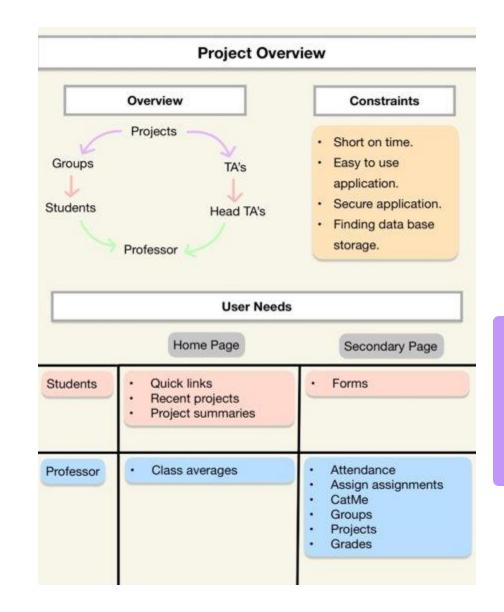


Project Overview

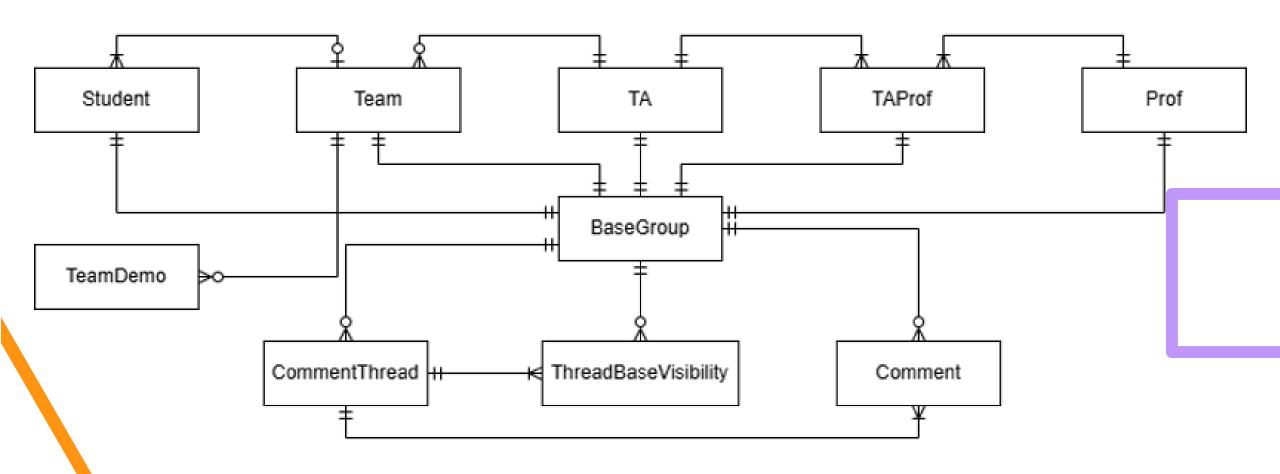
Project Overview

- Project: Computer Science 309 Dashboard
- Advisor: Dr. Simanta Mitra
- Client: Dr. Simanta Mitra
- Goal: Create a platform that gathers, analyzes, and portrays data from numerous applications used in the course including, Canvas, CATme, Gitlab, etc.
- Special Features: Once the application is in motion, we will add attendance, ABET, and other features!

