

# ChipCity: Poker Game implemented using WebSockets

GitHub [https://github.com/cmu-webapps/s24\\_team\\_39](https://github.com/cmu-webapps/s24_team_39)

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# Overview of Project



# UI Overview

### Chip City Login

Username

Password

[Forgot Password?](#)

Login

### Chip City Register

Username

Password

Confirm Password

Email

First Name

Last Name

Login



## UI Overview (continued)

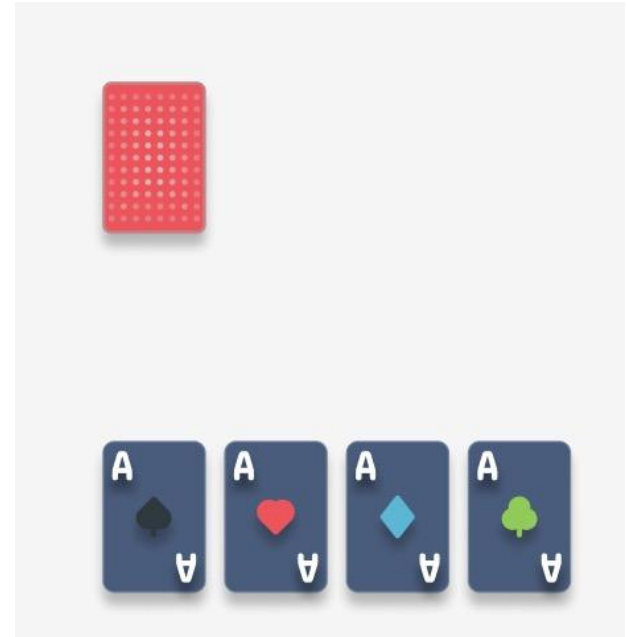
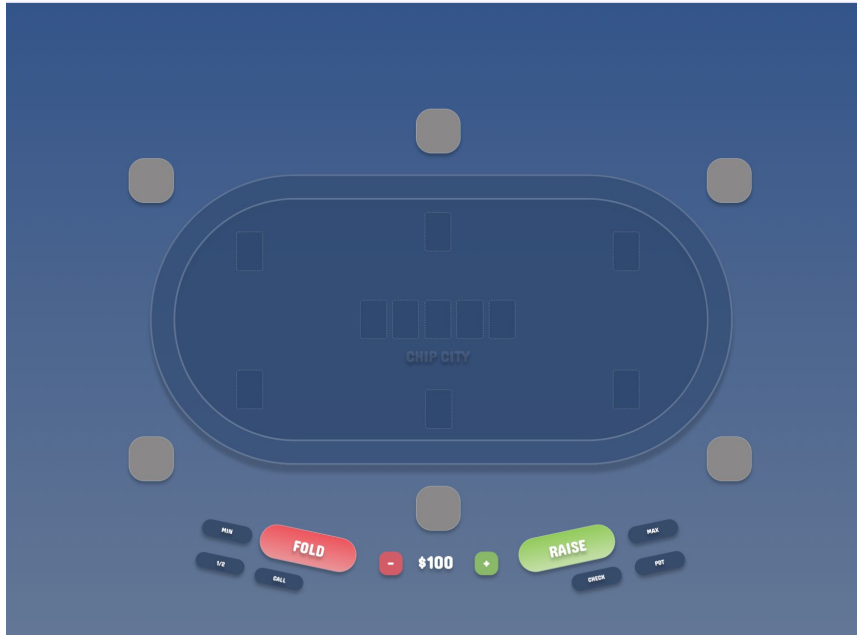
### Chip City

Table 1	Table 2	Table 3
NLH ~ 10/20 5/6 seats filled	NLH ~ 10/20 3/6 seats filled	EMPTY 0/6 seats filled
Join Table	Join Table	Join Table

Press a table to join... or

Create Table

## UI Overview (continued)





## Original Goals vs. What We've Completed

- Finish UI Design
- Complete models.py
- Implement OAuth
- Implement one person poker game
  - Create new game each time create table is clicked
  - Working game table UI

- Finish UI Design
- Completed models.py
- Implemented OAuth
- Created new game object each time create table is clicked



## New Goal

- Working Demo by Sprint 2
  - Implement the turn based mechanics
  - Implement a rudimentary version of betting/calculating card hands

## Problems

- Not sure how to implement the game, especially tying everything together



# Models



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# Game Model

```
...
    This is the game model. Includes the dealer, the number of players, the pot,
    the table number, and the small and big blinds.
...

class Game(models.Model):
    dealer = models.ForeignKey(User, on_delete=models.PROTECT, related_name='dealer', null=True)
    num_of_players = models.IntegerField(default=2)
    pot = models.DecimalField(max_digits=10, decimal_places=2, default=0, null=True)
    table_num = models.ForeignKey(User, on_delete=models.PROTECT, related_name='table_num', null=True)
    small_blind = models.OneToOneField(User, on_delete=models.PROTECT, related_name="small_blind", null=True)
    ⚡ big_blind = models.OneToOneField(User, on_delete=models.PROTECT, related_name="big_blind", null=True)
    # players = models.ManyToManyField(Player)
    current_player = models.IntegerField(default=0, null=True) # can be based on seat number
    # winner = models.ManyToManyField(Player, related_name="winner")
    current_bet = models.IntegerField(default=0, null=True)
```

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# Player Model

```
'''
    This is the player model. Includes the user, user's wallet, their hand, and profile picture.
    References the game that it is in.
'''
class Player(models.Model):
    # bio = models.CharField(max_length=200)
    user = models.OneToOneField(User, on_delete=models.PROTECT, related_name="player")
    game = models.ForeignKey(Game, on_delete=models.PROTECT, related_name="player_game")
    wallet = models.DecimalField(max_digits=6, decimal_places = 2)
    card_left = models.CharField(max_length=6)
    card_right = models.CharField(max_length=6)
    seat_number = models.IntegerField(default=0)
    picture = models.FileField(blank=True)
    content_type = models.CharField(blank=True, max_length=50)
    player_pot = models.IntegerField(default=0)
    is_winner = models.ManyToManyField(Game, related_name='winner')
    raise_amt = models.IntegerField(default=0)
```

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# Card Model

```
'''
    This is the card model. Includes all the card suits and rank.
    References the game that it is in.
'''
class Card(models.Model):
    game = models.ForeignKey(Game, on_delete=models.PROTECT, related_name="card_game")
    player = models.ForeignKey(Player, on_delete=models.PROTECT, related_name="card_player")
    suit = models.CharField(max_length=10)
    rank = models.CharField(max_length=2)
    image = models.CharField(max_length=20)
```



Demo