



NEXT GEN EMPLOYABILITY PROGRAM

| Creating a future-ready workforce

Team Members

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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

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

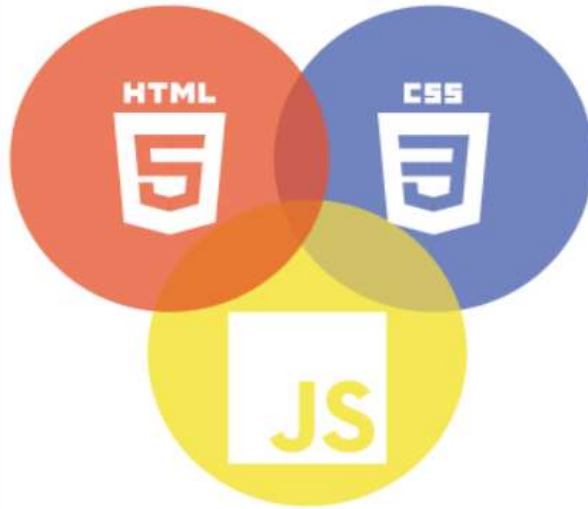
Responsive Design and Cross-Platform Compatibility:

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

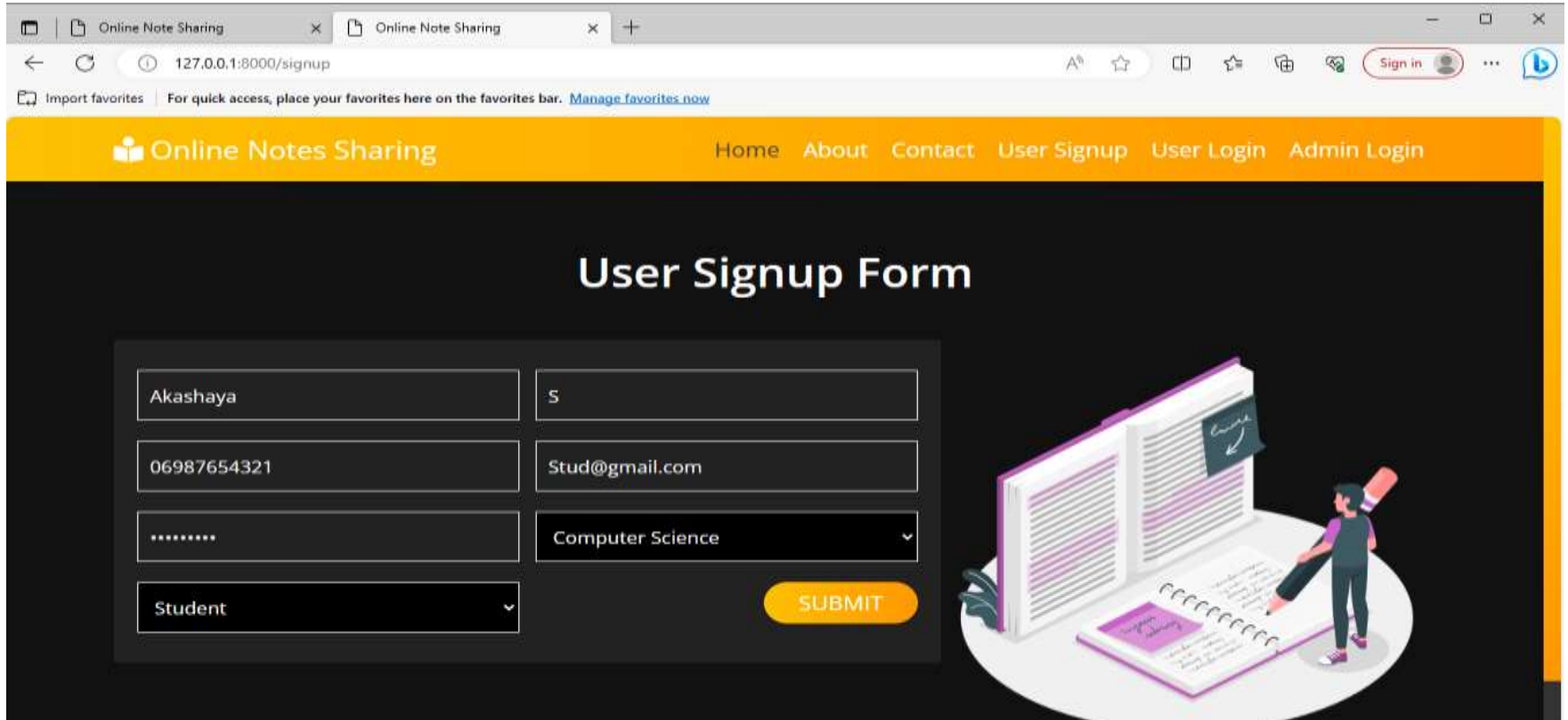
Data Modeling:

- User Model
- Note ModelS
- earch Model
- Activity Log Mode

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.

