

## Sprint 2 Plan

Scrum Master: Ben Grant

### Goals:

- Complete the minimum viable product (MVP), including scoring and the ability to pick answers for each quiz question
- Add further customizability options through features such as the quiz editor and full quiz import/export functionality

### Task List:

#### Infrastructure tasks:

- [IT 2.0] Infrastructure tasks
  - [T 2.0.1] [0.5] Set up GitHub Actions
  - [T 2.0.2] [3] Create frontend UI component library (including documentation)
  - [T 2.0.3] [1] Migrate documentation and Document how data is stored on backend
- [US 1.6] As a student, I want to select what I think is the best answer out of some answer choices given to me so that I can participate in the quiz.
  - [1.6.2] [1.5] Player and Host Question and Answer Pages
    - [1.6.2.1] [0.75] Create page where players can select an answer (S 3.0 D/M)
    - [1.6.2.2] [0.75] Create page for host to display question and answers (H 3.0 D)
  - [1.6.3] [0.5] Answer reveal page (Host side) (H 4.0 D)
  - [1.6.4] [0.5] Connection Page Component Routing
- [MVP 1.X] Finish MVP
  - [1.x.1] [1] Create Waiting room page (H/S 2.0 D/M)
  - [1.x.2] [3] Create More Tests
- [US 2.1] As a student, I want to be able to view the score of other students, including my own, so that I can gauge how well I understand the material relative to other students. [3]
  - [2.1.0] [0.5] Document how scores will be stored on backend
  - [T 2.1.1] [0.5] Write functions to generate scores (scoring is already sent, but scores are 0)
  - [T 2.1.2] [0.5] Store scores in game data for final leaderboard

- [T 2.1.3] [1.5] Create page for students that displays student score and correct answer
  - [T 2.1.3.1] [.5] Specify UI design for result display (4.0M, 4.1M)
  - [T 2.1.3.2] [1.5] Create page in react
- [T 2.1.4] [.5] Create page for host that displays Correct answer (Design already in H 4.0D)
- [T 2.1.5][1.5] Display leaderboard after question is complete
  - [T 2.1.5.0] [.5] Document the format used by the server for the leaderboard info
  - [T 2.1.5.1] [.5] Send all scores to host after a question is done (backend task)
  - [T 2.1.5.2] [.5] Specify design for leaderboard page (H 5.0 D)
  - [T 2.1.5.3] [.5] Create leaderboard page in react
- [US 2.2] As a Professor, I want to view the quiz results as grades/scores so that I can understand how well my class understands the material. [2]
  - [T 2.2.0] [.5] Create documentation for quiz export
  - [T 2.2.1] [.5] Export scores and correct answers to frontend
  - [T 2.2.2] Display scores answers to host after game
    - [T 2.2.2.1] [1] Create design for post game stats
    - [T 2.2.2.2] [1] Build post game stats in react.
- [US 2.3] As a teacher, I want a timer so that I can maintain a consistent pace on the quiz. [2]
  - [T 2.3.0] [.5] Create documentation for timer endpoints
  - [T 2.3.1] [.5] Display timer on host screen (H 3.0 D)
  - [T 2.3.2] [.5] End question after timer runs out (backend)
- [US 2.4] As a student, I want questions to have a timer displayed somewhere so I can answer questions before time runs out [2]
  - [T 2.4.0] [0.5] Create documentation for student timer and question display
  - [T 2.4.1] [0.5] Backend timer communication to clients
  - [T 2.4.2] [1] Display timer on student view (S 2.0 D)

- [US 2.5] As a professor, I want to be able to experience a fully functional question editor [5]
  - [T 2.5.0] [1.5] Create specification for quiz editor pages and display (Q 1.0)
  - [T 2.5.1] [3] Create quiz editor Page
  - [T 2.5.2] [.5] Export as json
- [US 2.6] As a Teacher, I want to export quizzes in a readable format so that students can review quiz questions off the app on their own time. [4]
  - [T 2.6.0] [0.5] Create documentation for quiz HTML export request (simple GET that frontend only has to link to)
  - [T 2.6.1] [0.5] Create design for HTML export button at the end of the quiz, and JSON-to-HTML conversion button at beginning while uploading a quiz (Modify H 1.0 D)
  - [T 2.6.2] [1] Create simple design for how HTML exported quiz will look
  - [T 2.6.3] [2] Generate quiz HTML on server and send to client

