

Team 9 Project Charter

Chef Impastable

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Problem Statement:

Many people living alone may find preparing food to be an overwhelming ordeal. We are striving to make cooking easier for those new to cooking through an easy to use web application which takes what is in your pantry and recommends meals accordingly. While other recipe recommendation applications exist, none incorporate a depth of unique features that Chef Impastable does in addition to recipe suggestions, such as an integrated shopping list, simplified meal prep, and a review system.

Project Objectives:

- Develop a website to function as a virtual cookbook that provides recipes to the user
- Develop customizable user profiles to save recipe preferences and dietary information and store in database
- Web scrape recipes from multiple websites on the internet to add to database
- Implement a machine learning algorithm to provide recipes and create shopping lists based off of owned ingredients and recommended recipes
- Create a system to allow users to determine necessary additional ingredients (shopping function)

Stakeholders:

Users: People who want to learn to cook such as university students and young adults

Developers: Carmen Del Mastro, Kendalyn Fruehauf, Jiahui Huang, Mahima Malhotra, and Sarah Wagler

Project Manager: Aryan Wadhwani

Project Owners: Carmen Del Mastro, Kendalyn Fruehauf, Jiahui Huang, Mahima Malhotra, and Sarah Wagler

Project Deliverables:

1. A front end web application in React JS which allows the user to use various features such as inputting ingredients into their fridge, creating shopping lists, and maintaining a user profile.
2. A Node JS and Express JS backend that manages user information through APIs.
3. A MongoDB database that stores recipes and user data.
4. Use KNN as the machine learning model for both of our recommendation systems: one where the user inputs what they have in their fridge/pantry and one where the user inputs what they wish they could make and knows they will have to go grocery shopping once they get the recommended recipe.