Jessica Yu, Kevin Lin, Tiffany Yang, Tracy Ye

GG (一it's cooked)

SoftDev

P02

2025-1-3

Time Spent:

Target Ship Date: 2025-01-17

Description:

We are replicating the game Crossy Road. Use WASD to cross the road with your chicken 🐓. Avoid getting run over by cars and hop between logs to avoid drowning. If you do either, GAME OVER!

As your character travels farther down the map, different difficulties will be offered that will modify the speed of the logs and cars. As the difficulty increases, you can gain more points.

Roles:

       Jessica (PM) - SQLite Database

       Tracy - Javascript
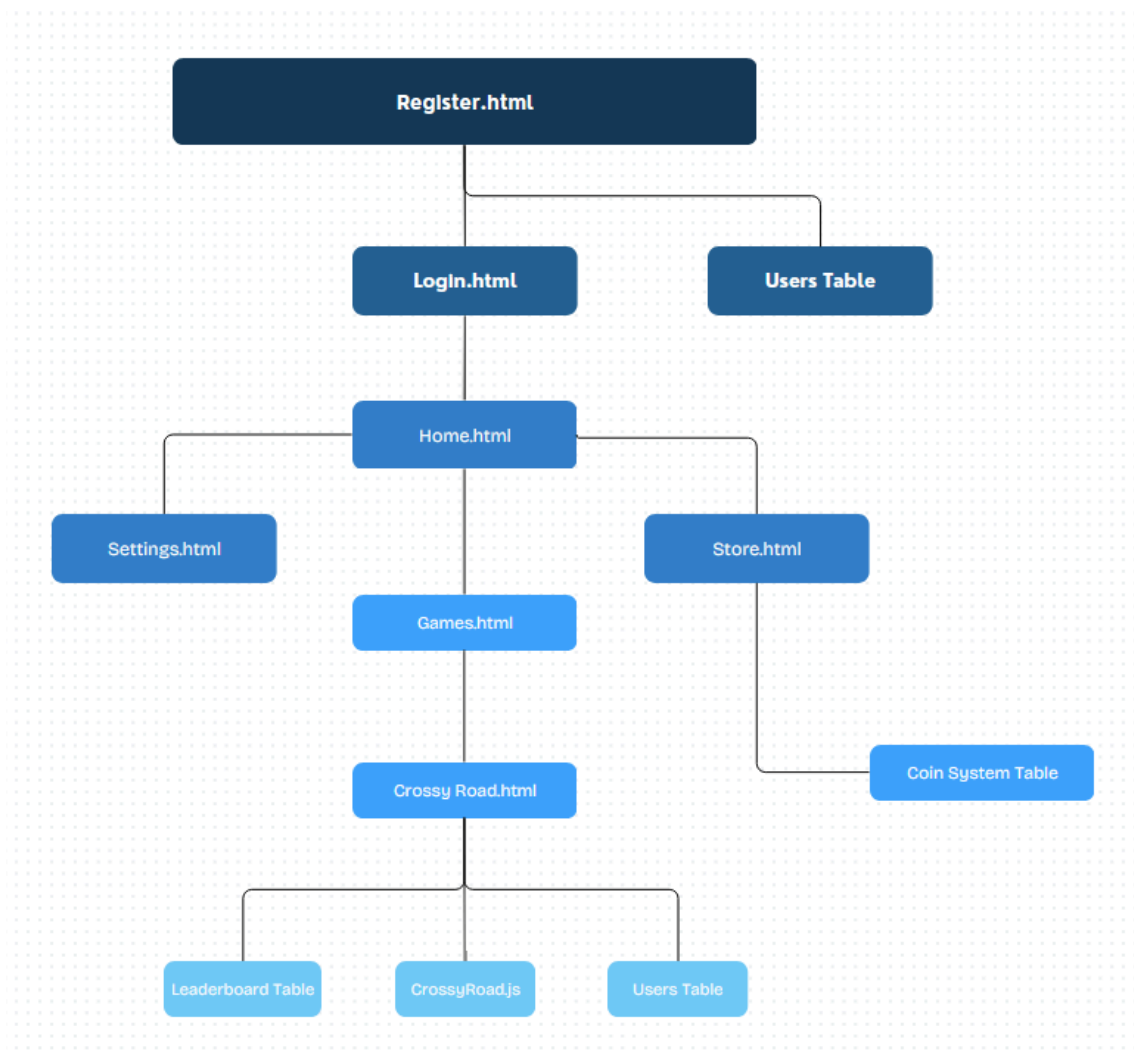
       Kevin - Javascript and Flask

       Tiffany - HTML & CSS (Design, Front-end)

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Components

- User Accounts
    - User Sessions/Login/Logout
- Flask Routes
    - Route to main page with Leaderboard/Themes
    - Route to Login/Logout Page
    - Route to Game Page
    - Route to Character Purchasing Page
        - Have the option to buy certain characters depending on how many coins you have
    - Route to Settings Page (music, leaderboard message, username, password)
- SQLite Database for storing user info
    - User(TEXT username, INTEGER userId, TEXT password, TEXT character, LIST unlockedChars, INTEGER coins, INTEGER highscore, TEXT musicPref)
    - Leaderboard(TEXT username, INTEGER points, TEXT message)