#### Team Roles:

- Ben: Frontend/Backend Developer
- Jess: Backend Developer
- Jasmine: Frontend Developer
- Gea: Frontend Developer
- Richelle: Backend/Database Developer
- Cody: Frontend/Backend Developer

#### Initial Task Assignment:

- Jess [4.5]
  - [T 2.0.3] [1] Migrate documentation and Document how data is stored on backend
  - [T 2.1.2] [0.5] Store scores in game data for final leaderboard
  - [T 2.3.0] [0.5] Create documentation for timer endpoints
  - [T 2.6.0] [0.5] Create documentation for request (simple GET that frontend only has to link to)
- Ben
  - [IT 2.0.1] Set up GitHub Actions

- [IT 2.0.2] Create frontend UI component library (including documentation)
- [1.6.4] [0.5] Connection Page Component Routing
- Jasmine
  - [1.6.2.2] Create page for host to display question and answers (H 3.0 D)
- Gea
  - [T 2.1.3.1] [.5] Specify UI design for result display
  - [T 2.1.5.2] [.5] Specify design for leaderboard page
  - [T 2.2.2.1] [1] Create design for post game stats
  - [T 2.5.0] [1.5] Create specification for quiz editor pages and display
- Richelle [4]
  - [T 2.1.1] [0.5] Write functions to generate scores (scoring is already sent, but scores are 0)
  - [T 2.1.5.0] [0.5] Document the format used by the server for the leaderboard info
  - [T 2.1.5.1] [0.5] Send all scores to host (backend task)
  - [T 2.2.0] [0.5] Create documentation for export
  - [T 2.2.1] [0.5] Export scores and correct answers to frontend
  - [T 2.3.2] [0.5] End question after timer runs out (backend)
  - [T 2.4.0] [0.5] Create documentation for timer and display
  - [T 2.4.1] [0.5] Backend timer communication to clients
- Cody
  - [1.x.1] Create Waiting room page (H/S 2.0 D/M)
  - [1.x.2] Create More Tests

## Initial Scrum Board:

Backlog

[T 2.0.1] [0.5] Set up GitHub Actions

[T 2.0.2] [3] Create frontend UI component library (including documentation)

[T 2.0.3] [1] Migrate documentation and Document how data is stored on backend

[1.6.2.1] Create page where players can select an answer (S 3.0 D/M)

[1.6.2.2] Create page for host to display question and answers (H 3.0 D)

[1.6.3] [0.5] Answer reveal page (Host side) (H 4.0 D)

[1.x.1] Create Waiting room page (H/S 2.0 D/M)

[1.x.2] [mvp] Create More Tests

[2.1.0] [0.5] Document how scores will be stored on backend

[T 2.1.1] [0.5] Write functions to generate scores (scoring is already sent, but scores are 0)

+ Add a card

Backlog

[T 2.1.2] [0.5] Store scores in game data for final leaderboard

[T 2.1.3.1] [0.5] Specify UI design for result display (4.0M, 4.1M)

[T 2.1.3.2] [1.5] Create students result page in react

[T 2.1.4] [0.5] Create page for host that displays Correct answer (Design already in H 4.0D)

[T 2.1.5.0] [0.5] Document the format used by the server for the leaderboard info

[T 2.1.5.1] [0.5] Send all scores to host after a question is done (backend task)

[T 2.1.5.2] [0.5] Specify design for leaderboard page (H 5.0 D)

[T 2.1.5.3] [0.5] Create leaderboard page in react

[T 2.2.0] [0.5] Create documentation for quiz export

[T 2.2.1] [0.5] Export scores and correct answers to frontend

+ Add a card

Backlog

[T 2.2.1] [0.5] Export scores and correct answers to frontend

[T 2.2.2.1] [1] Create design for post game stats

[T 2.2.2.2] [1] Build post game stats in react.

