

## Gym Buddy

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### Design and Testing Plans:

#### The Functionality list:

- Create list of gym exercises
- Store them in a database to be retrieved whenever needed
- Function to calculate the users BMI
- Group exercises together for the day gym is visited
- User can generate their own bespoke exercise and store it within the database
- User can add specific weight to their gym exercise
- User can add number of reps and sets to the routine
- Default reps and sets available, but can be changed to user specification
- Graph generation of users own details
- Add further exercises into each day specified
- Delete any exercises that need removed from the routine.

#### Use Case Comparisons:

Still to do:\*\*\*\*\*

#### White Box Unit Testing

| Action Performed                    | Expected Results  | Actual Results   | Any Errors? Yes/No | Changes required to solve errors                                    | Remarks   | Was it Rectified? Yes/No |
|-------------------------------------|---|--|--------------------|---|---|--------------------------|
| Click on the application icon       | Application opens to splash screen for 3 seconds then loads the menu screen | Application opened to the splash screen, after 3 seconds it loaded the menu screen | No                 | n/a   | n/a   | n/a                      |
| Click the workout button            | Loads up previously entered gym exercises                                   | List of gym exercises appear on the page in a table view                           | No                 | n/a   | n/a   | n/a                      |
| Click on the dropdown menu          | The menu drops down for selection   | The menu dropped down  | No                 | n/a   | n/a   | n/a                      |
| Select a day from the dropdown menu | The day selected will result in the table showing information               | All data on the table was shown  | Yes                | The link between each day in the dropdown needs to be linked to the | All data can be seen. Need to add this function | No                       |

|   |   |   |     |   |  |     |
|---|---|---|-----|---|--|-----|
|   | for that day only   |   |     | specific day from the database.   | at a later date.                           |     |
| Hold finger on the screen and move up and down          | Enables scroll view of the gym exercises  | Page moves up and down, allowing all exercises to be viewed                   | no  | n/a   | n/a  | n/a |
| Press the delete button on a row                        | Deletes the exercise  | The exercise got deleted  | No  | n/a   | n/a  | n/a |
| Press back arrow  | Loads up the Menu screen  | Menu screen loaded  | No  | n/a   | n/a  | n/a |
| Press the Add or Update my Workout button               | Edit workout page loads   | Edit workout page loaded  | No  | n/a   | n/a  | n/a |
| Press the dropdown menu for Day                         | All days of the week dropdown   | All days of the week appeared in the dropdown menu                            | No  | n/a   | n/a  | n/a |
| Press a Day in the dropdown menu for Days               | The day will be selected  | Day pressed appeared as a result in dropdown closing                          | No  | n/a   | n/a  | n/a |
| Press the exercise text                                 | Keyboard should appear  | The keyboard appeared   | No  | n/a   | n/a  | n/a |
| Enter an exercise                                       | The text entered should appear in the text box  | Text did appear in the textbox  | No  | n/a   | n/a  | n/a |
| Enter an exercise that has a large number of characters | The table layout will fill the first line and take a new line to continue the rest on another | The long list of characters pushed the layout of the table out of proportion. | Yes | Add a restriction to the number of characters, or an alternate solution | This will need to be fixed if time permits | No  |
| Press the number in the Reps option                     | The number pad should appear  | The number pad appeared   | No  | n/a   | n/a  | n/a |
| Enter a different number in the Reps option             | Number should change to the number selected   | Number typed is now entered   | No  | n/a   | n/a  | n/a |

|                                    |   |   |    |     |     |     |
|------------------------------------|---|---|----|-----|-----|-----|
| Press the weight option            | The number pad drops down below   | The number pad appeared   | No | n/a | n/a | n/a |
| Enter a number into the number pad | The number entered should appear in the weight selection box  | The number entered appeared in the weight section                       | No | n/a | n/a | n/a |
| Press the add button               | The data entered above should be added to the list, and a toast message should indicate the data was added. | The data was added to the list, and the toast message appeared          | No | n/a | n/a | n/a |
| Press the view routine button      | The table of entered exercises should be displayed  | The list of data entered was displayed in a table view                  | No | n/a | n/a | n/a |
| Press the calculate BMI button     | The page to calculate BMI should appear   | The BMI page was loaded   | No | n/a | n/a | n/a |
| Press the enter weight line        | The number pad should appear below  | The number pad appeared below   | No | n/a | n/a | n/a |
| Enter a weight into the number pad | The number should appear in the weight line   | The number appeared in the weight line                                  | No | n/a | n/a | n/a |
| Press the enter height line        | The number pad should appear below  | The number pad appeared below   | No | n/a | n/a | n/a |
| Enter a weight into the number pad | The number should appear in the height line   | The number appeared in the height line                                  | No | n/a | n/a | n/a |
| Press the calculate BMI button     | The BMI calculations should be calculated and the   | The BMI result showed below the screen in decimal form. Also, the toast | no | n/a | n/a | n/a |

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|  | results appear on the screen. Also, the toast message should show to indicate what category your BMI results are sitting at. | message no showed what no category my no BMI was sitting in. |  |  |  |  |
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