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NEXT GEN EMPLOYABILITY PROGRAM

Creating a future-ready workforce

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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

Our project focuses on creating an innovative notes sharing web application utilizing Python and Django technologies. The platform provides a centralized hub for users to create, share, and collaborate on notes, fostering a dynamic learning ecosystem. With a focus on user privacy and data security, the application employs robust encryption and access control mechanisms, ensuring confidentiality and integrity of shared content.

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

- ✓ Implement a robust search functionality allowing users to easily find specific notes based on keywords, tags, or categories.
- ✓ Provide users with customizable profiles where they can manage their preferences, view shared notes, and connect with other users.
- ✓ Employ best practices for security, including encryption of sensitive data, protection against common web vulnerabilities such as CSRF and XSS attacks, and secure storage of user credentials.
- ✓ Develop a responsive web design ensuring the application is accessible and functional across various devices and screen sizes.
- ✓ Provide an admin dashboard with tools to manage users, monitor activity, and moderate content.

Technologies Used

Frontend



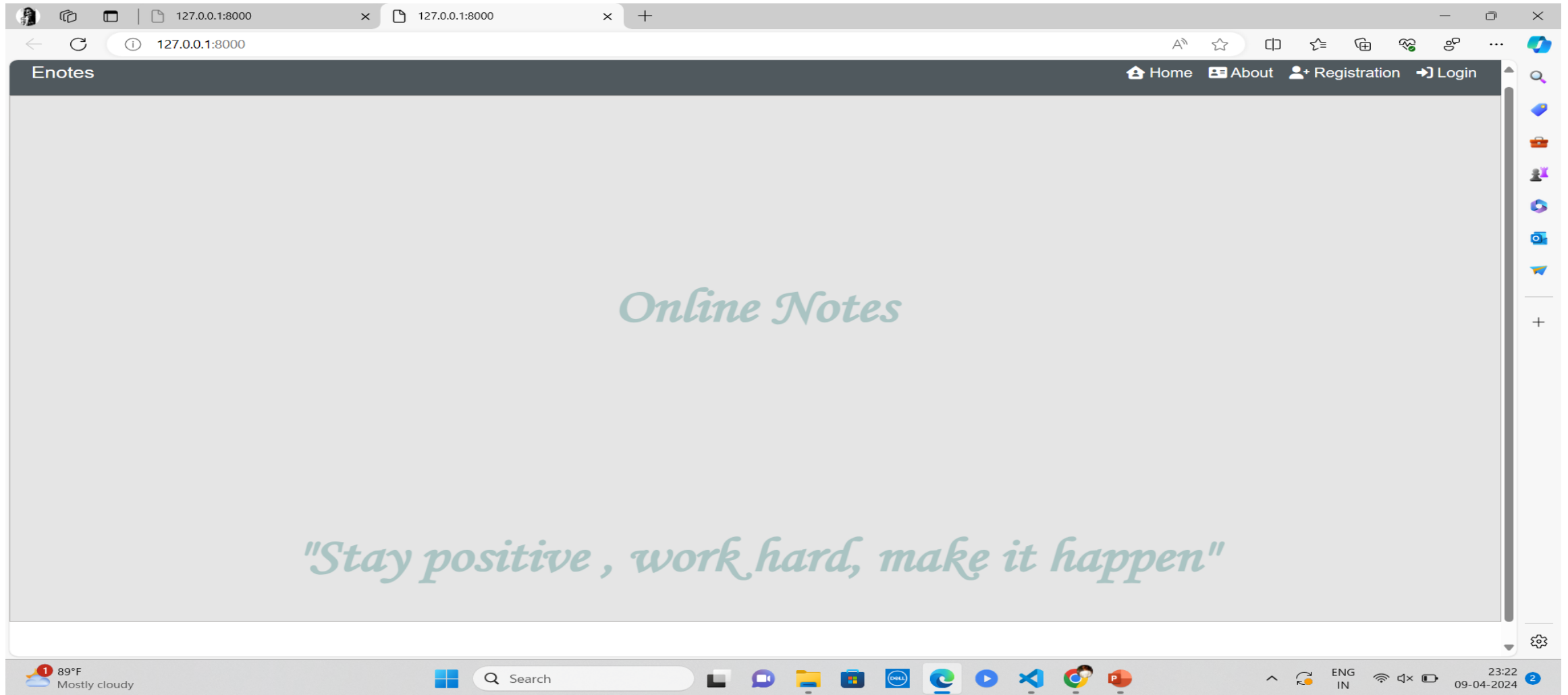
Backend



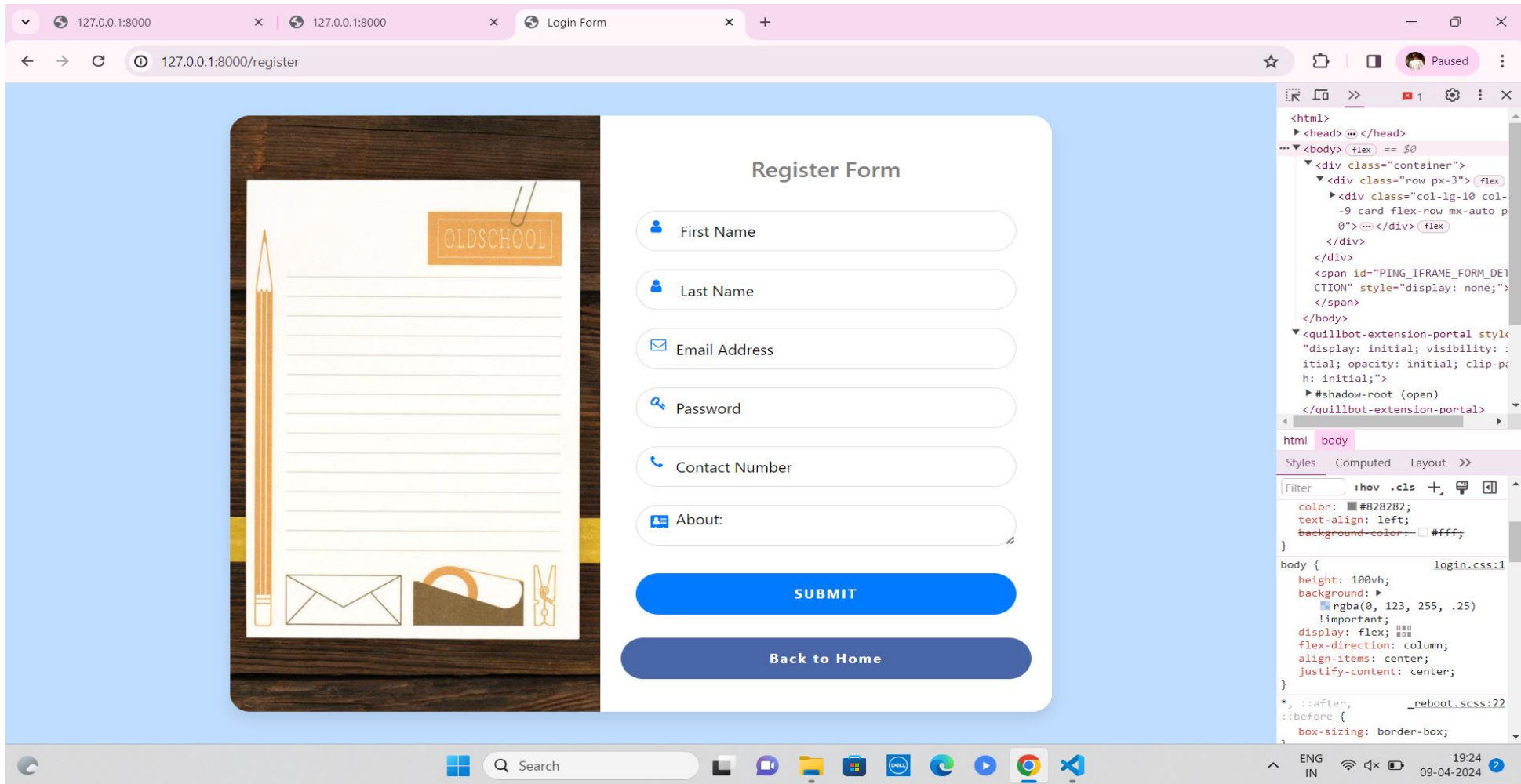
Modelling & Results

- **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.

Home Page



SignUp Page



127.0.0.1:8000

127.0.0.1:8000

Login Form

127.0.0.1:8000/register

Register Form

First Name

Last Name

Email Address

Password

Contact Number

About:

SUBMIT

Back to Home

```
<html>
<head>
</head>
<body>
  <div class="container">
    <div class="row px-3">
      <div class="col-lg-10 col-
        -9 card flex-row mx-auto p
        0">
        </div>
      </div>
      <span id="PING_IFRAME_FORM_DE
        CTION" style="display: none;">
      </span>
    </body>
  </div>
  <quillbot-extension-portal style
    "display: initial; visibility: :
    itial; opacity: initial; clip-pa
    h: initial;">
    <#shadow-root (open)
    </quillbot-extension-portal>
  </div>
</html>
```

