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Memory Math-O-Rama

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By: Areebah Iqbal CS 161 - Section 01



Table of Contents



01

02

Project Overview

Finished Features

03

Feedback and Long-Term Enhancements

04

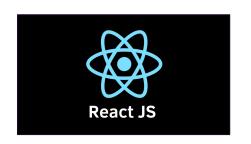
Demo of the Project



Project Overview

- Educational game designed to improve a user's arithmetic skills, while also boosting memory skills
- Users need to turn all the tiles green by selecting the tiles that correctly answer the questions
- Users will be timed and mistakes will be tallied
- Game statistics will be saved for logged in users
- Administrators can view accounts, delete non-admin accounts, and update non-admin users to admins

Project Technologies





Frontend: React and

Tailwind



Deployment:

Python Anywhere





Backend: Flask and MySQL

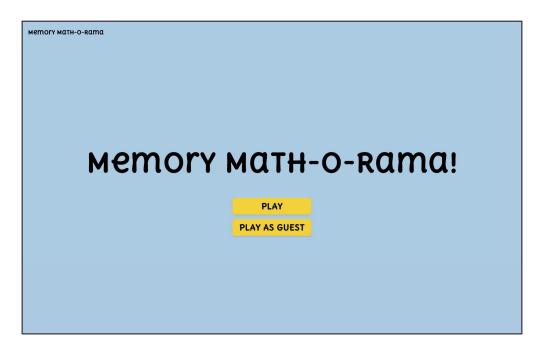
Finished Features

- Home Page
- Play as Guest Feature
- User Authentication:
 - Login, Signup, and Logout
 - Password Hashing
- Admin Page:
 - View all Accounts
 - Delete Non-admin Accounts
 - Update Non-admin Users to Admin

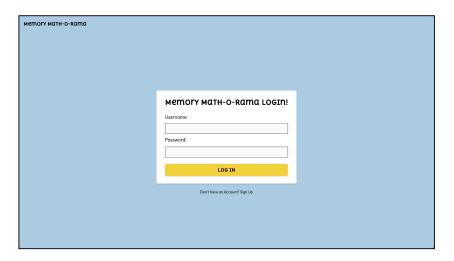
Game:

- Game Page Screen
- View Game Instructions
- Timer and MistakesCounter
- Hint Feature
- Solve Feature
- End Game Screen
- Save and Update User
 Statistics

Landing Page

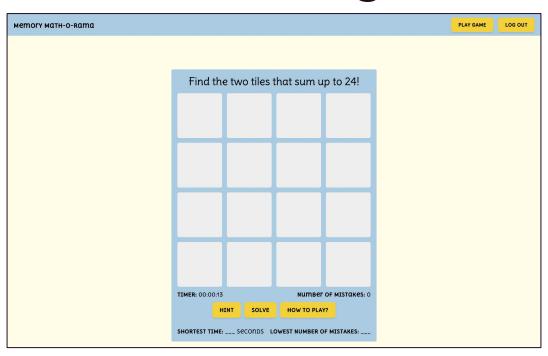


Login and Sign Up



метогу матн-о-ката	
	memory math-o-rama sign up!
	First Name:
	Last Name:
	Email:
	Username:
	Password:
	SIGN UP
	Already have an account? Login Here!

Game Page



Admin Page



Feedback and Long-Term Enhancements

- Professor Tsao: Add different levels of difficulty for the puzzle
 - In the long-term, I could add other levels that incorporate subtraction and multiplication
- **Farhia:** Add a scoring mechanism, so that a user can track progress over multiple games
 - In the long term, I could create an algorithm to generate a score
- **Gargi:** Add a Sign Up button on the End Game Screen for guest users to save user statistics
 - In the long term, I could that section to the End Game Screen
- My Long-Term Enhancements: Add game history section and limiting number of hints

Time for the Demo!

Deployed Link: http://aiqbal.pythonanywhere.com/



Thank You!

Any questions?

