**Assignment 01**

**Building a Sales Management Application with Windows Presentation Foundation (WPF)**

# Introduction

Imagine you're an employee of a product retailer named **EStore**. Your manager has asked you to develop a Windows Presentation Foundation (WPF) application for member management, product management, and order management. The application has a default account whose email is “**admin@estore.com**” and password is “**admin@@**” that stored in the **appsettings.json**.

The application has to support adding, viewing, modifying, and removing products—a standardized usage action verbs better known as Create, Read, Update, Delete (CRUD) and Search. This assignment explores creating an application using Windows Presentation Foundation (WPF) with .NET Core, C#, and ADO.NET / 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 Windows Presentation Foundation (WPF).
* Perform CRUD actions using ADO.NET or Entity Framework Core.
* Use LINQ to query and sort data.
* Apply passing data in the WPF application.
* Apply Dependency injection (DI) in the application.
* Add CRUD and searching actions to the application.
* Apply to validate data type for all fields.
* Run the project and test the WPF application actions.

# Database Design

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# Main Functions

* 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 ProductName (by keyword of ProductName), and UnitPrice
* Create a report statistics sales by the period from StartDate to EndDate, and sort sales in descending order
* Member authentication by Email and Password. If the user is “**Admin**” then allows to perform all actions, otherwise, the normal user is allowed to view/create/update the profile and view their orders history.