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Assignment1- Mobile Programing

This file contains all required information about the application including the functionality, design, output and so on.

Overview

The Simple Recipe App allows users to select a recipe from a dropdown menu (Spinner) and view the corresponding ingredients and instructions. The app has a clean and colorful interface, enhanced with a gradient background.

Features

- **Spinner:** A dropdown menu that displays a list of recipes. Users can select a recipe to see its details.
- **Button:** A button that, when clicked, displays the ingredients and instructions for the selected recipe.
- **TextView:** Displays the details of the selected recipe dynamically based on user interaction.
- **Gradient Background:** A visually appealing gradient background enhances the overall user experience.

Project Structure

1. MainActivity.kt

This is the main activity of the app, which handles the logic for the Spinner, Button, and TextView.

Key Components:

- **Recipes, Ingredients, and Instructions Arrays:**
 - `recipes`: An array containing the names of the recipes.
 - `ingredients`: An array containing the ingredients for each recipe.
 - `instructions`: An array containing the cooking instructions for each recipe.
- **UI Initialization:**
 - Uses `setContentView` to link the layout XML file and initializes UI components: Spinner, Button, and TextView.
- **Spinner Adapter:**
 - An `ArrayAdapter` is created to bind the recipes to the Spinner.
- **Button OnClickListener:**
 - When the button is clicked, it retrieves the selected recipe's position and updates the TextView with the ingredients and instructions.
- **Spinner OnItemSelectedListener:**
 - Updates the button text to reflect the currently selected recipe.

2. activity_main.xml

3. drawable/gradient_background.xml

This drawable resource defines a gradient background that adds visual interest to the app.

Gradient Configuration:

- **Start Color:** #FFEB3B
- **End Color:** #FFC107

- **Angle:** 90 degrees (vertical gradient).

4. ic_launcher_background.xml

This file is used as the launcher icon's background. It defines the shape and color of the icon.

How to Run the App

1. Clone the Repository:

```
bash  
Copy code  
git clone <repository-url>
```

2. Open the Project:

- Open the project in Android Studio.

3. Build the Project:

- Make sure to sync the Gradle files and build the project to resolve dependencies.

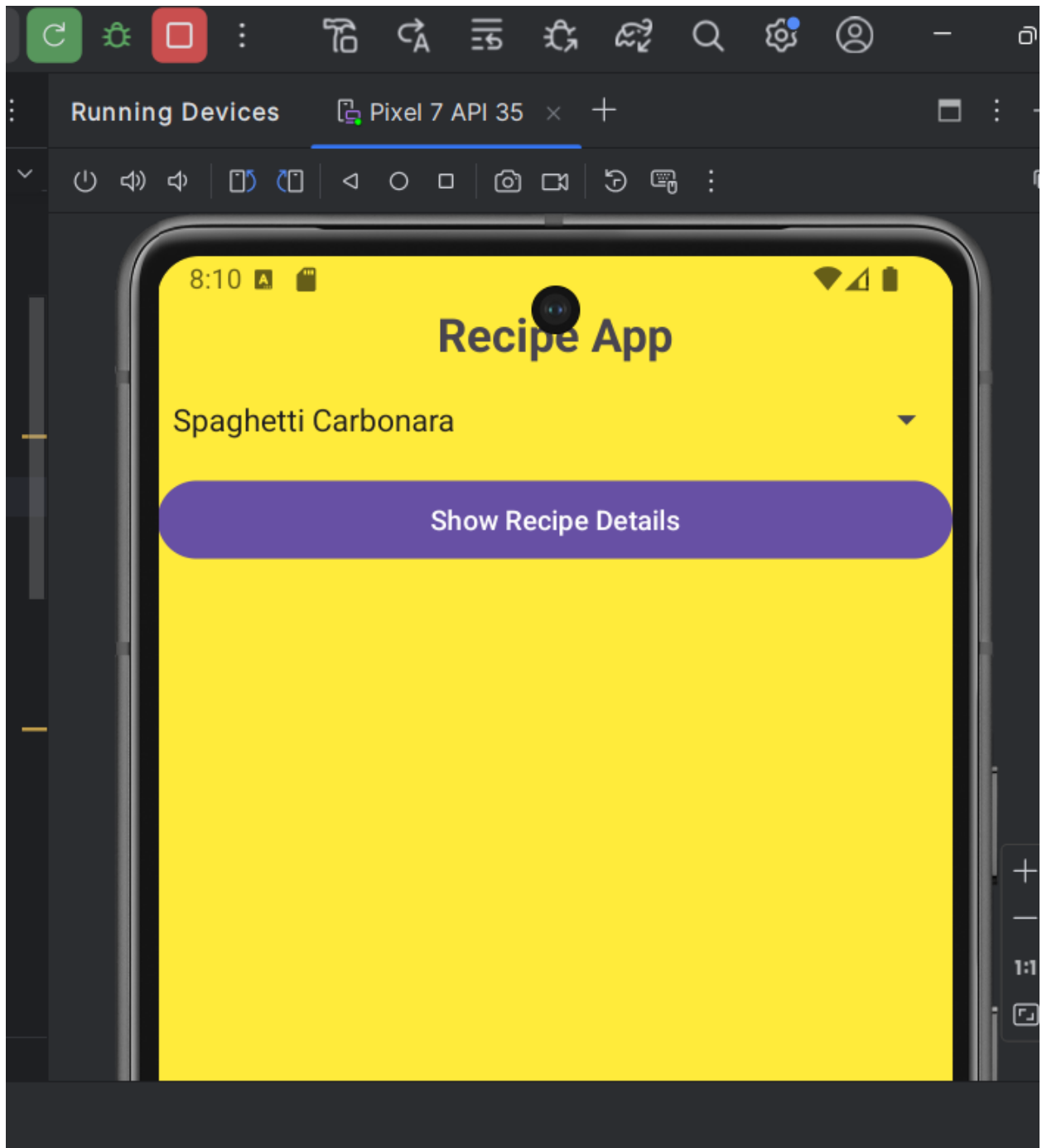
4. Run the App:

