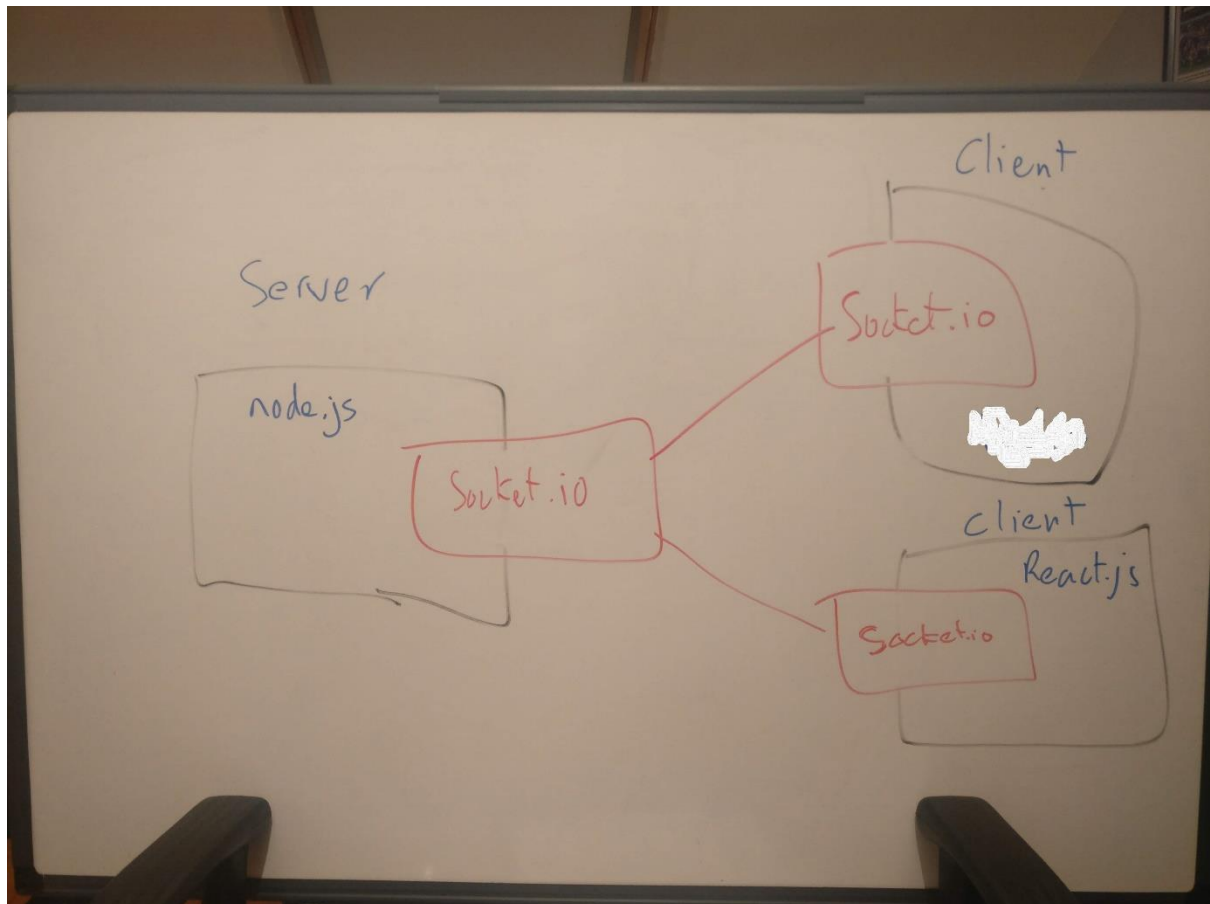Eoin Reilly

Project: Five in a row
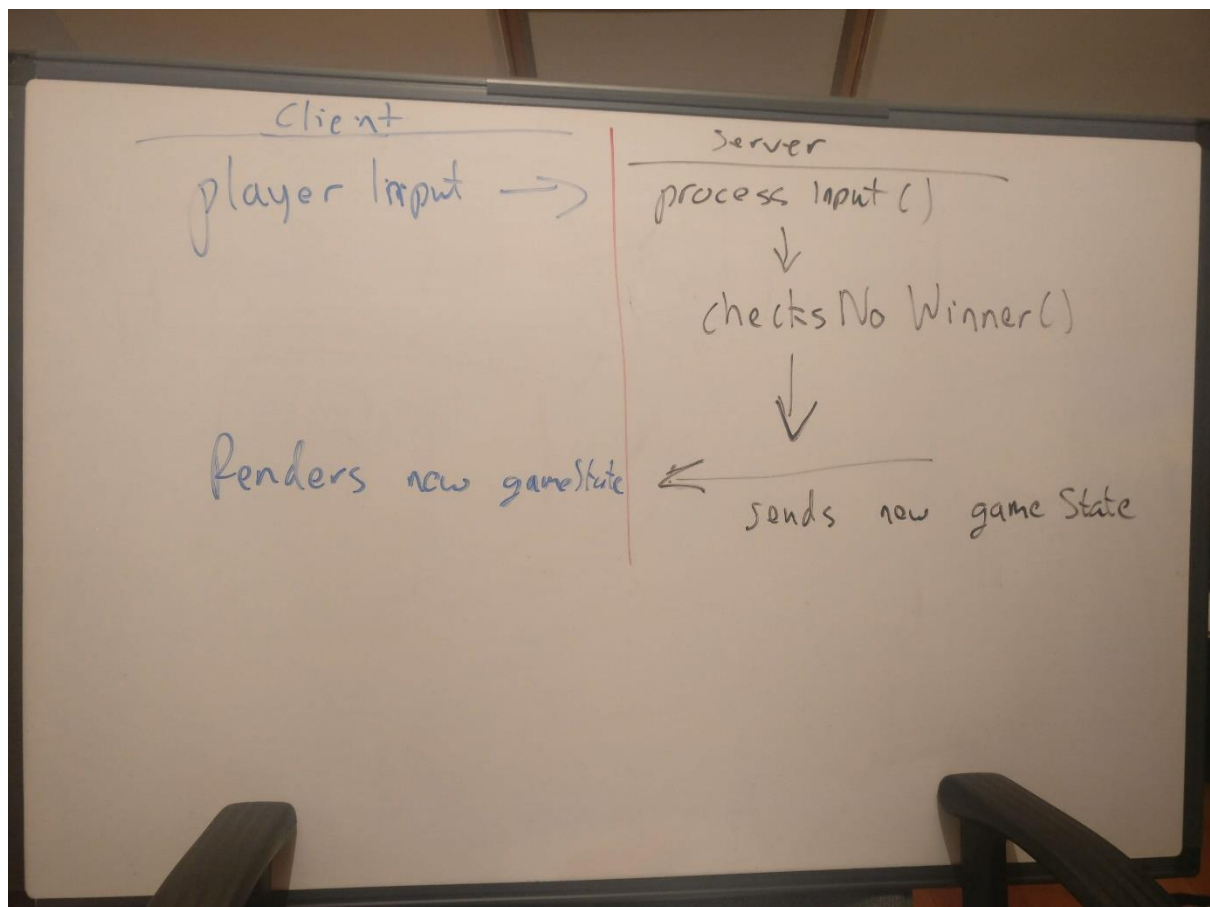
How to run:

- Npm install
- Npm run start
- Npm run client
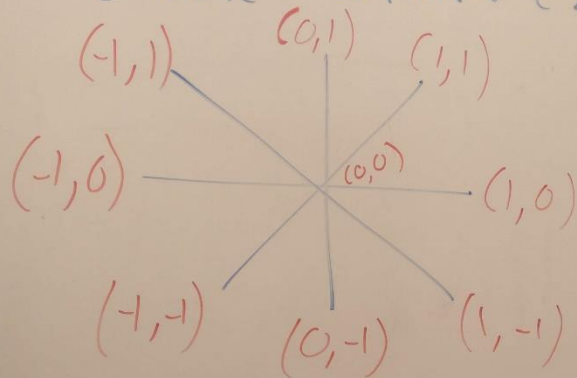
Architecture

