

Lesson 05: Generative AI Assisted Code Generation

Overview:

The project aims to leverage GitHub Copilot and Visual Studio Code to develop a simple recipe app using React, showcasing a variety of recipes. The app will utilize mock sample data or generated content to populate the recipes. Key features include a list page to display all recipes, a detail page for individual recipes, and the implementation of search functionalities for an enhanced user experience.

Instructions:

- Review the learning materials in lesson 5
- Carefully read the situation, task, actions, and result sections to grasp the assignment fully
- Complete and submit your assignment via the Learning Management System (LMS)

Situation:

In today's digital age, people often turn to online platforms for recipe ideas and culinary inspiration. However, many existing recipe apps can be overwhelming or lack user-friendly features. As a result, there is a demand for a simple and intuitive recipe app that provides easy access to a variety of recipes while offering functionalities such as search.

Tasks:

1. Set up the project
2. Create a basic UI for the recipe
3. Create sample data for the recipe app
4. Display recipes in UI
5. Add more recipes to the app
6. Generate card format for recipe details
7. Implement the search for recipes app

Action:

1. Set up the project in Visual Studio Code and GitHub utilizing npx and GitHub Copilot for code generation
2. Generate a basic user interface for recipe data using GitHub Copilot
3. Generate sample data using GitHub Copilot
4. Generate React code to display the recipes using the user interface
5. Generate a React code to add more recipes to the recipe app
6. Create the Recipe Detail Component to display detailed information about each recipe
7. Implement search functionality to enable users to search for specific recipes

Result:

The execution of the above actions demonstrates the effective utilization of GitHub Copilot and Visual Studio Code to develop a simple recipe app using React. By following the outlined tasks, the project successfully set up the development environment, created a basic user interface for displaying recipes, generated sample data, and implemented key features. This document will be submitted for evaluation via the Learning Management System (LMS) as per the provided instructions.

Rubric

Your submission will be evaluated based on the following key criteria, each representing a crucial aspect. These criteria are:

Criteria	Complete or Incomplete
Project Setup: Successfully set up the project in Visual Studio Code and GitHub, utilizing npx and GitHub Copilot	
UI Generation: Created a basic user interface for recipe data, either using GitHub Copilot or by manually creating sample recipes	
Sample Data Generation: Generated sample data for the recipe app using GitHub Copilot	
Recipe Display: Implemented React code to display recipes in the user interface	
Recipe Detail Component: Developed the Recipe Detail Component to display detailed information about each recipe	
Search Functionality: Implemented search functionality to enable users to find specific recipes	