

Instructor Review Meeting 2

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Overview

Many changes were made to the design document that involved new features, scrapped features, and improving our project documentation. In SE491 there were many places we used future tense indicating the feature hasn't been implemented yet, now since those features are implemented those have been updated.

Throughout this semester we have gained a better understanding on what our advisor wants the project to look like. As a result, some features were added to the document while other features were removed to align with the current direction of the project.

Learning Summary

The learning summary has been updated to include a few more courses at Iowa State that the group thought applied to the project. Those being SE 329, COMS 363, and CYBE 430. These classes weren't in the learning summary before, but throughout this semester we have applied knowledge from these courses to the project.

Requirements

There were a few added functional and non-functional requirements that needed to be updated from the previous semester.

- Use of Globus for SSO authentication
- Teacher/TAs having access to chat/quiz logs
- Students being able to participate in live chat and quizzes
- Using BLOB storage for uploading documents
- Live chat uploading documents

These were some functional requirements that weren't mentioned before that have since been implemented into SmartClass

Engineering Standards

Section 2.2.1 & 2.2.2: This section revolves around engineering standards, we had a solid base of standards but added 5 others to more accurately reflect the guidelines of our project. We included IEEE 830, 1016, 829, and 1028. These cover a broad range of topics from software design to testing. As the project has become more complex and refined the standards used had to be updated to reflect that.

Project Plan

Section 3.1: Gitlab Issues: We updated this section to reflect our more refined approach to Gitlab issues. During this section we went into greater detail about how gitlab issues is used to delegate tasks and breakdown work.

Section 3.2: Globus, Quiz, Live chat, polling logs: We updated this section to reflect our new scope on the project. There wasn't major changes to this section just features like Globus for institution logons, quizzes and polls capturing student data and a more detailed description of how we conduct livechat.

Section 3.4: Gantt chart: With our more refined Gitlab task process and documentation, fixed the Gantt chart to more accurately depict our progress throughout the project with emphasis on the major features.

Design

We haven't encountered many design changes as we started with a good idea of what kind of software we wanted to make. The only major feature we had to change on the Design Document was screen sharing. We planned to have a live screen capture running and streaming to all students in the class, but that wasn't what the client had in mind. We changed the screen sharing feature to just use a live chat room that can show file uploads. We also updated section 4.3.2 to mention that we are using SpringBoot and Maven for the backend.

Testing

Most of the changes in the testing section were for clarification and grammar. There were also several tests mentioned in the future tense since at the time of writing, testing had not begun. These instances have been updated to reflect the progress made in testing so far. As for major informational changes, we didn't really have any here. We wrote the testing section knowing what software we were going to use and the testing tools for that software are still applicable. We still use tools like JUnit and Mockito for testing various parts of the software.