



# Prototyping

Computer Science 309 Dashboard

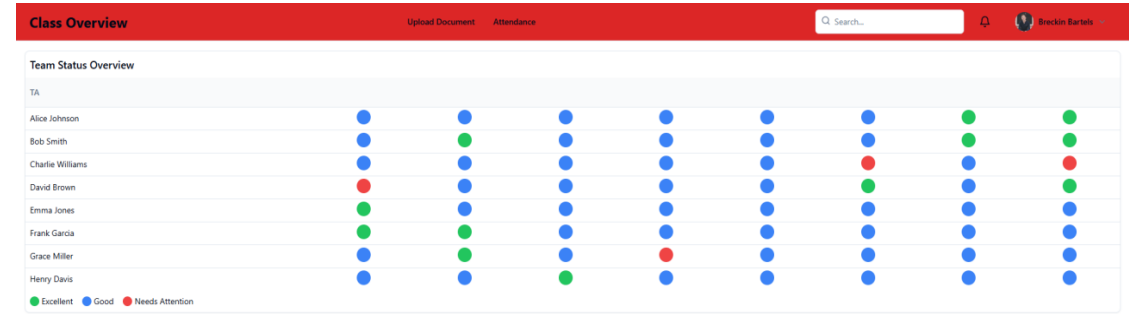
Team 14: Bradley Gaines, Breckin Bartels, Kat  
Christofferson, Ria Patel, Thomas Payton & Varun Jain



# 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!



## Home Page

The screenshot shows an 'Individual Team Page' for 'Team 1'. The team status is 'Excellent'. Below this is a 'Student Progress' table showing grades for four students across four assignments.

Student	Assignment 1	Assignment 2	Assignment 3	Final Project
Alice	C	A-	B	F
Bob	A	A-	B+	C
Charlie	B	A-	D	D
Diana	A-	F	C	B

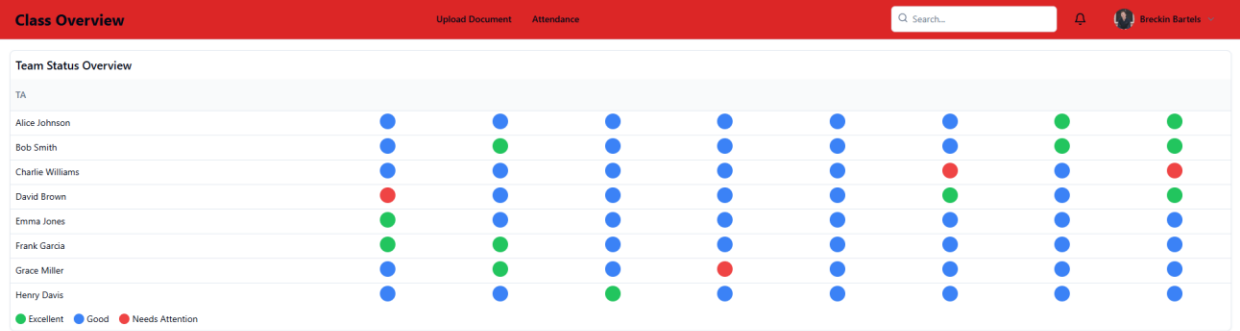
## Individual Team Page



Prototype

# Prototype

- Current dashboard design (Website):
  - Basic implementation of desired features.
  - Base outline of pages.
  - Trial and error of how to represent data.



**Class Overview** Upload Document Attendance Search... Breckin Bartels

Team Status Overview

TA

Alice Johnson	●	●	●	●	●	●	●	●
Bob Smith	●	●	●	●	●	●	●	●
Charlie Williams	●	●	●	●	●	●	●	●
David Brown	●	●	●	●	●	●	●	●
Emma Jones	●	●	●	●	●	●	●	●
Frank Garcia	●	●	●	●	●	●	●	●
Grace Miller	●	●	●	●	●	●	●	●
Henry Davis	●	●	●	●	●	●	●	●


● Excellent ● Good ● Needs Attention

## Home Page

← Back [Change View](#)

Today's Code: **15rc**

## Attendance Page



← Back

**Team 1**

Status: **Excellent**

TA: TA 2

Student Progress

Student	Assignment 1	Assignment 2	Assignment 3	Final Project
Alice	C	A-	B	F
Bob	A	A-	B+	C
Charlie	B	A-	D	D
Diana	A-	F	C	B

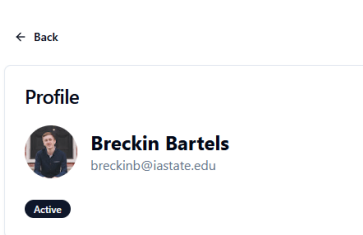
## Individual Team Page

# Prototype Reflection

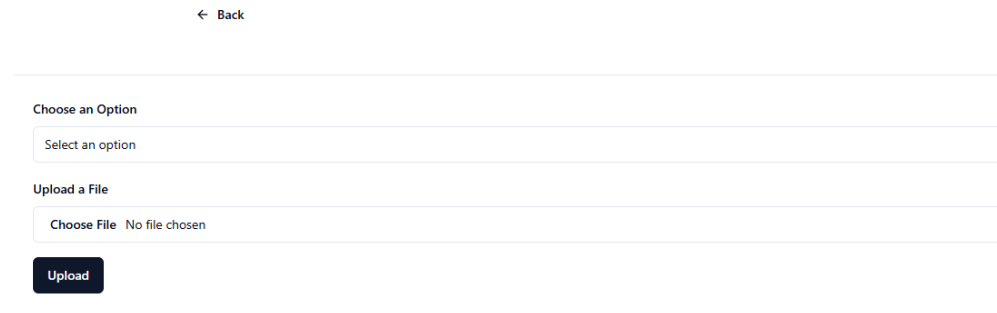
- Our project does not fit into traditional prototype standards.
- Our prototype is the current state of our website.
- Instead of creating multiple prototypes, our project shows advancement by additions to our website design.
- We learned based on what didn't work:
  - Multiple pages are better for neater organization.
  - Important details should be represented first, then have drill down pages for more information.
  - Color codes allow for easier understanding of the data being represented.
- Initial designs that are still held in our current website include:
  - Home page focused on our client's data.
  - Cross coordination between individual student data and group data.

# Implications and Next Steps

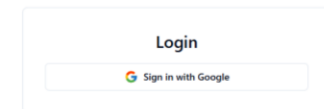
- We are continuously:
  - Adapting the layout of the website for efficient data searching.
  - Adding more pages to fit the desired features of our client.
  - Implementing safety features such as Microsoft Authentication logins.
  - Integrating with other applications such as Canvas, CATme, and Google Forms.
  - Maximizing the potential of our website.



Student Profile



Upload Documents



Google Login

# 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.