Quack

Team 3 - Sprint 2 Planning Document

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Sprint Overview

In Sprint 2, our goal is to flesh out the quiz taking features for the student app and create the UI for instructor's web app. We also want to connect the backend the the front end client and allow students to register for courses, login, and have their quiz answers be recorded.

SCRUM Master: Tyler Rex

Meeting plan: We plan to meet on Mondays and Wednesdays in a reserved room at WALC at 11:30 am.

Risks & Challenges: For all of Sprint 1, our front end team worked on the mobile app using React Native. The instructor's web app will be built in React so a potential risk could surface depending on how different React is from React Native and how much code can be reused. A challenge we have yet to solve is finding an efficient way to authenticate users through the front end. Finally, another challenge of ours is completing the features and user stories we did not finish from Sprint 1 on top of our tasks for Sprint 2.

Sprint Detail

User Story #1

As a user, I would like to input an answer to a multiple choice question in a quiz.

#	Description	Estimated Time	Owner
1	Multiple choice buttons will highlight when tapped	2 hours	Mason
2	Buttons will be shown on the screen based on how many answers there are	4 hours	Mason
3.	Connect the UI to the backend for saving answers	4 hours	Mason
4.	Manual Testing	30 minutes	Mason

Acceptance Criteria
- Given that the question is a multiple choice question, the user will be able to answer the question from a front-end side.
- Given that the question is a multiple choice question, the user will be able to see all of the options.
- Given that the question is a multiple choice question, the number of buttons will adapt to the possible answers available.

User Story #2

As a user, I would like to input an to answer to open-ended questions in a quiz.

#	Description	Estimated Time	Owner
1	Design UI for open-ended questions in a quiz	2 hours	Mason
2	A text box that allows input will be shown for the user to answer the question	2 hours	Mason
3	Question text will shift position when there is/isn't a picture	3 hours	Mason
4	Implement the next arrow visually and save answer on click	1 hour	Mason

#	Description	Estimated Time	Owner
5	Implement the previous arrow visually	30 minutes	Mason
6	Implement the UI to connect to the backend when manually specifying open-ended question	4 hours	Mason
7.	Manual Testing	30 minutes	Mason

Acceptance Criteria
- Given that the question is a free-response question, a text box that allows input will be shown.
- Given that the question is a free-response question, the user will be able to see the question the instructor gave and save their answer in the text box.
- Given that the UI is implemented correctly, when completing the answer it will send the request for the server to save it.

User Story #3

As a user, I would like to input an to answer to fill-in-the-blank questions in a quiz.

#	Description	Estimated Time	Owner
1	Design the UI for fill-in-the-blank questions in a quiz	2 hours	Mason
2	A fill-in-the-blank that allows input will be shown for the user to answer the question	3 hours	Mason
3	Implement the styling of the fill in the blank box to visually be positioned correct	2 hours	Mason
4	Implement the UI to connect to the backend	4 hours	Mason
5.	Manual Testing	30 minutes	Mason

Acceptance Criteria:
- Given that the question is a fill-in-the-blank question, a text box that allows input will be shown.
- Given that the question is a fill-in-the-blank question, the user will be able to see the question the instructor gave and save their answer in the text box.
- Given that the UI is implemented correctly, when completing the answer it will send the request for the server to save it.

User Story #4

As a user, I would like my answers to quizzes to be recorded by the database.

#	Description	Estimated Time	Owner
1	Make a GraphQL type for Answer class	1 hour	Todd
2	Make GraphQL resolvers for Answer class	4 hours	Justin
3	Add test cases for Answer GraphQL resolvers	5 hours	Todd

Acceptance Criteria:
- Given the server receives the appropriate request, an Answer can be created in the database.
- Given the server receives the appropriate request, an Answer can be received from the database.

User Story #5

As an instructor, I would like to be able to login through a web app.

#	Description	Estimated Time	Owner
1	Make a GraphQL type for Role class	1 hour	Todd
2	Make GraphQL resolvers for Role class	4 hours	Justin
3	Add test cases for Role GraphQL resolvers	5 hours	Todd
4	Design web application's login/registration UI	3 hours	Theo
5	Authenticate user with JWT	6 hours	Justin

Acceptance Criteria:
- Given the server receives the appropriate request, a Role can be created in the database.
- Given the server receives the appropriate request, a Role can be received from the database.
- Given that the login and register screen is created, a user should be able to enter the credentials, but not login yet.

