**Test cases**

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| Test case Id | Test case Title | Pre-requisites | Test steps | Test Data | Expected results | Actual Result |
| TC\_01 | Validate login by providing the correct ID | Open app in android device | 1. Click Enter Job application 2. Enter the correct ID 3. Press Login Button | Zas87uea | User should be logged in and taken to Home Screen | correct |
| TC\_02 | Validate login by providing the incorrect ID | Open app in android device | 1. Click Enter Job application 2. Enter the incorrect ID 3. Press Login Button | Any data | User should not be logged in and taken to Home Screen | correct |
| TC\_03 | Validate login by providing the correct but uppercase ID | Open app in android device | 1. Click Enter Job application 2. Enter the correct uppercase ID 3. Press Login Button | ZAS87UEAV | User should not be logged in and taken to Home Screen | incorrect |
| TC\_04 | Validate login by providing the correct but lowercase ID | Open app in android device | 1. Click Enter Job application 2. Enter the correct lowercase ID 3. Press Login Button | zas87uea | User should not be logged in and taken to Home Screen | incorrect |
| TC\_05 | Validate login with no internet connection | Open app in android device | 1. Click Enter Job application 2. Enter the correct ID 3. Press Login Button | Zas87uea | User should not be logged in and taken to Home Screen | correct |

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| Test case Id | Test case Title | Pre-requisites | Test steps | Test Data | Expected results | Actual Result |
| TC\_06 | Error Example Button | Tap the Error Button | Tap the button | Not Applicable | Stops app from working | App stops working |
| **TC\_07** | Home Tab | Tap the button increase easy tap game size 3x3  /  increase easy tap game size 3x4 button | 1. Login using the correct ID (portrait mode) 2. Press back button(portrait) 3. Login again using the same ID (portrait mode) 4. Press either increase buttons (portrait mode) 5. Deselect purchase or press back button (portrait mode) | Zas87uea | Go back to home layout/screen | App stops working |
| **TC\_08** | Home Tab | increase easy tap game size 3x3 button  /  increase easy tap game size 3x4 button | 1. Enter the correct ID 2. Press Login Button 3. On Home tab click increase easy tab game 3x3 button 4. Select payment type 5. Rotate you phone to landscape mode 6. Make your payment and click the back button 7. Pop the dialog successful payment | insert credential details for payment | Successful or unsuccessful payment | App stops working |
| Test case Id | Test case Title | Pre-requisites | Test steps | Test Data | Expected results | Actual Result |
| TC\_09 | Welcome screen/layout | Change orientation | 1. Enter the correct ID 2. Press Login Button 3. Rotate you phone to landscape mode and back to portrait mode 4. On Home tab click increase easy tab game 3x3 button 5. make your payment and click the back button 6. tap back button 7. repeat the exact steps twice | Zas87uea | Go back to home screen/layout tab | App stops working |
| TC\_010 | Welcome screen and home screen | ID validation | 1. Enter the correct ID 2. Press Login Button 3. Press back button to go back to welcome page 4. Login (login without the ID) 5. press increase easy tab game size button, tap either button provided 6. Tap the back button & repeat the exact same steps twice | Zas87uea | Trigger validation | App stops working |
| Test case Id | Test case Title | Pre-requisites | Test steps | Test Data | Expected results | Actual Result |
| TC\_011 | Welcome screen | Textbox Validation | 1. Insert ID then change the orientation | Zas87uea | Keep data in the textbox | Data is lost |
| TC\_012 | Ease Tab/layout | Play the game | Play the game (correctly) | Not applicable | Works well | correct |
| TC\_013 | Ease Tab/layout | Play the game | Play the game by tapping the same box over and over | Not applicable | Warning message overlays the board | overlay |
| TC\_014 | Ease Tab/layout | Play the game | Play the game correctly and change the orientation while playing | Not applicable | Keep the game going and data stored | Data is lost |
| TC\_015 | Ease Tab/layout | Restart button | Press the restart button before and after tapping in the board game both in portrait and landscape mode | Not applicable | Restart the game board | correct |
| TC\_016 | Hard Tab/layout | Play the game | Play the game (correctly) | Not applicable | Works well | correct |
| TC\_017 | Hard Tab/layout | Play the game | Play the game by tapping the same box over and over | Not applicable | List correctly aligned below the board | overlays |
| TC\_018 | Hard Tab/layout | Play the game | Play the game correctly and change the orientation while playing | Not applicable | Keep the game going and data stored | Data is lost |
| TC\_019 | Hard Tab/layout | Restart button | Press the restart button before and after tapping in the board game both in portrait and landscape mode | Not applicable | Restart the game board | correct |

**Summary of how I found the bugs**

How I found the errors?

Link to short videos: https://github.com/MeshackT/DTL.git

* Whenever the user changes the orientation of the device information is lost or the application restarts therefor, change in the user interface is not updated to notify the app of its changes.
* Also, when a user logs in and out and returns to the welcoming page, the log out function is not called or updated hence the user is able to log in again without an ID entry the second time.

What should the developer do to prevent those errors?

Most errors are caused by the change in orientation of the device.

* To prevent that from occurring developers should implement MVVP pattern to ensure that the back end of the app is separated from the front end.
* OR the developer could disable orientation changes when developing the app.
* The developer should ensure that when a user logs out the app calls the log out function and awaits until the function is done.

**OR**

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| Test case ID | How I found the bugs? | What should the developer do to prevent the bugs? |
| **TC\_07** | 1. Login using the correct ID (portrait mode) 2. Press back button(portrait) 3. Login again using the same ID (portrait mode) 4. Press either increase buttons (portrait mode) 5. Deselect purchase or press back button (portrait mode) | The developer should ensure that when a user logs out the app calls the log out function and awaits until the function is done. |
| **TC\_08** | 1. Enter the correct ID 2. Press Login Button 3. On Home tab click increase easy tab game 3x3 button 4. Select payment type 5. Rotate you phone to landscape mode 6. Make your payment and click the back button | To prevent that from occurring developers should implement MVVP pattern to ensure that the back end of the app is separated from the front end. |
| **TC\_09** | 1. Enter the correct ID 2. Press Login Button 3. Rotate you phone to landscape mode and back to portrait mode 4. On Home tab click increase easy tab game 3x3 button 5. make your payment and click the back button 6. tap back button 7. repeat the exact steps twice | To prevent that from occurring developers should implement MVVP pattern to ensure that the back end of the app is separated from the front end. |
| **TC\_010** | 1. Enter the correct ID 2. Press Login Button 3. Press back button to go back to welcome page 4. Login (login without the ID) 5. press increase easy tab game size button, tap either button provided 6. Tap the back button & repeat the exact same steps twice | To prevent that from occurring developers should implement MVVP pattern to ensure that the back end of the app is separated from the front end.  And also ensure that data is validated everytime |