CAEZAR GAME

Team CCZZ

XINLU CHEN, CHENG LI, XUAN ZHANG, LIJIE ZHOU

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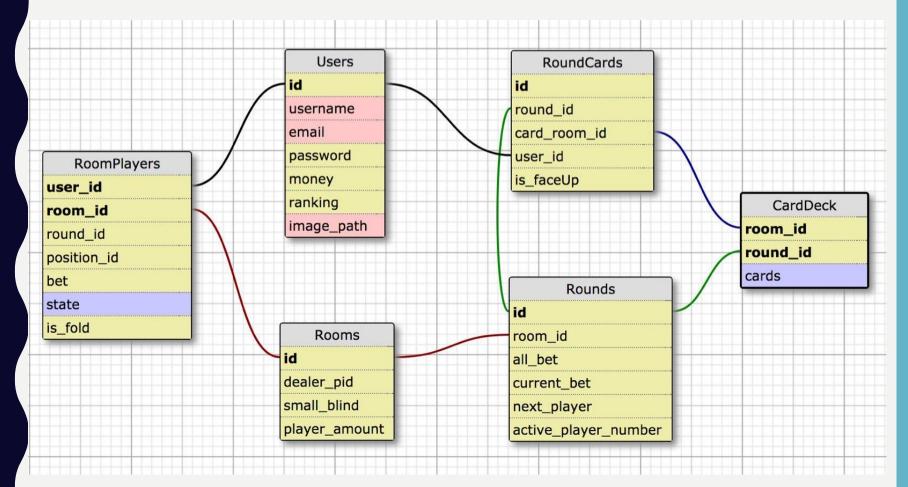
PROJECT OVERVIEW

- CaeZar is an online Texas Hold'em game.
- •It supports multiple game rooms with up to 4 players in each game room.
- •CaeZar allows chatting in the game lobby and in each game room.
- •CaeZar provides game rules page for beginners as a reference.

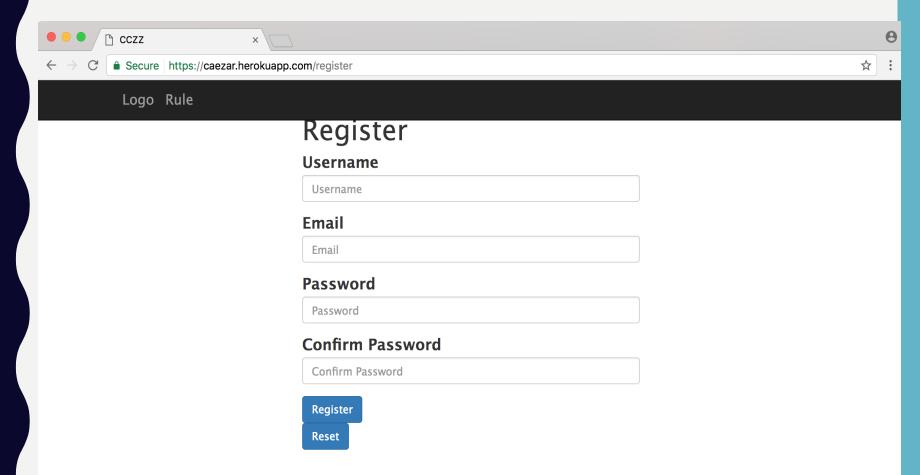
PROJECT OVERVIEW

- •Users need to register or log in to enter the game lobby.
- •Users can create or join in a game room from the lobby to begin a game with friends.
- Users can view their profile after log in.

