

## CIT 281 Project 5

### High Card Game

Jack Gose

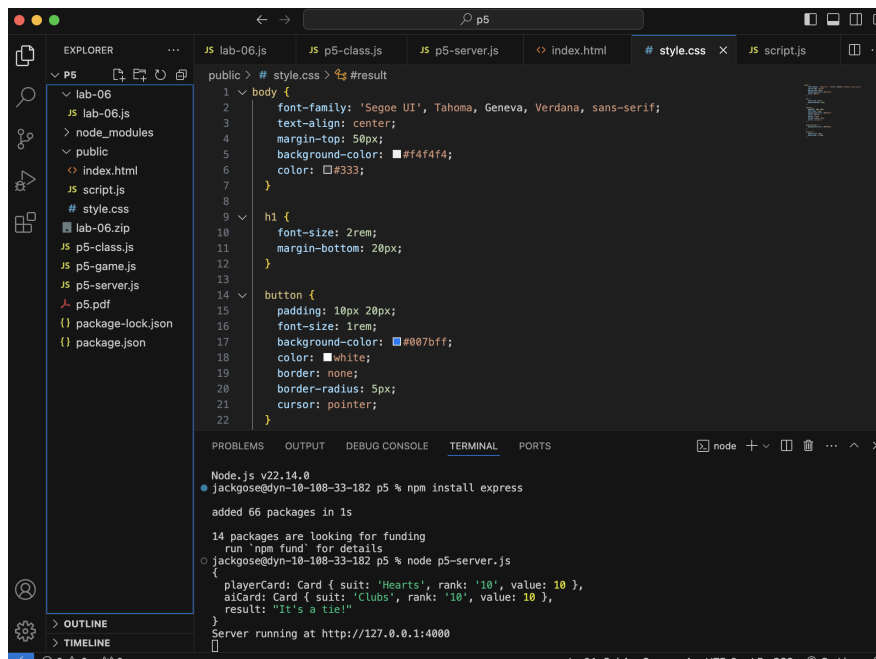
This project is a High-Card game in which the player draws a card against an AI opponent. The higher card wins, and the result is displayed on a webpage using a button that triggers the game. The backend is built with Node.js and Express, and the frontend is HTML, CSS, and client-side JavaScript.

I used ChatGPT to help me write and debug the Node.js, Express server, and client-side code. I asked for help creating the deck class, implementing the card draw logic, wiring up routes in Express, and building the frontend interaction. I also got help troubleshooting specific errors like “module not found” and testing the game logic. I used it to teach me the process step by step, not just by giving me instructions, but also by explaining what each command, line, and process does. It also helped check my work throughout the process to ensure I am on the right track.

#### Technologies Used:

- JavaScript ES6 Classes
- Node.js
- Express.js (server)
- HTML/CSS (frontend)
- Client-side JavaScript for interactivity

#### Screenshot 1: Terminal Output



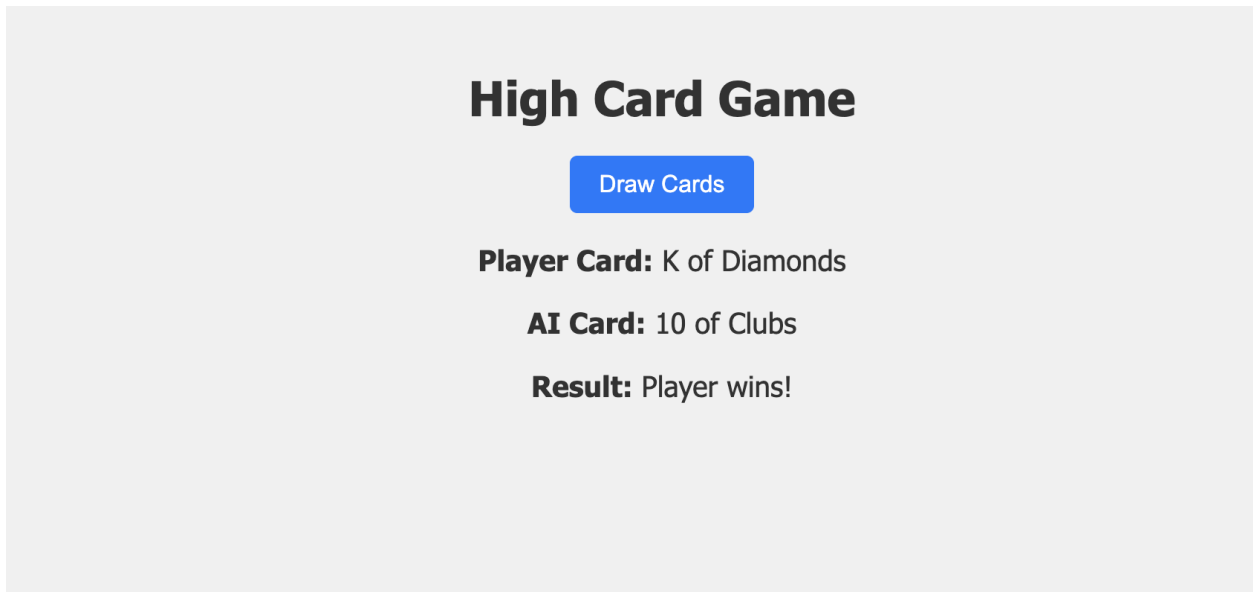
The screenshot shows a VS Code editor with a project named 'p5'. The Explorer sidebar on the left lists files: lab-06, JS lab-06.js, node\_modules, public, index.html, JS script.js, # style.css, lab-06.zip, JS p5-class.js, JS p5-game.js, JS p5-server.js, p5.pdf, package-lock.json, and package.json. The main editor area shows the 'style.css' file with the following content:

```
public > # style.css > #result
1 body {
2   font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
3   text-align: center;
4   margin-top: 50px;
5   background-color: #f4f4f4;
6   color: #333;
7 }
8
9 h1 {
10  font-size: 2rem;
11  margin-bottom: 20px;
12 }
13
14 button {
15   padding: 10px 20px;
16   font-size: 1rem;
17   background-color: #007bff;
18   color: white;
19   border: none;
20   border-radius: 5px;
21   cursor: pointer;
22 }
```

The bottom panel shows the Terminal with the following output:

```
Node.js v22.14.0
● jackgose@dyn-10-108-33-182 p5 % npm install express
added 66 packages in 1s
14 packages are looking for funding
  run `npm fund` for details
○ jackgose@dyn-10-108-33-182 p5 % node p5-server.js
{
  playerCard: Card { suit: 'Hearts', rank: '10', value: 10 },
  aiCard: Card { suit: 'Clubs', rank: '10', value: 10 },
  result: 'It's a tie!'
}
Server running at http://127.0.0.1:4000
```

Screenshot 2: Game Display



Screenshot 3: Alternate Result