User Story #6

As an User, I would like to view the grades for each course.

#	Description	Estimated Time	Owner
1	Set up grid layout to hold props in the course details screen	1 hour	Tyler
2	Add a back button	.5 hours	Tyler
3	Add logic to fill in courses if received from the backend	2 hours	Tyler
3	Have the title of the screen be dependent of the course name that was clicked	1.5 hours	Tyler
4	Manual Testing	30 mins	Tyler

Acceptance Criteria:
- Given that the screen is accessible, the title should be dependent on the course name that was clicked.
- Given that the grades screen is implemented correctly, a user will be able to see if they have grades for that class
- Given that the screen is

User Story #7

As an instructor, I would like an interface to switch between courses.

#	Description	Estimated Time	Owner
1	Create Sidebar prop	3 hours	Theo
2	Populate sidebar with list of courses	1 hour	Theo
3	Create button to create a course	1 hour	Theo
4	Manual Testing	30 min	Theo

Acceptance Criteria:

- Given the sidebar is created successfully, instructors should see a list of their current courses.
- Given the sidebar navigation is working correctly, an instructor should be able to click a course an have the view to the right of the sidebar update with that course's details.
- Given the create a course button is working correctly, an instructor should be able to add a new course to the list.

User Story #8

As an instructor, I would like to view course quizzes for each course.

#	Description	Estimated Time	Owner
1	Create a tab in the main window titled "Quizzes"	1 hour	Theo
2	Create list of recently administered quizzes	3 hours	Theo
3	Create list of upcoming (unadministered) quizzes	3 hours	Theo
4	Manual Testing	30 min	Theo

Acceptance Criteria:
- Given the tab navigation is implemented successfully, clicking the "Quizzes" tab will switch the main view to the quiz screen
- Given the list of recently administered quizzes is created successfully, an instructor will be able to view a list of quizzes they have already given.
- Given the list of upcoming quizzes is created successfully, an instructor will be able to view a list of quizzes they have not yet given.

User Story #9

As an instructor, I would like to view the course roster for each course.

#	Description	Estimated Time	Owner
1	Make a GraphQL type for Section class	1 hour	Todd
2	Make GraphQL resolvers for Section class	4 hours	Justin

#		Estimated Time	Owner
3	Add test cases for Section GraphQL resolvers	5 hours	Todd
4	Create a tab in the main window titled "Roster"	1 hour	Theo
5	Create a selectable list of sections for the course	2 hours	Theo
6	Create a student roster list	3 hours	Theo
7	Manual Testing	30 min	Theo

Acceptance Criteria:
- Given the server receives the appropriate request, a Section can be created in the database.
- Given the server receives the appropriate request, a Section can be received from the database.
- Given the tab navigation is implemented successfully, clicking the "Roster" tab will switch the main view to the roster screen.
- Given the list of sections is created correctly, clicking a section title will populate the roster list with students in that specific section.
- Given the roster list is created successfully, a scrollable list of student names and emails will be visible.

User Story #10

As an instructor, I would like to view the course roles for each course.

#	Description	Estimated Time	Owner
1	Create a tab in the main window titled "Roles"	1 hour	Theo
2	Create a list of users with their assigned roles	2 hours	Theo
3	Allow different roles/permissions be assigned to users	3 hours	Theo
4	Manual Testing	30 min	Theo

Acceptance Criteria:
- Given the tab navigation is implemented successfully, clicking the "Roles" tab will switch the main view to the roles screen.
- Given the list of users is created correctly, a list of users with their assigned roles will be visible to the instructor.

- Given the list of users can be edited, an instructor should be able to change users permissions, add users, and remove users.

User Story #11

As an Instructor, I would like to view course details for each course.

#	Description	Estimated Time	Owner
1	Create a tab in the main window titled "Details"	1 hour	Theo
2	Create text entry for a course description	1 hour	Theo
3	Create label to display course ID	1 hour	Theo
4	Create text entry for a course title	1 hour	Theo
5	Manual Testing	30 min	Theo

Acceptance Criteria:
- Given the tab navigation is implemented successfully, clicking the "Details" tab will switch the main view to the details screen.
- Given the text entry for course description and course title are implemented successfully, the instructor should be able to edit the course title and description any time.
- GIven the course ID label is implemented successfully, the instructor should be able to see the course's ID any time.

