Testing

# Test Plan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Number | Test Description | Input | Expected Output | Actual Output | Comments |
| 1 | Attempt to register whilst not connected to the server. | UN: greeg  PW: abcdef!  CF: abcdef! | Error label should provide a relevant error message after 3 seconds. | See Fig.1 | Works as expected. |
| 2 | Attempt to register an account with a server connection | UN: greeg  PW: abcdef!  CF: abcdef! | Label should inform user of success, close the form and create records in the Login and UserStats tables. | See Fig.2 | Works as expected. All subsequent tests will be run with this account in the database. |
| 3 | Attempt to register a new account with a taken username | UN: greeg  PW: abcdef!  CF: abcdef!  Database not reset from test 2. | Label should inform user that the username is taken. | See Fig.3 | Works as expected. |
| 4 | Attempt to register an account with invalid password fields | PW: abcde  Then  PW: abcdefgh  Then  PW: abcdef!  CF: xyzxyz | Label should inform the user their password is too short, then that it has no special characters, then that their passwords do not match. | See Fig.4 | Works as expected. |
| 5 | Attempt to log in when not connected to the server. | UN: greeg  PW: abcdef! | Label should inform the user that they are not connected after 3 seconds. | See Fig.5 | Works as expected. |
| 6 | Attempt to log in with incorrect credentials. | UN: greeg  PW: xyzxyz | Label should give a message indicating that the credentials are incorrect. | See Fig.6 | Works as expected. |
| 7 | Attempt to login with correct credentials | UN: greeg  PW: abcdef! | Access is granted: the login form hides and the MazeParameter form opens. | See Fig.7 | Works as expected; the login must have worked since it is logged in the server and the parameter form greets the user in the form title. |
| 8 |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

# Screenshots

|  |  |
| --- | --- |
| Figure # | Screenshots |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |