**Secure test plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test No. | Input | Reason | Expected | Actual |
| Test 1:  Invalid input - string | First Selection: “one” | Test selecting a string rather than a number. Test proves that incorrect input is handled gracefully | Value “one” is input  User is told input is not valid and asked to try again | “You have entered an invalid input  Please enter 1 for new user, or 2 for existing user” |
| Test 2:  Invalid input - float | First Selection: 1.1 | Test selecting a float rather than an integer. Test proves that incorrect input is handled gracefully | Value 1.1 is input  User is told input is not valid and asked to try again | “You have entered an invalid input  Please enter 1 for new user, or 2 for existing user” |
| Test 3:  Invalid input – out of range | First Selection: 0 | Test selecting a number outside of the grid range (1-2). Test proves that incorrect input is handled gracefully | Value 0” is input  User is told input is not valid and asked to try again | “You have entered an invalid input  Please enter 1 for new user, or 2 for existing user” |
| Test 4:  New user | First Selection: 1  Second Selection: “testtesttest”  Third Selection: “testtesttest” | Test successfully creating a new user password and matching that password. Test proves that if conditions are met, a password is created | Value 1 is input  Value “testtesttest is input  Value “testtesttest is input  User is given message explaining that a new entry has been created | “\*\*\* The passwords match, new entry created! \*\*\*” |
| Test 5:  New user password mismatch | First Selection: 1  Second Selection: “testtesttest”  Third Selection: “testtest” | Test selecting a correct password but failing to match it. Test proves that passwords must match for a new entry to be created | Value 1 is input  Value “testtesttest is input  Value “testtest” is input  User is given message explaining that a new entry has not been created | “\*\*\* The passwords do not match, new entry not created! \*\*\*” |
| Test 6:  New user short password | First Selection: 1  Second Selection: “test” | Test selecting a password shorter than 8 characters long, proving that the password is not accepted | Value 1 is input  Value “test” is input  User is given a message stating that the password is to short, before being prompted to try again | “Password is less than eight characters” |
| Test 7:  New user integer start | First Selection: 1  Second Selection: “1testtesttest” | Test selecting a password starting with a number, proving that the password is not accepted | Value 1 is input  Value “1testtesttest” is input  User is given a message stating that the password starts with a number, before being prompted to try again | “Password must not start with a numeric character” |
| Test 8:  New user space | First Selection: 1  Second Selection: “test test test” | Test selecting a password containing spaces, proving that the password is not accepted | Value 1 is input  Value “test test test” is input  User is given a message stating that the password contains spaces, before being prompted to try again | “Password contains a space” |
| Test 9:  No existing entry | First Selection: 2 | Test selecting an existing user when no user exists, proving that the user is then prompted to create a new password | Value 2 is input  User is given a message stating that no users exist, and is then prompted to create a new password | “Sorry, no passwords have been set, please create a new entry …  Create a new password!” |
| Test 9:  Successful Login | First Selection: 1  Second Selection:  “testtesttest”  Third Selection: “testtesttest”  Fourth Selection: 2  Fifth Selection: “testtesttest” | Test successfully entering an existing password, allowing the user to login. Test proves new users can be created and can login successfully. | Value 1 is input  Value “testtesttest” is input  Value “testtesttest” is input  A new user has now been created  Value 2 is input  Value “testtesttest” is input  User is given a successful login message | “\*\*\*\*\* Password accepted, welcome! \*\*\*\*\*” |