

Assignment 02

Building a Shopping Website with ASP.NET Core Razor Pages

Introduction

Imagine you are an employee of a product retailer named **PizzaStore**. Your manager has asked you to develop a web application for member management, product management, and order management.

The application has to support adding, viewing, modifying, and removing products—standardized usage action verbs better known as Create, Read, Update, Delete (CRUD) and Search. This assignment explores creating an application using Razor Pages .NET Core Web Application, C#, and Entity Framework Core. The MS SQL Server database will be created to persist the data and it will be used for reading and managing data.

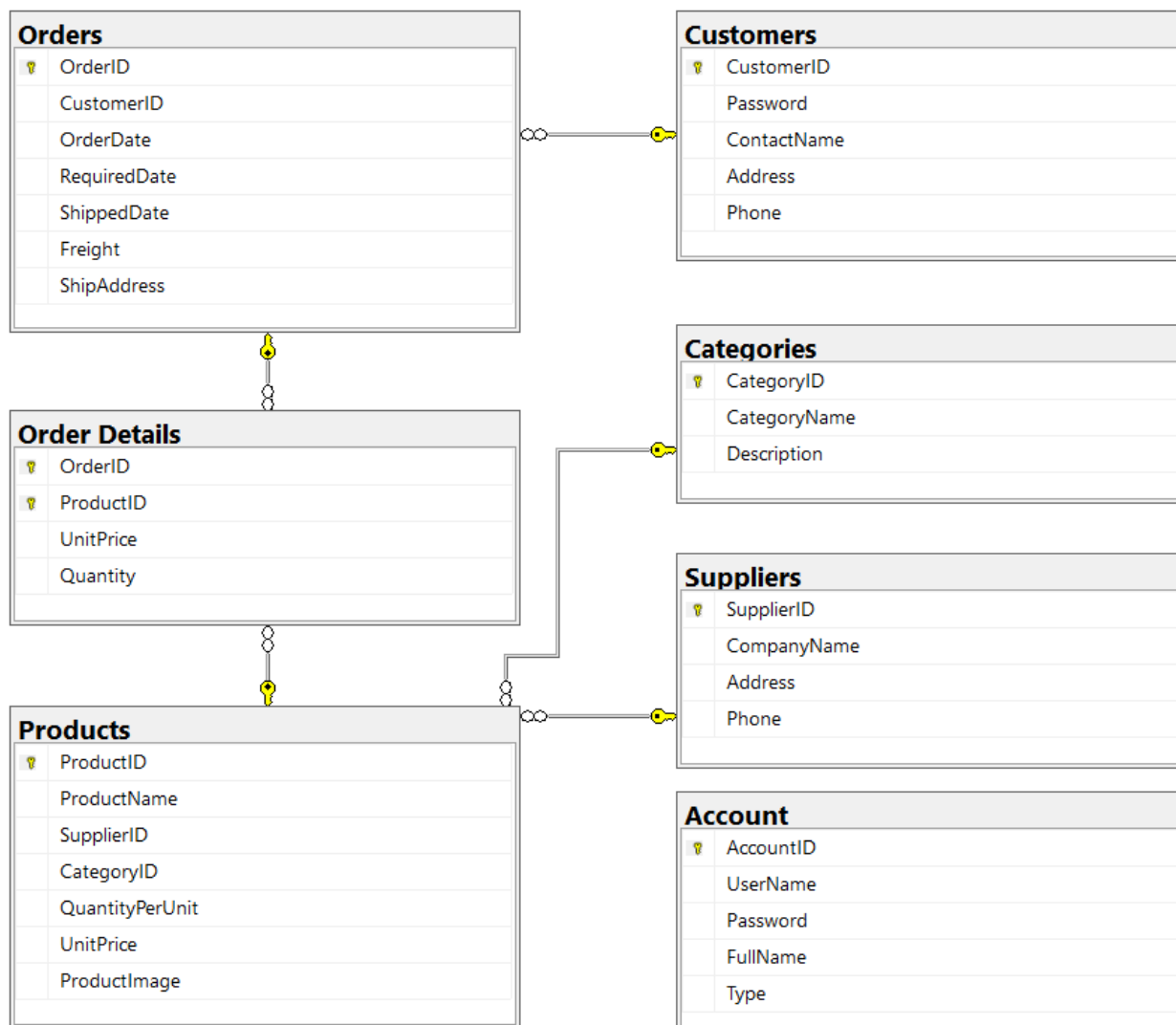
Assignment Objectives

In this assignment, you will:

- Use the Visual Studio.NET to create ASP.NET Core Web Application project.
- Perform CRUD actions using Entity Framework Core.
- Use LINQ to query and sort data.

- Apply to validate data type for all fields.
- Run the project and test the ASP.NET Core Web Application actions.

Database Design



Main Functions

- Create database using Entity Framework Core.
- Member management, Product management, and Order management: Read, Create, Update and Delete actions. Creating and Updating actions must be performed by popup dialog

- Search Product by ID , ProductName (by keyword of ProductName), UnitPrice.
- Create a report statistics sales by the period from StartDate to EndDate, and sort sales in descending order
- Member registration by AccountID (unique) and Password. If the user is “**Staff**” (Type=1) then allows to perform all actions, otherwise, the normal (Type=2) user is allowed to view/create/update the profile and view their orders history.

