

E-Study Hub

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Abstract

E-Study Hub is a digital education technology tool designed to simplify access to academic resources for 11th and 12th Science, Commerce, and Arts students, as well as Diploma students of all departments. E-Study Hub is built on HTML, CSS, Bootstrap, ASP.NET, C#, and SQL Server. The tool follows a hybrid approach to software development, combining the Waterfall and Agile methodologies. E-Study Hub offers a well-organized set of subject-specific notes, previous year's question papers, syllabus blueprints, and MCQ tests to foster self-learning, reducing dependence on available content on the internet.

Introduction

In today's tech-driven world, education is quickly moving toward online and digital methods. The E-Study Hub Mega Project is an e-learning system that gives students easy access to notes, video lectures, quizzes, and other study materials all in one place. This system supports self-learning and distance learning, allowing students to study whenever and wherever they choose. It helps learners manage their resources effectively, save time, and boost academic performance through structured digital learning.

Existing System

The current system of sharing educational material, like sharing notes or joining social groups, is not efficiently managed. The current system of sharing educational material is as follows:

It creates a lot of dependency on physical papers, which is not a good practice. The current system of sharing educational material is not efficiently managed online, as there is no proper syllabus-based system of sharing material. The current system of sharing educational material is not efficiently managed, as searching for previous year's question papers or career guidance takes a lot of time and effort.

Future Work

The E-Study Hub can improve by adding new features to enhance the learning experience. Future updates could include live online classes through video conferencing, discussion forums for student interaction, personalized course suggestions, and tools for tracking performance. Supporting a mobile application and using artificial intelligence for adaptive learning can also make the platform smarter and more effective. These updates can turn the E-Study Hub into a complete and interactive digital education system.

Architecture Diagram

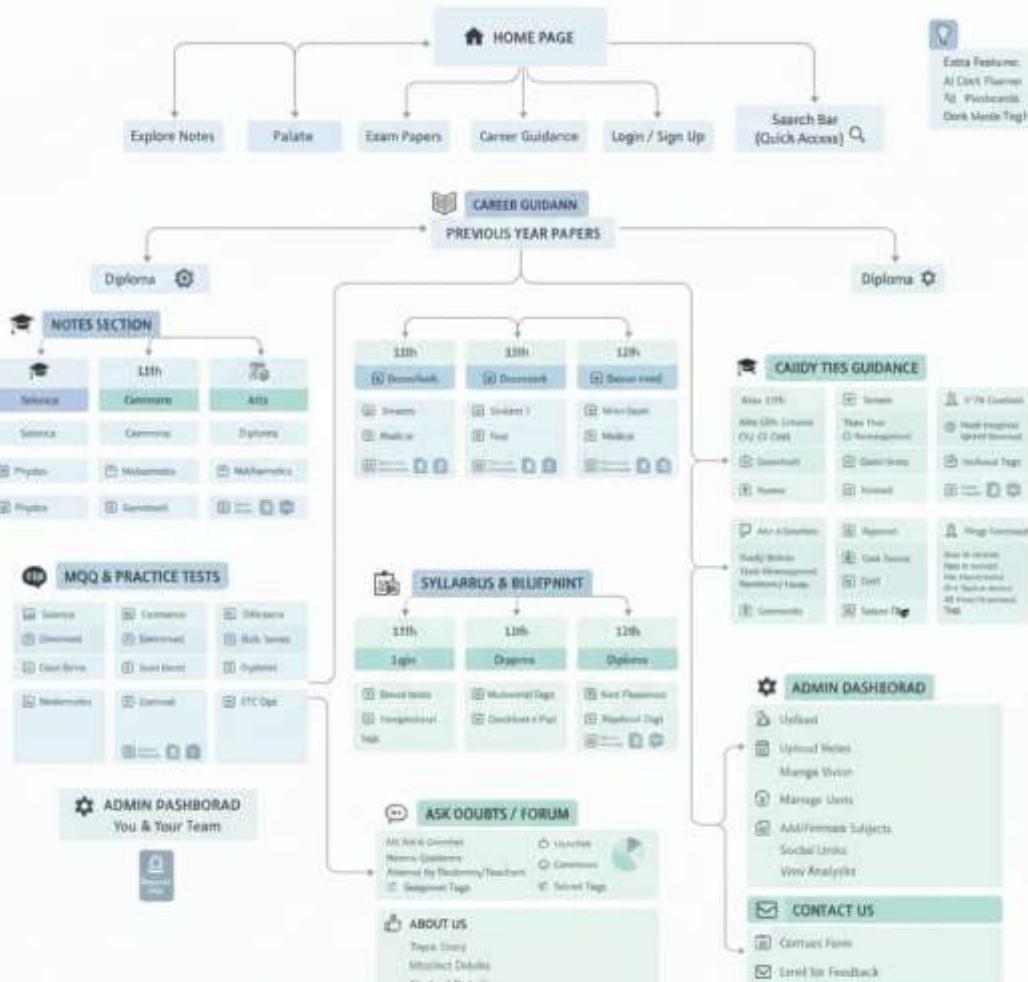


Fig. 1. Educational Content Platform Architecture

Literature Review

E-learning has become an important part of modern education due to advancements in digital technology. Online learning platforms offer flexible, accessible, and self-paced study options for students. Learning Management Systems (LMS) often include features like digital content delivery, online assessments, and progress tracking to engage students. Research highlights usability, well-structured content, multimedia support, and data security as key elements of effective e-learning platforms. Based on these ideas, the E-Study Hub aims to provide a secure, organized, and user-friendly digital learning solution.

Conclusion

The E-Study Hub Mega Project successfully demonstrates the creation of an integrated online learning platform for students. It provides a simple and accessible environment where learners can find study materials, manage courses, and complete online assessments effectively. By leveraging digital technologies, the system promotes flexible and self-directed learning beyond the limits of traditional classrooms. The project meets its main objectives and has strong potential for future improvements with live classes, collaborative tools, and learning analytics, making education more interactive and effective.

Reference

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