[T 2.3.0] [0.5] Create documentation for timer endpoints

[T 2.3.1] [0.5] Display timer on host screen (H 3.0 D)

[T 2.3.2] [0.5] End question after timer runs out (backend)

[T 2.4.0] [0.5] Create documentation for student timer and question display

[T 2.4.1] [0.5] Backend timer communication to clients

[T 2.4.2] [1] Display timer on student view (S 2.0 D)

[T 2.5.0] [1.5] Create specification for quiz editor pages and display (Q 1.0)

+ Add a card

[T 2.5.1] [3] Create quiz editor Page

[T 2.6.0] [0.5] Create documentation for quiz HTML export request (simple GET that frontend only has to link to)

JS

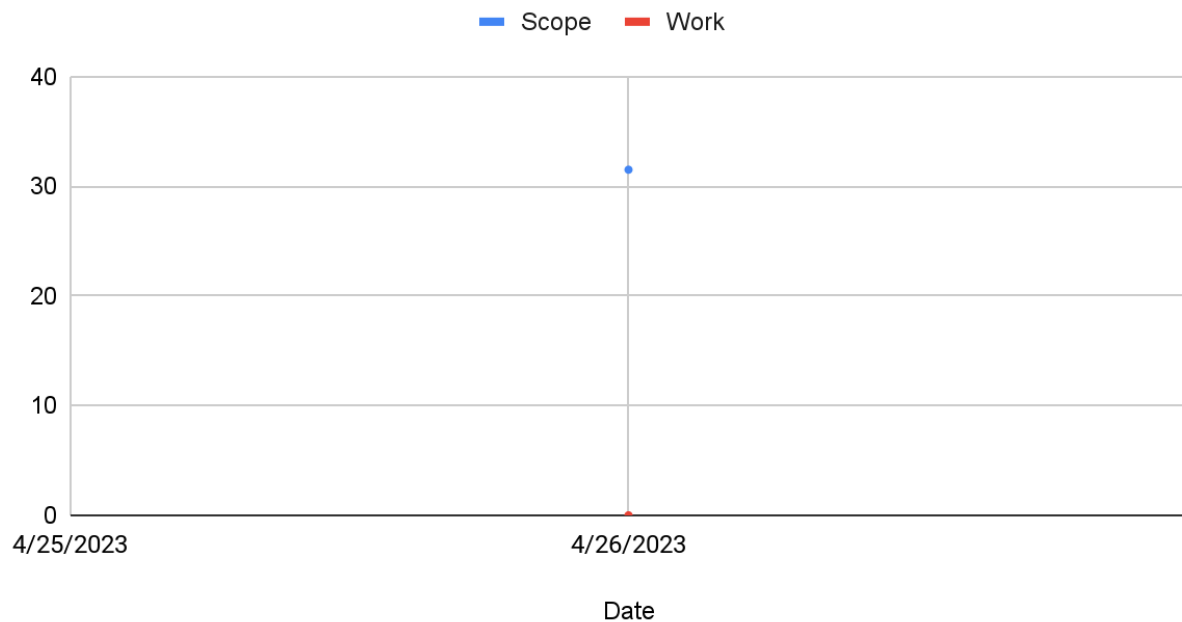
[T 2.6.1] Create design for HTML export button at the end of the quiz, and JSON-to-HTML conversion button at beginning while uploading a quiz (Modify H 1.0 D)

[T 2.6.2] Create simple design for how HTML exported quiz will look

[T 2.6.3] Generate quiz HTML on server and send to client

Burnup chart (from [spreadsheet](#)):

## Burn-Up



Scrum Times:

Monday 5:45 - 6:00

Wednesday 5:45 - 6:00

Friday 5:45 - 6:00

Rejected user stories:

- [US 2.6] As a teacher, I want to be able to add images to the questions so that I can improve the students' understanding of the question. [3]
- [US 2.6] As a student, I want to be able to create an avatar so that I can compete with the rest of the class. [2]
- [US 2.6] As a student, I want to import my quiz questions and answers so that I can use them as study material. [3]