

Project Proposal: Personal Recipe Manager

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| Tech Stack | Back-End: Python (Flask), PostgreSQL, SQLAlchemy. Front-End: JavaScript, HTML, CSS, and Jinja for templating. |
| Focus | The project will be a full-stack application with a focus on the back-end. <ul style="list-style-type: none">• Back-end will handle data storage, user authentication, recipe management, supporting data management and integration with external APIs.• Front-end will be designed to be user-friendly and intuitive, ensuring a seamless and engaging experience for users. |
| Type | The application will function as a web app. |
| Goal | The goal is to provide users with an easy way to learn, manage and share recipes to enhance their cooking experience. |
| Users | The app targets cooking enthusiasts, and anyone looking to organize and share their favorite recipes |
| Data | Data sources: The app will utilize a recipe API, such as Edamam or Spoonacular, to fetch recipes and nutritional information. Data to collect: The application will collect data through API requests to retrieve recipe information and enable users to submit their own recipes. Collection method: API requests |

Database Schema:

- [Users]: Stores user credentials and profile information.
- [Recipes]: Contains recipe details, including title, ingredients, instructions, and associated user ID.
- [Categories]: Categorizes recipes into breakfast, lunch and dinner.
- [Comments/Ratings]: Allows users to add comments and ratings to recipes.

API Issues: Potential challenges I may encounter is handling API response errors when fetching data from Edamam and/or Spoonacular, managing unexpected user input and user-generated content, and having proper data validation throughout the app.

Sensitive Information: User credentials and personal data will be securely stored, with passwords encrypted using recommended methods to protect those data.

Functionality:

- User login and registration.
- Ability to add, edit, and delete recipes.
- Search functionality with filters based on category or ingredients.
- A section for user comments and ratings on each recipe.

User Flow:

- Sign Up/Login: New users can create an account, while existing users log in to access their personalized recipes.
- Add Recipes: Add new recipes with instructions and images as long as they are logged in.
- Search and Filter: Search for recipes based on categories or ingredients.
- Comment and Rate: Users can leave comments and ratings on recipes.

Stretch Goals:

- Implement social sharing features that allow users to share their favorite recipes on social media platforms.
- Add a method to create shopping lists for users based on the recipe select.