- Themes(TEXT username, TEXT theme, TEXT color1, TEXT color2)
- Javascript
    - Keyboard commands to control movement
    - Generate map whenever the chicken moves forward
    - Generate rivers and roads
- Front End Framework
    - Tailwind
        - Easy to use and already have experience
    - Music through html

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Component Interaction Map

Database Organization

Users

Username	UserID	Password	Character	Unlocked Chars	Coins	Highscore	MusicPref
TEXT	INTEGER	TEXT	TEXT	LIST	INTEGER	INTEGER	TEXT

*Stores basic user info

Leaderboard

Username	Points	Message
TEXT	INTEGER	TEXT

*Keeps tracks of points of users on leaderboard and displays every user's customizable message

Themes

Username	ThemeName	Color1	Color2
TEXT	TEXT	TEXT	TEXT

*Different theme options (ex: custom, normal, winter)

**Color1 = Grass color

**Color2 = Tree color

CROSSY ROADS BY GG	CROSSY ROADS BY GG
Register Login	Games / Settings / Store
Games BY GG Crossy Road	Home

Site Map:

Nav bar: (On all pages)
- Outgoing routes:
  - Home (/)
  - /logout

Register (register)
- Outgoing routes:
  - Login (/login)
  - Sign-Up (/signup)

Login (/login)
- Outgoing routes:
  - Home (/) if successful login

Sign-Up (/signup)
- Outgoing routes:
  - Login (/login) after account is made

Games (/games)
- Outgoing routes:
  - /crossyroads

Crossy Roads (/games/CrossyRoads)
- Outgoing routes:
  - Games (/games)

Settings
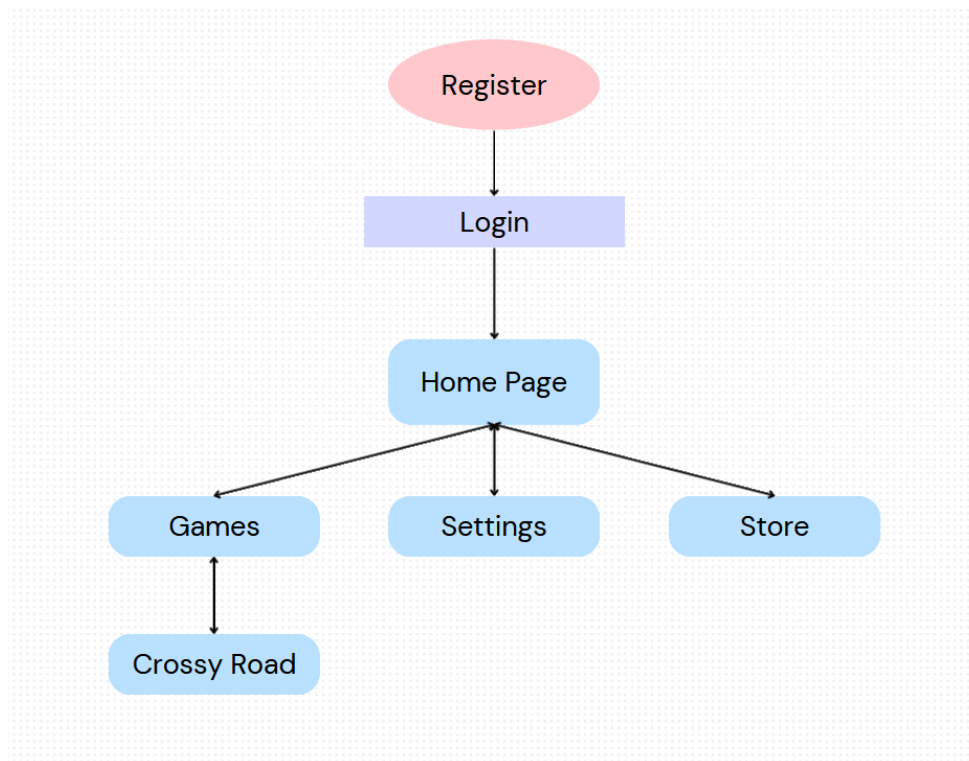- Outgoing routes:
  - Home (/)

Home (/)
- Outgoing routes:
  - Games (;/games)
  - Settings (/settings)
  - Store (/store)

Store (/store)
- Outgoing routes:
  - Home (/)

Site Map

SCRAPED IDEAS (may be used later if we have time)
- Space Shooter

  Description: ///
- Word unScramble Game

  Description: Get a random word from a dictionary, then we randomize the order of the letters
- Canvas/Painter

  Description: Paint then locally save the pictures

  Suggestion: Maybe we can display a random image that someone painted on the front page for every user and have them rate it
- Dinosaur Game

  Description: Jump or die