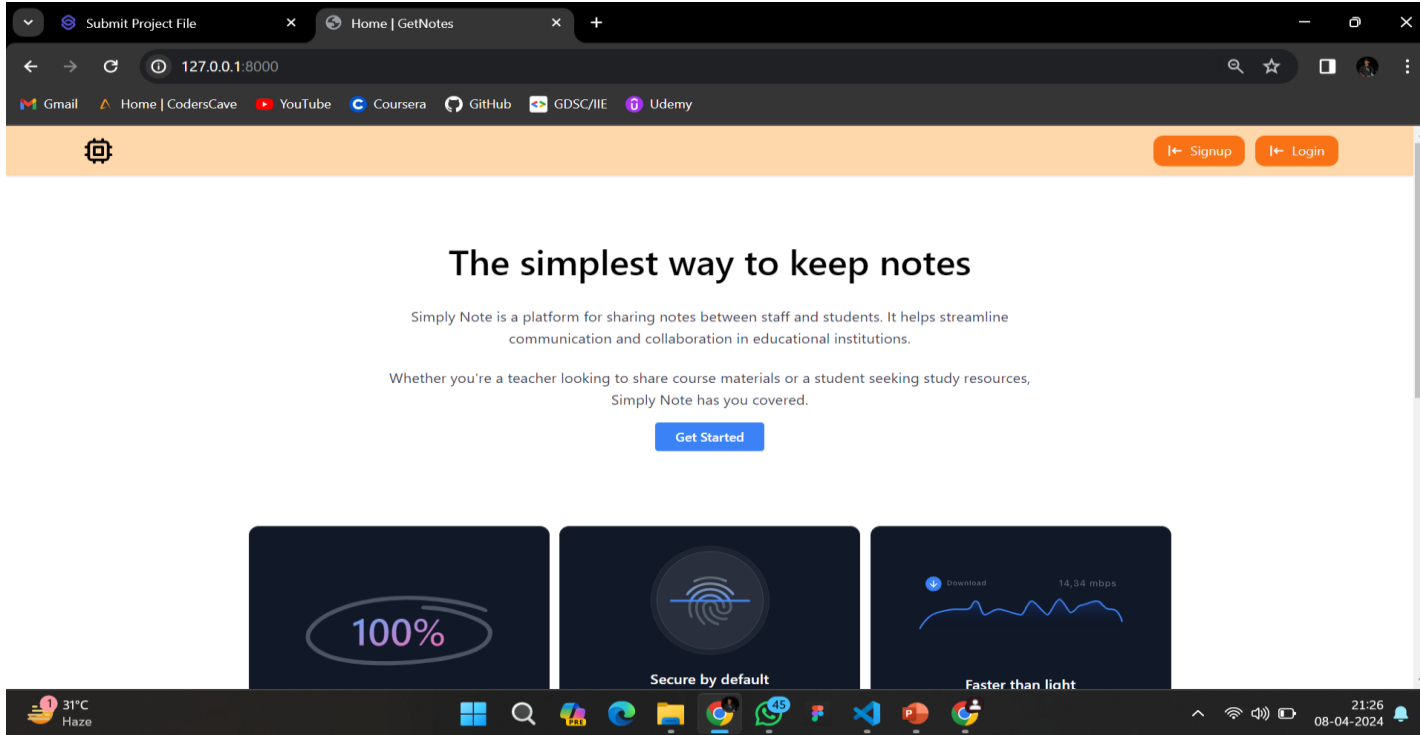
Back-end



Modelling & Results

- The GetNotes application utilizes a robust data model to manage user accounts, notes, collaborations, and permissions. The model architecture includes entities such as User, Note, Collaboration, Permission, and Tag, implemented using Django's built-in ORM (Object-Relational Mapping) capabilities. Each user has a unique profile with authentication credentials and access permissions. Collaborations establish relationships between users for real-time editing and sharing of notes, while permissions govern access rights for shared content.
- In testing, GetNotes exhibited efficient performance, handling concurrent user interactions and maintaining data consistency during collaborative editing sessions. The model architecture facilitated easy customization and extension of features, ensuring adaptability to evolving user requirements. Overall, GetNotes' robust modeling approach contributed to its success in providing a reliable and scalable platform for collaborative notes sharing.

