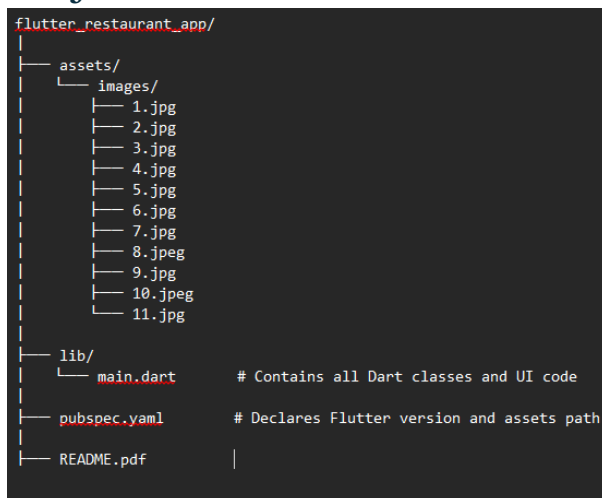


FLUTTER RESTAURANT APP

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This is a flutter-based Application is a restaurant menu system that allows customers to browse menu items by category, adding items to cart and place order. This app features a clean UI with category-based filtering, a shopping cart, and order summary functionality.

Project Structure of the Dart file



Main.dart Structure

1. App Entry Setup
 - a. The application sets the app's theme, title, and starting screen.
2. MenuItem Model
 - a. Represents each dish on the menu
 - b. Holds properties like ID, name, price, category, image path, and quantity.
3. HomeScreen
 - a. The main UI showing all menu items.
 - b. Lets users:
 - i. Browse by category
 - ii. Add items to a cart
 - iii. View and manage the cart
4. CartScreen
 - a. Shows a detailed list of items in the cart.
 - b. Displays:
 - i. Item name, category, image, quantity
 - ii. Subtotal, tax (10%), and total amount
 - c. Provides buttons to:
 - i. Place Order: Finalize the purchase
 - ii. Clear Order: Empty the cart
5. MenuItemCard
 - a. A reusable widget that displays each menu item in the list.
 - b. Shows image, name, category, and an "Add" button.

Configuration Instructions

Prerequisites

1. Flutter SDK
2. Dart SDK
3. IntelliJ with Flutter Plugin
4. Android Emulator or physical device

Setup steps

1. Clone the repository
2. Run flutter pub get to install dependencies
3. Add all required images to assets/images/ folder
4. Update pubspec.yaml to include the images

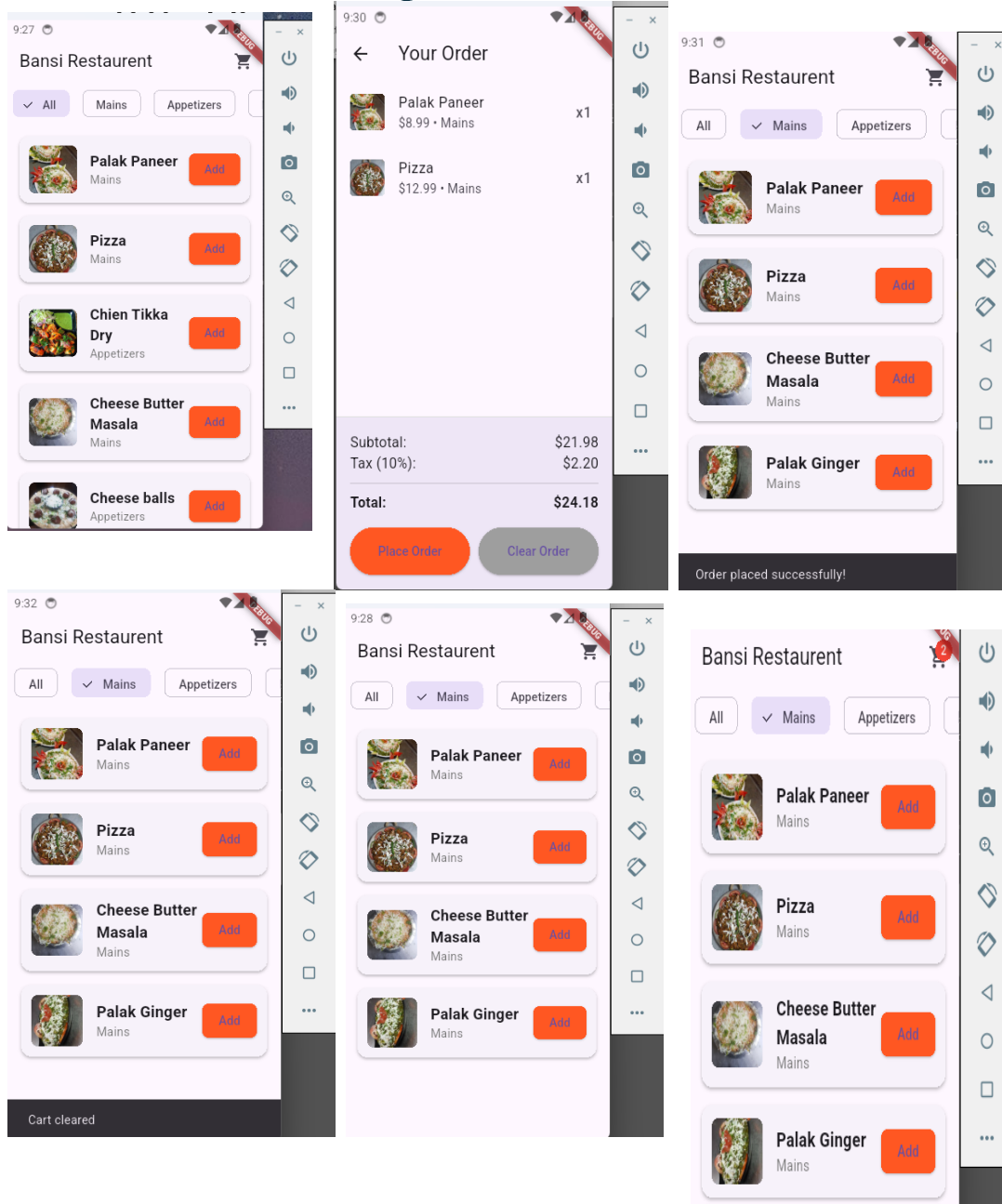
Running the App

1. Connect your device or start an emulator
2. Run flutter run in the project directory.

Features

1. Home Screen
 - a. Displays all menu items in card format
 - b. Has a category filter at the top
 - c. Shopping cart button with item count
2. Category Filtering
 - a. Tap any category chip to filter items
 - b. "All" shows all menu items
3. Menu Items
 - a. Each item shows image, name, and category
 - b. "Add" button to add to cart
4. Shopping cart
 - a. To open cart click the cart icon
 - b. Show all the selected items with quantities
 - c. Displays subtotal, tax, and total
 - d. Two buttons
 - i. Clear cart = goes to home screen with dialog saying "Cart Cleared"
 - ii. Place order = goes to home screen with dialog saying, "Order Placed Successfully!"

Output Screenshots (Android Emulator)



Figures Above. The figures above show the screenshots of different screens on the emulator.

Output Screenshots (Desktop App)



Figure 1. Home Screen



Figure 2. Cart Screen



Figure 3. Category wise menu