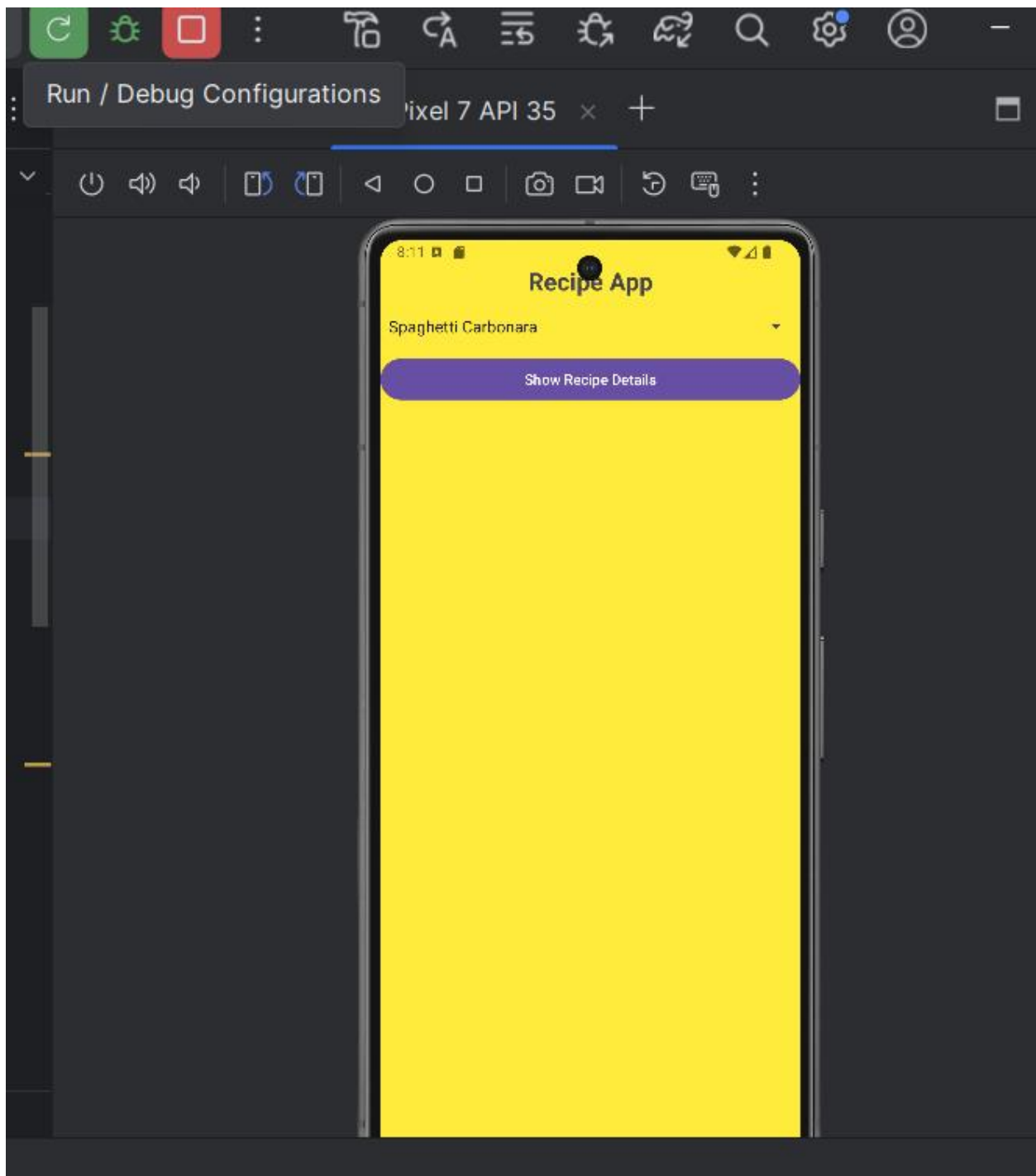
- Connect an Android device or start an emulator.
- Click the "Run" button in Android Studio.

