Test Plan and Report
!Toohak
Toohakers
12 March 2024

User Stories:

A. User Story 1
   a. User Story 1.1: As a user, I want to be able to join a dedicated quiz so that I can participate in the activity
   b. User Story 1.2: As a quiz participant, I want to be able to receive questions

B. User Story 2
   a. User Story 2.1: As a user, I want an easy UI to join a room and know that I'm in the waiting room
   b. User Story 2.2: As a host, I want to be able to create a room and start a quiz
   c. User Story 2.3: As a user, I want a simple UI to know when I am waiting for others to finish answering questions
   d. User Story 2.4: As a user, I want a simple UI to know when I am waiting to receive the next question

C. User Story 3
   a. User Story 3.1: As a quiz participant, I want to be able to answer questions
   b. User Story 3.2: As a quiz participant, I want to be able to see the solution to the previous question
   c. User Story 3.3: As a quiz participant, I want to be able to see the results at the end of the quiz.
   d. User Story 3.4: As a quiz host, I want to make sure all quiz participants receive questions at the same time

D. User Story 4
   a. User Story 4.1: As a teacher, I want to be able to build my own quiz so that I can test my students on class concepts
   b. User Story 4.2: As a teacher, I want to be able to test students using different question types (MC, T/F, etc.)
   c. User Story 4.3: As a user, I want to be able to set my own nickname in the room

System Test Scenarios:
❖ Scenario 1: Creating and Loading a Quiz
   1. Navigate to !Toohak URL
   2. User should see a button that says "Create Room" and "Build Quiz"
   3. User clicks "Create Room" button
   4. User should see a dropdown menu of the quizzes in the database
   5. User chooses a quiz from the dropdown menu
   6. User clicks "Start Quiz" button

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- ❖ Scenario 2: Ensuring synchronization between users
    1. Navigate to !Toohak URL
    2. User starts quiz
    3. User should see a URL for the players
    4. User opens URL in multiple windows
    5. User clicks "Start Quiz" button
    6. User should see the other windows with a synchronized timer
- ❖ Scenario 3: Viewing live feedback on if a response was correct
    1. Navigate to !Toohak URL
    2. User starts quiz
    3. User should see a URL for the players
    4. User opens URL in multiple windows
    5. User clicks "Start Quiz" button
    6. User should see other windows with identical question
    7. User clicks on different answer for each question
    8. User should see "Correct" or "Incorrect" on other windows
- ❖ Scenario 4: Viewing a leaderboard with the highest scores
    1. Navigate to !Toohak URL
    2. User starts quiz
    3. User should see a URL for the players
    4. User clicks "Start Quiz" button
    5. User should see other windows with quiz running
    6. User answers all questions on other windows
    7. User should see a leaderboard with the highest scoring windows as players
- ❖ Scenario 5: Building a Custom Quiz
    1. Navigate to !Toohak URL
    2. User should see a button that says "Create Room" and "Build Quiz"
    3. User clicks "Build Quiz" button
    4. User should see an interface to enter a quiz name, custom question, and the answers
    5. User should see a plus sign that creates additional question interfaces
    6. User clicks "Publish Quiz" button
    7. User checks the MongoDB database for the new quiz