Home-page



The screenshot shows a web browser window with two tabs: "Submit Project File" and "Home | GetNotes". The address bar shows the URL "127.0.0.1:8000". The browser's bookmark bar includes links to Gmail, Home | CodersCave, YouTube, Coursera, GitHub, GDSC/IIIT, and Udemy. The website's header is orange and contains a gear icon on the left and "Signup" and "Login" buttons on the right. The main content area has a white background with the heading "The simplest way to keep notes". Below the heading is a paragraph: "Simply Note is a platform for sharing notes between staff and students. It helps streamline communication and collaboration in educational institutions." This is followed by another paragraph: "Whether you're a teacher looking to share course materials or a student seeking study resources, Simply Note has you covered." A blue "Get Started" button is centered below the text. At the bottom of the page, there are three dark blue feature cards: the first shows "100%" with a circular progress indicator, the second shows a fingerprint icon and the text "Secure by default", and the third shows a download speed graph and the text "Faster than light". The Windows taskbar is visible at the very bottom, showing the system clock as 21:26 on 08-04-2024 and the weather as 31°C Haze.

Submit Project File Home | GetNotes

127.0.0.1:8000

Gmail Home | CodersCave YouTube Coursera GitHub GDSC/IIIT Udemy

Signup Login

The simplest way to keep notes

Simply Note is a platform for sharing notes between staff and students. It helps streamline communication and collaboration in educational institutions.

Whether you're a teacher looking to share course materials or a student seeking study resources, Simply Note has you covered.