Guidelines

Activity 01: Build a solution [01 mark]

Step 01. Create Project/Solution named SignalRAssignment

Step 02. Choose the Project template for creating an ASP.NET Core application with example Razor Pages content: ASP.NET Core Web App.

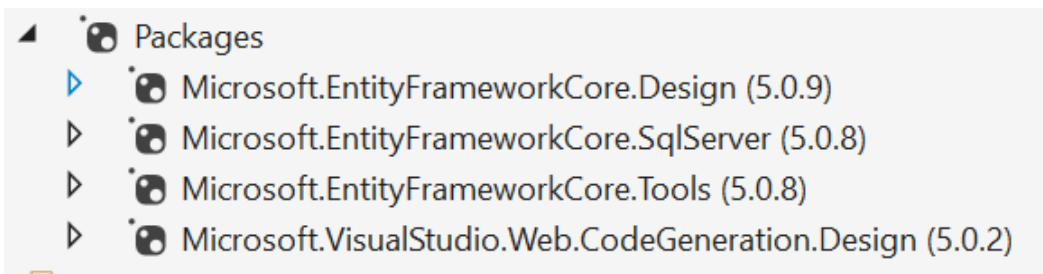
Activity 02: Create database with Entity Framework [03 marks]

Step 01. Create Model

With AppUser, please note that the application will have two types: Member (type = 0) and Staff (type = 1).

Step 02. Create database context with Entity Framework ApplicationDbContext

Step 03. Add-Migration and then Update Database



Activity 03: CRUD product information using Razor Pages [05 marks]

Step 01. View list of Pizza products and view the detail pizza product information (all users have permission to view products).

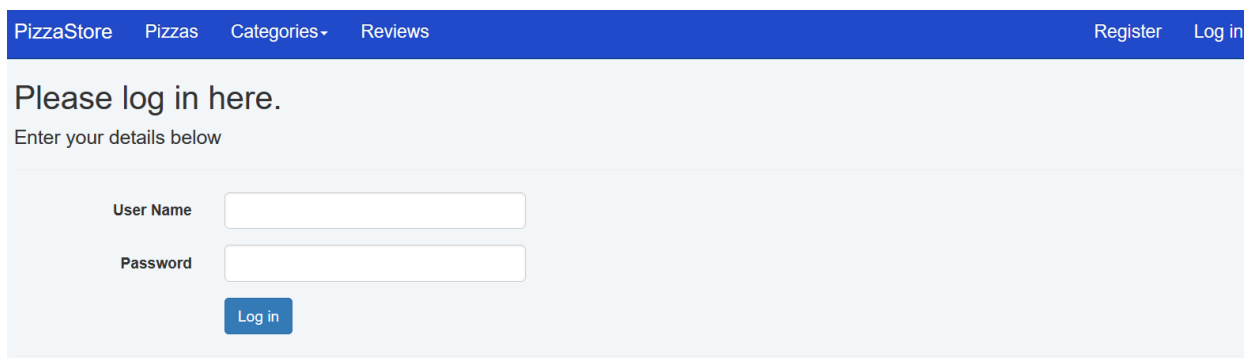
Step 02. Create registration form; check the required validation for all fields. The registration will have member permission (type = 0).

Step 03. Only staff member can create a new pizza product.

Step 04. Only staff member can update an existing pizza product.

Step 05. Only staff member can delete an existing pizza product.

Activity 05: Run the project and test all actions [01 mark]



The screenshot shows the login page of the PizzaStore application. At the top, there is a blue navigation bar with links for PizzaStore, Pizzas, Categories, and Reviews. On the right side of the bar are links for Register and Log in. Below the navigation bar, the text "Please log in here." is displayed, followed by the instruction "Enter your details below". The login form consists of two input fields: "User Name" and "Password". Below the "Password" field is a blue "Log in" button.

Pizzas

Create New

Name	Price	Description	ImageUrl	IsPizzaOfTheWeek	Category	
Capricciosa	\$70.00	A normal pizza with a taste from the forest.	Pizza_capricciosa.jpg	<input type="checkbox"/>	Standard	Edit Details Delete
Hawaii	\$75.00	A nice tasting pizza from Hawaii.	Hawaiian_pizza_1.jpg	<input checked="" type="checkbox"/>	Standard	Edit Details Delete
Margarita	\$65.00	A basic pizza for everyone.	Eq_it-na_pizza-margherita_sep2005_sml.jpg	<input type="checkbox"/>	Standard	Edit Details Delete
Pescatore	\$80.00	A pizza with taste from the ocean.	dsc_0231.jpg	<input checked="" type="checkbox"/>	Standard	Edit Details Delete
Barcelona	\$70.00	A pizza with taste from Spain, Barcelona	pizza-jamon-dulce-y-champinone.jpg	<input type="checkbox"/>	Specialities	Edit Details Delete

Pizzas Menu

Search

Search

All Pizzas



Capricciosa

\$70.00

Category: Standard

A normal pizza with a taste from the forest.

Add Pizza



Hawaii

\$75.00

Category: Standard

A nice tasting pizza from Hawaii.

Add Pizza



Margarita

\$65.00

Category: Standard

A basic pizza for everyone.

Add Pizza