html body

Styles Computed Layout >>

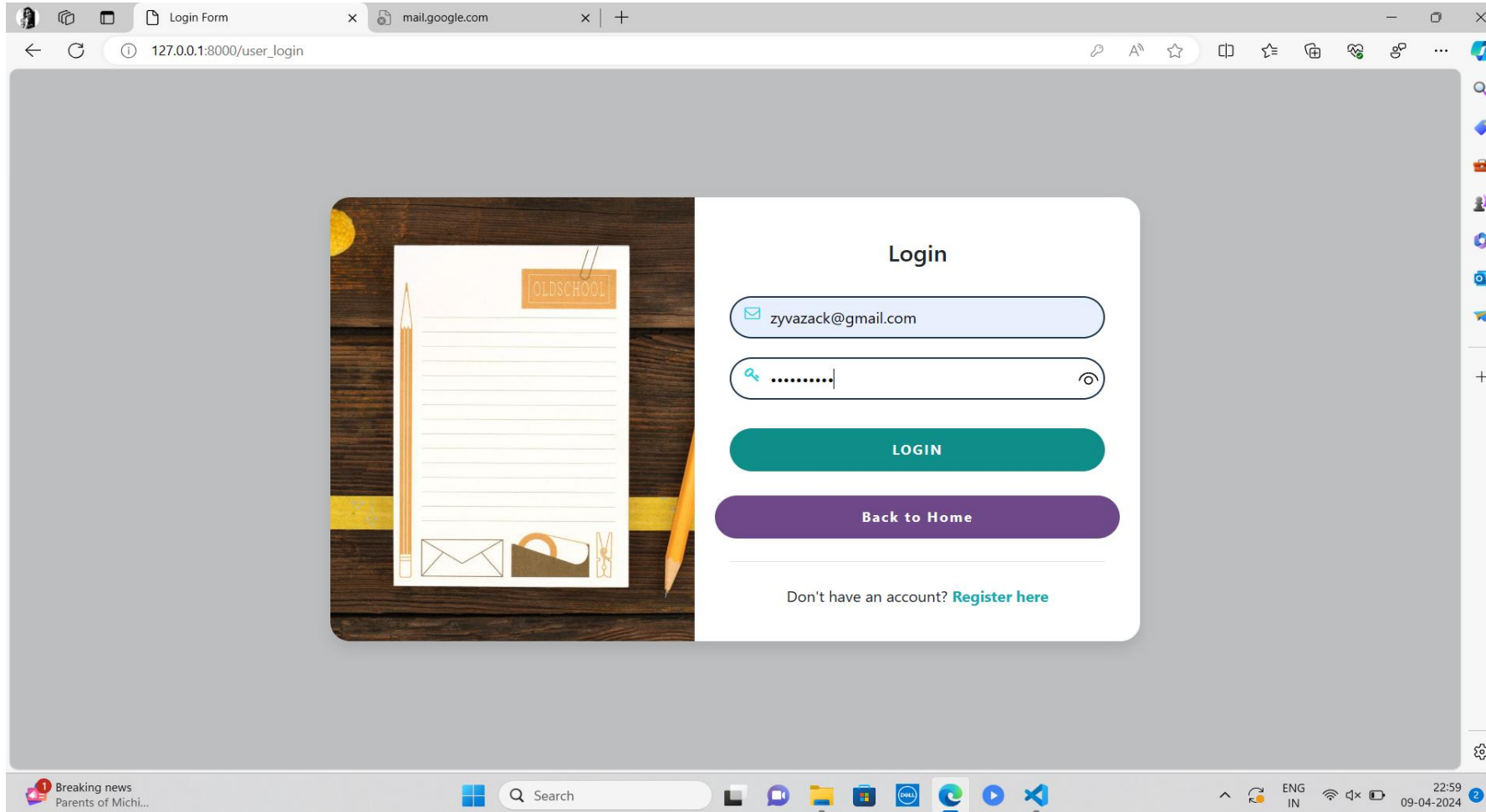
Filter :hov .cls + -

color: #828282; text-align: left; background-color: #fff;

```
body {
  height: 100vh;
  background:
    rgba(0, 123, 255, .25)
  !important;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
}
```

