

## Program Flow

### Main.rb

- Creates new player for main user

- Asks for name

- Asks for starting chip amount

- Creates Table with desired amount of user with main user

### Table.rb

- Creates array for players

- Creates array for fold users

- Sends itself to Database.rb to set

### Database.rb

- Reads all json files in players file

- Include how many needed

- If more users need to create calls UserDataProxy

- Set's user playing styles (procs)

- Prints Players

- Selects randomly dealer

- Sends table object to Game.rb

### play method

- sets current deal as chip amount / 20

- creates procs

- general\_play

- it asks users to call, raise or fold

- get\_odds

- gets odd from api

- set users bankrolls

- while user want to play

- create new array for board cards

- creates deck

- shuffles deck

deal two cards to each player

asks players who want to play with this current deal

calls each\_play from table with general\_play

each\_play iterate players from dealer to end, than 0 to dealer and calls general\_play

shows 3 cards for board

gets odds from each player

same flow goes on for 3 more rounds

when it ends who\_win finds who is the winner based on last odds

updates json files with results

First round

```
Welcome to Texas Hold'em Poker!
Enter your name: teke
-----
Enter starting chip amount: 1000
-----
1. Player: teke
2. Player: elizabeth fortin
   Playing Style: tight_passive
3. Player: hong van marle
   Playing Style: tight_aggressive
-----
Our dealer is: elizabeth fortin
-----
Your cards: 2c 4h
-----
First round!
-----
elizabeth fortin <Call> :50 <Money: 950>
hong van marle <Call> :50 <Money: 950>
    Do you call? Press y or n: y
    Do you want to Raise? Press y or n: y
    Enter new amount of deal: 200
teke <Raise> : 200 <Money: 800>
elizabeth fortin <Call> :150 <Money: 800>
hong van marle <Call> :150 <Money: 800>
Money on the table: 600
```

Second round and other users fold

```
Players in the game: 3
-----
Cards on the board: 2s 3h 2h
-----
      http://stevenamoore.me/projects/holdemapi?cards=9hJh&board=2s3h2h&num_players=3
elizabeth fortin odd to win this round: 0.34268648983529
-----
      http://stevenamoore.me/projects/holdemapi?cards=9sTh&board=2s3h2h&num_players=3
hong van marle odd to win this round: 0.19121373840547
-----
      http://stevenamoore.me/projects/holdemapi?cards=2c4h&board=2s3h2h&num_players=3
Your odd to win this round: 0.56499146595839
-----
Second round!
-----
elizabeth fortin <Fold> <Money: 800>
hong van marle <Fold> <Money: 800>
      Do you call? Press y or n: y
      Do you want to Raise? Press y or n: n
teke <Call> : 200 <Money: 600>
Money on the table: 1200
-----
Players in the game: 1
-----
Cards on the board: 2s 3h 2h Tc
-----
Third round!
-----
Fourth round!
-----
Winner: teke
```

Next round

```
Do you want to play another game: y or n
y
Our dealer is: hong van marle
-----
Your cards: 5h 3d
-----
First round!
-----
hong van marle <Call> :50 <Money: 750>
      Do you call? Press y or n: y
      Do you want to Raise? Press y or n: n
teke <Call> : 50 <Money: 1750>
elizabeth fortin <Call> :50 <Money: 750>
Money on the table: 150
-----
Players in the game: 3
-----
Cards on the board: Jd 6c 7s
-----
      http://stevenamoore.me/projects/holdemapi?cards=9sAc&board=Jd6c7s&num_players=3
hong van marle odd to win this round: 0.29049324912009
-----
      http://stevenamoore.me/projects/holdemapi?cards=5h3d&board=Jd6c7s&num_players=3
Your odd to win this round: 0.1649133255974
-----
      http://stevenamoore.me/projects/holdemapi?cards=AhTc&board=Jd6c7s&num_players=3
elizabeth fortin odd to win this round: 0.29553699067462
-----
Second round!
-----
hong van marle <Call> :50 <Money: 700>
      Do you call? Press y or n: y
      Do you want to Raise? Press y or n: y
      Enter new amount of deal: 100
teke <Raise> : 100 <Money: 1650>
elizabeth fortin <Call> :100 <Money: 650>
hong van marle <Call> :50 <Money: 650>
Money on the table: 450
-----
Players in the game: 3
-----
```

-----  
Cards on the board: Jd 6c 7s Jh

-----  
http://stevenamoore.me/projects/holdemapi?cards=9sAc&board=Jd6c7sJh&num\_players=3  
hong van marle odd to win this round: 0.3289226795487

-----  
http://stevenamoore.me/projects/holdemapi?cards=5h3d&board=Jd6c7sJh&num\_players=3  
Your odd to win this round: 0.097967846083545

-----  
http://stevenamoore.me/projects/holdemapi?cards=AhTc&board=Jd6c7sJh&num\_players=3  
elizabeth fortin odd to win this round: 0.33320507715145

-----  
Third round?

-----  
hong van marle <Call> :100 <Money: 550>  
Do you call? Press y or n: n  
teke <Fold> <Money: 1650>  
elizabeth fortin <Call> :100 <Money: 550>  
Money on the table: 750

-----  
Players in the game: 2

-----  
Cards on the board: Jd 6c 7s Jh 8h

-----  
http://stevenamoore.me/projects/holdemapi?cards=9sAc&board=Jd6c7sJh8h&num\_players=3  
hong van marle odd to win this round: 0.35242843810608

-----  
http://stevenamoore.me/projects/holdemapi?cards=AhTc&board=Jd6c7sJh8h&num\_players=3  
elizabeth fortin odd to win this round: 0.34733001585499

-----  
Fourth round?

-----  
hong van marle <Call> :100 <Money: 450>  
elizabeth fortin <Call> :100 <Money: 450>  
Money on the table: 950

-----  
Players in the game: 2

-----  
Cards on the board: Jd 6c 7s Jh 8h

-----  
Winner: hong van marle