

COMP1531 TOOHAH Planning

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Introduction: -

The document below summarizes the planning and procedure followed for the creation of project 'TOOHAK' by the W17-A Budgie group. This document will help develop an understanding of user problems, elicit requirements and include set of special features requested by our small sample set of users.

Elicitation:

Target users are people who currently use a tool like Kahoot or intend to and are not current or former 1531 students.

Develop a series of questions (at least 4) to ask these target users to understand what problems (not solutions) they might have with quiz tools like Kahoot. Give these questions to your target users and record their answers.

The below users were asked a set of simple questions regarding usage of similar software before, frequency of usage, problems faced while using such features, features they would like to see in such a software and how would the implementation of such a software ideally look like.

1. Eddy Wang: z5693417@ad.unsw.edu.au

- Yes, I have used Kahoot before, but don't use it too often. Once a month.
- The quiz lags while using them. Also, the question only displays on the main screen, so having poor eyesight is really a problem.

- Add a “I need more time button” for a few questions, to let the quiz takers know that majority students require more time. Should not be for all the question, only the hard ones, or only for a certain number of questions.
- If there is a translation feature, that might be cool. For languages like mandarin, because many students don’t understand English properly. If the owner can translate into another language, give an option for making a separate quiz language option, else have auto translation being used, google translate.

2. Sreeram Rajesh: z5612107@ad.unsw.edu.au

- I have used Kahoot and quizzes. I don’t use it now but used it extensively a few years ago.
- Sometimes the question lags, the question is not the correct one, the option are still regarding the previous question. Sometimes the font is small, for math equation related questions, and I must zoom in.
- Readout for blind people, and describe the image for them, or the make the question maker to put in separate question whenever there are images.
- Also, the feature of power-ups in Kahoot, getting double rewards, time freeze, 50-50, is cool, which makes it more game like, which goes to show how different quiz apps, can be from a normal questionnaire.

3. Dupthob Wangdi: z5633193@ad.unsw.edu.au

- I have used quizzes and Kahoot. Mainly used during last term.
- Sometimes it’s hard to know if an answer is legitimate. The answer might not be legitimate.
- Having feedback after the quiz, how well you did, and give resources to improve.
- So having a summary, about which type of question you got wrong, what you did well. Average time taken, and other stats, which could/could not be useful. The resources should be below the question, for each question, based on which question you got wrong.
- There should be an AI chatbot, which could help us me understand the question I got wrong and explain each answer in detail.

User Stories with User Acceptance Criteria:

1. Eddy Wang

User Story 1:

- As a student, I want the quiz app to add an “I need more time” button to the questions so that the author will know if the majority of students require more time to answer the questions.

User Acceptance Criteria:

- The “I need more time” button is on the top right corner of the students’ screen
- Every user can press the button once for each question
- The main page of the quiz will show the number of times the button is pressed for each question
- The quiz app will suggest the author to change the time limit if the button is pressed too many times.

User Story 2:

- As a student, I want to have a translation feature in the quiz app to translate the questions and answers into different languages so that students who are not good at English can still do the quizzes.

User Acceptance Criteria:

- There is a button that says “Translate into another language” shown before students take quizzes
- Quizzes can be translated into 10 different languages
- Quizzes will not lag after using the translation feature
- Translation of the questions and answers is accurate

2. Sreeram Rajesh:

User Story:

- As a student, I want the quiz app to create a readout feature to describe the images and questions in the quizzes so that blind people can do the quizzes.

User Acceptance Criteria:

- The readout feature can allow people to answer questions correctly without looking at the images or questions.

- The quiz app allows users to choose if they want to use the readout feature before taking any quizzes
- The readout feature can accurately describe an image using 3 sentences or less

3. Dupthob Wangdi:

User Story:

- As a student, I want the quiz app to provide a summary of the questions I got wrong, and the number of attempts for each response so that I can redo the questions later to check if my understanding of the question has improved.

User Acceptance Criteria:

- Below each question, there is information about the number of attempts and if the answer is correct or not.
- The summary includes all the questions the user got wrong for the quiz
- Users can find the summary on the quiz's main page
- Summaries will be updated after the user redoes the questions and gets them correct.

User Cases

Case 1:

Use case	Require "I need more time" button when answering a question
Goal in context	When a user requires more time to answer a question, the user can use the "I need more time" button to notify the author. The author of the quiz can see the number of users who require more time for that question to determine if it is necessary to change the time limit.
Scope	This feature would be a new function: adminQuestionMoreTime
Preconditions	A quiz with several questions has already been created successfully
Success End Condition	<ol style="list-style-type: none"> 1. The user starts taking a quiz 2. The quiz displays a question and asks the user to enter the response 3. The countdown clock shows 60 seconds remaining 4. After 50 seconds, the user cannot figure out the answer 5. The user clicks the "I need more time" button on the screen

	<ol style="list-style-type: none"> 6. The quiz main page shows that the number of “I need more time” button used increases by 1. 7. The user enters a wrong response for the question 8. Quiz app suggests the author to change the time limit to 1 minute and 30 seconds 9. The author changes the time limit from 1 minute to 1 minute and 30 seconds
Primary Actor	User and author

Case 2:

Use case	Require readout function to describe images and questions
Goal in context	When a blind person tries to do a quiz, the quiz app will allow the person to choose the readout feature to describe the questions and images.
Scope	This feature would be a new function: adminQuizReadout
Preconditions	A quiz with several questions has already been created successfully
Success End Condition	<ol style="list-style-type: none"> 1. The blind person turns on the readout feature. 2. The blind person starts taking a quiz 3. The quiz application reads the question and describes the image briefly in 3 sentences 4. The quiz app asks the blind person to enter a response 5. The blind person enters a response to the question 6. The blind person finishes the quiz by repeating steps 3 to 5.
Primary Actor	Blind person

Case 3:

Use case	Provide a summary of the questions the user got wrong
Goal in context	After a user takes a quiz, there is a summary of the questions that the user got wrong allowing the user to retake the quiz later and check if there are any improvements
Scope	This feature would be a new function: adminQuizSummary
Preconditions	A quiz with several questions has already been created successfully
Success End Condition	<ol style="list-style-type: none"> 1. The user takes a quiz 2. The user has a few wrong responses 3. The quiz app shows a summary of the questions the user got wrong for the quiz 4. The user studies hard for the questions that got wrong

	5. The user retakes the quiz 6. The user enters the correct responses for all questions 7. The quiz app shows a summary that tells the user that all responses are correct
Primary Actor	User

Validation (Comments):

1. Eddy Wang
 - The first user case correctly describes the feature I want to have for a quiz application. It will let the authors know that students need more time to answer the questions.
2. Sreeram Rajesh
 - The second user case looks great at describing the feature I want to have for the quiz app.
3. Dupthob Wangdi
 - The last user case is good at describing the feature I want in the quiz app.