Normal flow

check winner (x, y)

(-1,1)   (0,1)   (1,1)

(-1,0) —— (0,0) —— (1,0)

(-1,-1)   (0,-1)   (1,-1)
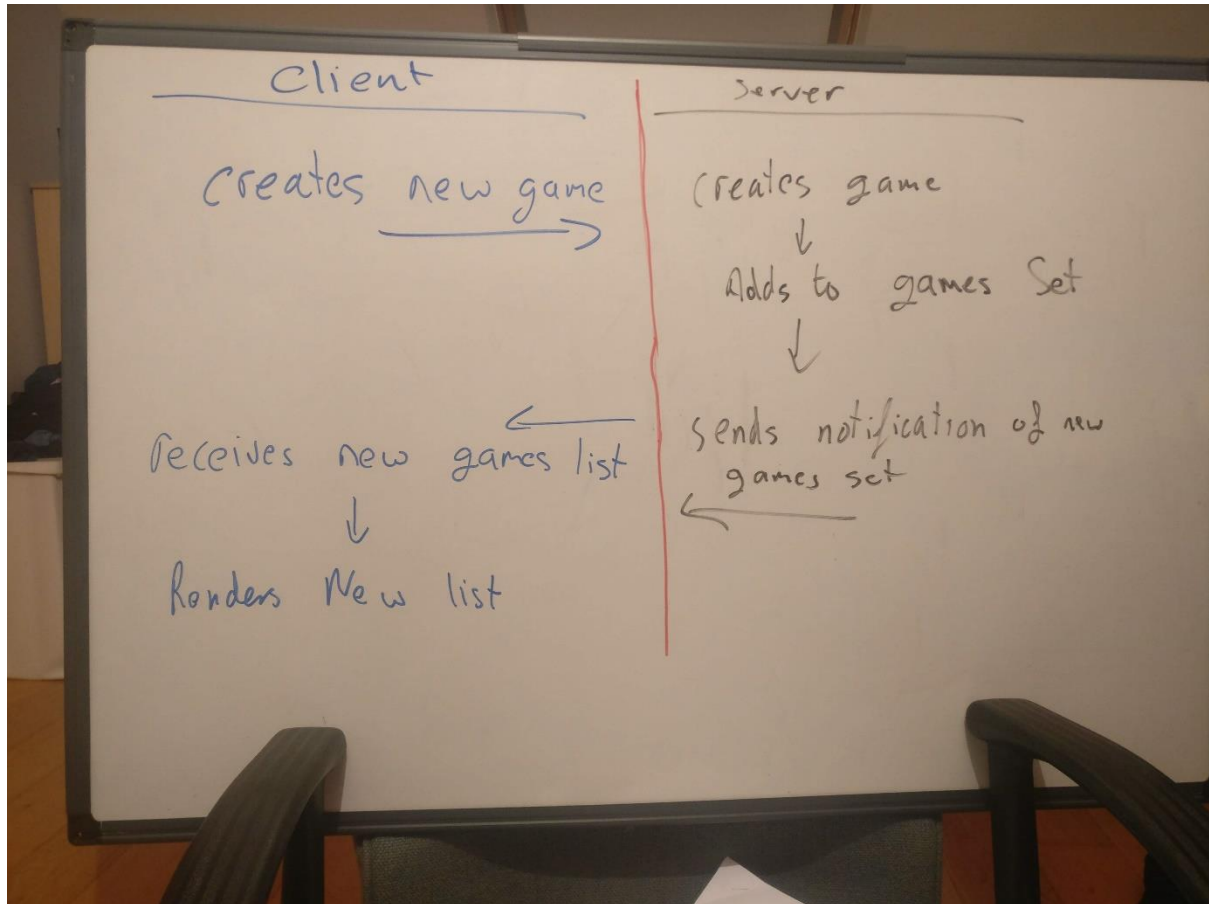
checks 5 boxes
in all directions

Server/Games.js

Add Game Flow

Technologies Used

- React,
  Why I selected react
    - I have a lot of experience working with react
    - Fast
    - Easy to program
- Socket.io
  Why I selected socket.io
    - I have a lot of experience working with socket.io
    - Full duplex
- Node.js – required

User interface

Log in form

Validates user input

- Checks user input is not blank (Won't submit request)
- Checks Username is not already in use (displays error message if it is)

Got a nickname?

