**User Log In Test Case**

***Pre-condition:*** *Make sure that the user account exists*

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| **Step** | **Action** | **Reaction** | **Result** |
| 1 | Verify if a user can login entering a valid username and password | System checks to see if the information entered is of a valid type | System displays a confirmation message.  Access is granted |
| 2 | Verify if a user can login entering a valid username and invalid password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 3 | Verify if a user can login entering an invalid username and valid password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 4 | Verify if a user can login entering an invalid username and invalid password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 5 | Verify if a user can login entering a password not matching the required length | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 6 | Verify if a user can login entering a username and not entering a password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 7 | Verify if a user can login not entering a username but enters a password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 8 | Verify if a user can login by entering no information in the two fields | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 9 | User has internet access | System verifies if information is sent by the user | System displays a confirmation message.  Access is granted |
| 10 | User has no internet access | System verifies if information is sent by the user | System displays an error message.  Access denied. |

**Create Users Test Case**

***Pre-condition:*** *Make sure that the administrator account can create user accounts*

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| **Step** | **Action** | **Reaction** | **Result** |
| 1 | Verify if a user can be created by entering a valid username and password | System checks to see if the information entered is of a valid type | System displays a confirmation message.  Account is created |
| 2 | Verify if a user can be created by entering a valid username and an invalid password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 3 | Verify if a user can be created by entering an invalid username and a valid password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 4 | Verify if a user can be created by entering an invalid username and an invalid password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 5 | Verify if a user can be created by entering a password not matching the required length | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 6 | Verify if a user can be created by entering a username and not entering a password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 7 | Verify if a user can be created by not entering a username but enters a password | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 8 | Verify if a user can be created by entering no information in the username field and password field | System checks to see if the information entered is of a valid type | System displays an error message.  Access denied. |
| 9 | Administrator has internet access | System verifies if information is sent by the administrator | System displays a confirmation message.  Access is granted |
| 10 | User has no internet access | System verifies if information is sent by the administrator | System displays an error message.  Access denied. |

**View Data Test Case**

**Pre-condition:** *Data must be stored an accessible for the give users.*

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| **Step** | **Action** | **Reaction** | **Result** |
| 1 | User must be logged in | System checks to see if the information entered is of a valid type | System displays a confirmation message.  Access is granted. |
| 2 | User must be connected to the internet | System checks user credentials | System validates user credentials.  Access is granted. |
| 3 | Establish a secured connection between the data source and the mobile app | System establishes a connection | System displays a confirmation message.  Access is granted. |
| 4 | Connection between data source and the mobile app is not established | System fails to establish a connection | System displays an error message.  Access is denied. |
| 5 | User selects which type of data he/she wants to view | System finds the data and returns it to the app | Data is displayed for the user. |
| 6 | User selects which type of data he/she wants to view | System can not find the requested data | System displays an error message.  Data is not found |
| 7 | User selects which type of data he/she wants to view | System finds the data but cannot display it | System displays an error message. |
| 8 | User is be able to click and choose the selected data | System checks to see if the function is implemented | System displays the data |
| 9 | User is not able to click and choose the selected data |  |  |

**Remove User Test Case**

**Pre-Condition:***User account must be created and should be accessible .*

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| **Step** | **Action** | **Reaction** | **Result** |
| 1 | User account is available | System checks to see if the account is available | System displays a confirmation message.  Access is granted. |
| 2 | User account is not available | System checks to see if the account is available | System displays an error message.  Access is denied. |
| 3 | Administrator can log in | System checks credentials | System displays a confirmation message.  Access is granted. |
| 4 | Administrator cannot log in | System fails to establish a connection | System displays an error message.  Access is denied. |
| 5 | Administrator can select the user account | System executes the specified task and removes account | System displays a confirmation message. |
| 6 | Administrator cannot select the user account |  |  |
| 7 | Administrator can select the user account | System fails to remote user account |  |
| 8 | Administrator cannot find the user account |  |  |

**Edit User Test Case**

**Pre-Condition:***User account must be created and should be accessible .*

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| **Step** | **Action** | **Reaction** | **Result** |
| 1 | User account is available | System checks to see if the account is available | System displays a confirmation message.  Access is granted. |
| 2 | User account is not available | System checks to see if the account is available | System displays an error message.  Access is denied. |
| 3 | Administrator can log in | System checks credentials | System displays a confirmation message.  Access is granted. |
| 4 | Administrator cannot log in | System fails to establish a connection | System displays an error message.  Access is denied. |
| 5 | Administrator can select the user account | System executes the specified task and edits account | System displays a confirmation message. |
| 6 | Administrator cannot select the user account |  |  |
| 7 | Administrator can select the user account | System fails to save changes for the user account | System displays an error message. |
| 8 | Administrator cannot find the user account |  |  |