**Testing**

**Comprehensive Test Plan**

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| --- | --- | --- | --- |
| Functionality to test | Time taken to test this | Tester | Issues |
| Basic playing the quiz | Unit testing as programmed | Me | No |
| Refreshing leader board | Unit testing as programmed | Me | Reading database wouldn’t work so bubble sort had nothing to sort |
| Logging into an account | Unit testing as programmed | Me | Reading database wouldn’t work so had nothing to verify the login |
| Registering an account | Unit testing as programmed | Me | Syntax error with insert query stated in ongoing log |
| Saving account details | Unit testing as programmed | Me | Syntax error with insert query stated in ongoing log |

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| --- | --- | --- | --- |
| Test case | Time taken to test this | Tester | Issues |
| Reading quiz data into method | Unit testing as programmed | Me | Library not downloaded stated in ongoing log |
| Button to refresh leader board | Unit testing as programmed | Me | Library not downloaded stated in ongoing log |
| Level methods | Unit testing as programmed | Me | no |
| Inserting quiz data into database | Unit testing as programmed | Me | Syntax error with insert query stated in ongoing log |

Requirements Testing

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| --- | --- | --- | --- | --- |
| Test Case | User input | Output | Expected Output | Additional Commentary |
| Check if the user can play the game without logging in | Clicking the start quiz button yh | yh |  |  |
| Check user input for account login is validated | The username “sahil123” and the password “sahil123”  PICTURE OF BOTH yh  The username “sahil123” and the password “WRONG”  The username “wrong” and the password “sahil123” |  |  |  |
| Check user input for account register is validated | The username “sahil123” and the password “sahil123”  PICTURE OF BOTH yh  The username “sahil123” and the password “WRONG”  The username “wrong” and the password “sahil123” |  |  |  |
| Questions are validated correctly |  |  |  |  |
| Check registration info is written to database upon registration |  |  |  |  |
| User tries to sign out and save an account without being logged in |  |  |  |  |
| Check a user’s username is the same as when they registered |  |  |  |  |
| Check a user with the highest level gets the position on the leader board |  |  |  |  |
| Check a user can’t make an account when there’s already 10 users |  |  |  |  |
| Check a user gets recognised for tying with the highest scorer |  |  |  |  |
| Not answering correctly |  |  |  |  |
| Check a user can continue from the last level they completed plus 1 |  |  |  |  |
| See what the program does when 2 highest scorers with the same name tie |  |  |  |  |

**Persona test**

Persona- Michael is a 22-year-old university student who has an interest in fun little games like quizzes and puzzles he forgot about my quiz and hasn’t played it in a year! He didn’t ever complete it fully but remembers his username and password.

He remembers his username and password as the following:

Username-Michael1

Password-COOLquiz

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case | User Input | Output | Expected Output | Additional Commentary |
| Michael continuing from after completing 1 level |  |  |  |  |
| Michael saves his account after continuing |  |  |  |  |
| Michael forgets to login and clicks sign out |  |  |  |  |
| Michael gets to level 3 and wants to see himself on the leader board |  |  |  |  |
| Michael starts from the start when logging in |  |  |  |  |