

Abstract

ScholarSync is an innovative, student-centric collaboration platform designed to bridge the gap in academic peer-to-peer learning outside the classroom. With the increasing dependency on social media or disorganized chat groups for doubt resolution and exam preparation, students often lack a focused, real-time space for academic interaction. ScholarSync addresses this issue by providing a dedicated web-based environment where learners can connect through subject-specific study rooms, share questions and insights, and collaborate effectively. The system empowers students to learn collectively, fostering a culture of academic support, shared knowledge, and self-driven learning.

At its core, ScholarSync features an intuitive user interface with robust backend functionality, enabling students to register, log in, and engage in real-time messaging within subject-based rooms. The platform supports the creation and moderation of study rooms, question-and-answer threads, and searchable content filtering. This ensures a streamlined and clutter-free experience that is both purposeful and engaging. Unlike traditional LMS tools which are often instructor-led, ScholarSync emphasizes informal, student-to-student engagement, enhancing motivation and learning retention through collaborative dialogue.

The platform also benefits educators and institutions by indirectly revealing academic pain points, helping them understand where students are struggling the most. ScholarSync ensures accessibility across devices with a responsive frontend and is built using reliable technologies such as Django, HTML/CSS, JavaScript, Bootstrap, and PostgreSQL. It emphasizes data integrity, usability, and scalability, making it adaptable to the needs of schools, colleges, and coaching centers.

Overall, ScholarSync stands out as a modern academic collaboration hub that not only strengthens peer learning but also builds community among students. It is a practical, efficient, and meaningful solution for the everyday challenges of academic doubt-solving and group learning — making it a compelling project for implementation and a strong candidate for academic approval.