User Signup Form




Online Note Sharing

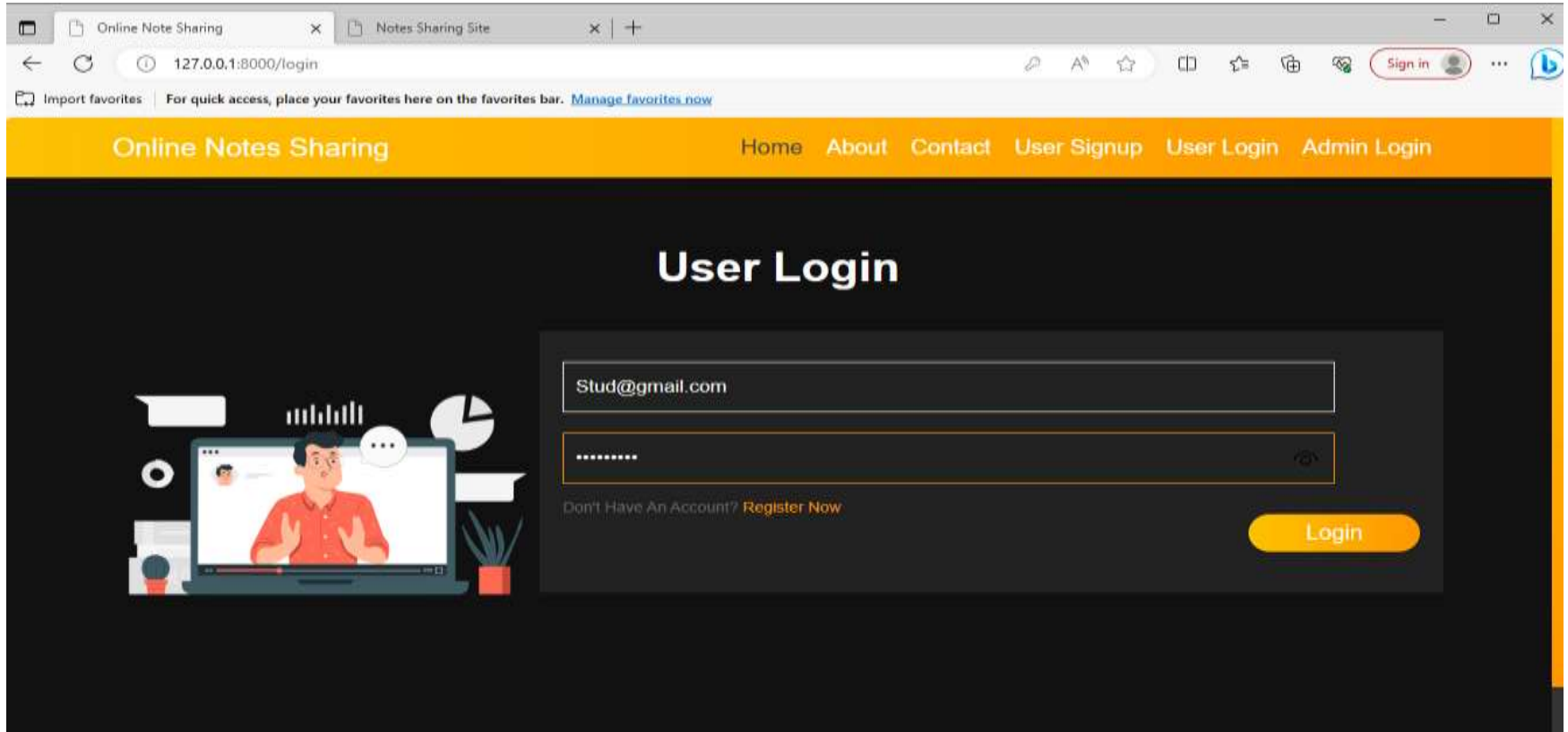
Home About Contact User Signup User Login Admin Login

User Signup Form

Akashaya	S
06987654321	Stud@gmail.com
*****	Computer Science
Student	SUBMIT



User Login Page



The screenshot shows a web browser window with two tabs: "Online Note Sharing" and "Notes Sharing Site". The address bar displays "127.0.0.1:8000/login". The browser's toolbar includes navigation buttons, a search icon, and a "Sign in" button with a user profile icon. Below the browser window, the website's header is orange and contains the text "Online Notes Sharing" on the left and navigation links "Home", "About", "Contact", "User Signup", "User Login", and "Admin Login" on the right. The main content area has a dark background with the title "User Login" in white. On the left side of this area is an illustration of a man in a red shirt speaking at a laptop, with various icons like a bar chart, pie chart, and speech bubbles around him. On the right side is a login form with two input fields: the first contains "Stud@gmail.com" and the second contains masked characters "....." with an eye icon for toggling visibility. Below the password field is a link that says "Don't Have An Account? Register Now". A yellow "Login" button is positioned at the bottom right of the form.

