Bright Subway Surfers: Harry Zhu, Andrew Piatetsky, Shinji Kusakabe, Brianna Tieu

SoftDev

Final Project

Target Ship Date : 2023-09-28

Roles:

- Server Side (handling clients): Andrew, Brianna, Harry

- Rendering/Front End: Shinji, Harry
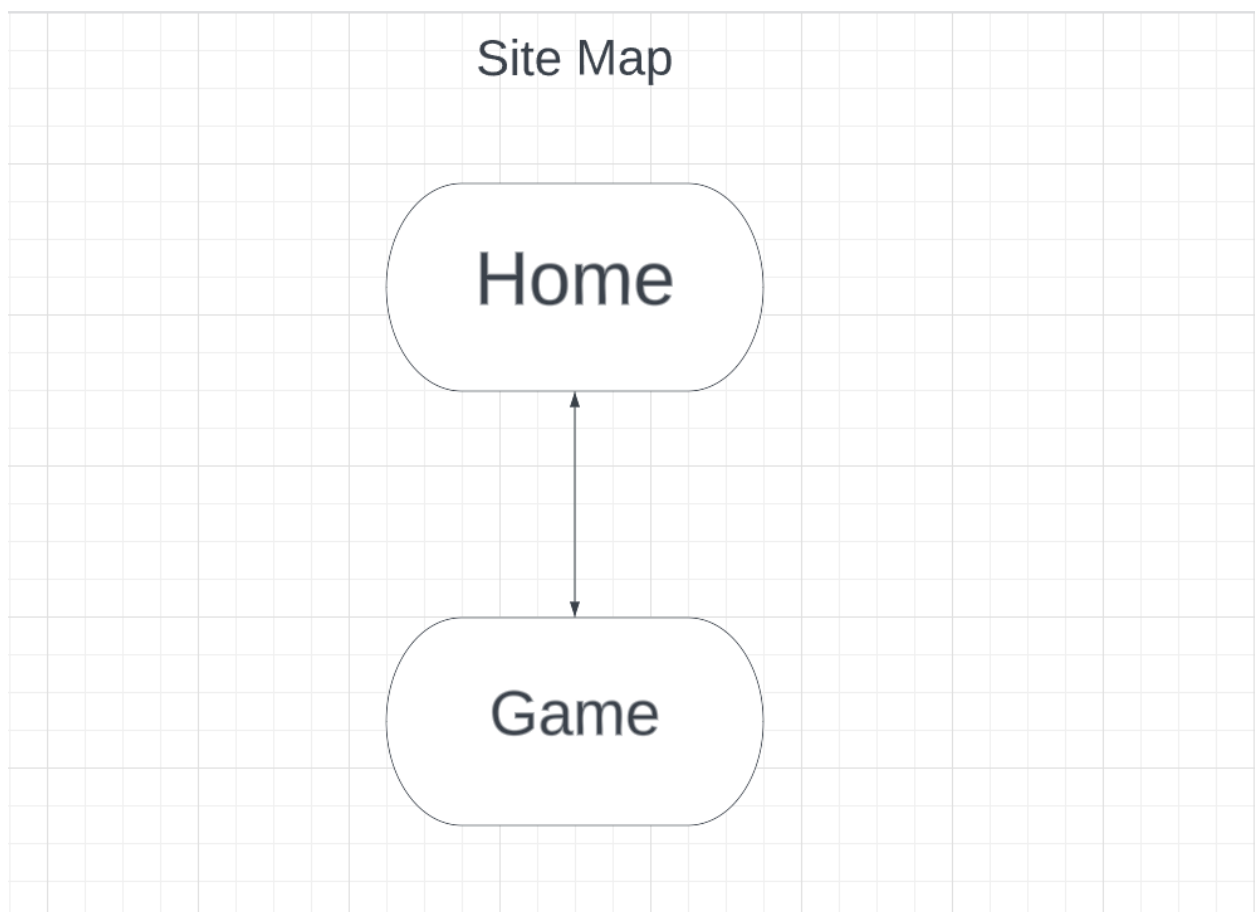
- Droplet: Andrew

Program Description:

- Game similar to the Google dinosaur run, however it is multiplayer and the characters are different colored monkeys. There will be a link given to each player who will then be able to invite a friend and race that other person. The player dies when they hit an obstacle or their character is stopped when they hit one and the first person to reach the end wins.

