Overview
Capital One sponsors various Capstone projects at multiple schools throughout the country and has a desire to scale its efforts. Understandably, management for so many projects and schools can be incredibly time consuming, and communication is always a challenge. In an effort to assist with this, a web application was created to facilitate management and communication needs between a Capstone team and Capital One. We were given the task to improve and add on to this existing web application.

Objectives
Our main objective was to make the existing web application more meaningful by promoting a higher level of productivity. In order to achieve this, the user interface had to be revamped, various APIs needed to be leveraged to display progress metrics, and general capabilities of the web application required improvement.

Approach
• To start, we set up our personal environments in order to extensively study the existing application
• Once we fully understood all of the previous work, we travelled to meet with our sponsor
• At this meeting, we outlined all of our objectives and their relative importance
• We proceeded by completing each objective, one at a time, starting with the most important
• Many of the pages and displays were mocked up before being transformed into functional code
• Testing on each major aspect was completed in unison with its development
• Upon completion of all objectives, the web application as a whole was put into alpha testing
• As more users utilize the application, beta testing will commence
• The web application will be launched for general use as soon as expected functionality is displayed

Outcomes
We have created a web application that facilitates management and communication between a Capstone team and Capital One. The main application improvements are as follows:
• A more robust registration/login method was introduced
• An optimized user interface, which satisfies Capital Ones specifications, was implemented
• The profile page for each user was enhanced
• A detailed project page was created for each specific team
• Various APIs were utilized to display multiple project progress statistics
• Team member/Sponsor privileges were incorporated