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| **Test No** | **Test Name** | **Target Java file or Screen** | **Explanation of test** | **Test Data** | **Expected Output** | **Actual Output** | **Pass/ Fail** | **Required Action** |
| 1 | Register | RegisterScreen | Register as new user and validate process | Username: user1  Password: password  Email: yahoo@yahoo.co.uk | User taken to login screen. Details successfully inserted in web database. | As per Expected outcome | Pass | None |
| 1a | Register with username already used | RegisterScreen | Register as user1 again | Username: user1  Password: password  Email: gamil@gmail.co.uk | Register action not allowed and correct warning displayed to user. | As per expected outcome. | Pass | None |
| 1c | Register with email already used. | RegisterScreen | Register as user2 but using user1’s email. | Username: user2  Password: password  Email: yahoo@yahoo.co.uk | Register action not allowed and correct warning displayed to user. | As per expected outcome. | Pass | None |
| 2a | Login | Login.java | Login as the user created in test 1. Validate that user can login in. | Username: user1  Password: password | User taken to AfterLoginScreen.  UserID retrieved from database and inserted in shared\_preferences. | As per Expected outcome. | Pass | None |
| 2b | Login wrong password | Login.java | Login as user1 with incorrect password | Username: user1  Password: password1 | Login not allowed and correct warning displayed | As per Expected outcome | Pass | None. |
| 2c | Login wrong username | Login.java | Login as user3 with password: password |  |  |  |  |  |
| 2d | Forgot login details | forgotDetailsScreen | User enters email address and gets username and new password sent to them | Email: sean.mcateer6@mail.dcu.ie | Username and new password sent to email address. New password inserted in MySql database in correct row. | As per expected outcome. | Pass | none |
| 2e | Login using emailed password | Login.java | User logs in using the password emailed to them via the, ‘forgot login details’ screen. | Username: user1  Password: xxxxxxx  Email: yahoo@yahoo.co.uk | User taken to AfterLoginScreen.  UserID retrieved from database and inserted in shared\_preferences. | As per expected outcome. | Pass | none |
| 3a | User1 has clean start | ListOfRounds | After logging in with user1 go to list of rounds screen and check that there are no rounds in the list | None | A blank screen, as the new user should have no rounds associated with their userID | As per Expected outcome. | Pass | None |
| 3b | User1 has clean start | ListOfLeagues | After logging in with user1 go to list of leagues screen and check that there are no leagues in the list | None | A blank screen, as the new user should have no leagues associated with their userID | As per expected outcome. | Pass | none |
| 4 | New league | CreateNewLeague | Create a new league and check that the league is created in the web database. The user creating the league is put in the league and the user id taken to the ListOfLeagues screen where their new league is visable. | Name: user1 league.  Type: driving.  Duration: 2 months. | List of leagues with the new league visible. The web database with the new league and the league\_members table with the creator of the league as a member. | League creator not a member of the league and therefore league not visible to user. | Fail | Testing to find fault.  Result – MySql trigger not working.  Fixed trigger, retested and result successful. |
| 6 | New round | NewRound | Check that user is presented with a list of valid golf courses near their location. They select one that has not been ‘tagged’. Fill out details on New Round screen and check that details are put into SQLite database with correct userID. | Course: xxxxxx  Handicap: 14  Date: 14-04-2016 | Valid list of course.  Selected course, handicap and today’s date inserted into SQLite database along with current userID. User taken to screen with option to ‘tag’ course. | All information correct and user presented with correct screen. | Pass | None |
| 7 | Play one hole of golf. | ShotInputScreen | User clicks buttons on ShotInputScreen representing their ‘lie’. Then they click on the On the Green button. | Shot 1: Driver  Shot 2: Fairway  Shot 3: rough  Shot 4: bunker  Shot 5: trees  Click - On the Green. | 5 rows in ‘shot’ table of SQLite database. Each row contains coordinates and ‘lie’ for the relevant shot. Each row also contains roundID. | Coordinates for first shot are 0.0 but ‘lie’ and coordinates for subsequent shots are correct. | Fail. | The code to disable buttons until valid GPS signal received was commented out for testing. Code was ‘activated’ and retest was successful. |
| 8 | Finish golf hole. | OnGreen | Validate that the ‘bulls-eye’ icon to ‘tag’ the Green is visible. User clicks the bulls-eye and tags the green. User swipes across screen to record a putt.  User clicks the flag icon to end the hole. | Shot 6: putt  Shot 7: flag | One row in SQLite database with coordinates and ‘lie’ for putt. All shot distances and scores are calculated and put into correct rows in SQLite database. | App crashes | Fail | Logcat shows a shotArray index problem. Upon inspection the array is too long. Fixed this, retested and test successful. |
| 9 | Finish golf round | RoundSummary | After 18 holes the app takes the user to a summary screen displaying statistics for their round. The ‘tagged’ green coordinates are exported to the web based database. | Sg\_driving: 0.11  Sg\_long\_game: 0.22  Sg\_short\_game: 0.33  Sg\_putting: 0.44 | The test data displayed on screen and the ‘tagged’ coordinates inserted into the web based database. | Coordinates inserted correctly. Statistics displayed incorrectly. | Fail | Code for displaying statistics had wrong data in wrong TextView’s. Corrected this, retested and test successful. |
| 10 | Export shots | ExportActivity. | Validate that all shots are exported to the web based database. | Latidude:  -6.999999  Longitude:  53.999999  hit\_from:  tee\_shot\_driver  round\_id: 6  shot\_score: -0.15  hole: 1  shot\_number: 1  distance: 250.47  user\_id: 23 | One row in database with correct data inserted.  Progress bar displays progress. | Data inserted as per Expected output.  Progress bar not working properly. It stays static. | Fail | The progress bar is not getting information about the Exports activities progress.  Created a variable: returnedinfo = 0. Then incremented this in onPostExecute and this used this variable in ExportActivity.java. i.e. progressBar.setProgress(ExportActivity.returnedinfo);  Retested and result successful. |
| 11 | Export round | ExportRound | Validate that a round is exported to the web based database. | User\_id: 8  Start\_date: 2016-04-02  Course: Edmonstown  Sg\_driving: 1.11  Sg\_long\_game: 1.22  Sg\_short\_game: 1.33  Sg\_putting: 1.44 | Round data successfully inserted into database. | As per Expected outcome | Pass | none |
| 12 | League Screen | IndividualLeague | Check that the screen for individual leagues is showing the correct participants and the correct score. Scores recorded between start and finish date of league must be only ones to show up. For this test start date is: 2016-04-01  End date is: 2016-06-01  Format (yyyy-mm-dd) | User\_id: 8  Username(from ‘player’ table): user1  Date: 2016-03-02  Sg\_driving: 0.11  Sg\_long\_game: 0.22  Sg\_short\_game: 0.33  Sg\_putting: 0.44  User\_id: 8  Username(from ‘player’ table): user1  Date: 2016-04-02  Sg\_driving: 1.11  Sg\_long\_game: 1.22  Sg\_short\_game: 1.33  Sg\_putting: 1.44  User\_id: 9  Username(from ‘player’ table): user2  Date: 2016-05-02  Sg\_driving: 2.11  Sg\_long\_game: 2.22  Sg\_short\_game: 2.33  Sg\_putting: 2.44 | User1 league  User2: 2.11  User1: 0.11 | As per Expected outcome. | Pass | none |