



CS4530 Final Project

Sweng-A-Gotchi



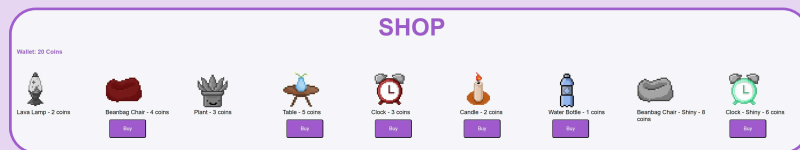
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Project Description

Our group was really interested in gamifying the Fake Stack Overflow app to make it more fun for users to interact with. From this we came up with adding in Tamagotchi-like pets for when users answer questions. Users can rename their pets using the edit pets page. We also wanted to add in a shop feature for user's to decorate their pet's Tamagotchi. Currency is gained through receiving upvotes by asking good questions.

In addition to getting pets and decorating their space, users can also interact with their pets. Clicking on them displays a textbox with a sound effect in it. Pets also get hungry over time and are fed through users answering questions. We also added a page that describes how to use and feed your pets to avoid confusion for new users.

This feature aims to give the user a direct reward for answering questions and asking good questions, enticing them to repeat that behavior.

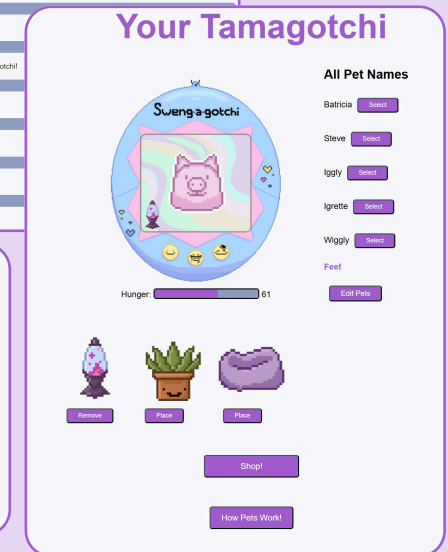
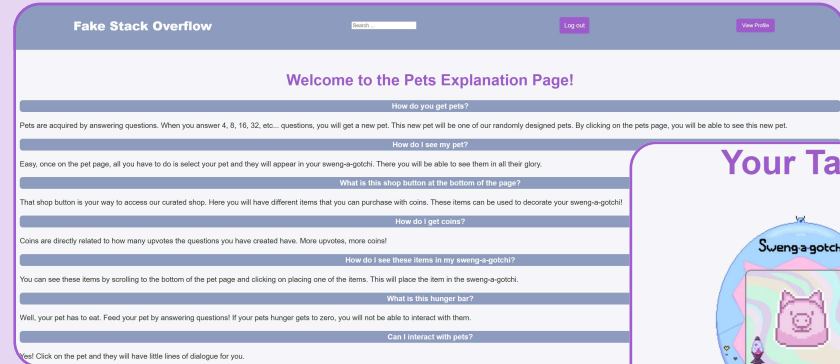


Wow!

Tech Stack & Design

We used Fake Stack Overflow as a base for our new feature, making changes to the user service and definition classes to track information like: questions answered, upvotes received, and items bought from the store. We made a new pet class type for this feature which handles most of the new functionality. Socket events occur when a pet is fed or when currency is gained through upvotes.

When a user first logs in and navigates to the pet page they will have no pets, which is reflected in a message displayed over the Tamagotchi. Once they answer enough questions and get a pet they can select them to display them in the Tamagotchi. Our frontend is deployed using React components. Our backend follows an object oriented approach using Typescript.



Future Work

Our team discussed multiple ways this work could be extended. We would like to add in more polishing features like interaction and feeding animations, utilizing libraries like Phaser. We also discussed adding more pet options and allowing the user to customize them even more through colors and outfit/accessory options.

Demo Site

Repository

