Server Side

class User

- socketID: null
- +AcceptGame(user): boolean

class Game

- player1: new Player(nick)
- player2: new Player(nick)
- + isGameOn() ---> boolean
- + initGame()
- + setTurn(player)
- + isWon()
- + resolveGuess(user);

class Player

- gameID: Game object
- user: reference to user object
- opponent: null
- hitCount: number
- board: []
- + setOpponent(Player object)
- + initBoard(board)
- + getCellContent(index)

gameManager

- +class Game
- +class Player

games: {gameID: game object...}

I/O Router

- +ajax ---> users.getUserList()
- +socket.on("connection") ---> establishConnection()
- +socket.on("disconnect") ---> pauseGame()
- +socket.on("guess", {clickX, clickY, nick})
- +socket.on("acceptGame") ---> game.player.initBoard()*2
- +eliminateConnection()
- +registerGame(socketID1, socketID2)
- +socket.on("gamedRefused") ---> fwdDeclinedRequest(user)
- +AnnounceTurn(player) emits("turn") to player socket

Users Module

- -registeredUsers: {nick: {}, nick: {}}, nick: {}}
- +getUserList(registeredUsers)
- +addUser()
- +setOnline(user)
- +setOffline(user)
- +class User

Client Side

class Cell

-status: string

- x: num
- y: num
- + draw()
- + setHit()
- + setEmptyGuess()

class Board

- boardCells: [100 Cell objects]
- + drawBattleship(x,y, direction, length)

boardDrawer Module

- + class Board
- + class Cell
- messageBoard: object
- messageBoard.displayMessage(msg);

Game Manager Module

- localBoard: new board
- targetBoard: new board
- event listener: board.click
- validateCell(x,y, board)
- turn: boolean
- + initTargetBoard(board array);

Connection/Authorizarion Module

- + displayLoginWindow() (onLoad)
- + sendLogin() --> event listener on button sync
- + validateNick(nick)

User Input Module

- + getCellClicked() ---> returns {x:x, y:y} sync
- + moveShip(ship, x,y)

Server Communicator Module

- + on("GameRequest",(user)) --> emit true/false
- + sendRequest(user) ---> emit "GameRequest" (user)
- + Ajax getOnlineUsers();
- + connectUser() :socket.connect ---> sendLogin()
- + sendGuess(): emit("guess")
- + on("turn") --> Game Manager.turn = true;
- + sendReponse(response): emit("acceptGame") or emit("gameRefused")