



RecipeCollector

Course Mini Project, Computational Gastronomy (BIO544), IIIT Delhi (Monsoon 2022)

*Rameez Raja(MT21067), Devanshi Gupta(MT21024), Mahvash
Fatima(MT21126)*

Brief Description:

A web application for crowdsourcing recipes from lay users.

Data Used:

Cubits - lists of units, ingredients, forms, processes, and utensils provided by **CoSyLab**.

Tech Stack:

1. **Framework and Runtime:** We made an ExpressJS-based web application with Node.js runtime.
2. **UI:** The UI is implemented using Embedded Javascript (ejs) templates styled using Bootstrap 4.
3. **Database:** The data is stored and retrieved from a MongoDB database at the backend.

GitHub Repository: <https://github.com/rameez03/RecipeCollector>

Deliverables:

1. The web application has two sections:
 - a. Add Recipe: to crowdsource recipes from the users and
 - b. Search Recipe: to search for the crowdsourced recipes based on title, ingredient, process, or utensil.

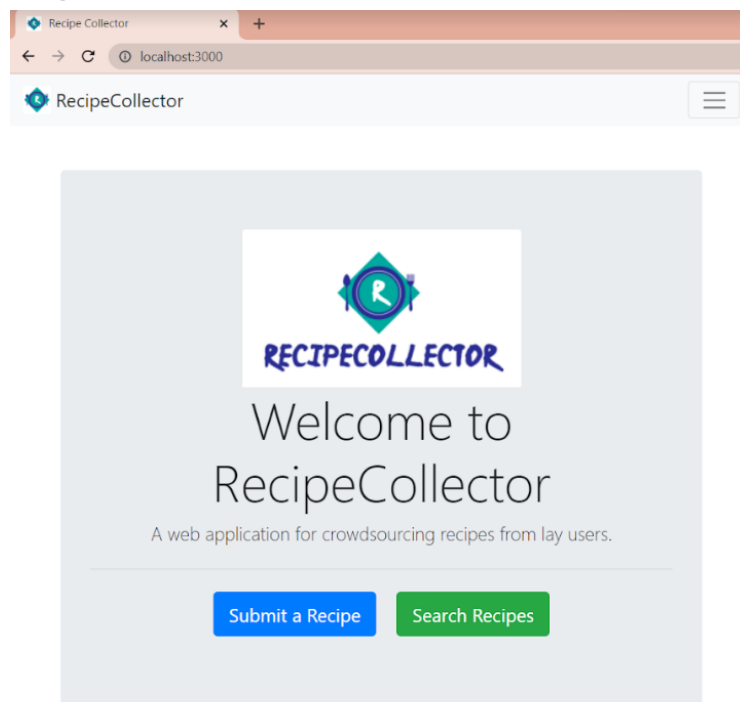
2. The recipe submission section allows users to enter ingredient phrases followed by instructions to cook the recipe, which will be stored in the database upon submission.
3. A single ingredient phrase will be collected as a quadruple {quantity, unit, ingredient name, form}.
4. An instruction is collected as a quadruple {process, ingredient, utensil, description}
5. The recipe search section provides functionality to search crowdsourced recipes based on title, ingredient, process, or utensil.

Future Work:

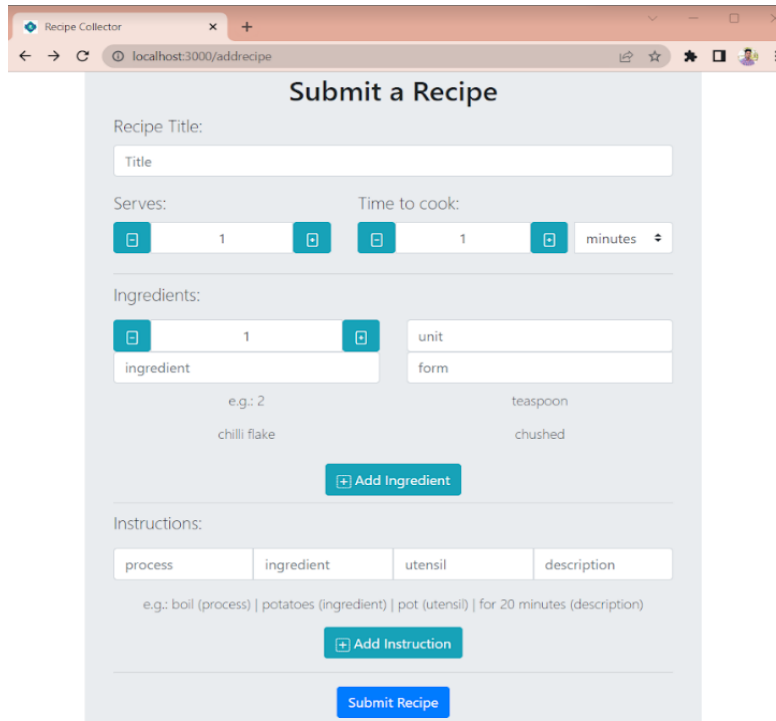
1. Ability to add multiple forms in a single ingredient phrase
2. Ability to add multiple ingredients in a single instruction
3. Search Filter based on whether the user wants query results to match exactly, start with or end with the search term
4. Ability to sort the search results based on title, ingredient, process, or utensil