ENG IN 19:24 09-04-2024

Login Page



127.0.0.1:8000/user_login

Login

zyvazack@gmail.com

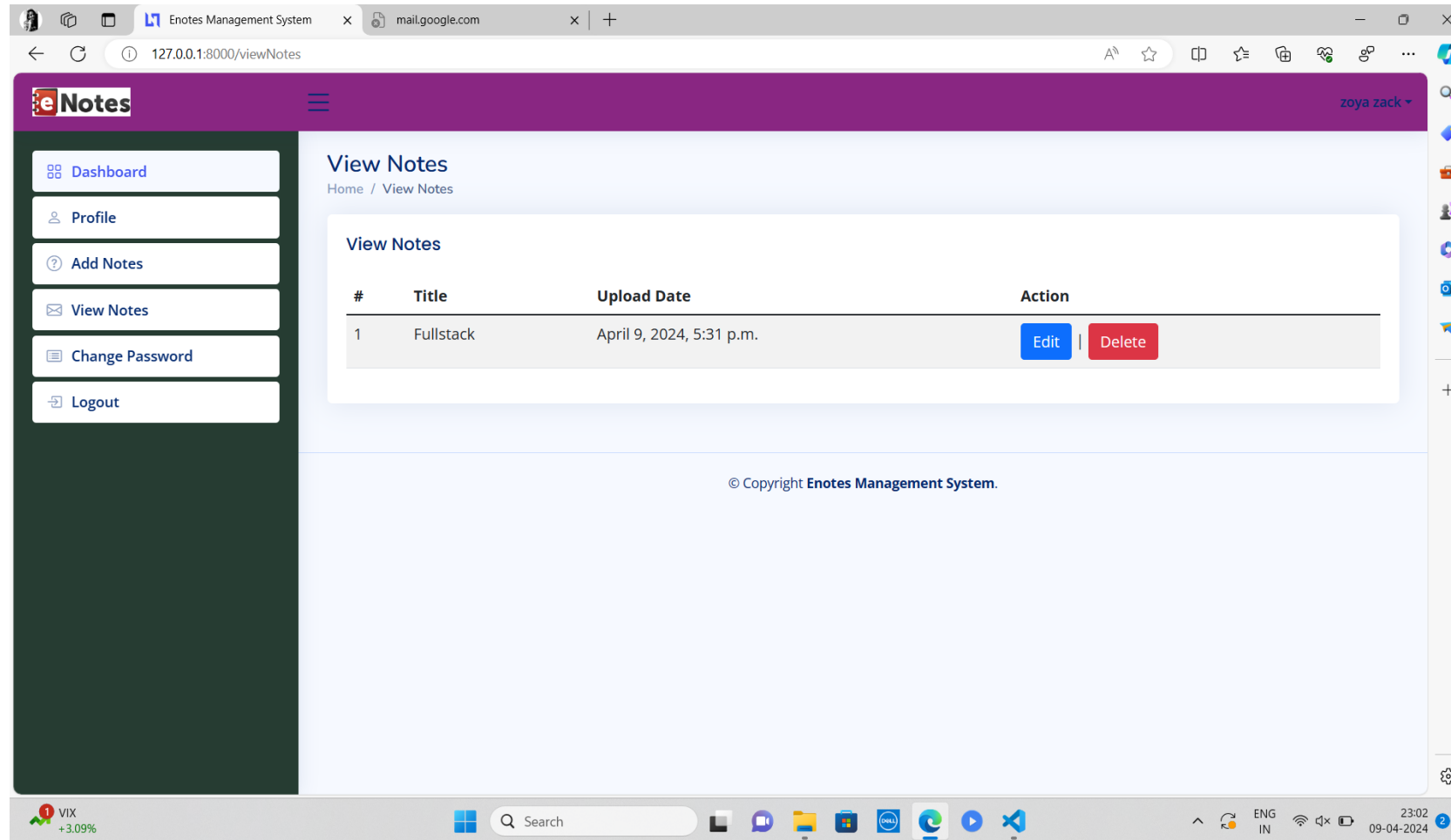
.....

LOGIN

Back to Home

Don't have an account? [Register here](#)

