# CMPS 350 Web Development Fundamentals - Assignment # 5 Due Date Wednesday, May 17, 2022, @11: 59 PM

In **tastyApp** you implemented in Assignment 4, the backend managed data using json files and the client interacts with the server via Web API using fetch. In this assignment 5, you need to change the backend to manage data using **Prisma** and **SQLite** database instead of json files. Additionally, the existing user interface inside the public folder must be replaced with Web Pages using **Next.js**. The interaction with the server-side could use fetch or Server Actions.

#### **Preparation**

- 1. Sync cmps350-lab repo to get the assignment files. Open the **assignment5/tastyApp** project.
  - The project contains the complete implementation of assignment 4 with minor changes such as show and hide instructions.
- 2. Run **npm install** to install all the necessary packages.
- 3. Finally, **npm run dev**, then visit <a href="http://localhost:[PORT]/index.html">http://localhost:[PORT]/index.html</a> to see the application demo. Also check the following <a href="companion video">companion video</a>.

### PART A - Implementing the Database [40%]

In this part, you should define the data model and use Prisma client to implement **recipee-repo.js** repository to read/write to the app database. The repository should implement the same functionally as the file-based repository provided in the base solution. See the table below for further details.

Also, you should create **seed.js** that will initialize the database using the **data/recipes.json** file.

Note: You should NOT use any array function, such as **filter**, **map**, **reduce** etc..... to filter or **aggregate data**. You should use the **Prisma client methods** to get, filter, update, delete, and aggregate data. **Not** using Prisma functions will yield 0 for this part.

Method	Description
getRecipes(region)	Return all recipes if the region is either 'All' or not provided. Otherwise, it should return the recipes for the provided region.
getRecipe(id)	Return a recipe by recipe id.
addRecipe(recipe)	Adds a new recipe.
updateRecipe(recipe)	Updates existing recipe.
deleteRecipe(id)	Deletes a recipe by recipe id
deleteRecipes()	Remove all the Recipes.
getRecipesSummary()	The function returns the list of regions and their respective recipes. It should include the total number of recipes per region.

• Create <u>tasty-recipee-test.js</u> to test the <u>recipee-repo.js</u> using a main function or using Mocha and Chai. (see seed.js posted in the lab). You can also use the provided UI to test your app.

#### PART B - Implementing the UI using Next.js and React [60%]

In this section, you should replace the user interface implemented in the public folder with web pages using Next.js and React. The interaction with the server-side could use **Server Actions**. The app functionality should be the same as the base solution as shown in the images below. Additionally, you need to provide a UI to display the recipes summary.

Test your app UI to verify that all functionalities are working as expected.

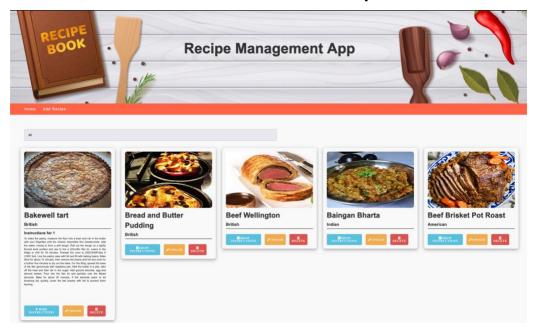
After you complete the Assignment, fill in the *TestingDoc-Grading-Sheet.docx* and save it inside the *Assignment-5* folder. Then, push your work to your GitHub repository.

#### 1. List recipes as cards



1

# 2. Show and hide instructions & Delete recipe



## Filter recipes by region



## 3. Add a recipe



# 4. Update a recipe



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