Online Note Sharing

Home About Contact User Signup User Login Admin Login

User Login

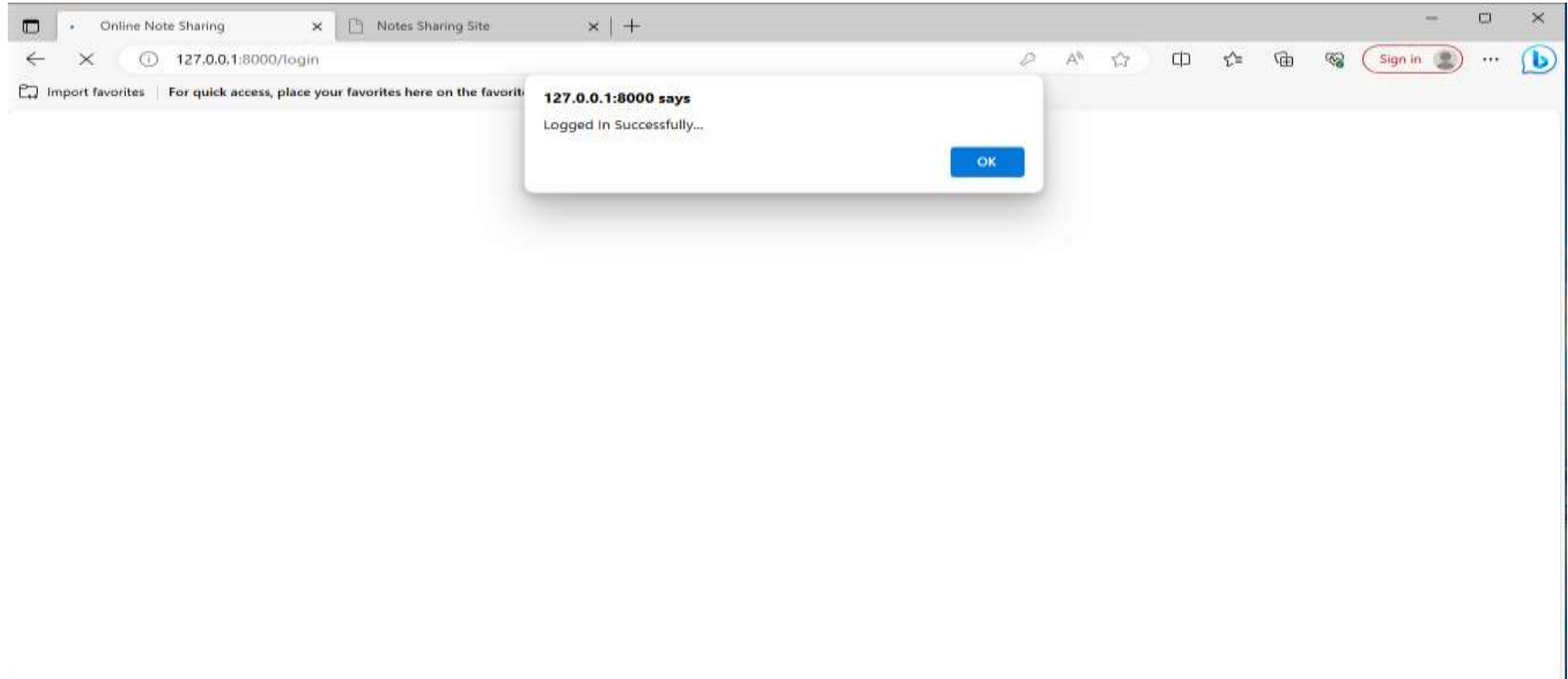
Stud@gmail.com

.....

