

“Abitu.ge: A Collaborative Web Platform for Student- Teacher Interaction and Academic Support”

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This project involves the development of a web-based forum designed to support Georgian high school students who are preparing for the National Entrance Examinations. The platform addresses a gap in the local education system by providing a structured, subject-specific environment where students can discuss exam-related problems and receive guidance from qualified teachers.

Content will be organized by examination subjects, which enables users to post questions in both text and image formats for clearer problem representation. The forum will integrate a community-based voting system that allows users to evaluate responses, in order to ensure that accurate and helpful solutions are prioritized. In order to create a collaborative ecosystem, the platform reduces the barriers to high-quality academic support, making specialized exam preparation accessible to a broader demographic of students regardless of their geographic location.

Role-based access for students and teachers will support appropriate interaction and contribute to a professional academic atmosphere. In addition to its core learning functions, the platform will collect and process engagement data to identify patterns related to student participation and subject difficulty. These insights will allow for the continuous refinement of the platform's resources, which helps educators to pinpoint specific curriculum areas where students struggle most.

The system will be developed using a C#/.NET backend with Entity Framework Core for database management and SQL for data storage. Python will be used to support basic data processing and recommendation logic. Security will be ensured through JWT-based authentication, password hashing and input validation to protect against common web vulnerabilities. The architecture is designed for scalability, ensuring the system remains responsive during peak study periods. Finally, the project will be developed using an Agile methodology, for iterative development and regular testing.