



Product Research

Computer Science 309 Dashboard

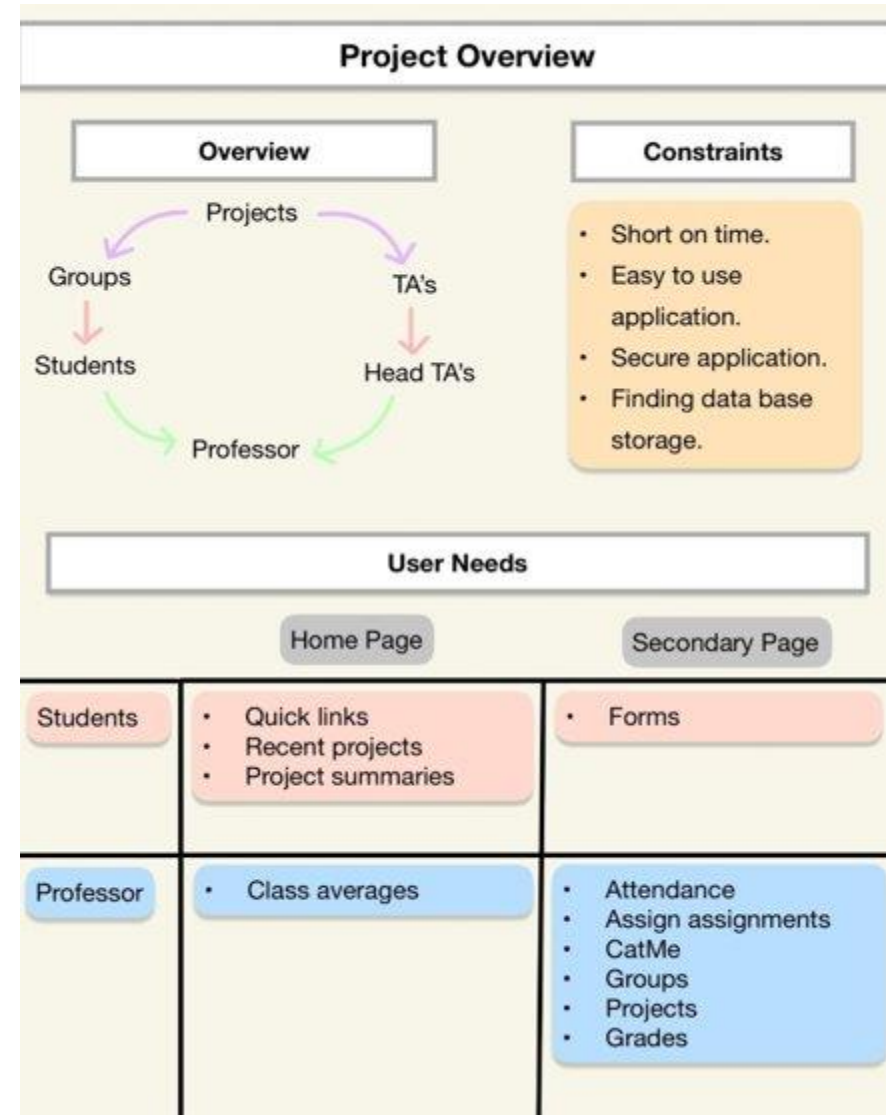
Team 14: Bradley Gaines, Breckin Bartels, Kat
Christofferson, Ria Patel, Thomas Payton & Varun Jain



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!





Problem Statement

Project Statement

- Official Project Abstract:
 - The ComS 309 Dashboard will be an App and website that students, TAs, and professors can utilize to access resources, see team metrics, and look at the time until their next demo.
 - TAs will also be able to manage teams more efficiently and will be notified about problematic students.
 - It will integrate elements from Github, CATME, and Canvas to present all information in one place.
 - Two teams have attempted this project in the past; our team will analyze their codes to develop a working application.
 - TypeScript, Node.js, and React Expo will be used to design the application, along with an AWS RDS-supported database for storage. Once developed, the system will be deployed on AWS.



Related Products
&
Market Gap

Related Products & Market Gap

- Data sources include:
 - Canvas
 - CATME
 - Google Forms
- No convenient way to aggregate and view data in one place.





Product Research

Product Research

- Our research for an application that has all of the necessary aspects desired by Dr. Mitra (attendance, forms, reflections, assignments, grades, etc) fell short.
- In order to solve Dr. Mitra's problem, we will have to create this application/dashboard ourselves.
- By creating this platform ourselves, we are able to take feedback from Dr. Mitra, his TA's, and his students, in order to find out what aspects of the program are desired.
- Also by creating the platform ourselves, Dr. Mitra will be able to add functions in the future if necessary!



Conclusions

- Users include professors, teaching assistants, and possibly students.
- Professor will have all information available in one location.
- Professor 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.