

Planning Toohak



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1. Elicitation

1.1. Questions

- Q1. Are there any features of Toohak that could be improved?
- Q2. What is the easiest/most aesthetic way in which the feature could be implemented?
- Q3. How would the introduction of this new feature help you?
- Q4. What uses do you have for Toohak, beyond the scope we know of?

| User Cases | Q1. Are there any features that could be improved? | Q2. How would you like to see this feature could be implemented? | Q3. How would the introduction of this new feature help you? | Q4. How else would you use Toohak, beyond the scope we know of? |
|---|---|---|---|--|
| Case 1: Tania, tania.jashnany @gmail.com | Incorporating multimedia questions, such as allowing answers to be images/having music in the background. | Being able to put gifs, and even videos as a question, or even an answer. As for music, having suspenseful music between intermissions. | This will help diversify the type of questions to be put up. Images and gifs as answers can be more engaging, making it pop off more on screen. | As a student, I typically use Toohak like Kahoot for educational quizzes for class work. I could see the potential in using it as flashcards or fun group revision. |
| Case 2: Elizabeth, Tutor 1531 | Being able to upload quizzes publicly so that everyone can use it. | Being able to search for a public quiz would be helpful, as well as having an option to create my own private and share my public quizzes I create. | As a tutor, this would help me save time rather than creating my own quizzes, and also being able to share my own quizzes I have created to colleagues for their own classes. | I would use Toohak in the classroom as well as sharing my quizzes to other tutors for work. |

| | | | | |
|--|---|--|---|---|
| Case 3: Arousha, arousha.soltan y@gmail.com | Being able to join in a session, after it has left the lobby state. | Being able to pause the quiz, and to have a code to be able to join a session. | Being great to be able to participate even if I am unable to join at the start, opposed to waiting for a round to finish and start again. | I use it for Trivia nights, and even occasionally for revision and in classrooms. |
|--|---|--|---|---|

2. Analysis and Specification

1. User Story: Tania - Student

As an admin of Toohak, when creating questions for my quiz, I want to be able to incorporate multimedia elements such as images to answers and questions, as well as background music in intermissions, so there is more variety to the quiz and to increase engagement in my users

User Acceptance Criteria:

- Insert an image into the answer when creating a question
- Insert an image into a question when creating a question
- When the question is open, players can see the given images for the answers
- Players can select answers that correspond to the answer
- When the question is open, players can see the image that is supplied with the question
- In intermissions, users can hear music in the background.