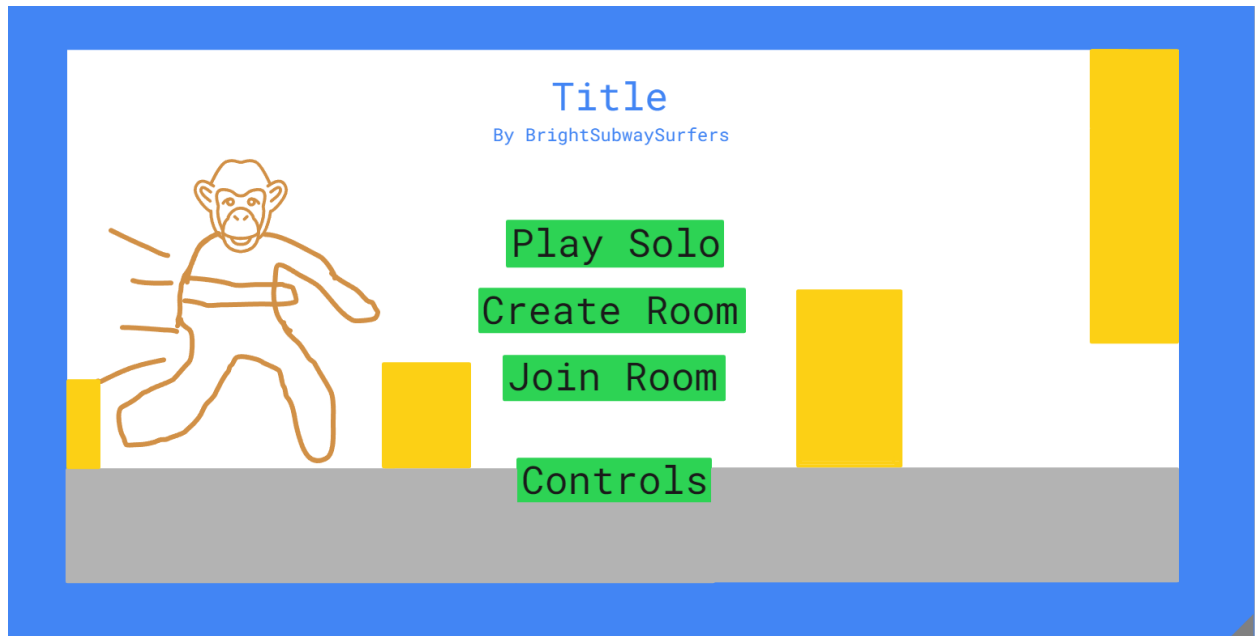- Users can interact with / alter other players' obstacles/path (stretch goal)

Program Components:

- **app.js:** app.js sets up the app server and handles its functionality

- **Routes**

  - **home.js:** defines the route for the home page

  - **game.js:** defines the route for the game page / where the game's real functionality comes in

- **Controllers**

  - **home.js:** handles the requests for the home page

- **game.js:** handles the requests for the game page

- **HTML**

    - **home.html:** provides users with a menu and a visual of our game, users can select between solo and multiplayer modes and choose to either create or join multiplayer lobbies, and learn the controls

    - **game.html:** where users can play the game, either solo or multiplayer mode

Site Map:

Site Map

Home

Game

Tools/Libraries/APIs:

- Node.js: Use it instead of flask for our app to run in real time without having to refresh the page

-Websockets: For faster/real time communication between player(s) and server.

Both are asynchronous, which is good for running our game quickly and smoothly as functions can run simultaneously and we don't have to request information from one side before pushing it from the other each time.

Front End Framework: Bootstrap

- Members have prior experience with Bootstrap

- Preferred stylistic elements

Sources

- Websockets: https://ws.ryanl.au/

  http://one-pager.ychan.tech

- Nodejs: https://fefifofaiza.github.io/

  https://legendaire1.github.io/

  https://don-bi.github.io/node-pager/