Alpha Presentation
AI Recipe Converter

The Capstone Experience

Team Whirlpool
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Project Overview

• Simplify user cooking experience by providing machine assisted cooking
• Recipes from popular cooking websites are converted to a machine-understandable format
• Users access a website to convert these recipes and make any changes
System Architecture

- Python NLP Parser and Converter
- Python Web scraper
- Recipe Websites
- Whirlpool App
- Whirlpool

Database
- MongoDB

Server
- Node.js
- Express

API

Front-end
- Angular

Smart Devices
- Whirlpool

User Devices
- Computer
- Mobile Phone
List of Recipes
Adding a Recipe

![Recipe Converter Screenshot]

**Add a Recipe**

- **Link to Recipe**
  - [https://www.yummly.com/recipe/Jollof-Rice-2249034](https://www.yummly.com/recipe/Jollof-Rice-2249034)

- **Or Manually Add**

**Add Recipe**

**New Recipe**
Viewing a Recipe

Tagliatelle Bolognese

Main Dishes  Italian  Low Sugar

Description
This iconic dish is quintessential Italian grandma food. You’ll slowly build complex flavors from your finely-diced soffrito, a triple-threat of beef, pork, and pancetta, and umami-rich tomatoes.

Total Time
1 hour 20 minutes

Start Cooking

Ingredients
• 2 rib celery
Editing a Recipe

Recipe Information

Recipe Name
Tagliatelle Bolognese

Description
This iconic dish is quintessential Italian grandma food. You'll slowly build complex flavors from your finely-diced sofrito, a triple-threat of beef, pork, and pancetta, and umami-rich tomatoes.

Add Image

Category
Cuisine

Keywords
Main Dishes, Italian, Low Sugar

Add Keyword
What’s left to do?

• Finish the functionality of the website site
• Extend the web scraper
• Improve NLP
  ▪ Improve the accuracy of the NLP model
  ▪ Get parser to identify ingredients in recipe steps
• Test cooking a recipe on a Whirlpool smart cooktop
Questions?