COMP1531 - Planning Document - W12D - Boost

<u>Members:</u> Tianshou Xu, Jason Dam, Rishabh Alajpur, Kyushu Nayyar and Zhonghao Li

[Requirements] Elicitation:

Target Users:

User 1	Name: Emily Sun	Email: 923378241@qq.com
User 2	Name: Raymond Guo	Email: raymond.guo22@gmail.com

<u>Question 1:</u> Could you please describe a specific challenge or frustration you encountered while using quiz tools?

Emily Sun	Existing quizzes are listed in chronological order of creating time, and there are no functions for searching/sorting, therefore it's hard to find a specific quiz if there are a lot of quizzes.
Raymond Guo	If multiple quizzes were added, it was hard to find a specific quiz and they aren't organised in topics.

<u>Question 2:</u> How frequently do you interact with quiz tools, and which particular activities do you typically engage in when using them? (For instance, do you create quizzes, take quizzes, or manage the results of quizzes?)

Emily Sun	Quizzes are a great form of studying and I take quizzes online from time to time to check where I lack in knowledge.
Raymond Guo	I don't really use quiz tools as I rather just learn content by summarising and memorising but if I were to use it, I would just find a quiz to take.

<u>Question 3:</u> What types of data analysis and reporting functionalities are essential for you in a quiz tool?

Emily Sun	I would like the results returned from the quiz tools to be more detailed, for example by including an analysis of the correct answers, which would enable players/students to deepen their understanding.
Raymond Guo	I believe that there should be a detailed explanation of the quiz results, as it only shows the answer without an explanation. I like that it shows that we are on a streak and our ranking as we are able to see how well we are doing compared to others.

Question 4: What improvements would you suggest for the question creation process in Toohak or similar tools?

Emily Sun	I found the question creation does not support media, which is challenged for making questions more engaging and informative. And also, quiz creators cannot upload questions to the quiz using sheets or other files, this will be challenged for quiz creators for large-scale assessment.
Raymond Guo	I found the quiz question creating tools have a restricted range of question types, and this limited question types making it difficult to create diverse and engaging quiz questions.

[Requirements] Analysis & Specification - Use Cases

User Stories:

1. As a user, I want to have a search field to type quiz name/description/quizid, so that I can find a matching quiz.

- The search field is placed on the top bar
- Search starts once the user clicks "Search"
- The field contains a placeholder with a grey-coloured text: "Search…"
- The placeholder disappears once the user starts typing
- Search is performed if the user types in a name/description/quizid, or all combined.
- Search interface will perform "No Found" if your type has no matched quiz.
- The user cannot type more than 80 symbols or empty string

