



# NEXT GEN EMPLOYABILITY PROGRAM

| Creating a future-ready workforce

Team Members

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College Name

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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

In the realm of collaborative learning and knowledge exchange, the development of a web application for sharing notes plays a pivotal role. This abstract presents the conceptualization and implementation of such a platform using the Django framework.

The web application is designed to facilitate seamless sharing and collaboration among users in creating, editing, and managing notes. The key features include user authentication, note creation and editing, sharing notes with specific users or groups, real-time collaboration, version control, and access management.

Utilizing Django's powerful MVC architecture, the application ensures robust security measures, such as user authentication and authorization, to safeguard user data and privacy. The integration of Django's ORM simplifies database management, enabling efficient storage and retrieval of notes and user information.

Furthermore, the web application leverages Django's templating engine to create dynamic and responsive user interfaces, enhancing the user experience across devices

. Access management features enable users to share notes selectively, maintaining confidentiality and control over shared content.

## Problem Statement

The objective of this project is to develop a notes sharing web application using the Django framework. This project aims to address the limitations in existing platform by creating a user-friendly and feature-rich web application specifically designed for sharing, organizing, and collaborating on academic notes

The key challenges that this project will include:

- Ease of Use
- Collaborative Features
- Scalability
- Security and Privacy
- Customization

## Project Overview

The project aims to develop a web application using the Django framework that facilitates the sharing, organization, and collaboration of academic notes.

### Key Features:

- User Registration and Authentication
- Notes Upload and Organization
- Search and Filtering
- Customization Options
- Security and Privacy

## Proposed Solution

### **. User Authentication and Profile Management:**

Implement user registration and login functionalities using Django's built-in authentication system.

Allow users to manage their profiles, including profile pictures, contact information, and preferences.

### **Notes Management:**

Develop a user-friendly interface for uploading notes, including support for various file formats such as PDFs, documents, and images.

Implement features for organizing notes into categories, subjects, or custom tags for easy navigation and search.

### **Search and Filtering:**

Develop robust search functionality to allow users to search for notes based on keywords, categories, tags, or user-specific filters.

Implement advanced filtering options to refine search results and improve user experience.

## **Security and Privacy:**

Ensure data security through secure authentication methods, encrypted data storage, and HTTPS protocol for secure communication.

Implement access control mechanisms to manage permissions for sharing notes, ensuring privacy and confidentiality

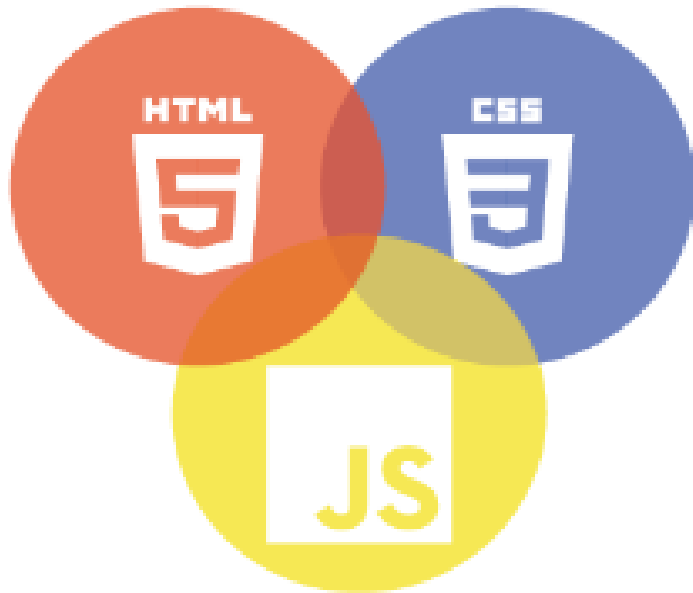
## **Responsive Design and Cross-Platform Compatibility:**

Design the web application with a responsive layout to ensure compatibility and optimal user experience across devices, including desktops, tablets, and mobile phones.

Utilize HTML5, CSS3, and JavaScript frameworks like Bootstrap for responsive design and interactivity.

