



## The Mather Junior Front-End Developer Test: Salad Maker Application

### Overview

Welcome to the Salad Maker Application assignment! This assignment is designed to evaluate your ability to build a dynamic front-end application using Next.js. Your task is to create a simple salad recipe management app that allows users to view ingredients, create new recipes and manage existing recipes. You will create and use REST APIs to interact with the data.

### Objective

Build a Salad Maker Application with the following pages:

1. **Ingredients Page:** Display all available ingredients, categorized into vegetables, fruits, toppings, protein and dressing. Users can select ingredients to create a new recipe.
2. **Recipes Page:** Display a list of created recipes. Users can delete or edit recipes.
3. **Edit Recipe Page:** Allow users to modify the ingredients in a recipe.

### Requirements

1. **Framework:** Use Next.js with JavaScript. (TypeScript usage will earn extra points)
2. **Data Handling:**
  - Fetch all data from a REST API.
  - Create, update, and delete recipes using REST API requests.
3. **API:** You must create your own REST API to manage ingredients and recipe data by using the initial JSON file provided.
4. **State Management:** You can use React State Management or State Management Library, depending on your preference.
5. **Styling:** Use TailwindCSS to style according to the provided Figma design, including making it responsive.

### Application Functionality

1. **Ingredients Page:**
  - Fetch and display ingredients from the REST API, categorized into vegetables, fruits, toppings, protein and dressing.
  - Allow users to select ingredients and create a new recipe.
  - Submit button to "POST" the new recipe to the REST API.

2. **Recipes Page:**
  - Fetch and display the list of created recipes from the REST API.
  - Delete button to remove a recipe using a “DELETE” request to the REST API.
  - Edit button to navigate to the Edit Recipe Page.
3. **Edit Recipe Page:**
  - Allow users to increase, decrease, or remove ingredients from a recipe.
  - Submit button to update the recipe using a “PATCH” request to the REST API.

## **Deliverables**

1. **Code Repository:** Provide a link to a GitHub repository containing your Next.js assignment project.
2. **README:** Include a README file with setup instructions, a brief explanation of your approach, and any considerations or assumptions.
3. **API Documentation:** Include documentation for your REST API endpoints, detailing the request and response formats.

## **Evaluation Criteria**

- **Code Quality:** Clean, readable, and maintainable code.
- **Functionality:** The application meets all specified requirements.
- **User Interface:** Intuitive and user-friendly design with a responsive web application.
- **Bonus Points:** Use of TypeScript, efficient state management, and additional features or improvements.

## **Attachments**

- Figma design.
- Initial JSON file.

## **Submission Deadline**

Please submit your GitHub repository link by 7 days after receiving the test.

We understand that you may not have enough time to complete the entire requirements. Don't worry. You may as well do as much as you can. To show off your skills through this assignment. We look forward to reviewing your submission. Take your time, Good luck!

If you have any problems or have questions about the exam. Don't hesitate to contact us.