Screenshots:

1. Landing page



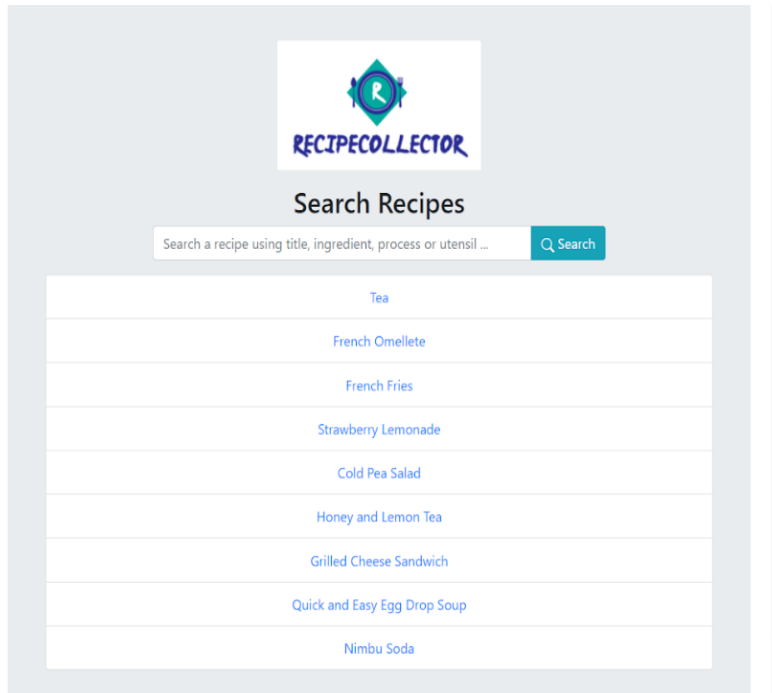
2. Recipe Addition



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/addrecipe'. The page title is 'Submit a Recipe'. The form includes the following sections:

- Recipe Title:** A text input field with the placeholder 'Title'.
- Serves:** A numeric input field with the value '1' and a dropdown menu set to 'minutes'.
- Time to cook:** A numeric input field with the value '1' and a dropdown menu set to 'minutes'.
- Ingredients:** A section with a numeric input field (value '1'), a text input field (placeholder 'ingredient'), a unit dropdown menu (value 'unit'), and a form dropdown menu (value 'form'). Below these are examples: 'e.g.: 2 chilli flake' and 'teaspoon chushed'. An 'Add Ingredient' button is located below the examples.
- Instructions:** A section with a table-like structure with headers 'process', 'ingredient', 'utensil', and 'description'. Below the headers is an example: 'e.g.: boil (process) | potatoes (ingredient) | pot (utensil) | for 20 minutes (description)'. An 'Add Instruction' button is located below the example.
- Submit Recipe:** A blue button at the bottom of the form.

3. Recipe Search



The screenshot shows a web browser window displaying the 'Search Recipes' page. The page features the 'RecipeCollector' logo at the top, which consists of a green diamond shape with a white 'R' inside, and the text 'RECIPECOLLECTOR' below it. Below the logo is a search bar with the placeholder text 'Search a recipe using title, ingredient, process or utensil ...' and a 'Search' button. Below the search bar is a list of recipe titles, each on a separate line:

- Tea
- French Omelette
- French Fries
- Strawberry Lemonade
- Cold Pea Salad
- Honey and Lemon Tea
- Grilled Cheese Sandwich
- Quick and Easy Egg Drop Soup
- Nimbu Soda

4. Recipe view



French Fries

Servings: 1 Time to cook: 40 minutes



Ingredients:

1. 500 gm potato peeled sliced
2. 2 tablespoon vinegar
3. oil
4. 1 pinch salt
5. 1 cup tomato sauce

Instructions:

1. add vinegar bowl in water
2. soak potato in the soaking liquid above
3. heat oil pan
4. dry potato after soaking
5. fry potato pan for few minutes till they turn golden brown

5. Navigation Bar

 RecipeCollector 

- Home
- Submit a Recipe
- Search Recipes
- About Us