

**GamesMathCool: Yusha Aziz(PM), William Guo, Jeffrey Zou, Sebastian Ching**

**Due Date: June 13th, 2023**

## **V0 for GamesMathCool**

### **Description of Site/Goals:**

- We plan to create a site similar to CoolMathGames where users are able to play multiple single player games. Users will be able to select the type of game they want by clicking on the icon/name. There will also be a scorekeeper to keep track of the points and high scores that the user obtains when playing.
- Our group plans to utilize ChatGPT to help with the basic framework for certain games and see if it's able to create a fully functioning game. If not, we plan to use both the program itself to correct its own code as well as fixing it ourselves. The styling and design choices will be made by the group members.
- Games ideas:
  - Hangman and/or wordle
  - Connect four
  - Tic-tac-toe
  - Plants vs Zombies
  - Flappy bird
  - Snake
  - Pong

### **Program Component:**

- HTML/CSS/JS Scripting
  - Templates to be served to the Flask app
  - Login page
- Python Files
  - Flask app that runs the whole thing
    - Our web server and delivery framework
    - Utilizes database functions
- Backend databases
  - SQLite

### **Component Relations:**

- Login Page that redirects users to the homepage through a username and password
  - If not registered, allows users to register new username and password before entering homepage

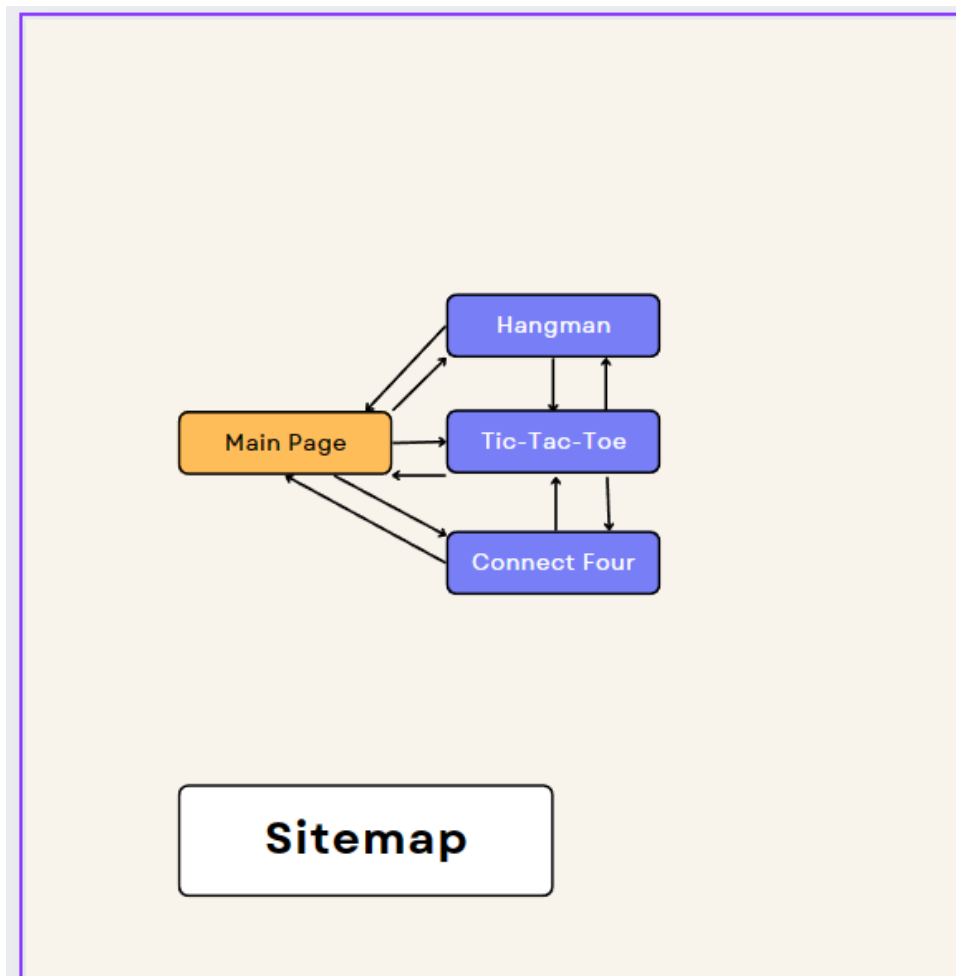
- Home page where it displays the user information as well as all the different icons of the games available
  - Icons will redirect user to the games page where they can play the game

#### Database Organization:

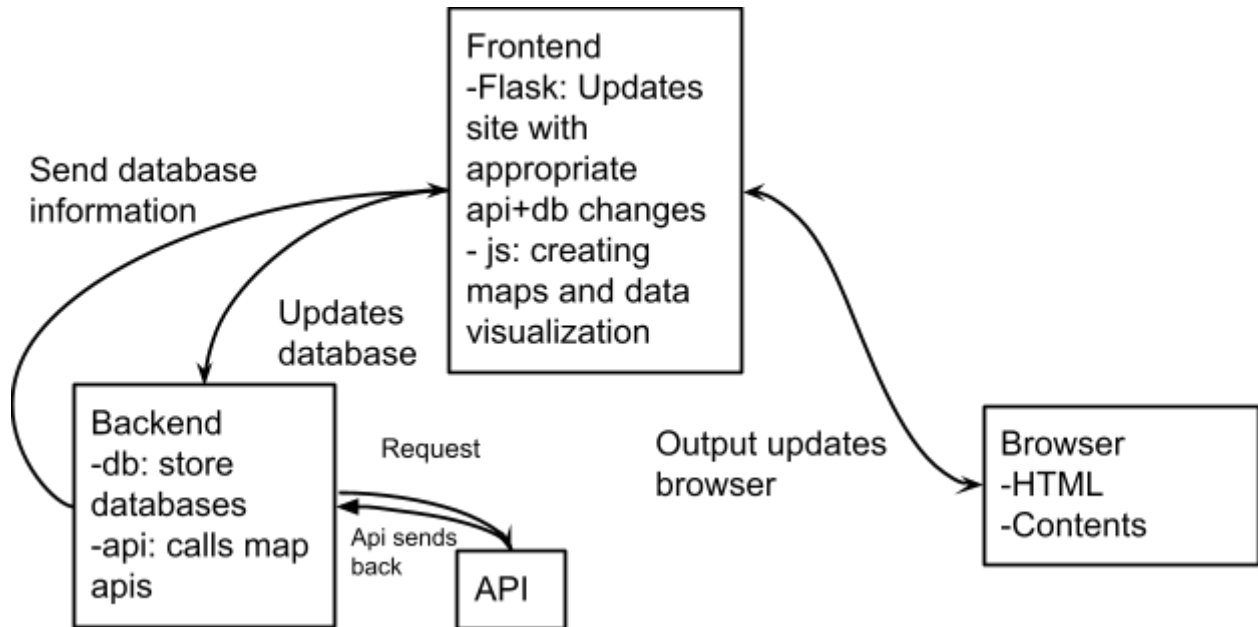
- Table with N rows for username and password and scores of each games

Username	Password	Snake	Pong etc
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#### Front-End Site Map:



### Component Map:



### APIs:

- <http://shibe.online/api> (maybe as profile pictures of users, each get a random picture of the animal)

### FeF Used:

Bootstrap because of its ease of use and its information documentation which allows us to creatively explore options for design. It also has lots of shortcuts and prebuilt styling that look appealing.

### Task Assignments:

- ALL: game creation
- Yusha: database
- William: front-end design (HTML/CSS/JS)
- Jeffrey: flask
- Sebastian: front-end, css design and stylization.