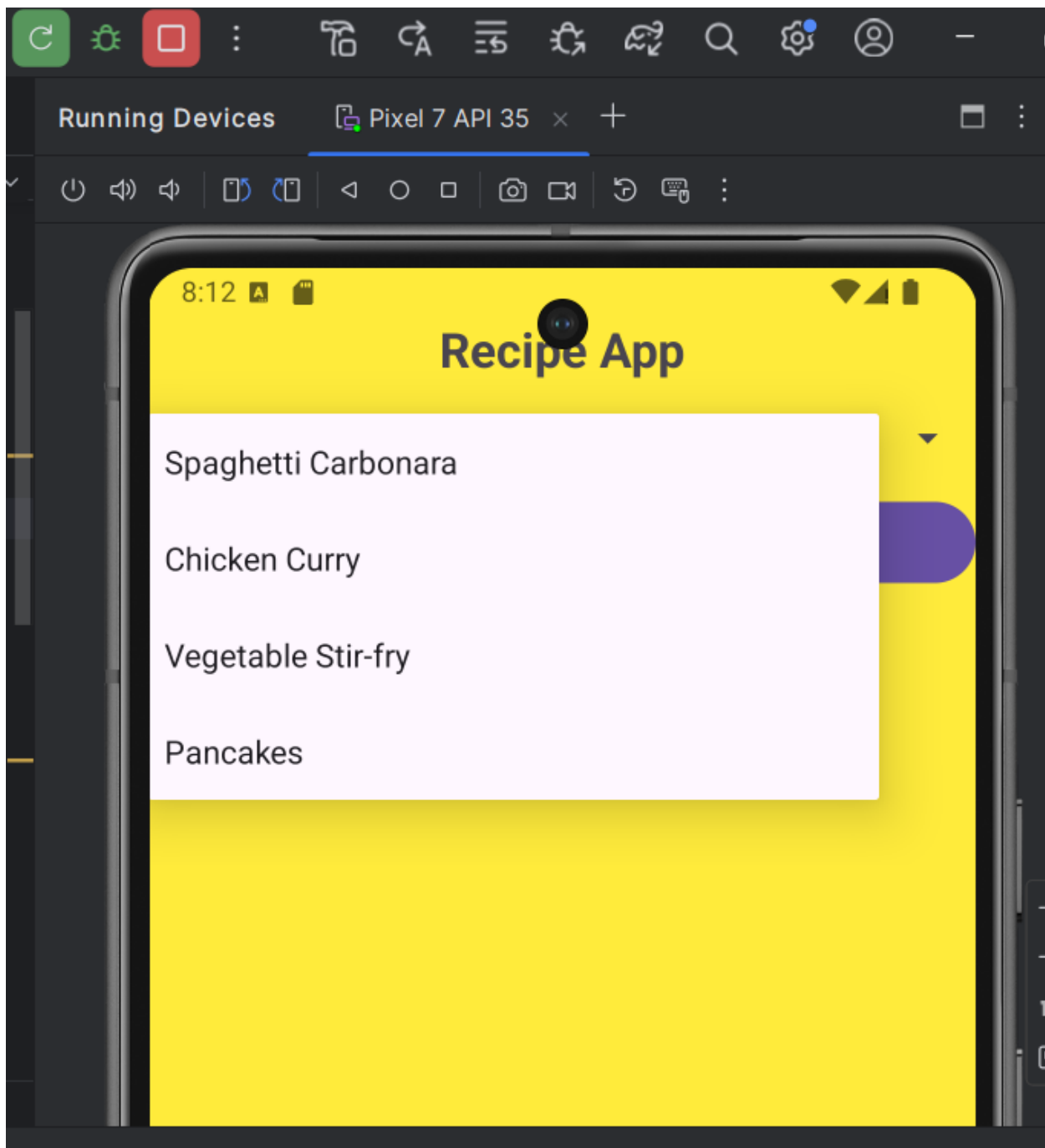
Conclusion

The Simple Recipe App demonstrates the use of Spinners and dynamic UI updates in Android development. It provides a practical example of how to create an interactive app using basic Android components.

