Milestone 4 - Dashboard

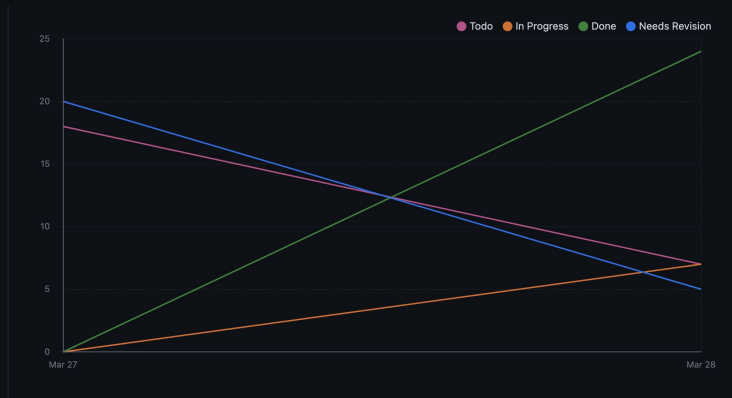*COSC 310: InstaQuiz (The Best Group)*

Overall Review

Over this milestone, we were able to complete all the unit tests as per our requirements in our test plan. We then wrote up sections of the Account, Student, Instructor, and Course objects with some function implementations. We made the realization that implementing the other classes may be an inefficient use of memory and so we left their implementations for revision. We also wrote up some of the basic HTML pages we know we will be needing for the interface moving forward and have yet to merge that branch back to the main release branch as we will tweak it. Moving forward to the next milestone, we plan to fully finalize our HTML implementations and integrate a means of interfacing the front-end HTML and Javascript with the back-end Java code written. We also plan to use a SQL database to store users, and need to implement a hash function for stored data.

Overall Retrospective

The progress we have made over the duration of this milestone has been heavily impacted by some unforeseen factors. Our communication structure was in need of revision. For the first three milestones we had relied primarily on discord text channels for the bulk of our communication. Distributing tasks always seemed to work out evenly, so our workflows were kept somewhat separate. During one work session we decided to join a voice channel and have a detailed and honest discussion about the future of our project. We all quickly realized that we were slightly underprepared for the task. Java was quickly revealed to be the only programming language that everybody had worked with. The implementation of our iClicker clone requires at least partial knowledge of html, javascript, php, and SQL. The broader topics such as dockerization, front/backend web design, UI/UX design, and database management were only recognized by a few members. We decided the best course of action was to get everyone working on a java project using test driven design. Java serves as a universal language for our group, and we have made really good progress on building a crude client-side version of InstaQuiz in our native language. This project has not been simple and its guidelines don't play to all of our skill sets or aptitudes. However we are proud of the effort and time we have commited to this project. Adapting to and overcoming these challenges is an integral part of our development as software engineers. It is a work in progress but we are excited to continue our development of InstaQuiz.

Overall Progress Over Cycle

Task Assignments

	Title	Assignees	Status
1	Unit Test 1.1	gusgoerzen	Done
2	Unit Test 1.2	TannerDyck	Done
3	Unit Test 1.3	patrickma6199	Done
4	Unit Test 1.4	Kiyooon	Done
5	Unit Test 1.5	gusgoerzen	Done
6	Unit Test 1.6	TannerDyck	Done
7	Unit Test 1.7	patrickma6199	Done
8	Unit Test 1.8	gusgoerzen	Done
9	Unit Test 1.9	TannerDyck	Done
10	Unit Test 1.10	gusgoerzen	Done
11	Unit Test 1.11	TannerDyck	Done
12	Unit Test 1.12	Kiyooon	Done
13	Unit Test 1.13	gusgoerzen	Done
14	Unit Test 1.14	patrickma6199	Done
15	Unit Test 1.15	gusgoerzen	Done
16	Unit Test 1.16	TannerDyck	Done
17	Unit Test 1.17	patrickma6199	Done
18	Unit Test 1.18	Kiyooon	Done
19	Unit Test 1.19	TannerDyck	Done
20	Unit Test 1.20	patrickma6199	Done
21	Integration Test 2.1		Todo
22	Integration Test 2.2		Todo
23	Integration Test 2.3		Todo
24	System Test 3.1		Todo
25	System Test 1.1		Todo
26	System Test 1.2		Todo
27	Unit Test 2.1		Todo
28	Implement Student Class	gusgoerzen	Done
29	Implement Instructor Cl...	gusgoerzen	Done
30	Implement Course Class	gusgoerzen	Done
31	Implement Question Cla...	gusgoerzen	Needs Revision
32	Implement Responses ...	gusgoerzen	Needs Revision
33	Implement Poll Class	gusgoerzen	Needs Revision
34	Implement Account Class	gusgoerzen	Done
35	Implement Session Class	gusgoerzen	Needs Revision
36	Implement PollSummar...	gusgoerzen	Needs Revision
37	Change FR 1.20 to only ...	patrickma6199	In Progress
38	HTML template: sign in	Rev-rok	Done
39	HTML template: accoun...	Rev-rok	Done
40	HTML template: studen...	Rev-rok	Done
41	HTML template: instruc...	Rev-rok	Done
42	Database schema	Rev-rok	In Progress
43	Rewrite Tests to follow t...	patrickma6199	In Progress