**Test Skeleton**

**Test Skeleton for Unit Test**

**Game:**

* Once the user has answered the question in the game:
* If the answer is correct user gains points and move onto the next question.
* If the answer is incorrect user starts from the beginning.
* ActionListener is called only when user clicks the button in the game.

**Database:**

* Get methods
* Existing User : Return true if username and password are found, else return false and redirect them to the registration page.
* Scores.
* Individual User: shows users most recent scores, highest score and their average score.
* Add methods
* New User
  + - 1. Students User
      2. Under Age student User
      3. Parent User

Store the users username, password, email and phone number

* + - 1. Guest User

Give them a one-time subscription without storing their personal information.

* Scores

1. Regular User:

* Compare new score to the last score and replace the last score.
* Compare new high score to the old high score and if the new score is higher than the old score, replace the old score with the new high score else keep the same high score.
* Add all the scores collected so far and divide by the total number of games.

1. All Combination User:

* Compares the score of all the user and if new highest score is greater than the old high score, replace it with high score else keep the same high score. It will also give what position the user is in comparison to the total user.

**Test Skeleton for Integration Test**

* Check if the new user created is stored in the database or not.
* Check if the username and password entered match correctly in the database and if they enter it incorrectly then redirect them to the login page displaying enter the correct username and password.
* User can login through their Facebook account and post their progress report through their Snapchat account and when they choose to do this, it takes the user to desired URL.
* When user selects different titles on the website (Home button, Game, Overall report) it should lead them to the correct URL even if the user is already in that title.

**Test Skeleton for Game**

* Test the game to run smoothly and runs when the user starts the game and stops when the user makes mistakes.
* Test to see if user can replay the game without coming to the main webpage.
* Test to see if the scores is sent and stored correctly to the database for the correct user

**End to End System Test**

* Download it to the device that user is using
* Open the website
* Register and create if the user is new and enter personal information
* Guest user can use the guest login using one time subscription
* Login with the correct username and password and if it doesn’t exit it will redirect user to login page
* User can login through Facebook as well
* Process the payment subscription and redirect the user to the main home page
* Select the game title and play the game
* User gets their score along with their position overall
* User can share their scores through the Snapchat

**Updates**

* **Main User level:**

If updates are made then we make sure that:

* the website is still displayed correctly.
* the login and registration page works correctly and it stores the information correctly in the database.
* game works as it should and displays the score correctly

If change is made to the database then we make sure that it is connected correctly with the website so that correct information is given when called.