MyFullStackApp - Project Overview and Setup Guide

# 1. Project Overview

MyFullStackApp is a complete full-stack solution built with C# technologies. It includes:  
- An ASP.NET Core Web API for backend services  
- An ASP.NET Razor Pages Web UI with SignalR for real-time communication  
- A .NET MAUI mobile application targeting Android  
- Real-time notifications via SignalR  
- Secure communication using JWT tokens

# 2. Backend (ASP.NET Core Web API)

Navigate to the `src/Backend` folder and use the following commands:

dotnet restore  
dotnet build  
dotnet run

Ensure appsettings.json is configured with a valid JWT secret and database connection if needed.

# 3. WebUI (ASP.NET Razor Pages + SignalR)

Navigate to the `src/WebUI` folder and run:

dotnet restore  
dotnet build  
dotnet run

Make sure `appsettings.json` points to the correct Backend API URL.  
Use the login page to authenticate and browse customer/order data.  
Orders will trigger real-time updates using SignalR.

# 4. Mobile (MAUI Android App)

Open the `src/Mobile` folder using Visual Studio 2022 or later with .NET MAUI workload installed.  
To run the app:

- Select Android emulator or device  
- Click Run (or use Ctrl + F5)

The app supports viewing customers and adding orders, using the same REST API as WebUI.

# 5. SignalR Notification System

SignalR is used to notify connected clients when new orders are created.  
The Web UI establishes a SignalR connection and reloads data upon receiving a push event.

# 6. Deployment Notes

- Host backend using Kestrel/IIS/Azure App Services  
- WebUI can be published using `dotnet publish` and hosted on IIS or any web server  
- Mobile App can be distributed via APK or Play Store  
- Ensure all services use HTTPS and appropriate firewall/network access rules