

1. Elicitation

Interview Questions

- 1) Are there any accessibility or ease of use problems when using Toohak?
- 2) What are some limitations Toohak is restricted by but its counterpart Kahoot isn't?
- 3) What issues might you face when trying to create a quiz using Toohak?
- 4) What issues might you face when trying to host a quiz using Toohak?

Interviewee Answers and Other Opinions

Johnston Hu - bustling521@gmail.com

1. It's a huge trek having to transfer the quiz each time I want to use a quiz that another guy made.
2. There's a chat function but no filtering or moderation which might be unsafe for younger users.
3. The interface for making the quiz is too tedious. You have to make the quiz, then make the questions, then make the answers to the questions. It's too slow and tiring.
4. Maybe checking if people are actually participating?

Tone Wang - supertone123@gmail.com

1. There's no ranking display after each question so I can't see how I'm doing against other players.
2. I want to be able to search for a quiz or post my own quiz online for others to use. Right now there is only one authorised user per quiz.
3. I don't want to create quizzes because the process is too long.
4. Maybe a music feature? That would elevate the session's entire experience.

Proposed Solution

- 1) We want to address the absence of ranking displays for both the player as well as the top 3 leaderboard.
 - a) Implement a new state after ANSWER_SHOW which allows for rankings to be displayed
 - b) In this state players can view both their own ranking as well as the top 3 rankings.

2. Analysis & Specification - Use Cases

User Story 1: As a student in a class, I want to be able to see my ranking display after each question so that I can see how I'm currently performing relative to the other top players.

- The system displays the ranking after each round of questions.
- The user sees the display in this order:
 - "Rank: " + insert_rank + "insert player name" + insert_current_score
- There is a timer before going onto the next question.

User Story 2: As a player, I want to see the current points of the ranked players so that I can see how far the difference is between them.

- The user can see the scores of the players beside their player name.

User Story 3: As a competitive student who likes to verse my friends, I want to see my ranking as well as the top 3 to see if I'm winning the game.

- The ranking is displayed in correct order, from top to bottom is first place, second place, and third place.
- My ranking is displayed in the line following top three as shown below:
 - Line 1: Rank 1 insert_player_name insert_score
 - Line 2: Rank 2 insert_player_name insert_score
 - Line 3: Rank 3 insert_player_name insert_score
 - Line 4: Rank insert_my rank insert_my_name insert_my_score
- In the case that there are less than three players in the game, my current ranking will be posted below the top rankings line. For example, in a one player game:
 - Line 1: Rank 1 insert_player_name insert_score
- Line 2: Rank insert_my rank insert_my_name insert_my_score

Use Case: A player can view ranking + top 3 ranking

- **Goal in context:** A user can see their own ranking as well as the top 3 ranking displayed.
- **Scope:** UNSW Toohak.
- **Level:** Secondary Task
- **Preconditions:** The user is in an active quiz session that has not ended yet.
- **Success End Condition:** The system displays the ranking of the user and the top 3 players.
- **Failed End Condition:** The system fails to display rankings or displays the ranking incorrectly.
- **Primary Actor:** System
- **Trigger:** Countdown after the system has displayed answers has ended or admin manually skipped countdown.

Main Scenario:

1. Question countdown runs out.
2. UNSW Toohak displays the answer.
3. UNSW Toohak displays ranking.
4. UNSW Toohak goes to the next question.

3. Validation

Comments:

Johnston

Yes ok, it is definitely more user friendly to have a ranking system. I think maybe you could also implement it so that the host can see the entire ranking list (which might benefit teachers).

Tone

The goal seems right, and this feature works in an active quiz session, while the questions are still coming (preconditions). This is a secondary feature, which doesn't affect playing the game (not primary), just a helpful display feature.

Yes, the success condition is right, I want to see the top 3 users and my own ranking. Failing condition is good, I mean if I don't see the ranking or the ranking is wrong, that defeats the whole point of this feature. Yes, the primary actor is the system; I don't do the calculating and keeping track of the scores. The trigger is after automatically after a while as we read the answer, or an admin manually skips.

Looks good!!!