Files Uploading Page

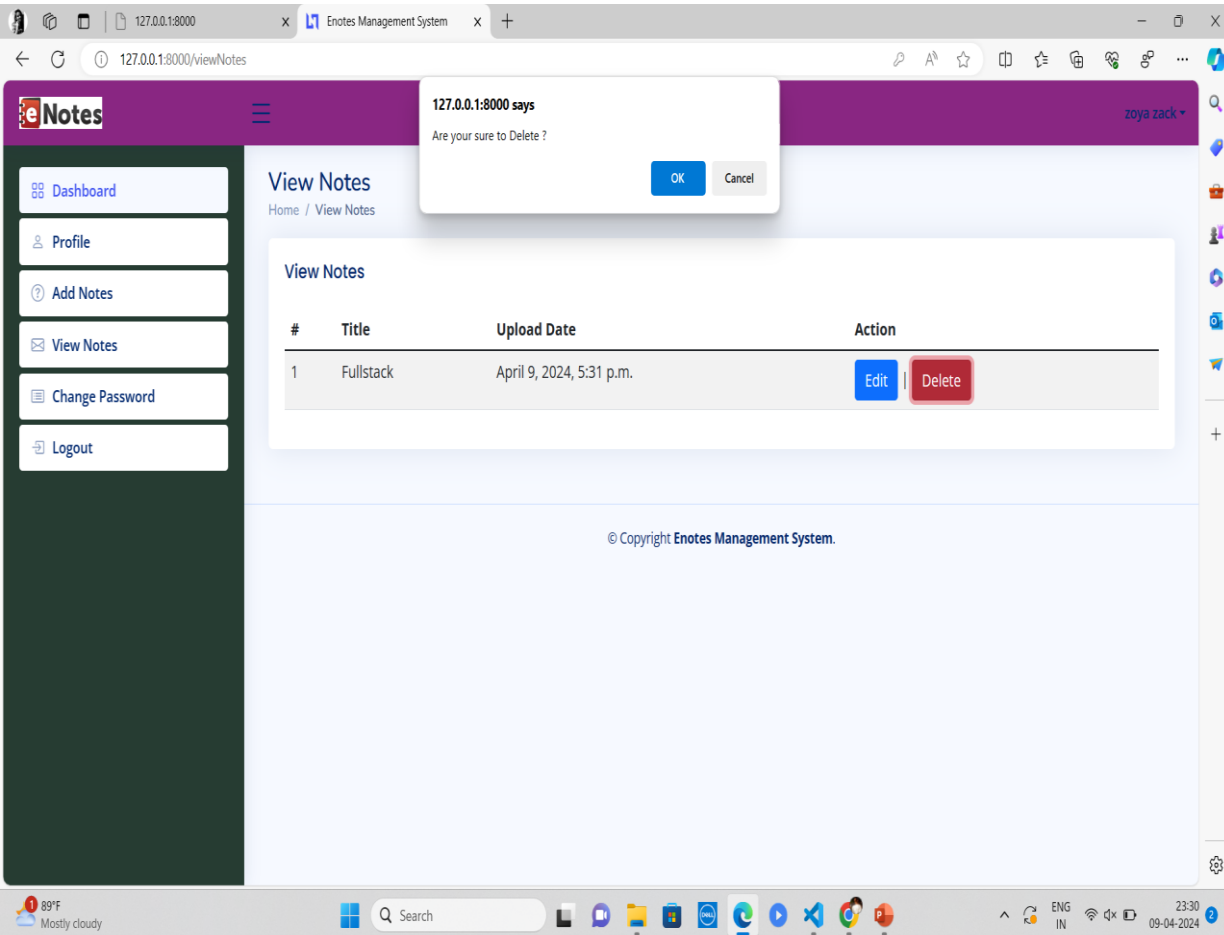


The screenshot displays the 'View Notes' page of the Enotes Management System. The interface includes a sidebar with navigation options: Dashboard, Profile, Add Notes, View Notes, Change Password, and Logout. The main content area shows a table with one note entry.

#	Title	Upload Date	Action
1	Fullstack	April 9, 2024, 5:31 p.m.	Edit Delete

© Copyright Enotes Management System.