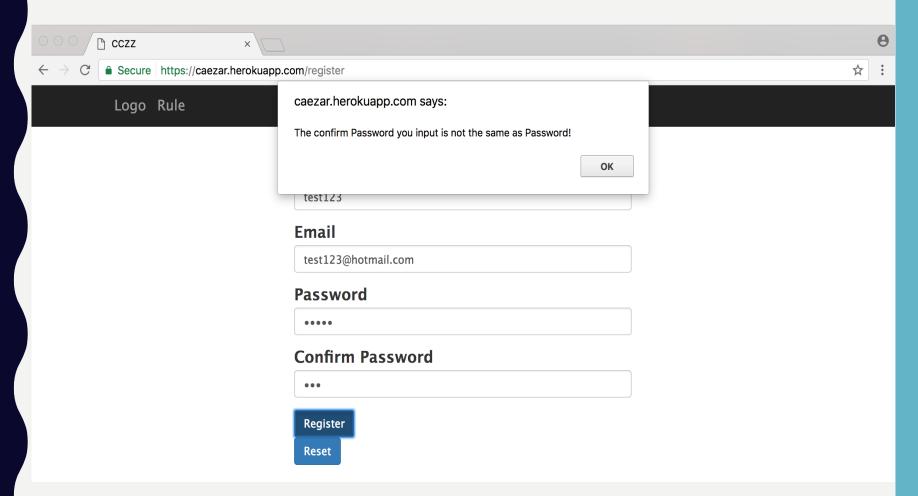
DATABASE DIAGRAM



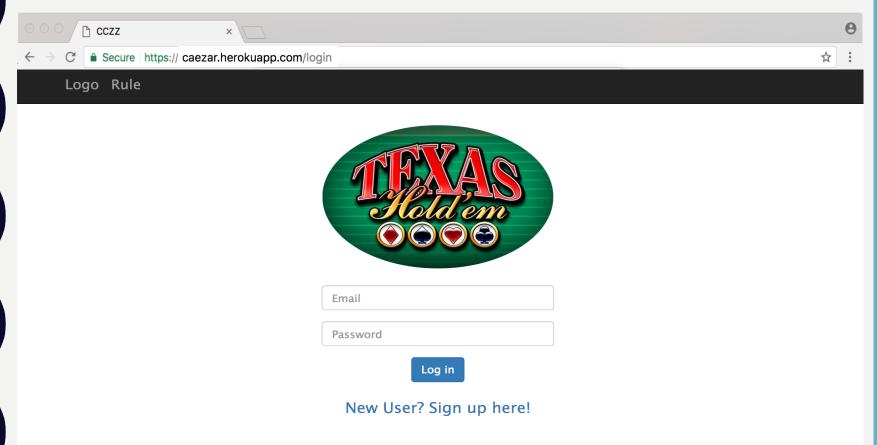
REGISTER



REGISTER



LOGIN/LOGOUT



LOGIN/LOGOUT

- Use session to check if a user logs in or not
 - If a user does not login, type https://caezar.herokuapp.com/game or https://caezar.herokuapp.com/lobby
 - will not lead to the corresponding pages.
 - will redirect to https://caezar.herokuapp.com/login

```
app.use('/', index);
app.use('/login', login);
app.use('/register', register);
app.use('/rule', rule);
app.use(function (req, res, next) {
   if (!req.session.user_id) {
      res.redirect('/login');
   } else {
      next();
   }
});
app.use('/lobby', lobby);
app.use('/game', game);
```

