



Pantry Pal

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Problem Statement

Help users eliminate food waste and unnecessary clutter on social media by generating recipes based on their current items in their pantry, and allow them to post a picture

Tools and Technologies

- Django
- Python
- GCP
- OpenAI API
- Languages:
 - Python
 - JavaScript
 - HTML
 - CSS

MMF #1: Pantry Adding and Recipe Generation

- Add all food a user has on hand
- Generate recipes based on added food
- This allows users to make the most out of the food in their pantry by tracking its contents and using those to generate recipes to make.
- The OpenAI API was used to implement the recipe generation

MMF #2: Social Media Posting

- Users can post recipes they enjoy for all their followers
- This allows users to share their recipes and engage with their community
- It will also allow users to become exposed to even more recipes generated from other people's pantries
- The posts and friends lists are stored in the database to ensure a consistent experience with every login

MMF #3: Login and Register

- Create account to access features
- Allows for persistent data
 - Maintain friends, recipes, and pantry items between sessions
- Edit your account information on the profile page
- Follow your friends to see what recipes they are making on your feed

Team Effort Distribution

John - GPT Integration, Pantry Functionality

Garrett - Feed, User Auth, Following Functionality

Marc - Front End Design, ReadME File, Testing

Emma - Profile Functionality, Testing, Formatting

Sophie - UI/UX Design and Implementation

Eliza - UI/UX Design and Implementation

Design Patterns and Testing

- Unit testing using built in Django Functionality
 - Django TestCase
- Test to make sure instances of models are updated appropriately (white box)
- Manual regression testing
- Used Model-View-Controller pattern consistent with most Django apps
 - Model represents data structure, store and retrieve data
 - Controller handles communication between view and template

Demo Time...

<https://8000-cs-790367527784-default.cs-us-east1-pkhd.cloudshell.dev/feed/>