

## Usability Testing

For the prototype of the Facial Recognition Attendance System, we decided on showcasing the login page and the teachers page to demonstrate how the full product would function. From the login page, we sought to test if logins would direct the user to the correct page based on their role as either a teacher, a student, or an admin. To do this we created three accounts each with different roles and tested each of them to ensure that not only did they log in but also went to the appropriate page. All three were able to successfully log in and each displayed the page that corresponded with their permissions with no recorded errors. We also ran quick tests for if the user inputs an incorrect user name and/or password to ensure that the system does not erroneously let them proceed and are pleased to report no errors from that end either.

Also included in the testing for the prototype would be the UI of the teachers page which would be what anyone classified as an 'instructor' would see and interact with. From here, we sought to test if each button would direct the user to the appropriate page implied by the name. Starting from the left side navigation panel, we tested the 'Dashboard', 'My Classes', 'Messages' button to ensure that it opened the correct tabs for the instructor to see an overview similar to the one on Canvas, their classes, and any messages they may have received from students respectively. While these tests were a success, we ran into an error later on in which the actual messages within the 'Messages' tab didn't actually direct the user to the message history like we intended. This error of not properly directing the user to the appropriate page was one that we had to deal with a few more times as other buttons such as the 'View' button for specific classes didn't direct to what we had originally intended. To fix these errors, we introduced new pages for the message inbox as well as a new overview page for the specific classes which shows an overview of student attendance in that class in both list and pie chart format.