

Project Requirements and Use Cases Assignment

For this project, we plan on making revisions to the Blackboard notification system component.

Project Requirements

1. Software Requirements
 - 1.1. Frontend will be built using a combination of ReactJS as a JavaScript web framework and Tailwind CSS framework for styling
 - 1.2. Backend will be built using a combination of NodeJS as a backend runtime and ExpressJS for server routing and other API logic
 - 1.3. Webpage will be hosted on Heroku
 - 1.4. Git will be used for version control, using GitHub to host a repository to aid in codebase sharing
2. Design Requirements
 - 2.1. Basic notification data will be present on the notification page in a clear and concise manner
 - 2.1.1. Basic notification data will consist of the course name where the notification is coming from, the notification header, the type of notification, the notification message, and the date it was uploaded
 - 2.1.2. Notifications will first be presented in a sorted order by descending date by default, but can be changed
 - 2.2. Notifications can be refined by various filters (course, specific dates, priority, unread, etc)
 - 2.3. Similar to existing design, notifications will be defaulted to unread, and can be changed to 'Read' status, however the way this is displayed will be changed
 - 2.4. Notifications will have the ability to be cleared off the screen
 - 2.5. Breakdown of the count of notifications by class
 - 2.6. There will be clear styling for different types of notifications (homework vs new grade vs general alerts, etc)
 - 2.7. Data will be readable for mobile and small window views