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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

My 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

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



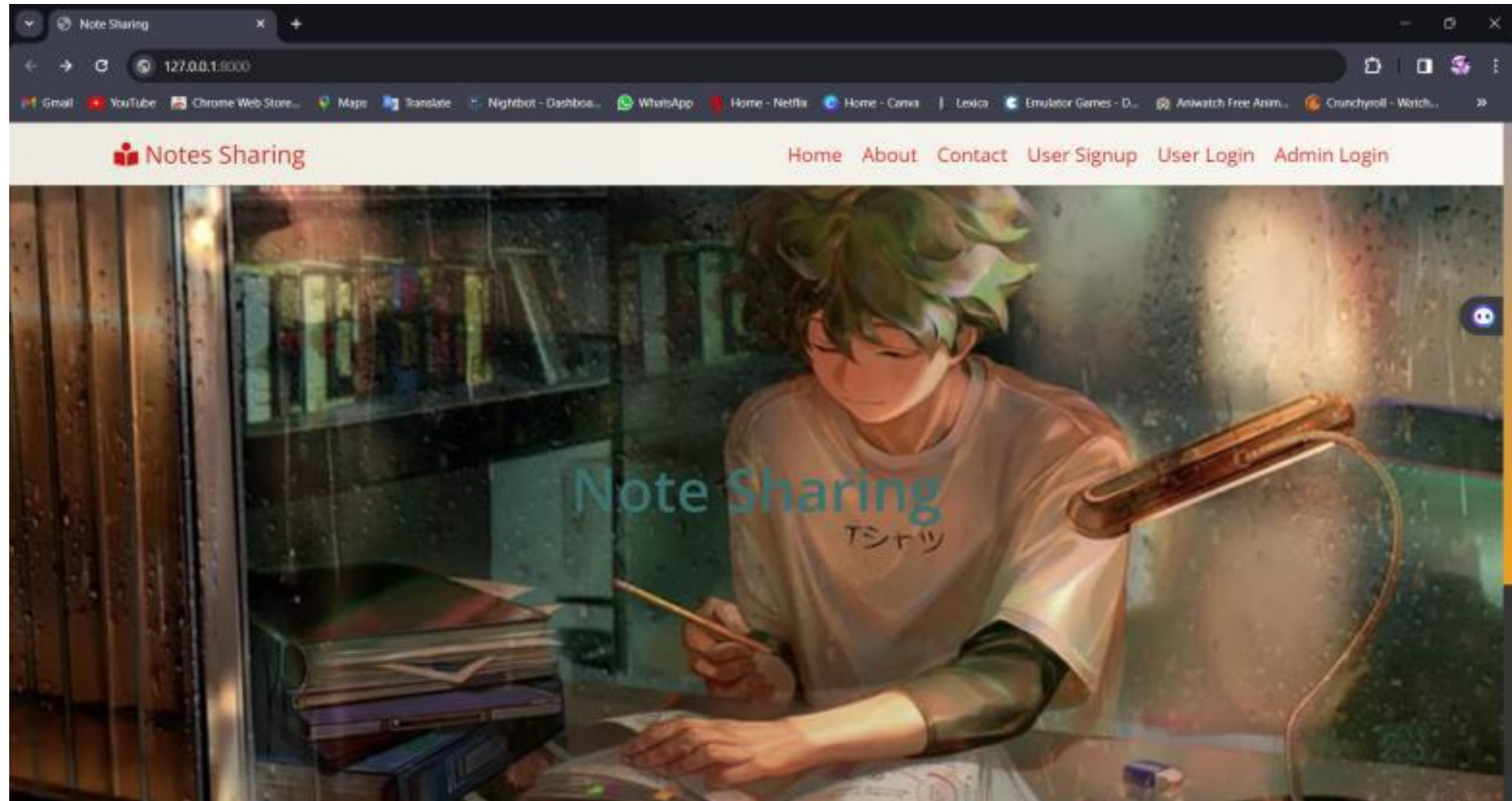
Backend



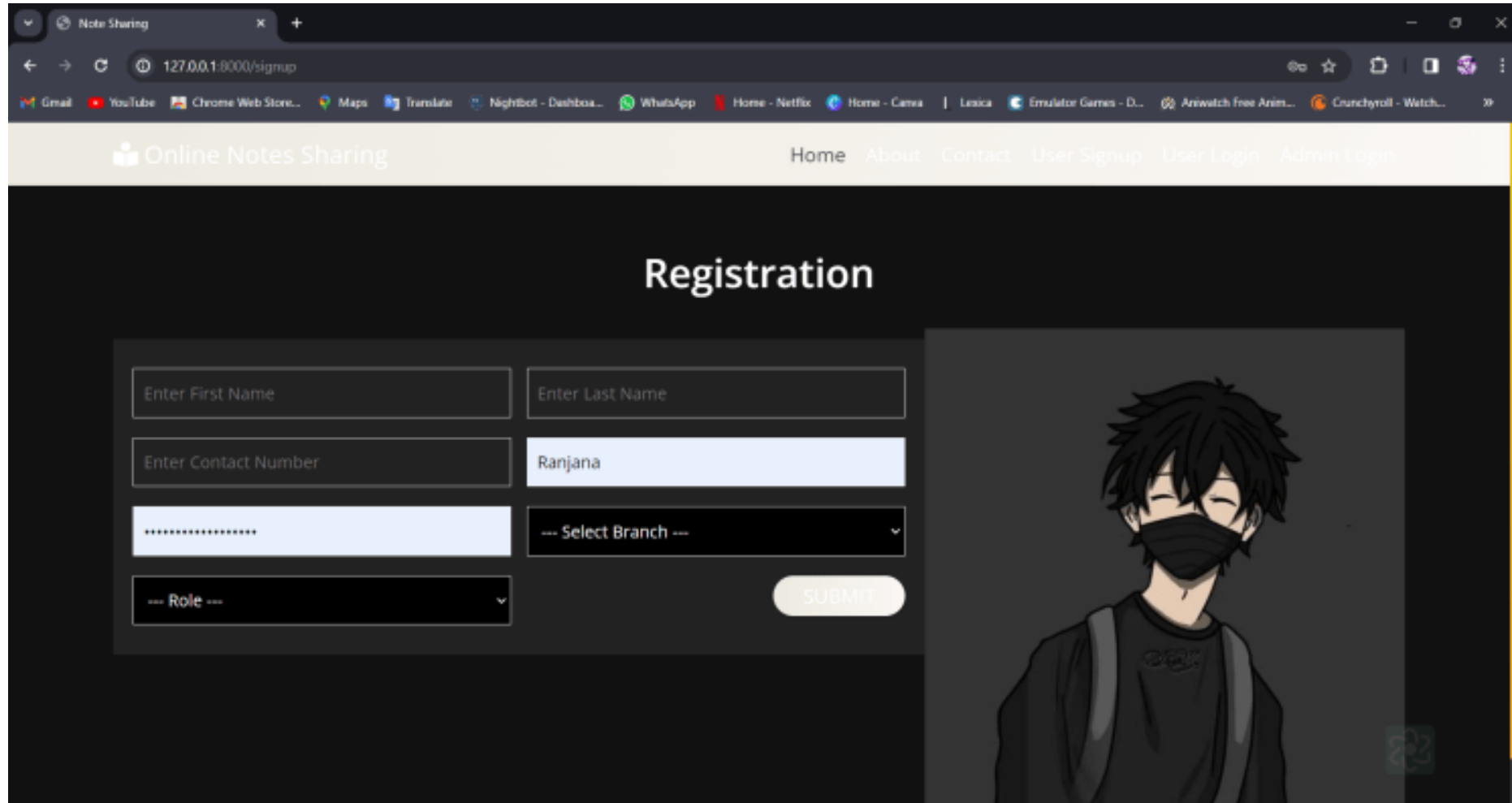
Modelling & Results

- **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

A screenshot of a web browser showing a registration page. The browser's address bar displays '127.0.0.1:8000/signup'. The page has a dark theme with a light-colored navigation bar at the top. The navigation bar includes a logo and the text 'Online Notes Sharing', followed by links: 'Home', 'About', 'Contact', 'User Signup', 'User Login', and 'Admin Login'. The main content area is titled 'Registration' and contains a registration form. The form has five input fields: 'Enter First Name', 'Enter Last Name', 'Enter Contact Number', a password field with masked characters, and a dropdown menu for 'Role'. There is also a dropdown menu for 'Select Branch'. A 'SUBMIT' button is located to the right of the form. To the right of the form is a large illustration of a person with dark, spiky hair, wearing a black face mask and a black jacket with a backpack. The browser's tab is labeled 'Note Sharing' and the address bar shows various bookmarks like 'Gmail', 'YouTube', 'Chrome Web Store...', 'Maps', 'Translate', 'NightBot - Dashboa...', 'WhatsApp', 'Home - Netflix', 'Home - Camer', 'Leica', 'Emulator Games - D...', 'Aniwatch Free Anies...', and 'Crunchyroll - Watch...'.