Now lets see the design and the output of the Application-

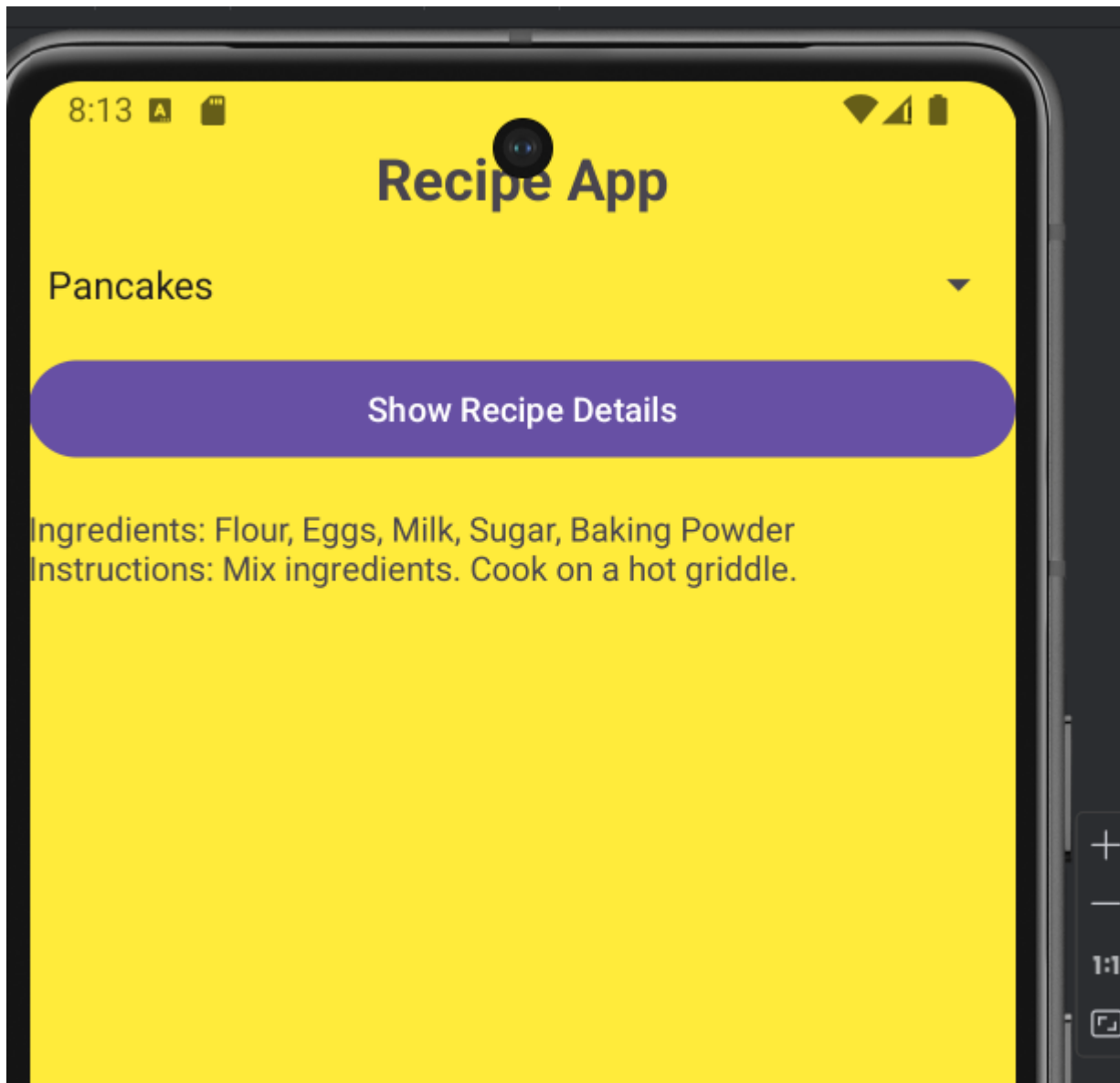












Below Is the design-