Cool Username

Got a nickname?

kevin

User name taken

Lobby

- Displays user logged in
- Logout button
- List of Games that user can join (games not started, game starts once two players join)
- Create game option

Create Game

Game 1

jason

Choose a game!

Create Game

Game 1

jason

- In a game waiting for a second player before starting

Create Game   Game 3

Game 3

jason

Waiting for player to join!

Game Display

- Displays gameState
- Indicates who's turn it is

[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]

It's your turn kevin, please enter column (1-9)   Send

[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
[][][][][][][][][]
X [][][][][][][][][]

waiting for opponent to make their move   Send

Input Validation

- Check input blank (send button disabled if empty)
- Checks it is your turn (send button disabled if not)
- Checks input is a number between 1 – 9 (error message displayed as seen below)
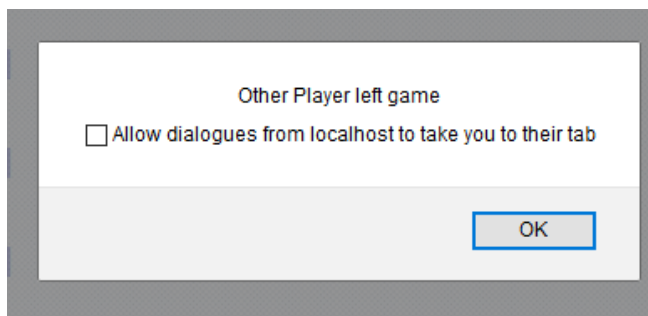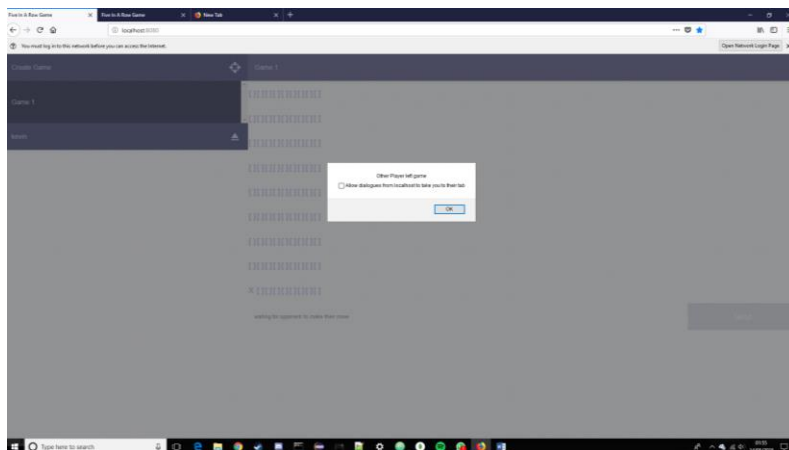
0
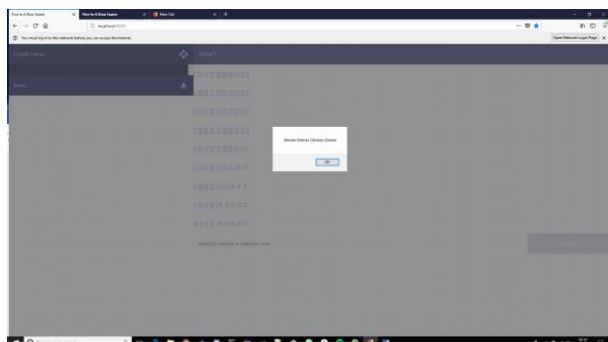
Send

It's your turn kevin, please enter column (1-9)

Invalid Selection, Please pick a Number Between 1 and 9

Game Conculsion

- Notifies user other player has left game (game then deleted)

- Notifies user on game outcome

Winner Winner Chicken Dinner

OK