



Software Requirements Specification

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Description of Problem:

OnTheHouse is a recipe-based web service that allows a user to search for recipes based on available ingredients. Users can register for accounts, upload their own recipes, add friends, and sort recipes by characteristics such as type of meal, food ethnicity, or type of meal.

Solution / Product Overview:

OnTheHouse is a website where users can create profiles, add other users as friends, search for recipes with various filters, and add their own recipes with images, a list of ingredients, and other details.

Focus:

Our design focus for OnTheHouse is to create a simple website with a focus on functionality. By using simple system components, we aim to keep the service speedy while still satisfying all requirements.

System Overview:

Language: Python

Web framework: Flask

Database: SQLite

Functionality:**User accounts:**

- Ability to create profiles with user ID, profile name, secure password, profile image, and biography
- Ability to log in and out of profiles using profile name and password
- Ability to edit profile name, password, profile image, and biography of an existing profile (cannot edit user ID)

Recipes:

- Users can publish their own recipes with a descriptive blurb, instructions, and images
 - Recipe will have a “main” image displayed on its page as well as a gallery of images
- Recipes can be edited and deleted by the author.

Search:

- Ability to search for recipes, filtered by keywords, ingredients, etc.
- Premade lists of search filters for common queries.

Ingredients:

- Hierarchical tag system for advanced filtering by specific attributes of ingredient
 - For example, filtering by a vegetarian diet would exclude recipes with ingredients with the “meat” tag.