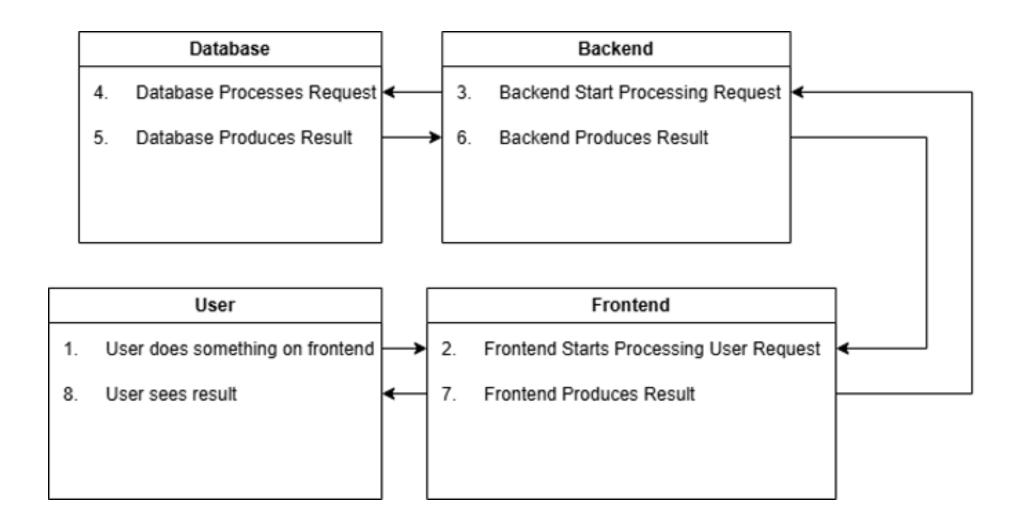


Detailed Design

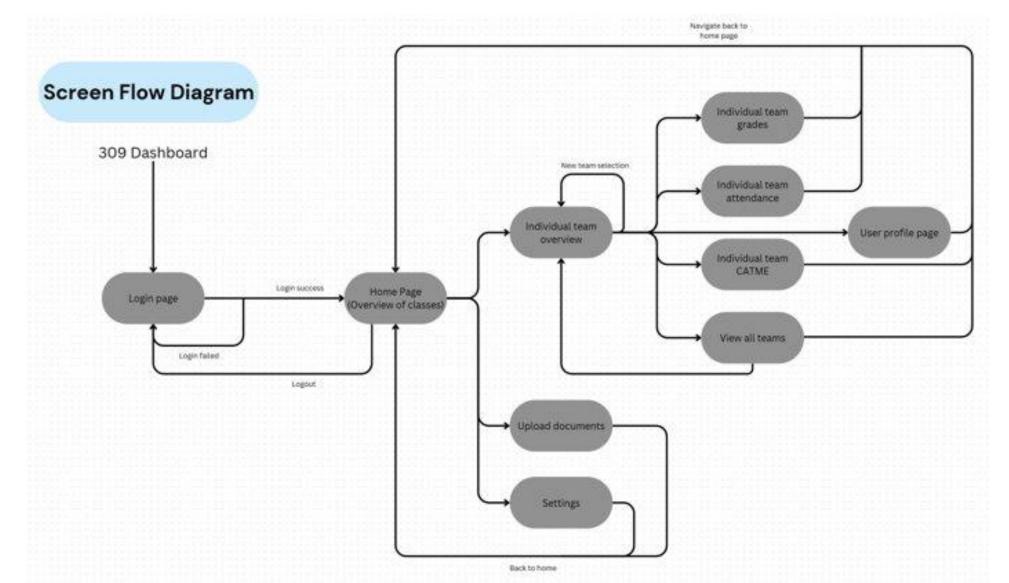
ER Diagram

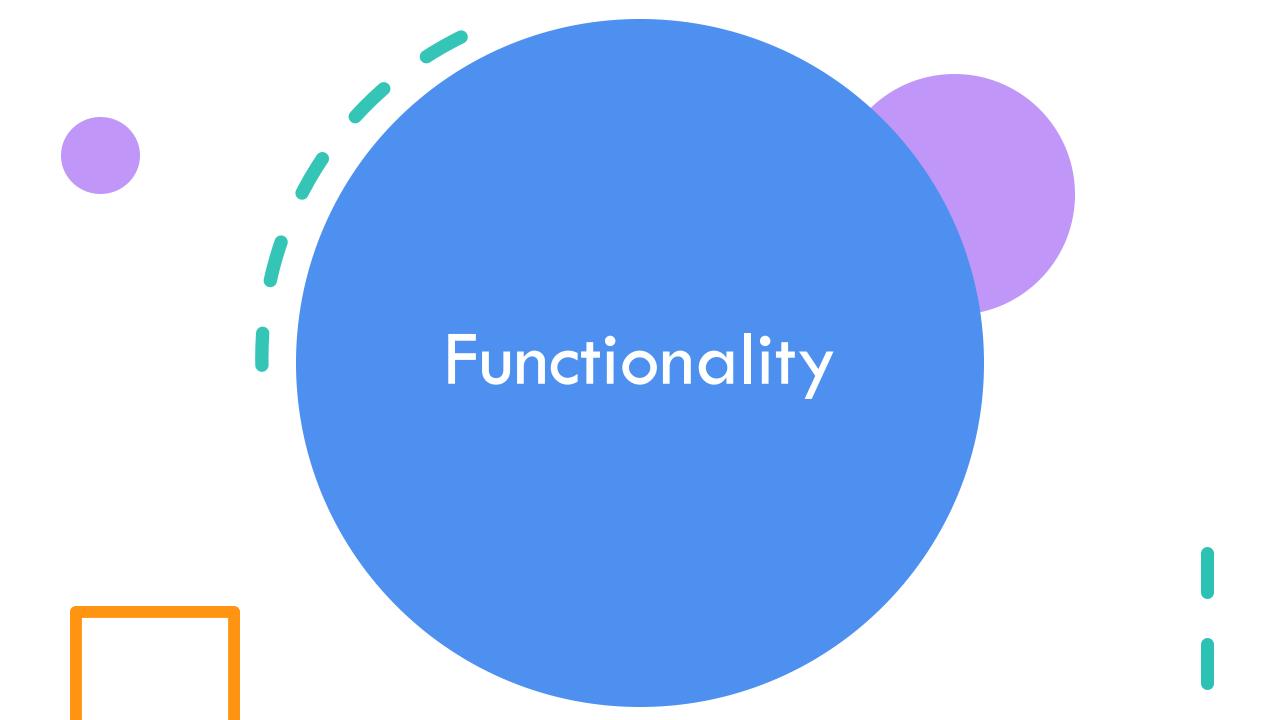


Application Connectivity Diagram



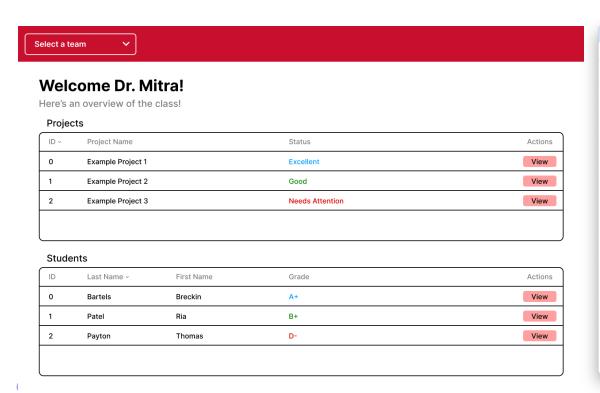
Screen Flow Diagram



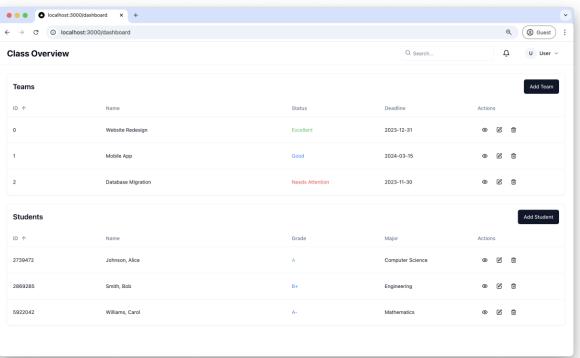


Home Page

Figma Mockups

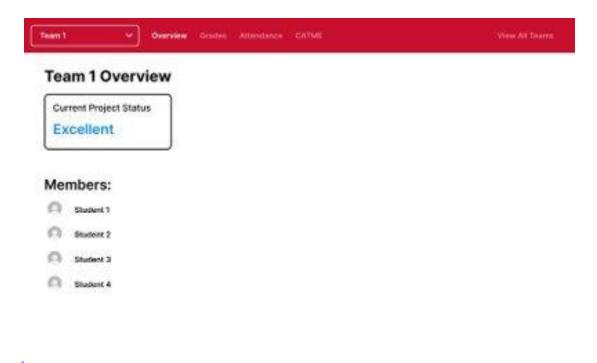


Basic Implementation

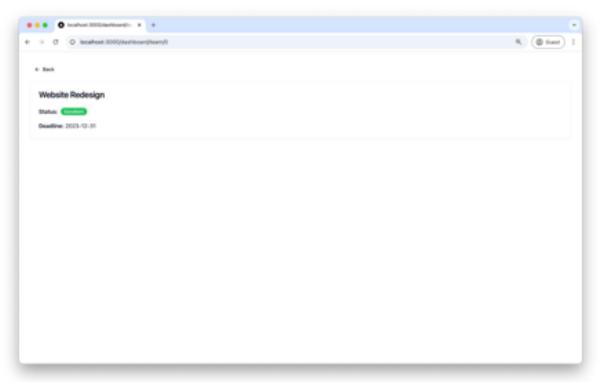


Individual Team Page

Figma Mockups



Basic Implementation



Technology Considerations

Requirements

Topic	Considerations
AWS	 Scalable, reliable, and robust. Cost-effective.
Canvas, GitLab, CATME, Google Forms	 API changes could break functionality. Some platforms might not have a public API.

Areas of Concern

Areas of Concern

Concern Level	Concerns
Primary	ISU integrated loginExternal API'sFERPA
Secondary	File analysis and creationPrinting functionality

Conclusions

- Users include Professors, Teaching Assistants, and students.
- All information will be available in one location.
 - Students will be able to access all assignment information in one platform for review after submission.
 - Students will have easier access to class and project resources.
 - Professors and TA's will be able to track students that are problematic in submitting assignments or attending class.
- Professor will be able to analyze class data in coordination with ABET requirements.
 - Other professors could potentially use this part of the program for their course.
- Stronger organization of course materials for storage.
- Engineering standards IEEE 830-1988 & 101-2016 are applicable.