

FCBI

10/9/2021

CS 451

Iteration 1 Report

For our project, what went right was decent coordination between our front-end and back-end engineers. The back-end was quickly brought up and running and, using the MVC/Razor Pages setup, it was easy to implement the front-end without needing to change how the database was accessed. Also, given the framework and documentation for the framework, we have a software foundation that can be easily used for 2FA, email confirmations, and text notifications. We also succeeded in making a UI that translates well to mobile, thanks to Bootstrap, although the transition between full PC and mobile screens has an oversized header that will need to be addressed in iteration 2.

What didn't go well was our lack of unit testing. We did manual testing as we went along, but moving forward we will need to implement automated quality assurance. Furthermore, we did not use a proper front-end JavaScript framework, although Razor Pages definitely suffices for now. We would like to implement React or something similar in iteration 2 to make our web pages more interactive and flexible. Another improvement would be to set up a truly separate back-end server to redirect database queries through for increased security. Also, our current server utilizing Azure was expensive when not set up to minimize off-site resource utilization and, as a result, we have consumed a large amount of our student credit budget already.