2. As a user, I want to have a button for adding media, so that I can make questions more informative.
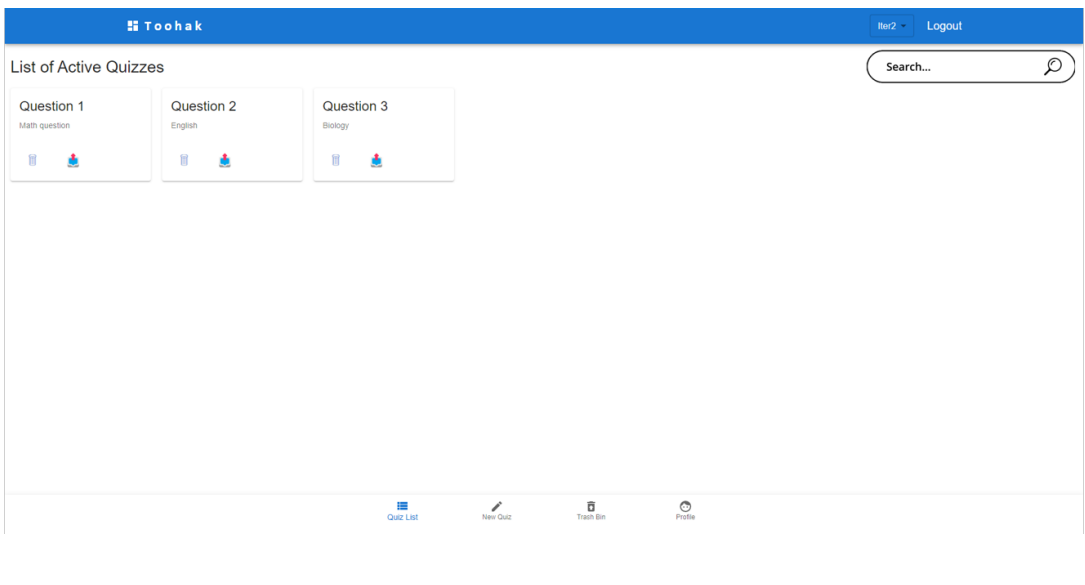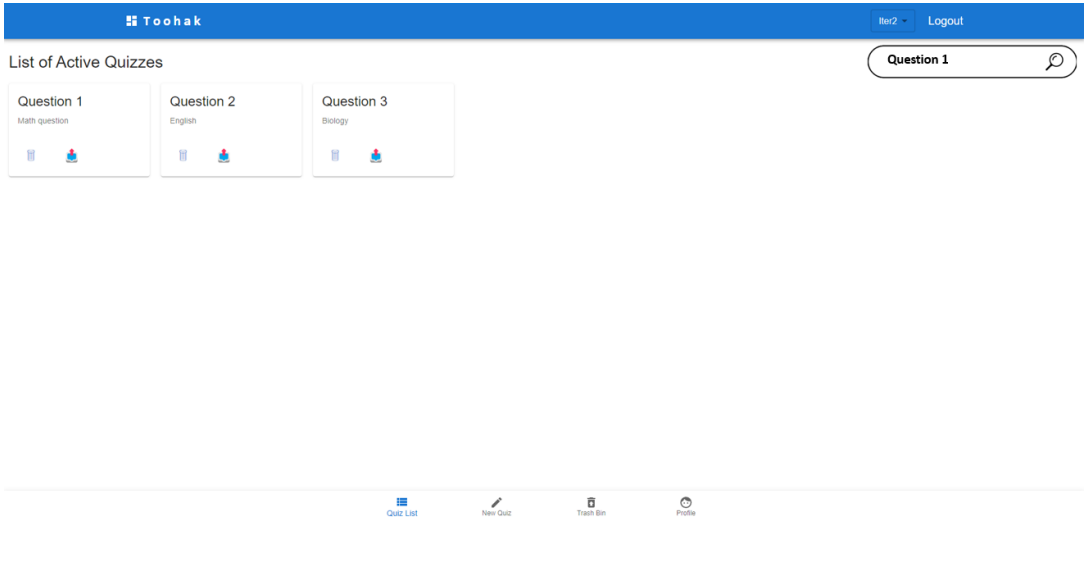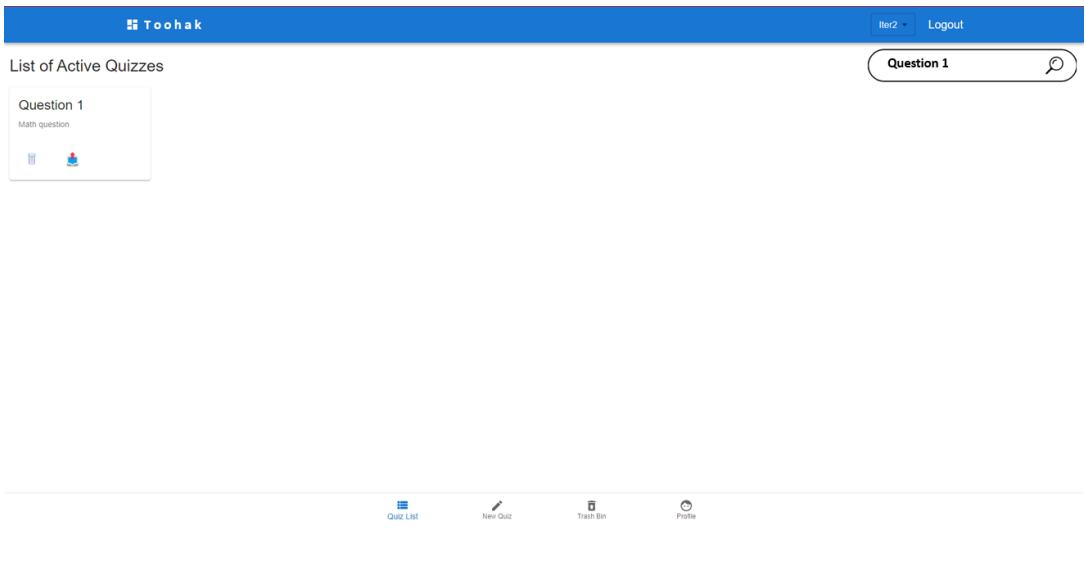
- The adding media button is placed in the question creation interface
- Adding media starts once the user click "Adding media"
- Users can choose to upload from providing a link in the new interface that appears, the save button is placed on the bottom bar
- Upload starts once the user clicks "Save"
- The new interface disappears once user starts upload
- Media successfully uploaded will have a url in question creation interface. Failed uploading will return error message: "uploading failed" on the left bottom
- The user cannot upload media size more than 10MB

3. As a user, I want to have a detailed analysis of the quiz session result for each question, so that I can understand the question deeply.

- The "View Details" button

- Question analysis starts once the user clicks " View Details", it will show a detailed explanation on why it was the answer.
- Question analysis will collapse again once user clicks somewhere outside question analysis block

Use Cases

User register and create as many quizzes as they want.	
User searches for "Question 1" by typing into the search bar.	
Looking at the list of active quizzes, we are given the specific "Question 1" only.	

[Requirements] Validation

Comments:

Emily Sun	Great! I like how I can now search for the quiz I want without having to squint and look for my quizzes individually.
Raymond Guo	This is an excellent addition to Toohak and will allow me to efficiently look through all my quizzes.

[Design] Interface Design

Routes to edit	To do
• /v3/admin/quiz/:quizid/question • /v2/admin/quiz/:quizid/session/:sessionid/results • /v2/player/playerid/question/:questionposition/	Update question object to include a "url" property and set it to the default value empty string. Update questionResult object to include a "detail" property to include a string about the analysis of that question.

Routes to add	To do

• /v2/admin/quiz/:quizId/search(GET)
• Body parameter: {
    name/description/quizId
    (at least one or combined)
}
• Token is passed in as header
• Return {} is no error
• Return 400 if no found
• Return 400 if entered too long or empty string
• Return 401 if token is invalid structure
• Return 403 if token is valid but currently logged out
	Update question object to include a "url" property and set it to the default value empty string.
	
	Update questionResult object to include a "detail" property to include a string about the analysis of that question.

[Design] Conceptual Modelling - State Diagrams

Registering a user

User clicks the new quiz option

User creates a new quiz

User clicks on quiz list option

Error message is displayed

All available quizzes are displayed

User types in an empty string or string containing more than 80 characters

Initial state - Search Field placeholder is [Search...] to prompt user input

User types in the correct information which identifies a quiz

User types in incorrect information (ie wrong name, description or ID)

Search Field is triggered - allowing user to enter string

User is redirected to the desired quiz