

CS157A Database Project

A Web Application for Study Materials

Team 29

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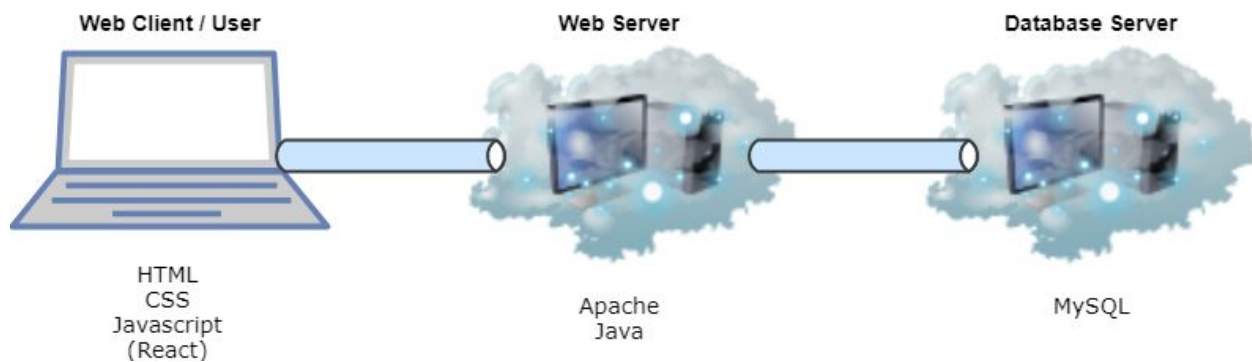
1. Project Description

- For our project, we will be making a web application that allows users to easily create, use, and organize study materials. These study materials will include tools like flashcards, quizzes, or even graphs.
- The goal of this project is to use a database management system to create something useful and powerful. As a result of this, team members can expect to learn more about using databases to create useful applications. This is a skill useful to all who will work with software and databases. A secondary goal is to create an application that enables users to create new and engaging methods to review content. Perhaps this application can even be used to study for CS157A quizzes and exams.
- The stakeholders of this project will primarily comprise of students across all levels of education who are looking for different methods to study.

2. System Environment

- The program is meant to run within a client's browser. The GUI interface will thus be made using HTML, CSS, and Javascript (using the React library). This will then connect to a web server made using

Apache Tomcat. This web server will provide the client with the code necessary to run the program, including java code within a JSP file that will assist in delivering content from the database. This server will thus be responsible for connecting the client with the database. The database will be managed using MySQL version 8. This can all be seen in the following diagram.



3. Functional Requirements

- List of detailed descriptions of users and how users interact with your applications

4. Non- Functional Issues

- Detailed descriptions of graphical user interface systems
- Detailed descriptions of security
- Detailed descriptions of access control