Note Sharing

127.0.0.1:8000/signup

Gmail YouTube Chrome Web Store... Maps Translate NightBot - Dashboa... WhatsApp Home - Netflix Home - Camer Leica Emulator Games - D... Aniwatch Free Anies... Crunchyroll - Watch...

Online Notes Sharing

Home About Contact User Signup User Login Admin Login

Registration

Enter First Name


Enter Last Name

Enter Contact Number

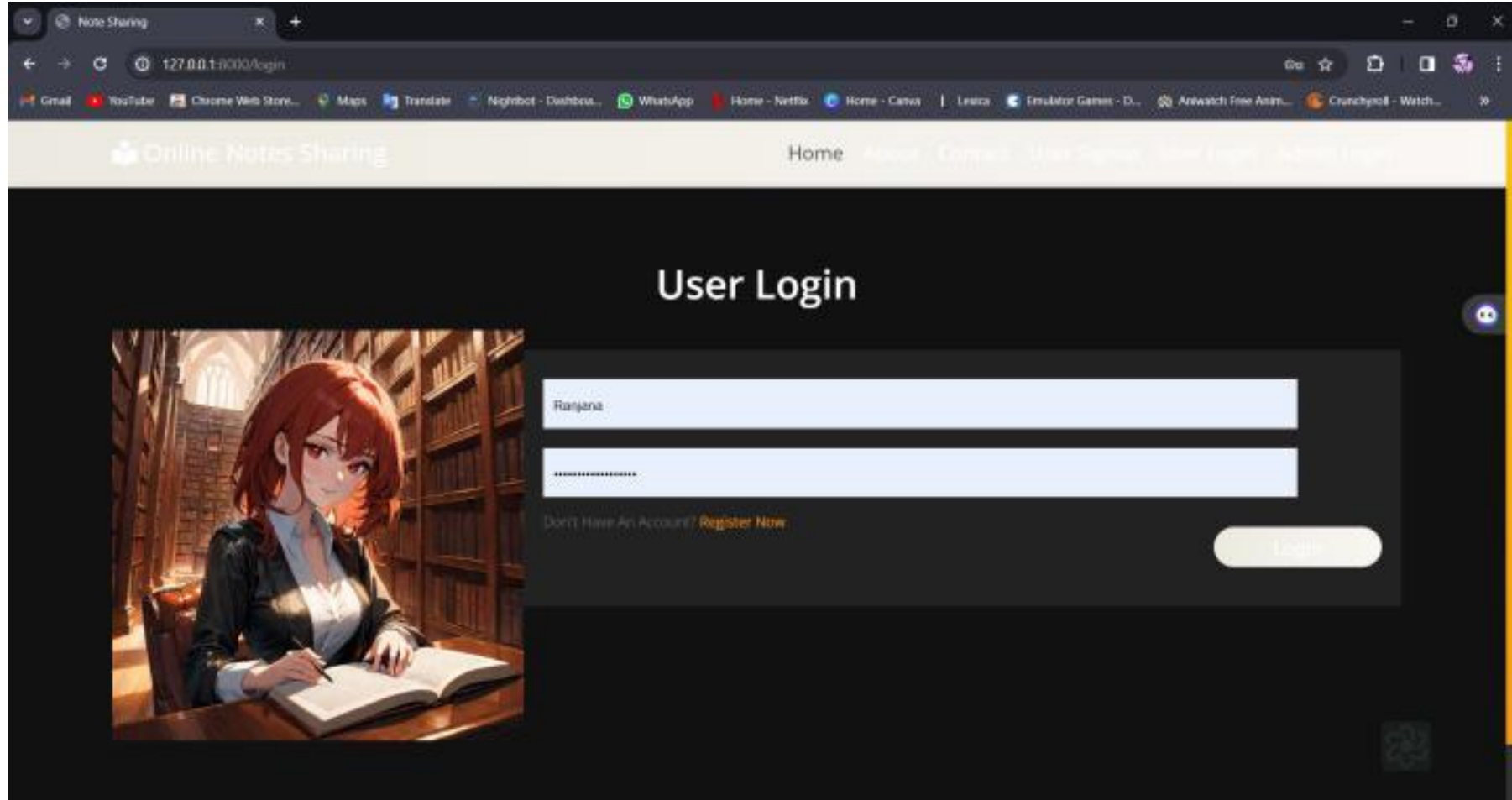
--- Select Branch ---

--- Role ---

SUBMIT

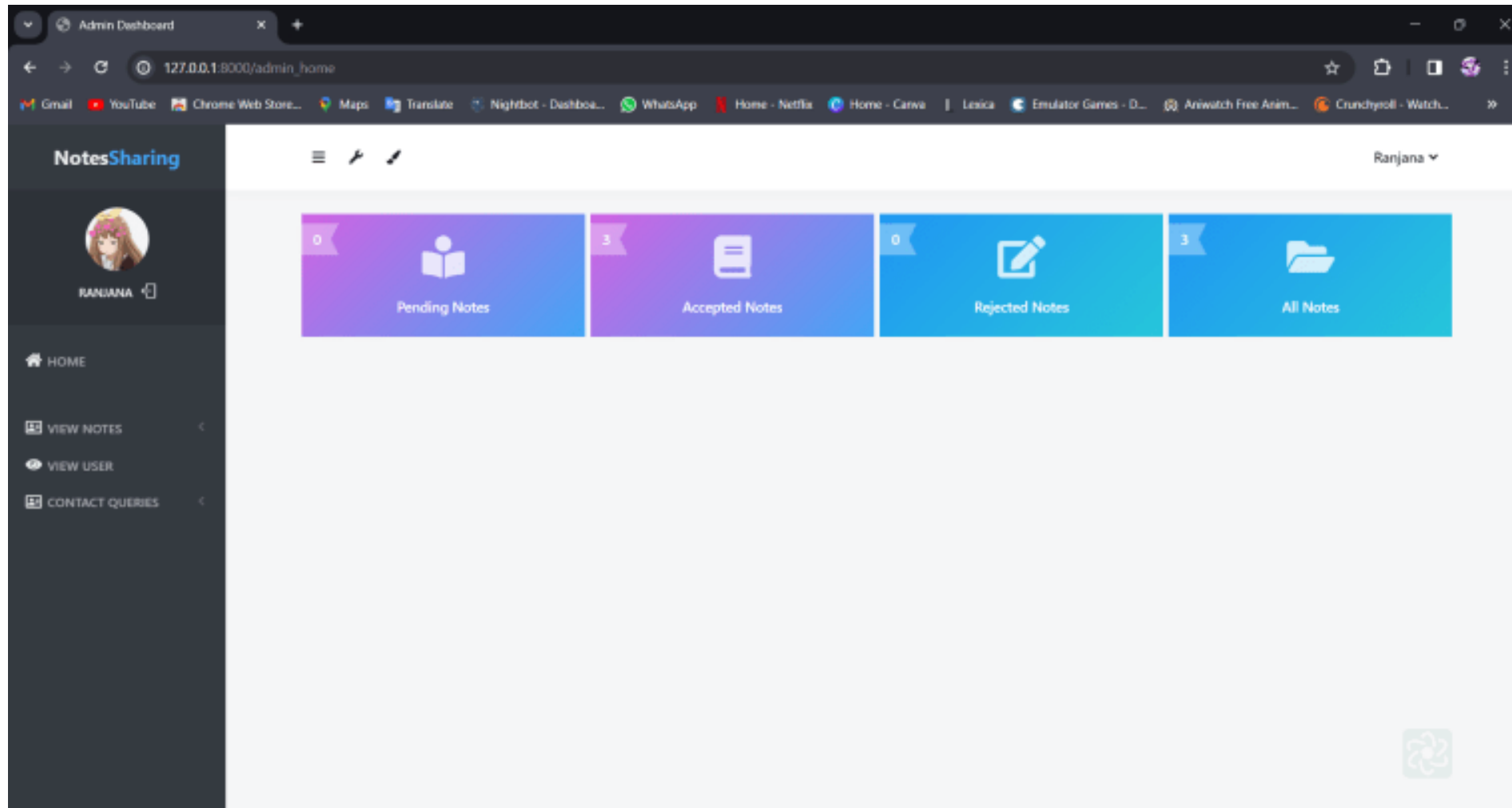


Login Page

A screenshot of a web browser displaying the login page of an 'Online Notes Sharing' application. The browser's address bar shows '127.0.0.1:8000/login'. The page has a dark theme. On the left, there is an illustration of a woman with red hair sitting at a desk in a library, writing in a notebook. The main heading is 'User Login'. Below it are two input fields: the first contains the text 'Ranjana' and the second is masked with dots. A link that says 'Don't Have An Account? Register Now' is positioned below the password field. A yellow 'Login' button is located at the bottom right of the form area. The browser's tab is titled 'Note Sharing' and the page header includes navigation links: 'Home', 'About', 'Contact', 'User Signup', 'User Login', and 'Admin Login'.



Admin page



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 my users and remains a valuable tool for personal and professional use.

Thank You !