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CS-471: Final Deliverable

The final assignment for this class was to add more features to our product, uLearn. We decided to implement class creation, a grade object design, and GUIs for grade creation, class deletion and user deletion. We have successfully implemented a functional class creation.

When we ran the tests on the code, we discovered a few simple bugs (nothing abnormal) which made us rewrite a few parts of the code. There were a few bugs with the grade creation page, and displaying the gui correctly, but we fixed that. There were also bugs in class creation like our test to see if the input fields were actually filled, and had a reversed boolean check. This caused it to create the class on a failure as opposed to a success, but we were able to fix this easily by swapping the true and false around. If we could change anything about this feature to improve it, we would definitely like to add a popup saying that the class was created successfully after it is done. We also restructured a lot of the code that we previously wrote in order to make it more efficient and work better with the stuff we have now added, which unfortunately took more time than initially expected. This mostly involved restructuring our database and how the rest of the code interacts with it. In the end, we split up our database into individual json files that contained data for classes and users respectively.

When it came to coding, the pair programming teams were: Maggie and Rachael, Nate and Zach, and Chris and Braylond. Maggie and Rachael worked on implementing the class

creation backend while Braylond and Chris worked on the grade objects and grade addition UI, and Zach and Nate worked on the class creation frontend and documentation.

We had more difficulty than initially expected, as we were unable to meet in person to work together, with the school closing and the Governor's shelter order in place. This made it more difficult because some of us live rather far away and not everyone has great internet access at home. Most of us also had to move home in the middle of this deliverable, due to the shutdown, which did not help us with time, as everyone was moving at different times making it rather difficult to meet. Overall, we think that, given the unusual circumstances, we performed well and got a decent amount of work done.