## Technology Used

Front-end



Back-end





## Modelling & Results

### Data Modeling:

- User Model
- Note Models
- Search Model
- Activity Log Model

### Result

- A fully functional web application accessible via web browsers on various devices.
- User-friendly interface for uploading, organizing, sharing, and collaborating on notes.
- Secure authentication and access control mechanisms to protect user data and ensure privacy.

django

View [django.urls](#) in Django 5.0

The install worked successfully! Congratulations!

You are seeing this page because `DJANGO_SETTINGS_MODULE` is in your `PATH` env file and you have not yet configured any URLs.



**Django Documentation**  
Access references & how-tos



**Tutorial: A Polling App**  
Learn Django with Django



**Django Community**  
Connect, get help, or contribute

## User signup Page



Online Notes Sharing

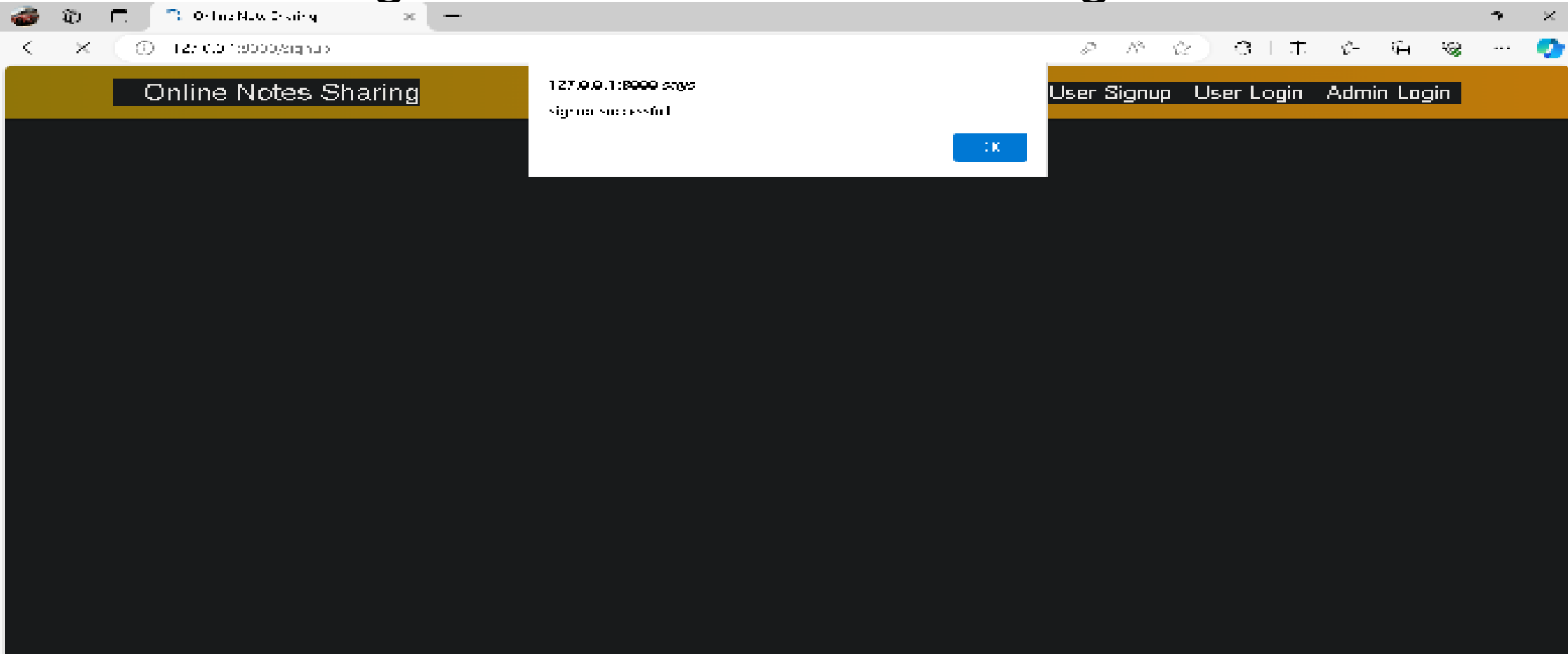
[Home](#) [About](#) [Contact](#) [User Signup](#) [User Login](#) [Admin Login](#)