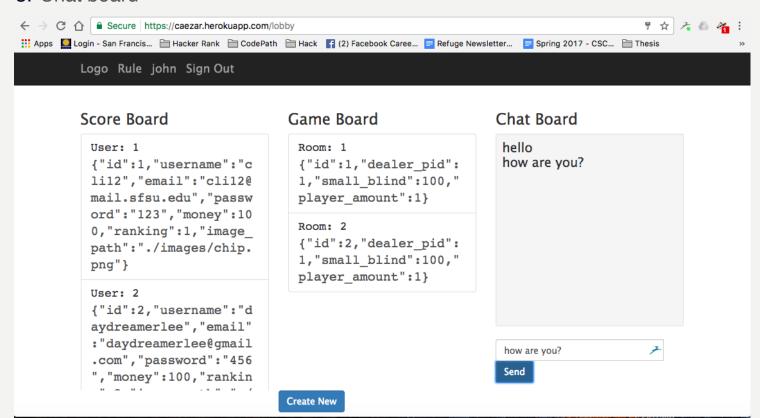
LOGIN/LOGOUT

- Store user information in cookies when user login
 - so that we don't have to send another request to server to get user information
- Destroy session and clear cookies when a user clicks on Sign out button

```
router.get('/', function (request, response) {
   request.session.destroy(function() {
      console.log("user logged out.")
   });
   response.clearCookie("email");
   response.clearCookie("user_id");
   response.clearCookie("username");
   response.redirect('/login');
});
```

LOBBY

- 1. Join room and create new room
- 2. \$ get
- 3. Chat board



LOBBY

- 1. Join room and create new room: use cookie to get user_id and room_id
- 2. All the data populated on this page is by using JQuery's \$.get method.

```
/*Fill the score board and room board*/
s.get("/api/rooms", function (data, status) {
  for (var i = 0; i < data.length; i++) {
     $('#rooms').append(listItem(data[i]));
}
};</pre>
```

1. Chat board: using socket to handle

Client-side:

```
/* Room message posted */
from the state of the stat
```

LOBBY

Server-side socket

```
const init = function (app, server) {
26
27
      const io = socketIo(server); // the websocket connection
28
29
      //app.set('io', io);//useless
30
31
      io.sockets.on('connection', function (socket) {
32
        /*socket on the message from the lobby*/
33
        socket.on('message', function (data) {
34
          io.emit( 'message-display', data );
35
          // console.log(data.data);
36
        }):
37
        /*socket on the message from the room*/
38
        socket.on('room-message', function(data){
39
          // console.log(data.roomid);
40
          socket.join(data.roomid);
41
          io.sockets.in(data.roomid).emit('room-message-display', data);
42
          // console.log(data.data);
43
        }):
```

GAME

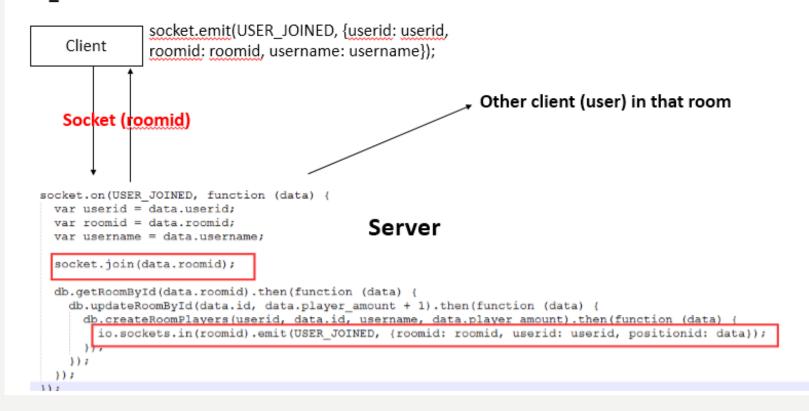
- Canvas
 - Name plate
 - Cards
 - Bet amount
- Form/submit
 - Action buttons



GAME

- 1.socket.io to handle the Client /Server communication (user-return, user-join, start-play, room-chat)
- 1. Use socket.io /room
 - a. Sokect.join
 - b. io.sockets.in(room).emit(...)

USER_JOINED



GAME

Canvas

- Name plate (user_join/user return
- Cards (start_play)
- Bet amount (update_game)
- Form/submit
 - Action buttons (trigger start_game
 - update_game)



CONCLUSION

 Features Implemented login/logout, register, user profile, chat, create/join a game, wait other players to begin the game, click play button to deal cards.

 Although we don't have time to finish all the other functions, we learnt a lot from building this project! That is the most invaluable experience to us.

FUTURE WORKS

We would like to finish other features and make this game work!

DEMO

Thanks for your time!