**MAIN MENU**

Tic-Tac-Toe

1. Play
2. Sign In / Sign Out / Create a Username
3. Change Password
4. Select Difficulty
5. View Statistics

**(2) SIGN IN**

User: <<input>>

Password: <<input>>

btn1:Sign In btn2:Cancel btn3:Create a Username btn4:Sign Out

*(2.1) Sign In:* (Success) Moves to **MAIN MENU**

(Failure) Shows **(2) SIGN IN** with failure message

*(2.2) Cancel:* Moves to **MAIN MENU**

*(2.3) Create a Username*

New User: <<input>>

Password: <<input>>

Confirm: <<input>>

btn1:Create btn2:Cancel

*(2.3.1) Create:* (Success) Moves to **(2) SIGN IN** with success message

(Failure) Shows *(2.3) Create a Username* with failure message

*(2.3.2) Cancel:* Moves to **(2) SIGN IN**

*(2.4) Sign Out:* (Success) Moves to **MAIN MENU**

(Failure) Shows **(2) SIGN IN** with failure message [happens when no user is signed in]

**(3) CHANGE PASSWORD**

Current: <<input>>

New: <<input>>

Confirm: <<input>>

btn1:Change Password btn2:Cancel

*(3.1) Change Password:* (Success) Shows success message then moves to **MAIN MENU**

(Failure) Shows **(3) CHANGE PASSWORD** with failure message

*(3.2) Cancel:* Moves to **MAIN MENU**

**(4) SELECT DIFFICULTY**

Current: currDiff

btn1:Easy btn2:Medium btn3:Hard btn4:Two-Player btn5:Main Menu

*(4.1) Easy:* Shows **(4) SELECT DIFFICULTY** with currDiff set to “Easy”

*(4.2) Medium:* Shows **(4) SELECT DIFFICULTY** with currDiff set to “Medium”

*(4.3) Hard:* Shows **(4) SELECT DIFFICULTY** with currDiff set to “Hard”

*(4.4) Two-Player*

Player two must sign in, no guests

User: <<input>>

Password: <<input>>

btn1:Sign In btn2:Cancel btn3:Create a Username

*(4.4.1) Sign In:* (Success) Moves to **(4) SELECT DIFFICULTY** with currDiff set to “Two-Player”

(Failure) Shows *(4.4) Two-Player* with failure message

*(4.4.2) Cancel:* Moves to **(4) SELECT DIFFICULTY**

*(4.4.3) Create a Username*

New User: <<input>>

Password: <<input>>

Confirm: <<input>>

btn1:Create btn2:Cancel

*(4.4.3.1) Create:* (Success) Moves to *(4.4) Two-Player* with success message

(Failure) Shows *(4.4.3) Create a Username* with failure message

*(4.4.3.2) Cancel:* Moves to *(4.4) Two-Player*

*(4.5) Main Menu:* Moves to **MAIN MENU**

**(5) VIEW STATISTICS**

Current User: currUser

Wins: # Losses: # Draws: # Ratio: #

btn1:Return to Main Menu btn2:View Leaderboards

*(5.1) Return to Main Menu:* Shows **MAIN MENU**

*(5.2) View Leaderboards*

Current User: currUser Difficulty: currDiff Leaderboard: sortMethod

Rank User Wins Losses Draws Ratio

1 Username # # # #

2 Username # # # #

3 Username # # # #

.

.

.

10 Username # # # #

btn1:Find Me btn2:Change Difficulty btn3:Change Leaderboard btn4:Main Menu

*(5.2.1) Find Me*

(Success) Shows: Rank: # User: currUser Wins: # Losses: # Draws: # Ratio: #

(Failure) Shows: currUser is not on this Leaderboard, try changing the difficulty!

*(5.2.2) Change Difficulty*

Note: This does not change the difficulty settings of your current profile

btn1:Easy btn2:Medium btn3:Hard btn4:Two-Player btn5:Cancel

*(5.2.2.1) Easy:* Shows *(5.2) View Leaderboards* with currDiff set to “Easy”

*(5.2.2.2) Medium:* Shows *(5.2) View Leaderboards* with currDiff set to “Medium”

*(5.2.2.3) Hard:* Shows *(5.2) View Leaderboards* with currDiff set to “Hard”

*(5.2.2.4) Two-Player:* Shows *(5.2) View Leaderboards* with currDiff set to “Two-Player”

*(5.2.2.4) Cancel:* Shows *(5.2) View Leaderboards*

*(5.2.3) Change Leaderboard*

Choose the Leaderboard to display

btn1:Most Wins btn2:Most Losses btn3:Most Draws btn4:Best Ratio btn5:Cancel

*(5.2.3.1) Most Wins:* Shows *(5.2) View Leaderboards* with sortMethod set to “Most Wins”

*(5.2.3.2) Most Losses:* Shows *(5.2) View Leaderboards* with sortMethod set to “Most Losses”

*(5.2.3.3) Most Draws:* Shows *(5.2) View Leaderboards* with sortMethod set to “Most Draws”

*(5.2.3.4) Best Ratio:* Shows *(5.2) View Leaderboards* with sortMethod set to “Best Ratio”

*(5.2.3.5) Cancel:* Shows *(5.2) View Leaderboards*

*(5.2.4) Main Menu:* Shows **MAIN MENU**