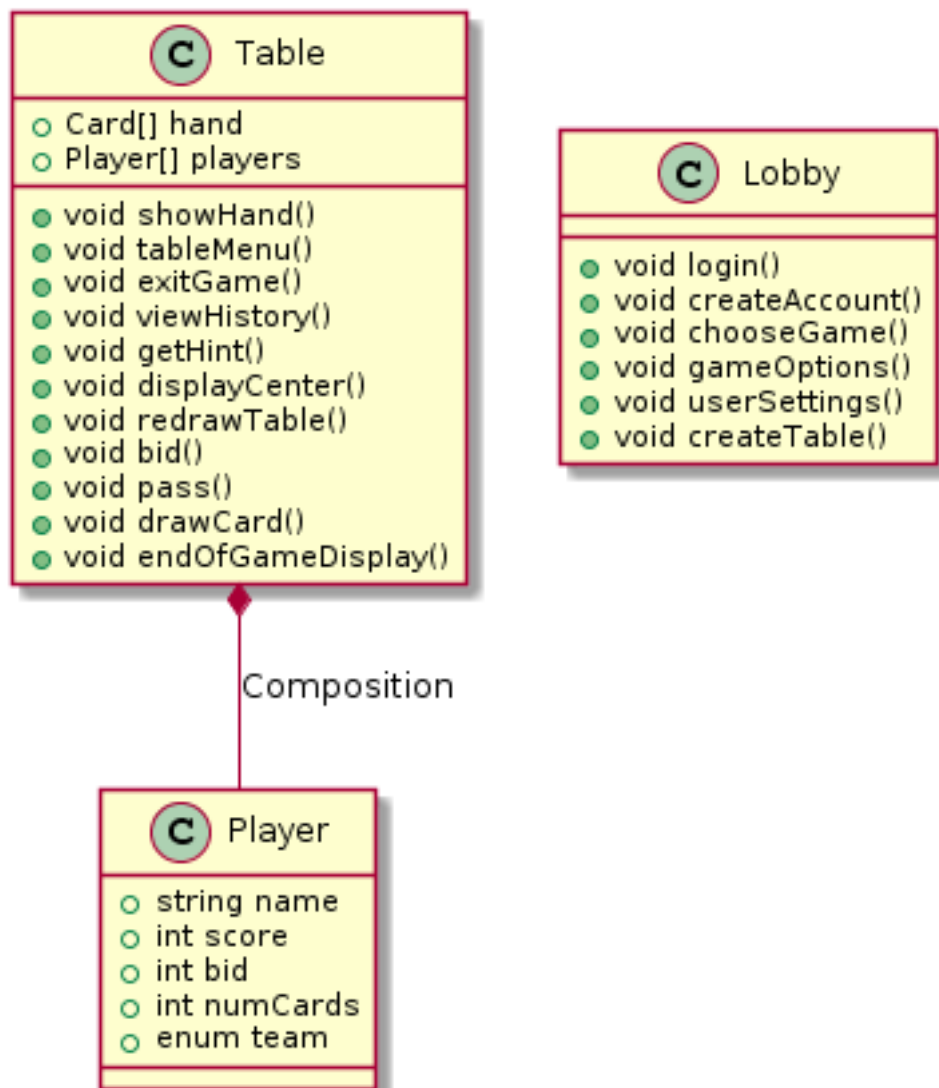


# SDD -Client Low Level Design

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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.