### User Signup Form

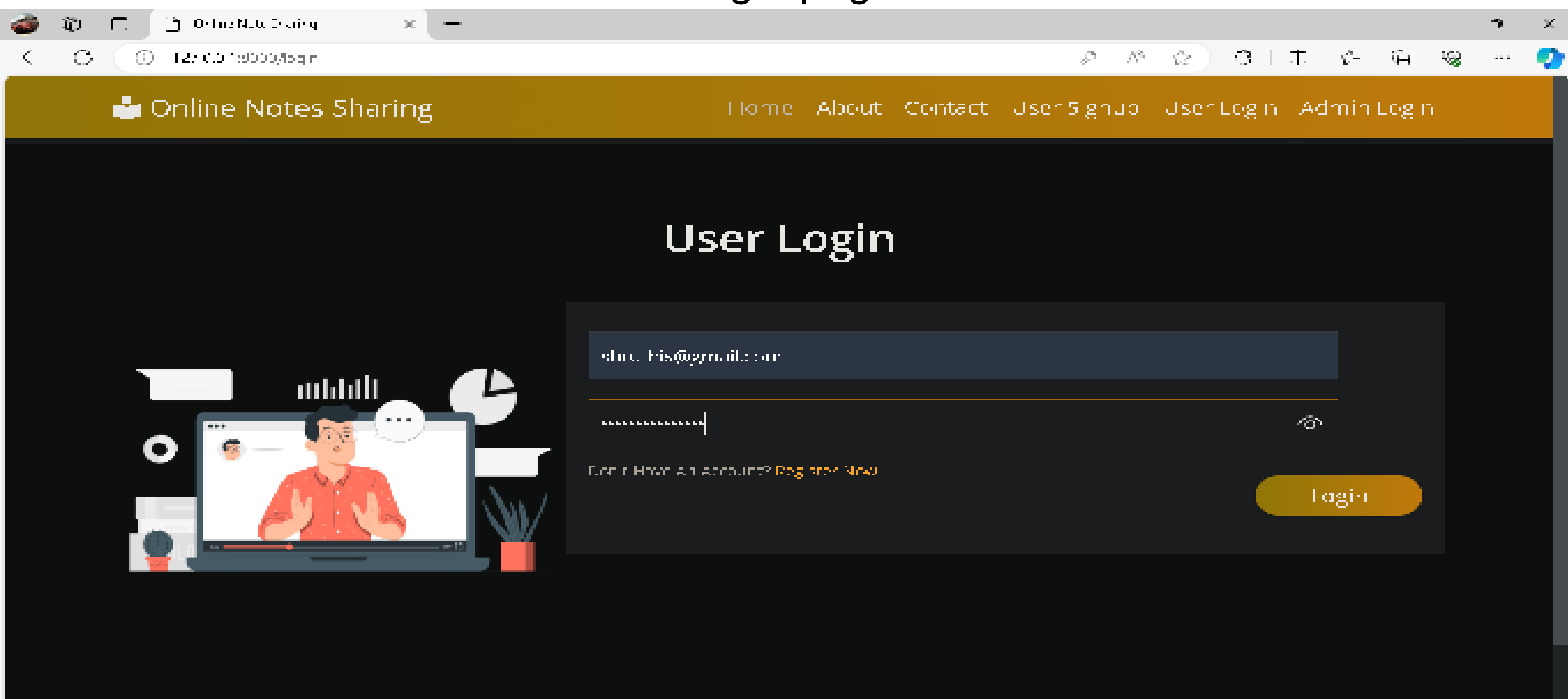
<input type="text" value="shru. Fi"/>	<input type="text" value="s"/>
<input type="text" value="5078543880"/>	<input type="text" value="shruathin@gmail.com"/>
<input type="password" value="*****"/>	<input type="text" value="Computer Science"/>
<input type="text" value="S User"/>	<input type="button" value="SUBMIT"/>