User Story #12

As a user, I would like to join a course by entering a course ID number.

#	Description	Estimated Time	Owner
1	Update the Course GraphQL type to handle joining via a course ID number	1 hour	Todd
2	Update the Course GraphQL resolvers to handle joining via a course ID number	4 hours	Justin
3	Add test cases for updated Course resolvers	5 hours	Todd

#		Estimated Time	Owner
4	Send the appropriate request to server when user enters course ID	1 hour	Tyler
5	Add the course to the users list of courses	2 hours	Tyler

Acceptance Criteria:
- Given the server receives the appropriate request, a course can be joined via a course ID number.
- Given that the user is on the dashboard screen, the user can select the "join course" button and enter a course ID in the prompt.
- Given that the user enters an appropriate course ID, the user will see the course on their dashboard.
- Given that the user enters an incorrect course ID, the user will see an error message.

User Story #13

As an instructor, I would like my quizzes to be saved to the database.

#	Description	Estimated Time	Owner
1	Make a GraphQL type for Quiz class	1 hour	Todd
2	Make GraphQL resolvers for Quiz class	4 hours	Justin
3	Add functionality for multiple types of quizzes	4 hours	Justin
4	Add test cases for Quiz GraphQL resolvers	5 hours	Todd

Acceptance Criteria:
- Given the server receives the appropriate request, a quiz can be created in the database.
- Given the server receives the appropriate request, a quiz can be received from the database.
- Given the server receives the appropriate request, an instructor can see all of the quizzes for a given class.

Remaining Backlog

Functional Requirements

1. ~~As a user, I would like to input an answer to a multiple choice quiz.~~
2. ~~As a user, I would like to input an to answer to yes or no / true or false questions in a quiz.~~
3. ~~As a user, I would like to input an to answer to open-ended questions in a quiz.~~
4. ~~As a user, I would like to input an to answer to fill-in-the-blank questions in a quiz.~~
5. ~~As a user, I would like my answers to quizzes to be recorded by the database.~~
6. ~~As a user, I would like to join a course by entering a course ID number.~~
7. ~~As a user, I would like to be able to sign up with just an email and school ID number so that it is easy to set up.~~
8. As a user, I would like to be able to answer questions in a poll.
9. ~~As an instructor, I would like to create courses.~~
10. ~~As a user, I would like to be able to register all my classes within the app so that it is easily organized.~~
11. ~~As a user, I would like to be able to view past quizzes and see the grades.~~
12. As an instructor, I would like to be able to set a password for a quiz so that it is harder for students to cheat on attendance.
13. As an instructor, I would like a form to create a new quiz in a course.
14. ~~As an instructor, I would like my quizzes to be saved to the database.~~
15. As an instructor, I would like to view a list of quizzes per course.
16. As an instructor, I would like to be able to start a quiz I've already created.
17. As an instructor, I would like quiz results to update live in the database.
18. As an instructor, I would like to see live results of my quizzes.
19. ~~As an instructor, I would like see a list of students in attendance.~~
20. As an instructor, I would like to be able to visualize data about my quiz results through graphs or charts.
21. As an instructor, I would like to export quiz results into a spreadsheet.
22. ~~As an instructor, I would like to be able to login through a web app.~~
23. ~~As an instructor, I would like an interface to switch between courses.~~
24. ~~As an instructor, I would like to view course details for each course.~~
25. ~~As an instructor, I would like to view course quizzes for each course.~~
26. ~~As an instructor, I would like to view the course roster for each course.~~
27. ~~As an instructor, I would like to view the course roles for each course.~~
28. ~~As a user, I would like to be able to view the quiz on my device.~~

29. As a developer, I would like to gain user feedback from an anonymous feedback feature that users and professors can use.
30. ~~As a developer, I would like to implement JEST for testing the UI in our project.~~
31. As a developer, I would like to know when our servers are reaching capacity.
32. ~~As a developer, I would like a consistent method of checking out branches and making pull requests to the master branch.~~
33. ~~As a developer, I would like to develop an API that can be used across all applications so that it is easy to set a standard for all platforms.~~
34. As a developer, I would like a method of developing test cases for React Native code.