



# Problem and Users

Computer Science 309 Dashboard

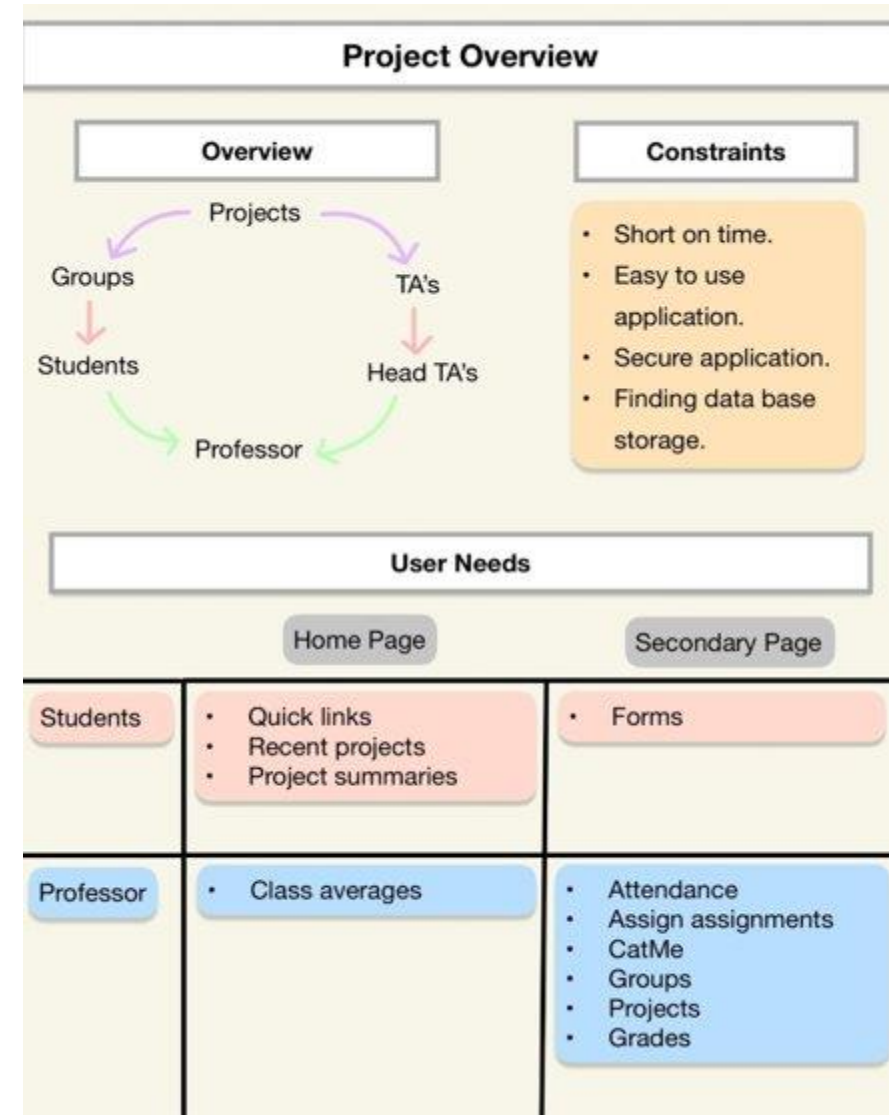
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# Project Overview

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- 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

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- 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.



# Users and Needs

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Users		Needs	
Professors		<ul style="list-style-type: none"><li>• Students enrolled (names, pictures, etc.)</li><li>• Attendance tracking</li><li>• Problematic students</li><li>• Grades</li><li>• Performance data</li><li>• Ease in combination of data from multiple platforms</li></ul>	
Teaching Assistants		<ul style="list-style-type: none"><li>• Students in groups (names, pictures, etc.)</li><li>• Problematic students</li><li>• Grades</li><li>• Reviews and reflections</li></ul>	
Students		<ul style="list-style-type: none"><li>• Group information (projects, teammates, etc.)</li><li>• Assignments</li><li>• Grades</li><li>• Reviews and reflections</li></ul>	
Others		<ul style="list-style-type: none"><li>• Performance data</li></ul>	



# Conclusions

- Users include Professors, Teaching Assistants, and students.
- Professor will have all information available in one location.
- 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.
- Students will have easier access to class and project resources.
- Students will be able to access all assignment information in one platform for review after submission.
- Stronger organization of course materials for storage.