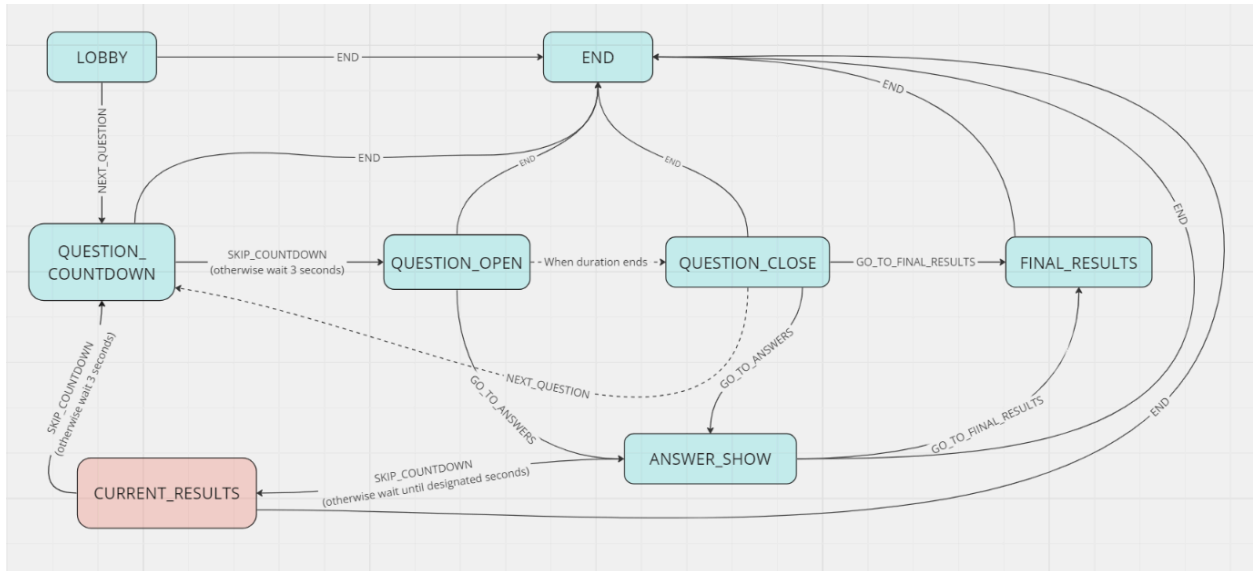
4. Interface Design

GET /v1/player{playerid}/results/current	Get quiz session current rankings
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Take in the quizId and sessionId and find the top 3 players with the highest score, and the user's current score. If there is only one player, the top player is the only player. Return the data for this top 3 ranking and the player's own current ranking.		
Parameters		
<u>Name</u>	<u>Description</u>	
Playerid *required (path)	5546	
Responses		
<u>Code</u>	<u>Description</u>	
200	OK	
	<p>Example Value</p> <pre>{ "topThreeRankedByScore": [{ "rank": 1 "name": "CSgod" "score": 45 }, { "rank": 2 "name": "ForeverNo2" "score": 44 }, { "rank": 3 "name": "Irrelevant" "score": 34 }, { "rank": 6 "name": "Me" "score": 5 }]}</pre>	<p>Model</p> <pre>{ topThreeRankedByScore A list of the top 3 who players ranked in descending order by score, followed by my current rank and score. { rank number example: 1 The rank of the current top 3 player, and my rank. name string example: CSgod The name of the player with the respective rank. score number Example: 45 The current score for the user. } }</pre>
400	<p>If any of the following are true:</p> <ul style="list-style-type: none">• If player ID does not exist• Session is not in CURRENT_RESULTS state	
	<p>Example Value</p> <pre>{ "error": "error"}</pre>	<p>Model</p> <pre>{ error string Enum: Array[1] = [error]}</pre>

5. Conceptual Modelling

State Diagram



MIRO LINK FOR STATE DIAGRAM ABOVE:

https://miro.com/welcomeonboard/czl6cGJtN3IXdHpEY0R2TWhTWnhpM1IBUHdzNENxQk5WQzdkZjQ4bmR6SIJLaEQ3NzZweEVHSGITb0VmanozN3wzNDU4NzY0NTgzODI4ODM0OTI5fDI=?share_link_id=334016388923