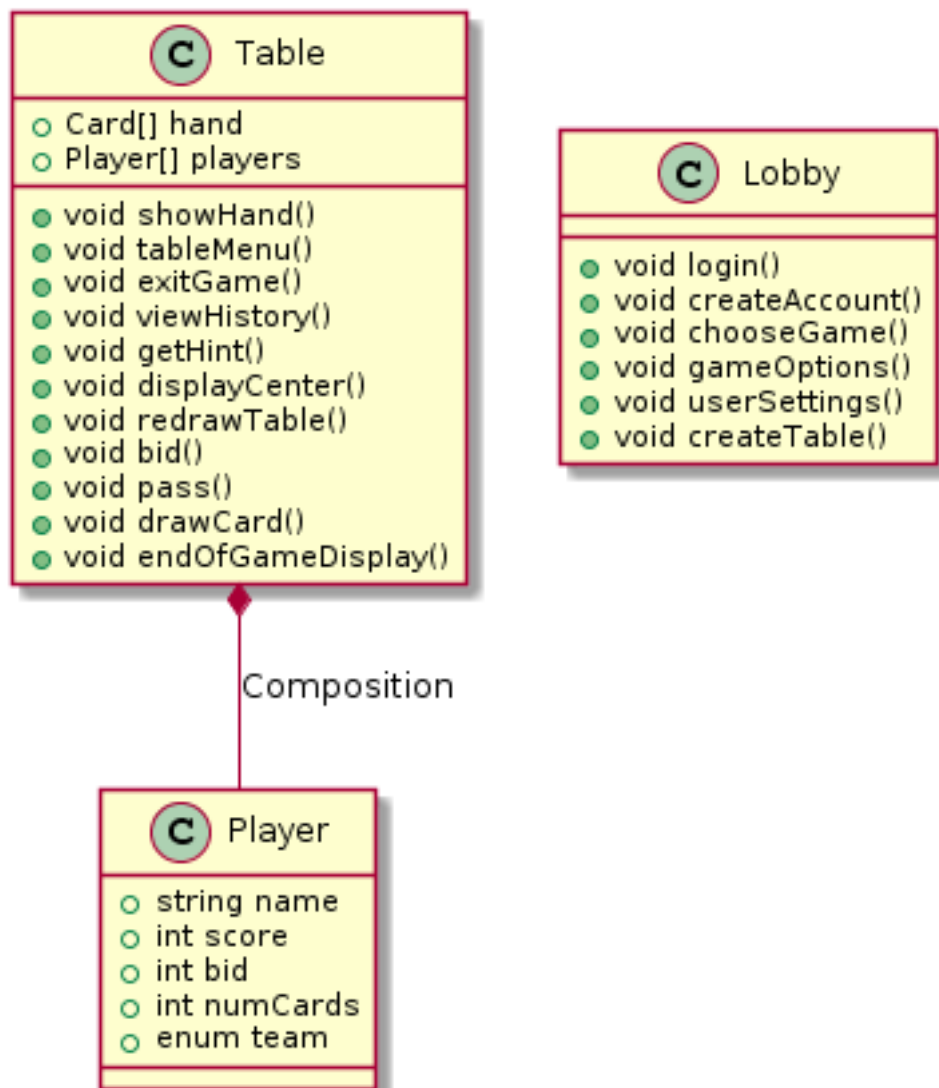


SDD -Client Low Level Design

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

November 9, 2016



Client Class Diagram

1 Table

1.1 Card[] hand

An array of cards holding each players hand.

1.2 Player[] players

An array of player objects.

1.3 void showHand()

A function that prints out the players hand onto the GUI.

1.4 void tableMenu()

A menu dropdown that includes the following: (plus any other options we see fit to add in the future)

1.4.1 void exitGame()

Facilitates a call to the server about early game withdrawal.

1.4.2 void viewHistory()

Shows a history of each trick in the given round

1.4.3 void getHint()

Provides the user with a good playable card. (Possibly using the logic from the hard AI)

1.5 void displayCenter()

Controls the display of the center play area as the game is played.

1.6 void redrawTable()

Updates the table after each move is made, in between tricks, and after each round.

1.7 void bid()

Used in Spades to handle the bid scenario.

1.8 void pass()

Used in Hearts to handle the pass scenario

1.9 void drawCard()

Used in Crazy 8s to handle the draw card scenario.

1.10 void endOfGameDisplay)

Is called at the end of a game to display winners, everyones final scores, and an option to play again or return to the main menu.

2 Player

2.1 string name

String that holds the name of a player.

2.2 int score

Int that holds the score of a player.

2.3 int bid

Int that holds the value bidded in a game of Spades.

2.4 int numCards

Int that holds the number of cards player has left to play.

2.5 enum team

Marks player as in team 1, team 2 or on no team depending on game played.

3 Lobby

3.1 void login()

This function allows for the user to enter their credentials and will send a login request to the server.

3.2 void createAccount()

This function allows for the user to create an account and send that information to the server

3.3 void chooseGame()

This function will take the user's request to start one of the games and send the corresponding request to the server.

3.4 void gameOptions()

This function will take the user's request to play a public or private game.

3.5 void userSetting()

This function will open the window for the user to see their stats and a set amount of options.

3.6 void createTable()

This function will be called to start the game and will create the table for play to begin. It will also send a start game request to the server.