

# C# E-Commerce App Deployment Summary

## Project Overview

This C# e-commerce web application consists of an ASP.NET Core Web API backend and a Blazor Server frontend. It supports product listing, shopping cart, customer order placement, Stripe payment processing, and webhook confirmation.

## Backend (API)

- ASP.NET Core Web API
- Entity Framework Core with Azure SQL
- REST endpoints for products, orders, and payments
- Stripe integration for secure payments
- Webhook endpoint to mark orders as 'Paid'

## Frontend (Blazor Server)

- Product catalog UI with Add to Cart functionality
- Cart summary and Checkout page
- Calls API endpoints for order and payment
- Redirects to Stripe Checkout

## Azure Deployment

- Azure App Services for both API and frontend
- Azure SQL Database for persistence
- Stripe secrets and DB connection string stored in Azure App Configuration

## CI/CD with GitHub Actions

- Two workflow files (.yml) for API and Blazor UI
- Automatically builds and deploys on push to 'main'
- Secrets stored securely in GitHub
- Uses 'azure/webapps-deploy' for publishing to App Services

# C# E-Commerce App Deployment Summary

## Future Enhancements

- Add user authentication
- Build an admin dashboard
- Product filtering and search
- Email notifications
- Multi-language support