Recipe App Case Study

A Django
& Python Project

Patrick Kernan

pkernan18@yahoo.com
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Recipes

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Name	Ingredients	Cooking Time	Difficulty	Instructions
Patrick's Struggle Raman	Shin noodles, peanut butter, gochujang, garlic powder, onion powder, cheese	4 min	Medium	View Instructions
Mac & Cheese	macaroni noodles, milk, cheese	15 min	Intermediate	View Instructions
Spaghetti and Meatballs	spaghetti noodles, ground pork, tomato sauce	15 min	Intermediate	View Instructions
Pepperoni Pizza	pizza dough, pepperoni, cheese, tomato sauce, olive oil	30 min	Hard	View Instructions
Tea	tea leaves, water	2 min	Easy	View Instructions
Grilled Cheese	bread, cheese, butter	15 min	Intermediate	View Instructions

Challenge, Action, Result (CAR)

Challenge

I set out to build a simple yet functional recipe application where users could create an account, log in, and access a database of food recipes. The challenge was to apply my newly acquired skills in Python and Django to create a project that wasn't just a tutorial exercise, but something I could design, build, and expand upon myself.

Action

To meet this challenge, I learned the fundamentals of Django, including app structure, template rendering, URL routing, and form handling. I then applied this knowledge to incrementally build my own recipe app. Starting with a basic home page and recipe list, I expanded the app with login functionality, user registration, and recipe creation forms.

Result

The end result was a fully functioning recipe website where registered users can create an account, log in, and upload their own recipes to share with others. While the design is intentionally simple, the project serves as a strong foundation for my growth as a developer and demonstrates my ability to take an idea from concept to implementation.

Process Breakdown

Step 1: Learning the Basics

I began by learning the Django framework — setting up apps within a project, working with templates, and connecting URLs. This gave me the scaffolding I needed to start building a real project.

Step 2: Building the Foundation

I created a home page that displayed a list of recipes managed through Django's admin interface. This helped me understand how models, views, and templates connect.

Step 3: Implementing Authentication

To allow users to access recipes, I learned how to use Django forms to create a login page. This was my first exposure to integrating user authentication into a project.

Step 4: Expanding Features

With the basics working, I began planning additional features to make the app more interactive. The most impactful addition was creating a registration page so that new users could easily sign up with just a username and password.

Step 5: Enabling User-Generated Content

To make the app more dynamic, I added a recipe form where registered users could create and upload their own recipes. This turned the app from a static recipe list into a collaborative platform.

Retrospective

Building this recipe app was both a technical and personal milestone. It gave me practical experience with Django's ecosystem, from handling templates and URLs to implementing authentication and user-generated content.

The project also taught me how to approach development iteratively — starting with a simple foundation and gradually layering on functionality. Even though the current design is straightforward, I now see it as a launchpad for more ambitious projects.

Most importantly, the process gave me confidence. Learning how to solve problems, test my work, and build something functional from scratch left me with a strong sense of accomplishment. Going forward, I plan to iterate further by adding search functionality, recipe categorization, and improved styling to enhance the overall user experience.

Contact

For more projects, visit:
https://new-portfolio-site-sigma.vercel.app/
Email: pkernan18@yahoo.com