Web Assignment 2

Student Names/Numbers:

Danae Savvidi / 5457769

Ilias McAuliffe / 5481996

Group ID: CSE 2-34

2 - Client-side JavaScript

2.1) Plan of action:

- A game is started.
- Player waits to be matched to someone else.
- Possibility to cancel during waiting time.
- Match is found New game is started.
- Timer starts and two players compete to see who will finish first.
- If one player quits the game or closes the window their opponent wins and the game ends.
- When someone finishes first their opponent is informed and the game ends.
- To win players need to find all matching cards before the other player.

2.2) Use of design patterns:

We used a basic constructor pattern which saves the two players and the current state of the game. Every time two players are matched up, we create a new game instance.

3.3) WebSocket communication pattern between clients and server. Create a list of message types (e.g. game-start, game-move, player-type, abort-game, ...) and work out who (server, client-A, client-B) communicates it to whom:

Message Types:

1. Queued

Server sends it to client-A.

2. Game Start

Server sends it to client-A and client-B.

3. Join

Client-A or client-B send it to the server.

4. Leave

Client-A or client-B send it to the server.

5. Score Update from Client

Client-A or client-B send it to the server.

6. Score Update to Client

Server sends updated scores to the client.

7. Victory

Client sends it to server.

8. Loss

Server sends it to client.

9. Play Again

Client sends it to server.

10. Quit Game

Client sends it to server.

11. Game Finished

Server sends it to client.

12. Update Statistics

Server sends it to client.

13. Abort Game (Cancel)

Client sends it to server.