Don't Have An Account? [Register Now](#)

Login


Logged in Successfully Message



Notes Uploading Page



Upload Notes



Branch
Computer Science

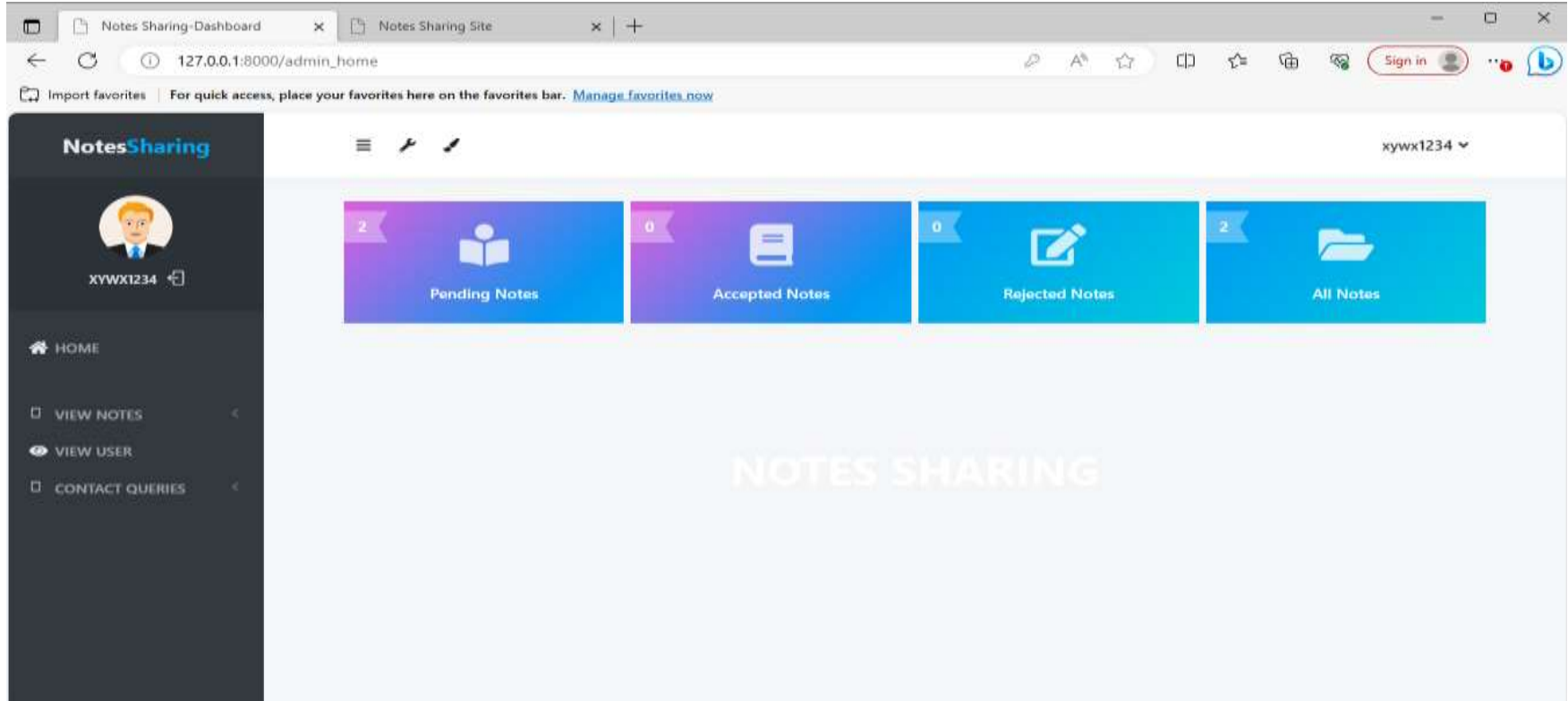
Subject
Computer Network

Notes File
 Computer Networks.pdf

File Type
PDF

Description
Computer Networks

Notes sharing-Dashboard



The screenshot displays a web browser window with two tabs: "Notes Sharing-Dashboard" and "Notes Sharing Site". The address bar shows the URL "127.0.0.1:8000/admin_home". The browser's toolbar includes navigation buttons, a search icon, and a "Sign in" button. Below the browser window, the dashboard interface is visible. It features a dark sidebar on the left with the "NotesSharing" logo, a user profile for "XYWX1234", and a menu with options: "HOME", "VIEW NOTES", "VIEW USER", and "CONTACT QUERIES". The main content area has a top navigation bar with a hamburger menu, a search icon, and a user dropdown for "xywx1234". Below this, there are four colored cards representing different note statuses: "Pending Notes" (2), "Accepted Notes" (0), "Rejected Notes" (0), and "All Notes" (2). Each card contains an icon and a count. At the bottom of the dashboard, the text "NOTES SHARING" is displayed in a large, light blue font.

Note Status	Count
Pending Notes	2
Accepted Notes	0
Rejected Notes	0
All Notes	2

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!