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

Database

Server

API

Front-end

Angular

Recipe Websites

Whirlpool App

Smart Devices

User Devices

Python Web scraper

Server

API

Recipe Websites

Whirlpool App

Smart Devices

User Devices

Whirlpool

Whirlpool

Whirlpool

Whirlpool

Yummly

allrecipes
List of Recipes

[Images of a website and a smartphone displaying recipes]
Adding a Recipe

![Recipe Converter](https://www.yummly.com/recipe/Jollof-Rice-2249034)

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

- Or Manually Add
  - [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?