**Test Skeleton**

**Test Skeleton for Unit Test**

**Database:**

* Test via associated plugins
* Create separate copy of database to test if needed
* To verify content in database: go to phpMyAdmin -> *databaseid\_wp* -> wp\_users and wp\_usermeta (if using WPForms pluggin, access wp\_wpforms\_entries and wp\_wpforms\_entry\_meta)
* Click Register (creating a new user):
* Enter valid input for each registration field for a new user
  + Check to see if user is created in the database
* Enter invalid input for a registration field (ex: “asbs” for date of birth)
  + Check to see if error is reported and no user entry is created
* Enter input for an existing user
  + Check to see if error is reported and no user entry is created
* Click update information for users
  + Check if current information is queried and pulled up
  + Change field with valid/invalid input and check to see if applied or not
* Scores
  + Finish playing game and submit score for associated user account
    - Check to see if score is listed in database
    - Check to see if multiple scores are recorded
  + Click Retrieve scores
    - Outputs list of scores associated with the user
    - Outputs list of scores for all users in proper format (for MVA employees)

**Test Skeleton for Integration Test**

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| --- | --- |
| Test Done | Expected |
| Username is matched correctly in the database | Username is sent to the database which returns the correct user information and score of the user |
| User can login and share their progress through their Facebook account | It takes them to their desired URL by taking information from their Facebook account and can automatically share their progress by hitting post button |
| User selects different titles on the website | When selected the titles like Game, Payment, Home, Scores it takes to the correct URL |
| Click Payment | When the payment title is clicked it sends the users card information to the payment processor which then sends confirmation email to the user |
| Select Game title | When selected game title, game page comes up without any problem |
| Click start game and stop game | When start game was clicked, the game started as expected and when stop game was clicked, the game stopped as expected |
| Click Score Board | When score board is clicked, score of the user is shown along with their position compared to the overall user by taking information from the database |

**Test Skeleton for Game**

* Test 1: Click the game button

Upon clicking start, the game started as expected

Upon clicking stop, the score for the game is stored in the database and the game is stopped

Upon making a mistake by the user, the game is stopped and the score is stored in the database

* Test 2: Click the replay button

Upon clicking the replay button, the game resumes as expected without coming to main webpage

* Test 3: Check to see if the score sent was stored correctly for the correct user

Upon sending the username the correct account information and score was returned

**End to End System Test**

|  |  |
| --- | --- |
| Test Done | Result |
| Open the website | Display the homepage with the registration and login page |
| Register and create account for the new user entering the email, phone number | The user gets confirmation email indicating that they are registered |
| Create one time login for the guest user entering the card information | The guest user gets confirmation email with one time login account and password |
| User login with the correct username and password | It directs to the main homepage with welcome sign and games |
| User login with incorrect information | It redirects the user to the registration page when the username and password doesn’t match the database |
| User login through Facebook | It ask them to verify their Facebook account and then directs them to the homepage by taking information from the Facebook account |
| Select the payment | It asks for the card information and after that only user can access the game |
| Select the game | It takes them to the game page where they can play the game and answer the question asked |
| Select the score board | It shows the overall progress report of the user and also the position that they are in overall |
| Select the share your score with Facebook | It redirects to the Facebook page where all the scores are automatically there and all the user needs to do is post |

**Regression Test Procedure**

If updates are made then we make sure that:

* 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.