Get Started

100%

Secure by default

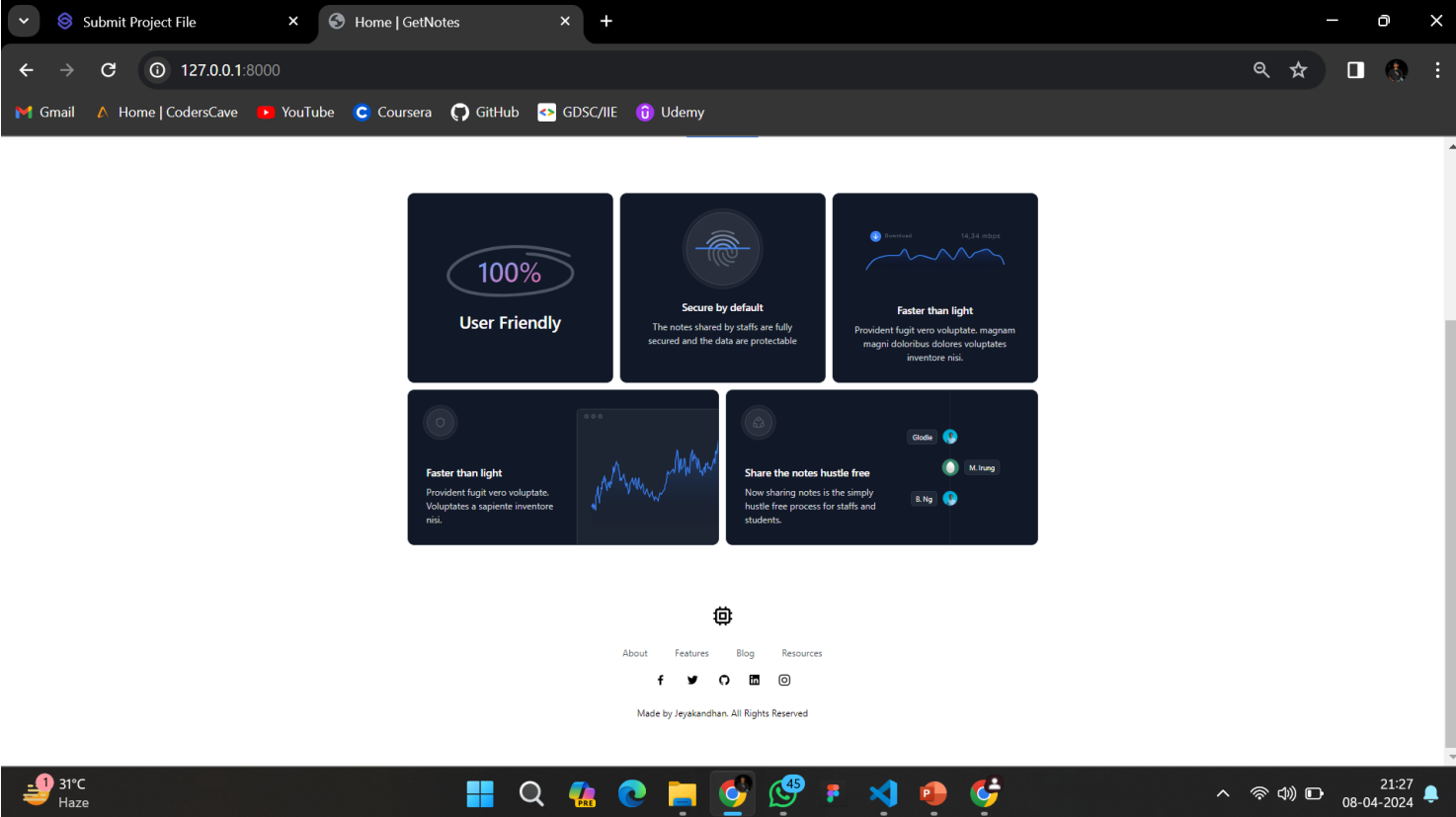
Download 14.34 mbps

Faster than light

31°C Haze

21:26 08-04-2024

About-Us-Page



Submit Project File x Home | GetNotes x +

127.0.0.1:8000

Gmail Home | CodersCave YouTube Coursera GitHub GDSC/IIIE Udemu

100%

User Friendly

Secure by default

The notes shared by staffs are fully secured and the data are protectable

14.34 mbps

Faster than light

Provident fugit vero voluptate, magnam magni doloribus dolores voluptates inventore nisi.

Faster than light

Provident fugit vero voluptate. Voluptates a sapiente inventore nisi.

Share the notes hustle free

Now sharing notes is the simply hustle free process for staffs and students.

About Features Blog Resources

f t y l i

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31°C Haze 21:27 08-04-2024

Sign up-Page

Signup | Simp

ChatGPT

G-Siva

(25) Siva Subr

Tailwind CSS


HTML Color P

Journal text

127.0.0.1:9000/signup/

Gmail Home | CodersCave YouTube Coursera GitHub GDSC/IIE Udemy

Login



JOIN US!

