| Test Name | Preconditions | Inputs | Procedure | Oracle |
| --- | --- | --- | --- | --- |
| Connect[valid ip] | None | ip:127.0.0.1 | * Run the Main client code * Attempt to connect with ip 127.0.0.1 * User will see the Client interface titled | Successful connection |
| Connect[invalid ip] | None | ip:127.1.0.0.1 | * Run the Main client code * Attempt to connect with ip 127.0.0.1 * User will not see a the client interface | Unsuccessful connection |
| Disconnect[Logged out] | The Client is connected to the server |  | * User selects the disconnect button * User will not see a the client interface | Successful Disconnection |
| New User Request success | The Client is connected to the server | Username: justinbouse2  Password:  Password1!  Email:  justinbouse2@gmail.com | * User selects [New User] * User provides username, password and email then selects OK * User Returns to User Options interface | User Returns to User Options interface/ New User Information has been added to database |
| New User Request unsuccessful | The Client is connected to the server/the username justinbouse2 is already in use | Username: justinbouse2  Password:  Password1!  Email:  justinbouse2@gmail.com | * User selects [New User] * User provides username, password and email then selects OK * User returns to New User dialog and client displays ‘Username already taken’ | User Returns to New User dialog Client displays Username already taken no information added to database |
| New User Request bad info | The Client is connected to the server | Username: jj  Password:  Passs  Email:  justin@cluuuuu.com | * User selects [New User] * User provides username, password and email then selects OK * User returns to New User dialog and client displays ‘Invalid Information’ | User Returns to New User dialog Client displays Invalid Information no information added to database |
| Log out | The User is logged in | None | * The User selects the Log out button * The User returns to the User Options Screen | User Returns to the User Options Screen Client is |
| Log in[Correct login] | The client is connected to the server | Username: justinbouse2  Password:  Password1!  Email:  justinbouse2@gmail.com | * User selects [Log in] * User provides username, password and email then selects OK * User is logged into the system | User is logged in. |
| Log in[incorrect log in] | The client is connected to the server | Username: justinbouse13  Password:  Password1!  Email:  justinbouse2@gmail.com | * User selects [Log in] * User provides username, password and email then selects OK * User receives invalid log in message and is returned to User Options Screen | User Returns to Log in dialogue. Display shows incorrect log-in information. |
| Log In[account locked] | The client has already had 2 subsequent incorrect log in attempts | Username: justinbouse2  Password:  rootuser25!  Email:  justinbouse2@gmail.com | * User selects [Log in] * User provides username, password and email then selects OK * User receives invalid locked out message and is disconnected from the server | User cannot make any additional login attempts |
| Password Recovery[Good email] | The client is connected to the server | Username: justinbouse2  Email:  justinbouse2@gmail.com | * User selects [Password Recovery] * User provides valid username and email then selects OK * User is sent a verification code | A password recovery email is sent |
| Password Recovery[Bad email] | The client is connected to the server | Username: justinbouse2  Email:  justinb542@gmail.com | * User selects [Log in] * User provides valid username and invalid email then selects OK * User is not sent a verification code | No email is sent |
| Password Recovery[correct code] | The client is connected to the server and has input a valid email. | Username: justinbouse2  Valid input of randomly generated code | * User provides valid password recovery code * User recovers password | Password recovery successful |
| Password Recovery [incorrect code] | The client is connected to the server and has input a valid email. | Username: justinbouse2  Invalid input of randomly generated code | * User selects [Log in] * User provides invalid password recovery code * User does not recover password | Password recovery unsuccessful |