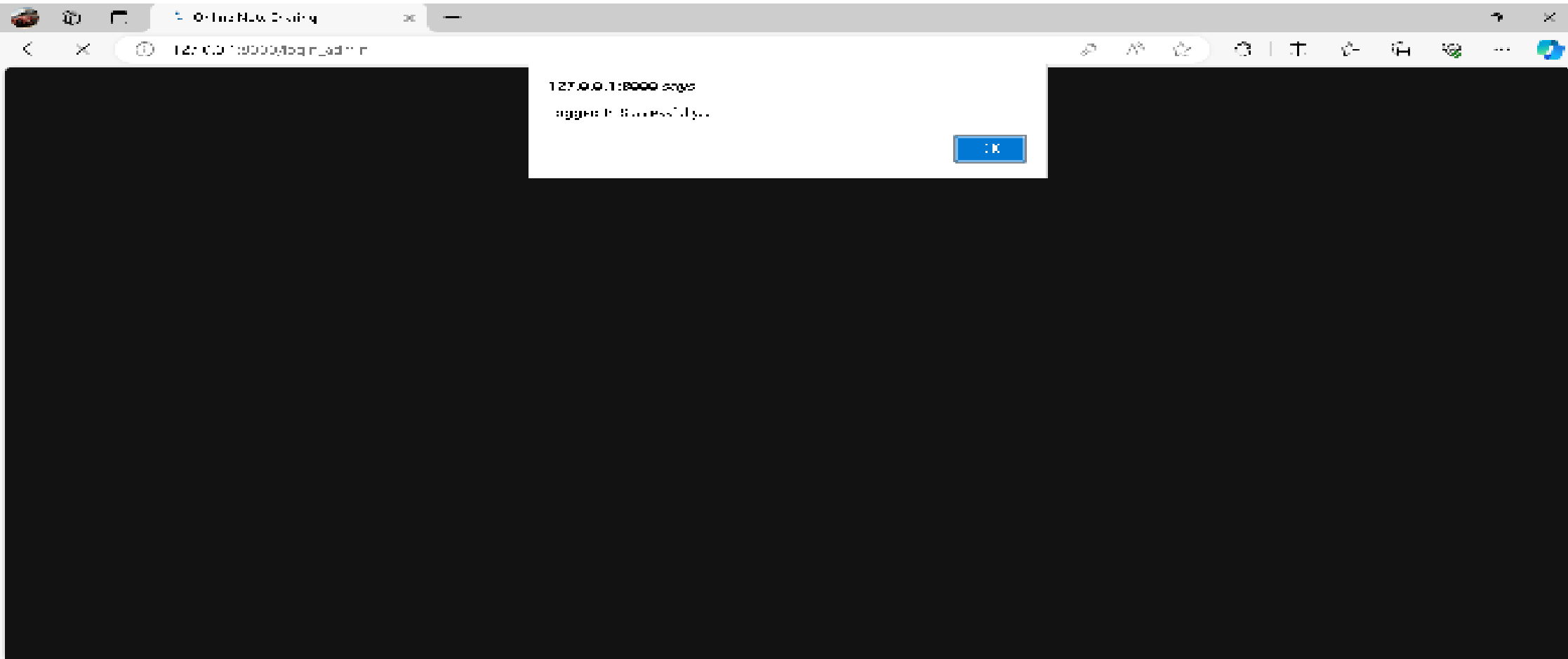
## Signed in successful message



## Login page



## Login successful message




## Notes uploading

Browser tabs: Notes Sharing | x

Address bar: 127.0.0.1:8000/A/plock/notes

Navigation: Online Notes Sharing | HOME | UPLOAD NOTES | VIEW MY NOTES | VIEW ALL NOTES | LOGOUT | welcome admin

### Upload Notes



Branch

Electronics

Subject

Electrical Engineering

Notes File

Choose file | Basic Electrical Engineering 2.docx

File type

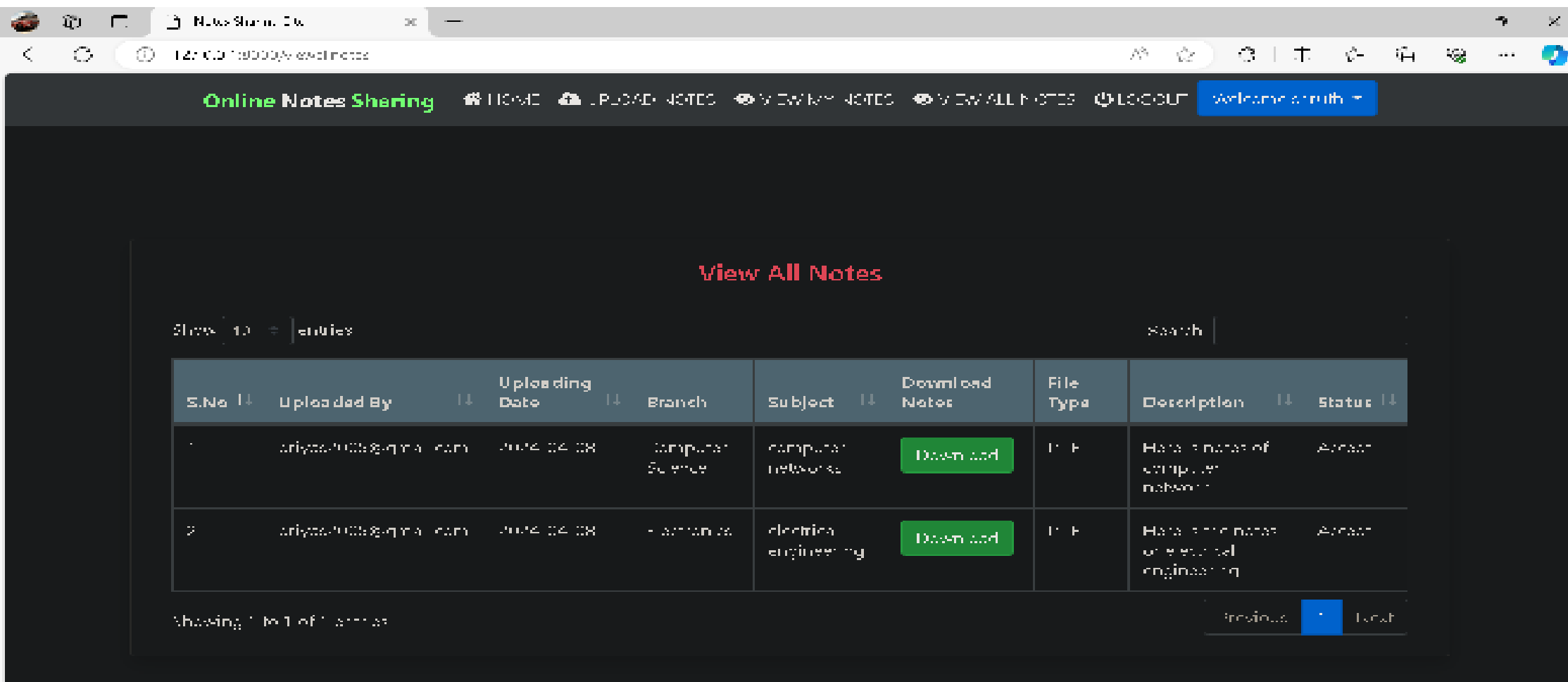
PDF

Description

Electrical Engineering

Submit

## View notes



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:8000/viewallnotes". The application has a dark theme. The top navigation bar includes links for HOME, UPLOAD NOTES, VIEW MY NOTES, VIEW ALL NOTES, and LOGOUT, along with a user profile dropdown showing "welcome admin". The main content area is titled "View All Notes" in red. Below the title, there is a "Show 10 entries" filter and a search bar. A table lists two notes with columns for S.No, Uploaded By, Uploading Date, Branch, Subject, Download Notes (with a green Download button), File Type, Description, and Status. The first note is for Computer Science (computer networks) and the second is for Electronics (electrical engineering). At the bottom, it shows "Showing 1 to 1 of 1 entries" and pagination controls for "Previous", "1", and "Next".

