

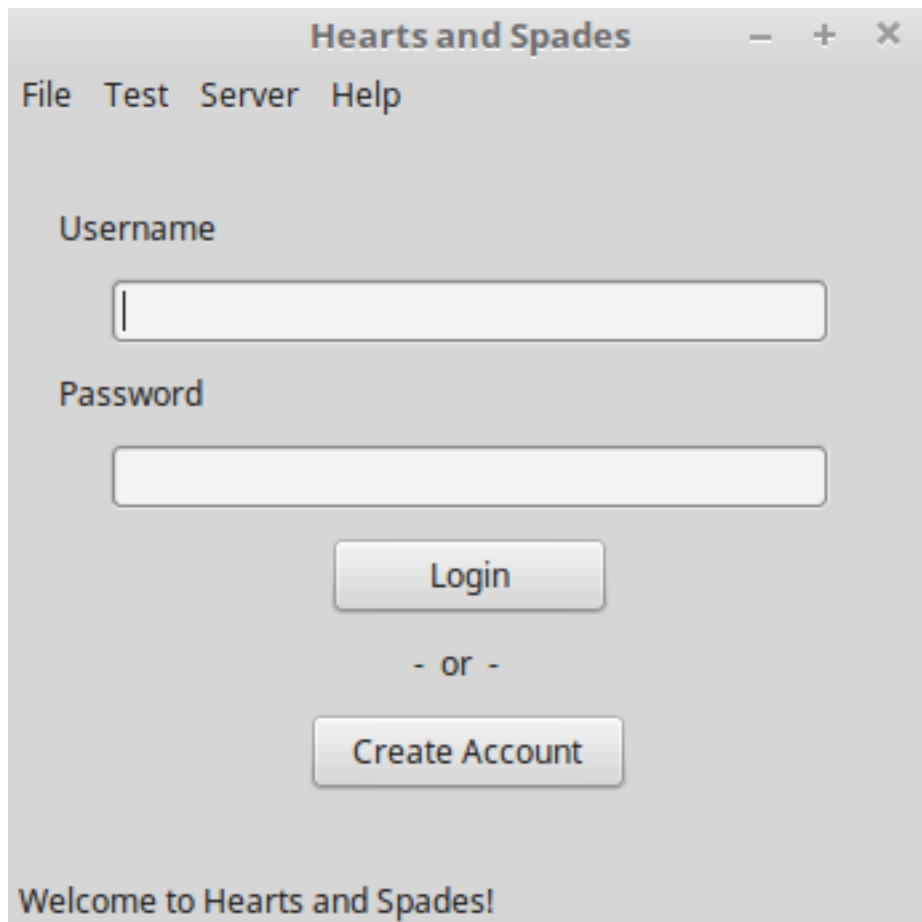
Software Design Description

Brandon Smith, Nieka Gutenberger, Joseph Coppin, Ryan Frazier, Trevor Jewkes

November 12, 2016

1 Software Design

1.1 Login Screen

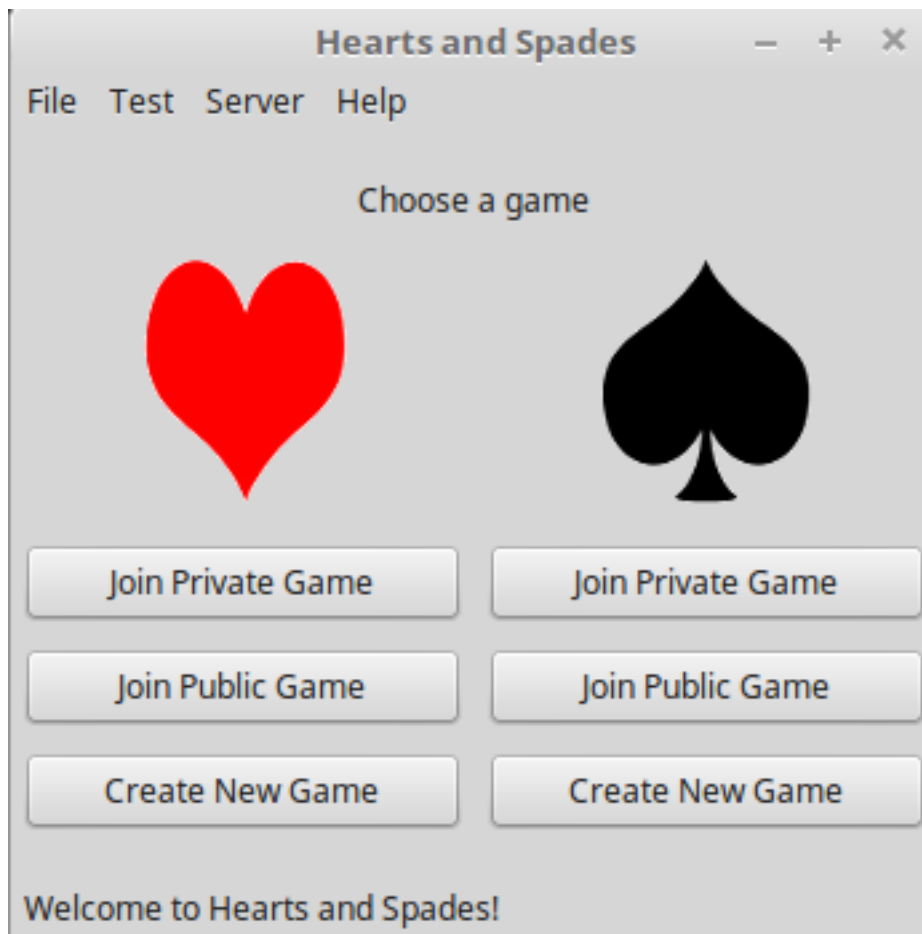


The screenshot shows a window titled "Hearts and Spades" with standard window controls (minimize, maximize, close). Below the title bar is a menu bar with "File", "Test", "Server", and "Help". The main area contains a "Username" label above a text input field, followed by a "Password" label above another text input field. Below these fields are two buttons: "Login" and "Create Account", separated by the text "- or -". At the bottom of the window, it says "Welcome to Hearts and Spades!".

This screen is the first screen the user will see. It has a text box for the user to enter a user name and password. It also has two buttons a login which sends the username and password to the server, and brings up the lobby screen; and a Create Account button which takes the user to screen where they can create their account prior to playing games.

The account creation has text fields for all the information needed to create an account including Name, Username, Password and Verify Password, Finally the page includes a Create Account button which sends all information to the server so it can create the account.

1.2 Main Menu

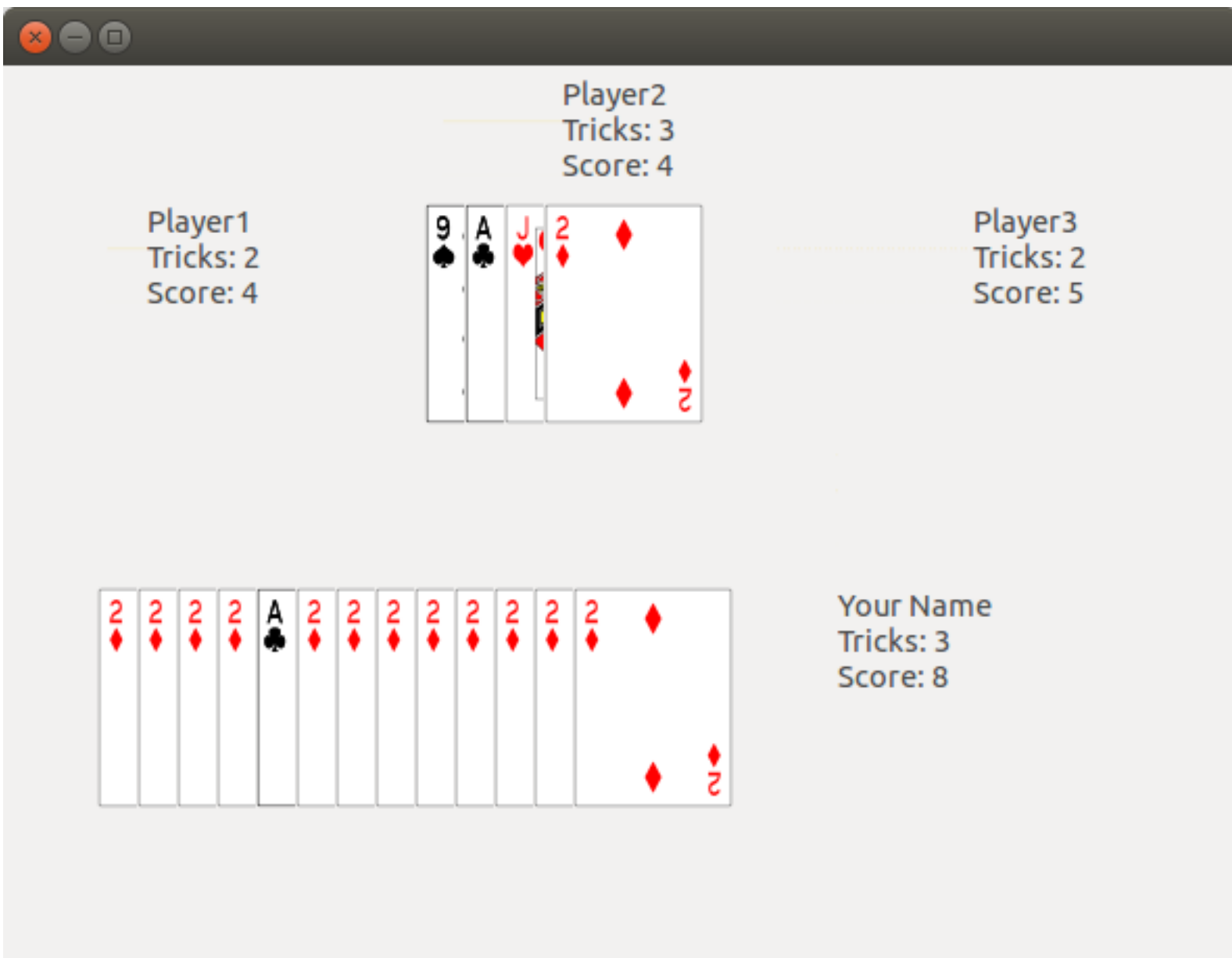


This screen is the main menu for the Game, it is divided in half with one half related to the game of Hearts, and the other half for the game of Spades. Each half includes three buttons, Join Private, Join Public and Create New. The Join Private brings up a screen which allows the user enter the name of the game they want to join. The Join Public will tell the server to assign the user to the first available public game, if no game is available the server will create a new game with the user and three AI players. Finally the Create New button will bring up a screen which asks for the users preferences to create a new game.

The screenshot shows a small dialog box with a close button (X) in the top right corner. It contains two labels: "IP Address:" and "Port:". Below each label is a text input field. At the bottom of the dialog is a "Submit" button.

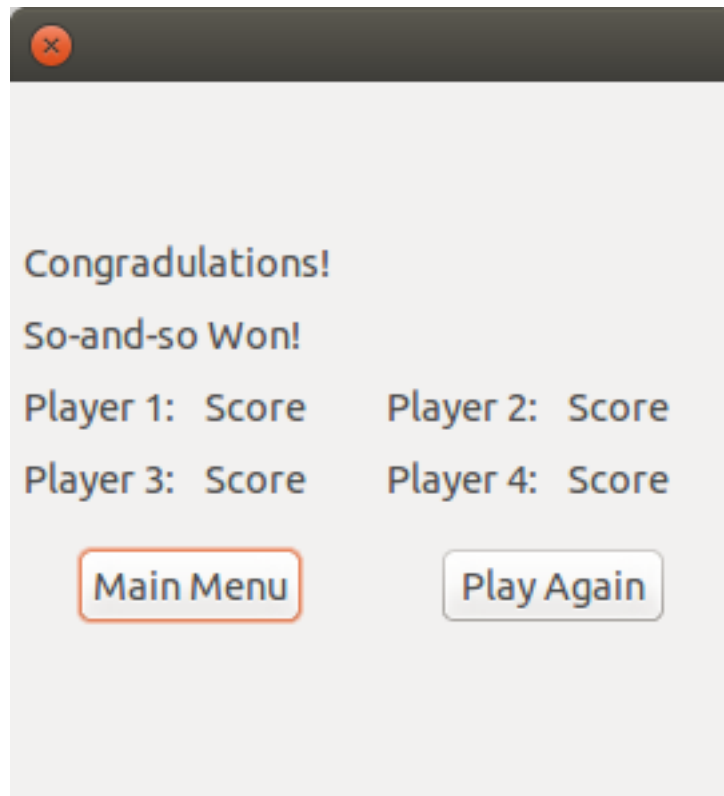
When connecting to the server, a menu option is available to specify the IP Address and Port number for the server.

1.3 Game Play



This screen will be the view that will be use for play of the game. Since Spades and Hearts have the same basic set-up we can use the same view for both. It shows the players hand along with the scores of the other players. Placing bids and passing cards fit within the gameplay screen.

1.4 End-of-Game



This the End-of-Game screen. It will display the winner of the game along with the final scores for the game.

There are two buttons, "Play Again" and "Main Menu". The "Play Again" button is used to play again with the same players. The "Main Menu" button will return the user to the main menu.