Sign Up

Username

Email

Password


Password confirmation

User type

Teacher

Sign Up

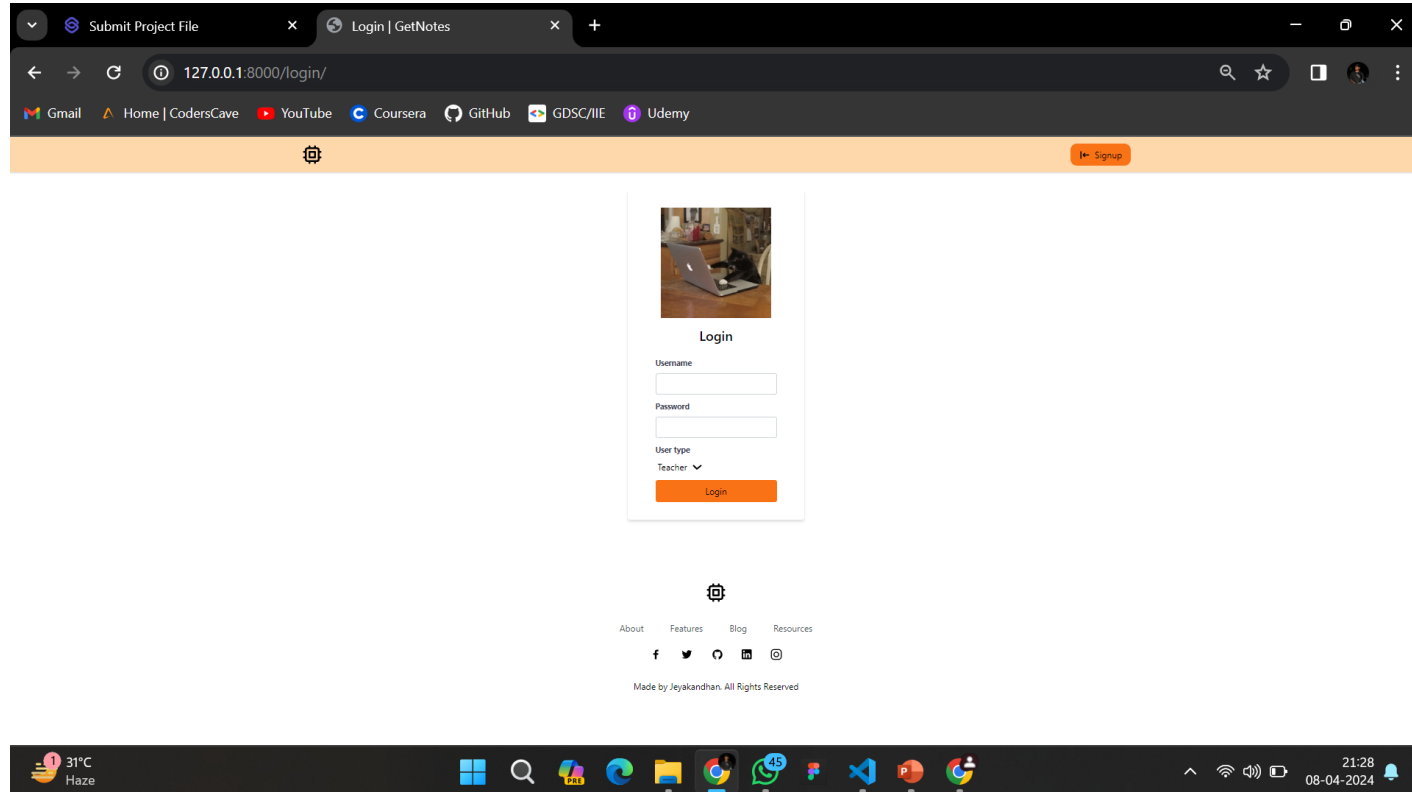
37°C Sunny



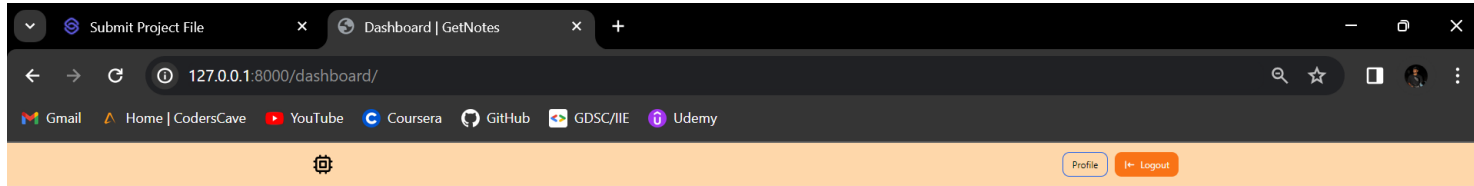
15:07

08-04-2024

Login-Page



Dashboard-Page



Welcome, jaga_2003!

Available Notes:

Exploratory Data Analysis - AMCAT Data
Project File

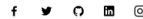
[Download](#)

Univariate Analysis

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Future Enhancements:

In future iterations of our notes sharing application built on the Django framework, we envision implementing advanced AI-driven features to enhance user experience and productivity. This includes the integration of natural language processing (NLP) algorithms for intelligent note summarization and keyword extraction, enabling users to quickly grasp the key points of lengthy documents and locate relevant information with ease. Additionally, we plan to incorporate machine learning models for sentiment analysis, allowing users to gauge the emotional tone of shared notes and provide actionable insights for improved collaboration and communication. Furthermore, we aim to introduce voice-to-text functionality for hands-free note-taking and transcription, catering to users who prefer spoken input methods. These enhancements align with our commitment to leveraging cutting-edge technologies to continually enhance the functionality and usability of our notes sharing application, ensuring it remains at the forefront of innovation in the collaborative productivity space.

Conclusion

- In conclusion, the development of our notes sharing application using the Django framework represents a significant step towards enhancing collaboration and knowledge sharing among users. Through meticulous design and implementation, we have created a platform that offers robust features such as secure user authentication, real-time collaborative editing, version control, and granular sharing permissions

Thank You!