Online Notes Sharing

HOME UPLOAD NOTES VIEW MY NOTES VIEW ALL NOTES LOGOUT welcome admin

### View All Notes

Show 10 entries

Search

S.No	Uploaded By	Uploading Date	Branch	Subject	Download Notes	File Type	Description	Status
1	ariyashubh@gmail.com	2024-04-08	Computer Science	computer networks	<a href="#">Download</a>	PDF	Here is notes of computer network	Approved
2	ariyashubh@gmail.com	2024-04-08	Electronics	electrical engineering	<a href="#">Download</a>	PDF	Here is the notes on electrical engineering	Approved

Showing 1 to 1 of 1 entries

Previous 1 Next



## Users

NotesSharing

sanjans123

View Users

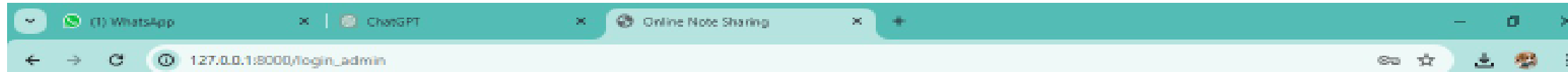
show 5 entries

S.NO	FULL NAME	EMAIL ID	CONTACT	BRANCH	ROLE	ACTION
1	sanjana p	sanjanasj0002@gmail.com	7010214402	Computer Science	Student	Delete
2	sanj palanisamy	sanje@gmail.com	1234567890	Computer Science	Teacher	Delete
3	priya s	priyas2005@gmail.com	4678904564	Computer Science	Student	Delete
4	shar v	sharv@gmail.com	1234567890	Computer Science	Student	Delete
5	shruthi s	shruthis@gmail.com	5678543890	Computer Science	Student	Delete

Showing 4 to 5 of 5 entries

First Previous 1 Next Last

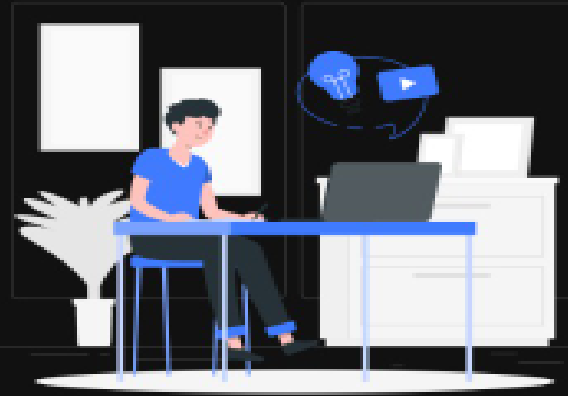
## Admin page



 Online Notes Sharing

[Home](#) [About](#) [Contact](#) [User Signup](#) [User Login](#) [Admin Login](#)

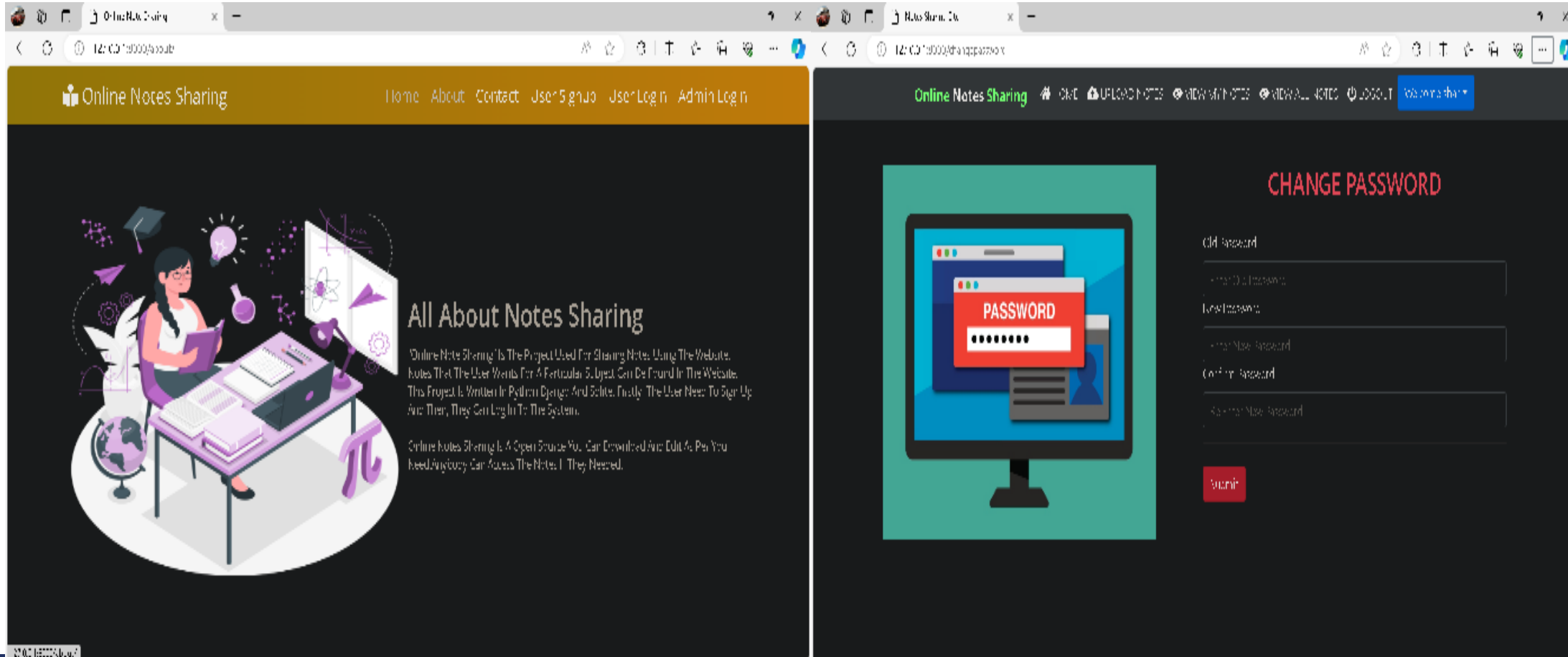
### Admin Login



LOGIN

## About notes sharing

## To change password



The image displays two screenshots of the 'Online Notes Sharing' web application. The left screenshot shows the homepage with a navigation bar containing 'Home', 'About', 'Contact', 'User Signup', 'User Login', and 'Admin Login'. The main content area features an illustration of a student at a desk and a section titled 'All About Notes Sharing' which describes the project as an open-source tool for sharing notes. The right screenshot shows the 'CHANGE PASSWORD' page, which includes a form with fields for 'Old Password', 'New Password', and 'Confirm Password', along with a 'Submit' button. The page also features a graphic of a computer monitor displaying a password input field.

**Online Notes Sharing** Home About Contact User Signup User Login Admin Login

### All About Notes Sharing

'Online Note Sharing' Is The Project Used For Sharing Notes. Using The Website, Notes That The User Wants For A Particular Subject Can Be Found In The Website. This Project Is Written In Python Django And Solite. Firstly, The User Needs To Sign Up And Then, They Can Log In To The System.

Online Notes Sharing Is A Open Source You Can Download And Edit As Per Your Need. Anybody Can Access The Notes They Needed.

### CHANGE PASSWORD

Old Password  
New Password  
Confirm Password  
Submit

## Future Enhancements:

- Mobile App Development
- Enhanced Collaboration Features
- Advanced Search and Recommendation System
- Gamification and Rewards System
- Accessibility Features
- Integration with AI Assistants

## Conclusion

The notes sharing web application using Django framework presents a robust solution for improving collaboration, knowledge sharing, and organization of academic materials within educational communities. With its user-friendly interface, real-time collaboration features, and secure data management, the application aims to enhance the learning experience for students and educators alike.

Moving forward, future enhancements such as advanced collaboration tools, personalized recommendations, integration with LMS platforms, mobile app development, analytics capabilities, and gamification elements can further elevate the functionality and value of the application. These enhancements will cater to evolving user needs, foster engagement, and promote a culture of continuous learning and collaboration

# Thank You!