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**Oren Pildus Designs**

**Online Store Demo**

(C# & WPF Project)

1. **About This Project**

This project intends to demo an online store for displaying and selling various products. It was built to demonstrate knowledge and implementation of C# and Entity Framework Programming fundamentals and principles,

1. **Built With :**

The project was Built with Entity Framework Core as the data access technology, and SQL Server as the database structure. Though not mandatory, the GUI for the demo was built with WPF graphical environment.

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| **Programming** | **Data Access** | **Database** | **GUI** |
| C# | Entity Framework Core. | SQL Server | WPF |

The project loosely implements the **Factory** design pattern.

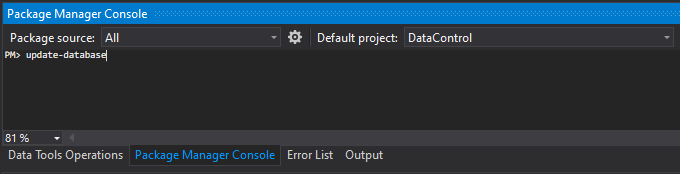
1. **Getting Started:**

* ***Download the code source:***

Download or clone the Github code from: [www.github.com](http://www.github.com)....

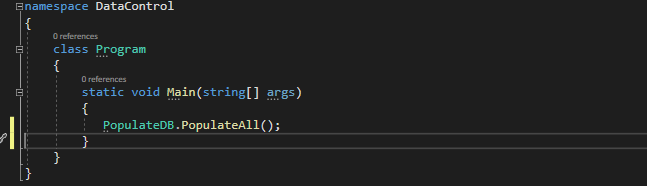
* ***Building the database structure:***

The project contains one final migration file. Using the Package manager console, run command "Update-Database" to apply the migration file to the SQL Server.

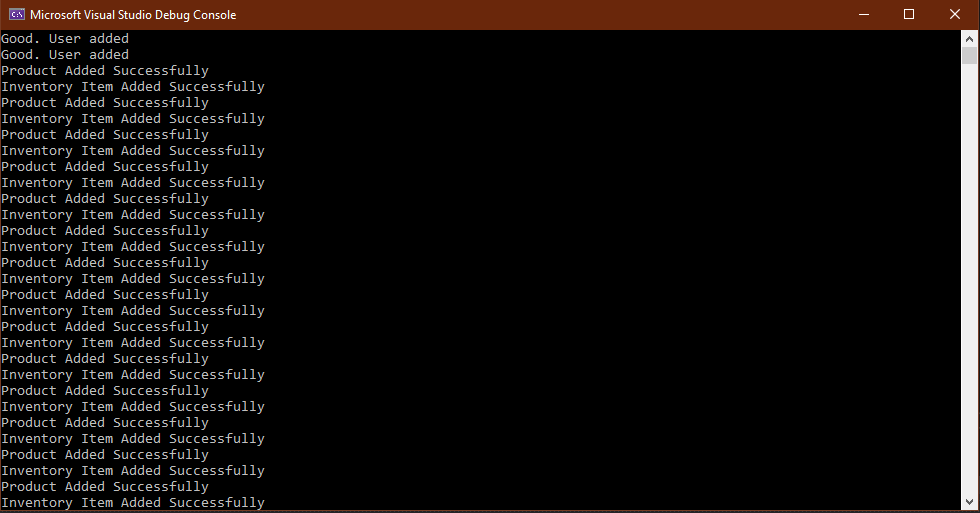


* ***Populating the database:***

Set Project "Data Control" as startup project; make sure "Program.CS" contains the following code:

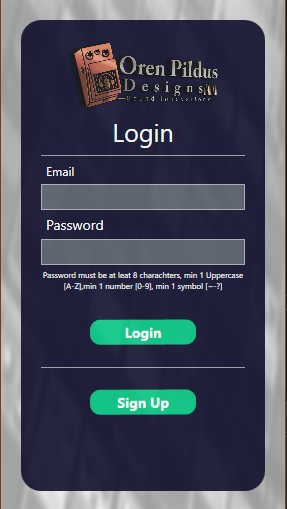


Build And Run solution. The output Window should output the following:



* ***Running the Demo:***

Set project OPD\_GUI as startup project, Build And Run solution. The Login screen should appear to allow you to log in:



Admin user:

Email address: [admin@admin.com](mailto:admin@admin.com)

Password: Admin123!

Regular User:

Email address: [user@user.com](mailto:user@user.com)

Password: User123!

1. **Relations design and logic:**

The project implements EF TPT (Table-per-Type) inheritance model. Table-per-type inheritance uses a separate table in the database to maintain data for non-inherited properties and key properties for each type in the inheritance hierarchy.