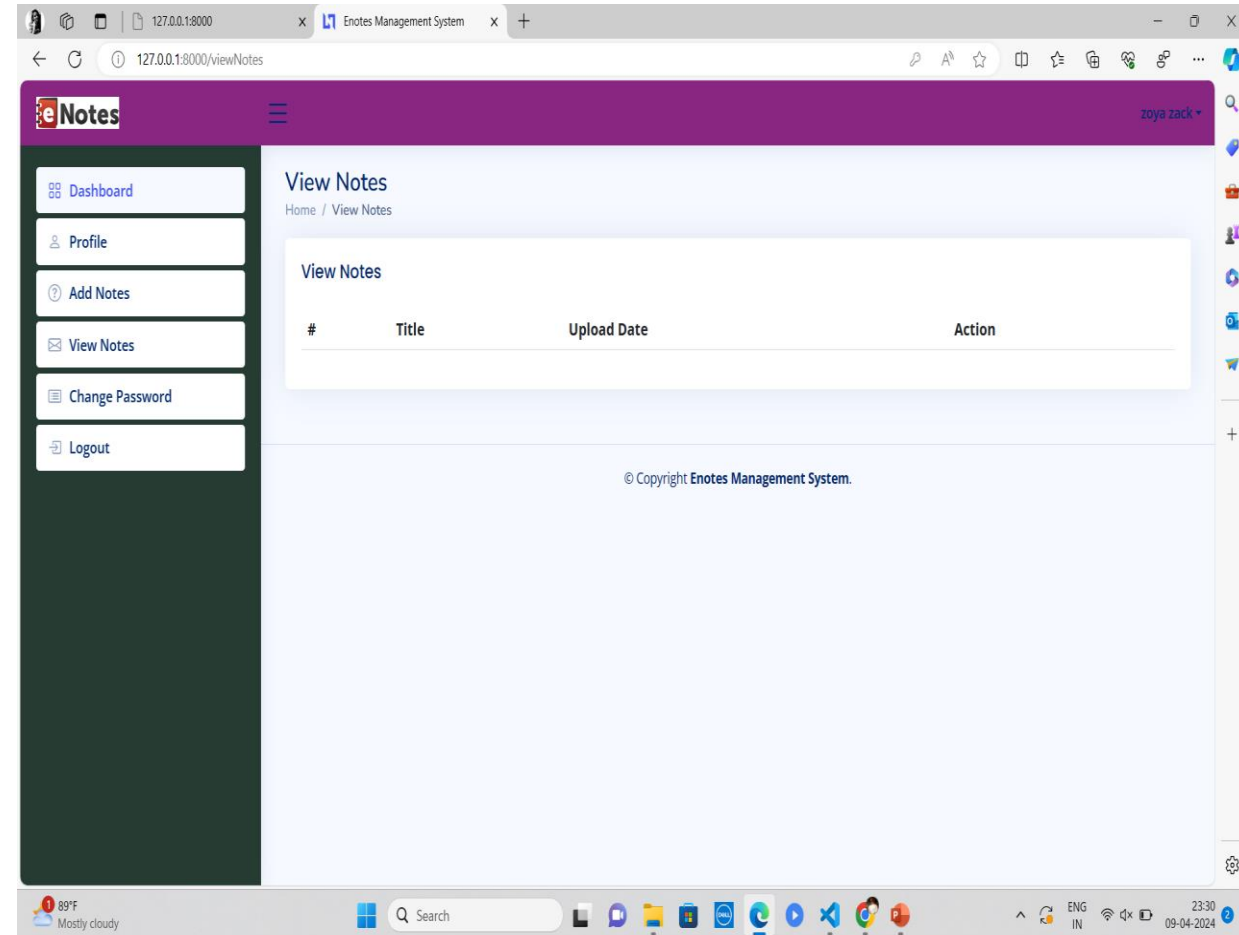
Files Deleting Page



The screenshot shows the 'View Notes' page of the Enotes Management System. A confirmation dialog box is displayed in the center, asking 'Are you sure to Delete?' with 'OK' and 'Cancel' buttons. The dialog box is titled '127.0.0.1:8000 says'. The page features a sidebar with navigation links: Dashboard, Profile, Add Notes, View Notes, Change Password, and Logout. The main content area displays a table with the following data:

#	Title	Upload Date	Action
1	Fullstack	April 9, 2024, 5:31 p.m.	Edit Delete

© Copyright Enotes Management System.



The screenshot shows the 'View Notes' page after the deletion of the note. The table is now empty. The sidebar and footer remain the same. The main content area displays the following text:

© Copyright Enotes Management System.

Future Enhancements

Personalization and Customization:

1. Enable users to personalize their note-taking experience by customizing themes, layouts, and preferences.
2. Allow users to create custom categories, tags, or folders to organize their notes more efficiently.

Offline Access and Sync:

1. Develop an offline mode feature, allowing users to access and edit notes even when not connected to the internet.
2. Implement synchronization mechanisms to automatically sync changes made offline once the user reconnects to the internet.

Conclusion

The Notes Sharing Web Application is poised to revolutionize the way users create, manage, and share notes online. With its intuitive interface, powerful features, and robust architecture, the application promises to streamline workflows, foster collaboration, and elevate productivity. Through continuous improvement and user feedback, we aim to create a platform that meets the evolving needs of our users and remains a valuable tool for personal and professional use.

Thank You !