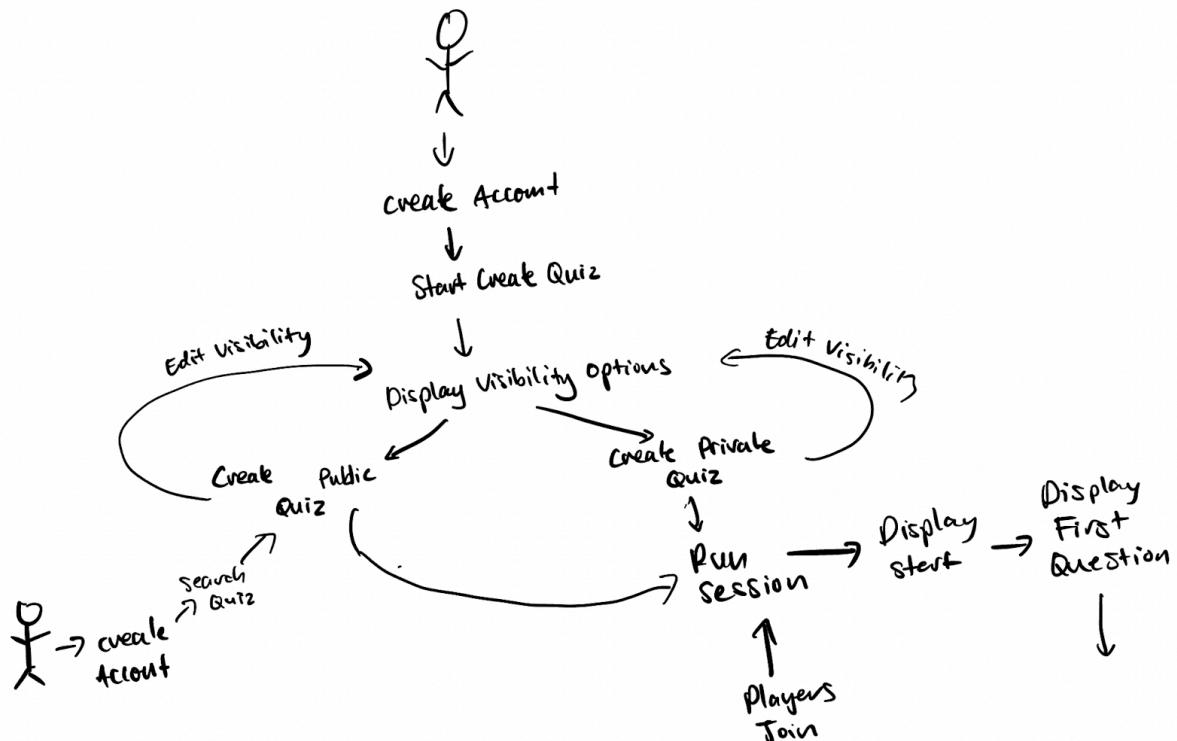
2. User Story: Elizabeth - Tutor

As an admin of Tookah and tutor, when creating my quiz, I want to be able to search for public quizzes, and be able to create private quizzes and share them so that I can efficiently save time, and incorporate it Toohak with my tutor colleagues.

User Acceptance Criteria:

- Create a private quiz when creating a quiz, unsearchable by other users.
- Create a public quiz when creating a quiz, and all users can search and find the quiz.
- Can search for a public quiz and run a session for players.
- Users can access a public quiz at the same time.

Use Case in Diagram:



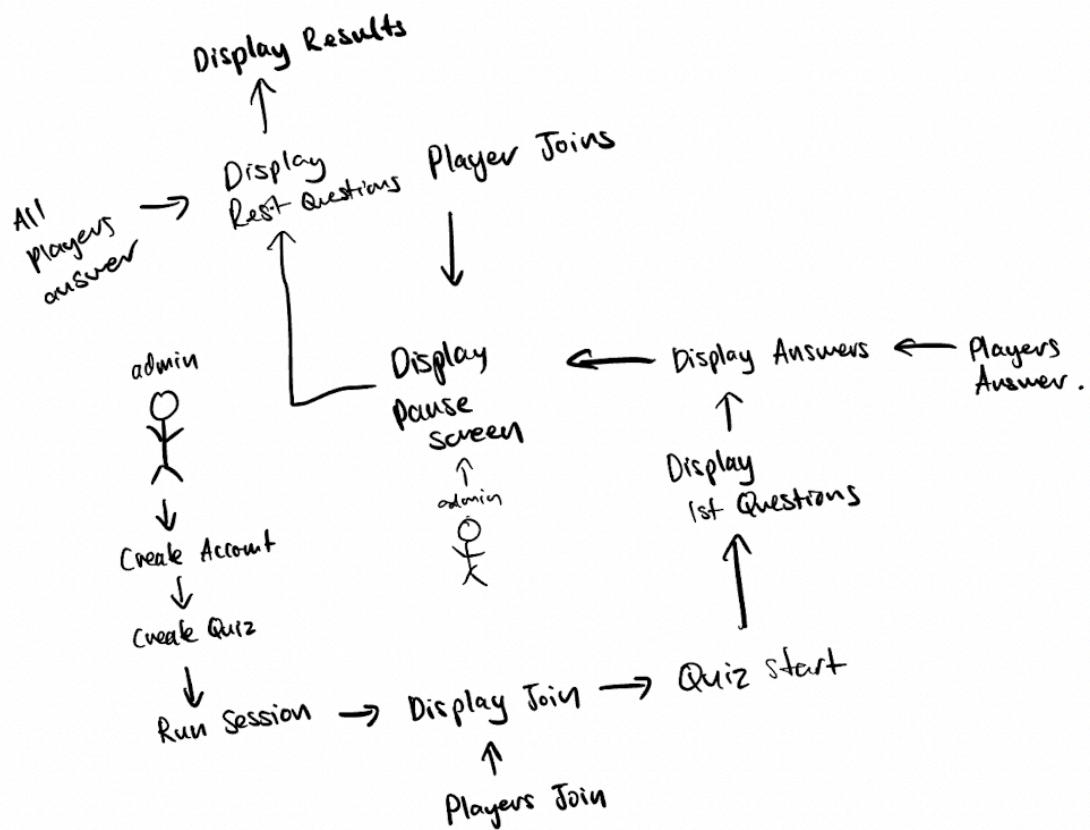
3. User Story: Elizabeth - Arousha

As a user of Toohak, when using the quiz, I want to be able to join the session after the session has started (left lobby), so that I can be able to participate whenever I can without waiting for the next session.

User Acceptance Criteria:

- Users view a pause screen and receive clear instructions on how to join the session, mid session.
- Users successfully join and appear as users.
- Users can view and answer questions from the quiz.
- Users appear on podium if won

Use Case in Diagram:



3. Validation

3.1. Case 1

Comments by Elizabeth

- Comprehensive, use case diagram adequately demonstrates the problem I am trying to solve.

3.2. Case 2

Comments by Arousha

- Comprehensive, use case diagram adequately demonstrates the problem I am trying to solve.
- Like the display of a pause screen.
- Maybe when a new player joins, ensure to maybe redo the question that they interfered on (adding a loop in the diagram to show prev question) or maybe restart timer.

4. Interface Design

| Name & Description | HTTP Method | Data Types | Errors |
|--|-------------|---|---|
| /v1/player/{playerid}/question/{questionposition}/answer Takes all kinds of object into an object | PUT | playerid (path) questionposition(path) Object (body): {} | 400 error = <ul style="list-style-type: none"> • If player ID does not exist • If question position is not valid for the session this player is in • Session is not in QUESTION_OPEN state • If session is not yet up to this question • Answer IDs are not valid for this particular question • There are duplicate answer IDs provided • Less than 1 answer ID was submitted |
| /v3/admin/quiz New quiz that also have private/public quiz | POST | Token (header) Object (body): { "name": String, "description": String } | 400 = <ul style="list-style-type: none"> • Name contains invalid characters. Valid characters are alphanumeric and spaces • Name is either less than 3 characters long or more than 30 characters long |

| | | | |
|--|------|--|---|
| | | | <ul style="list-style-type: none"> • Name is already used by the current logged in user for another quiz • Description is more than 100 characters in length (note: empty strings are OK) <p>401 =</p> <ul style="list-style-type: none"> • token is empty or invalid (does not refer to valid logged in user session) |
| /v2/admin/quiz/{quizId}/session/start Finds the quiz using the quizId and starts a session if quizId that user owns or a public quiz is found | POST | quizId (path) Token (header) Object (body) : { "autoStartNum": number } | <p>400 =</p> <ul style="list-style-type: none"> • autoStartNum is a number greater than 50 • A maximum of 10 sessions that are not in END state currently exist for this quiz • The quiz does not have any questions in it • The quiz is in trash <p>401 = Token is empty or invalid (does not refer to valid logged in user session)</p> <p>403 = Valid token is provided, but user is not an owner of this quiz</p> |

4. User Story: Elizabeth - Tutor

As an admin of Tookah and tutor, when creating my quiz, I want to be able to search for public quizzes, and be able to create private quizzes and share them so that I can efficiently save time, and incorporate it Toohak with my tutor colleagues.

User Acceptance Criteria:

- Create a private quiz when creating a quiz, unsearchable by other users.
- Create a public quiz when creating a quiz, and all users can search and find the quiz.
- Can search for a public quiz and run a session for players.
- Users can access a public quiz at the same time.

Add to swagger.yaml file

5. Conceptual Modelling

State Diagram