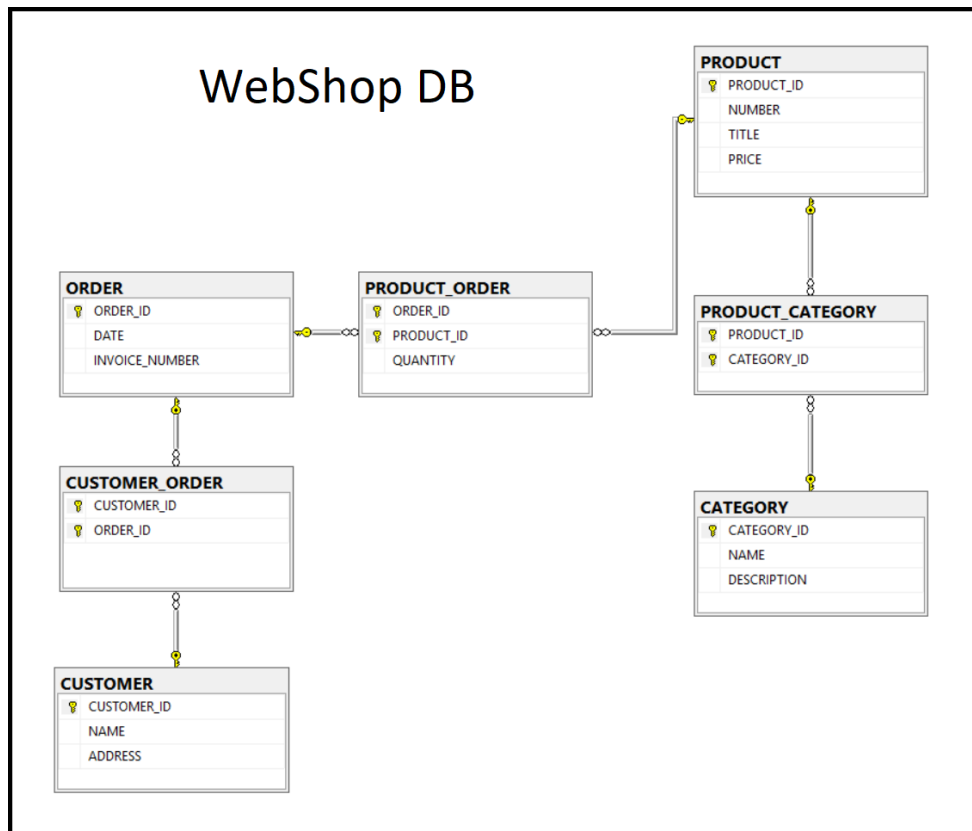**DEV TEST RESULTS**

Note: DB Backup files were generated in SQL Server 2016, you will find Backups and SQL structure files under Deliver folder.

1. **SQL database**

   According to requirement, WebShop DB diagram is being attached to this document, here we have four main table representing entities (Product, Category, Order, Customer) and we have 3 relation tables to relate product with category, product with order and order with customer.
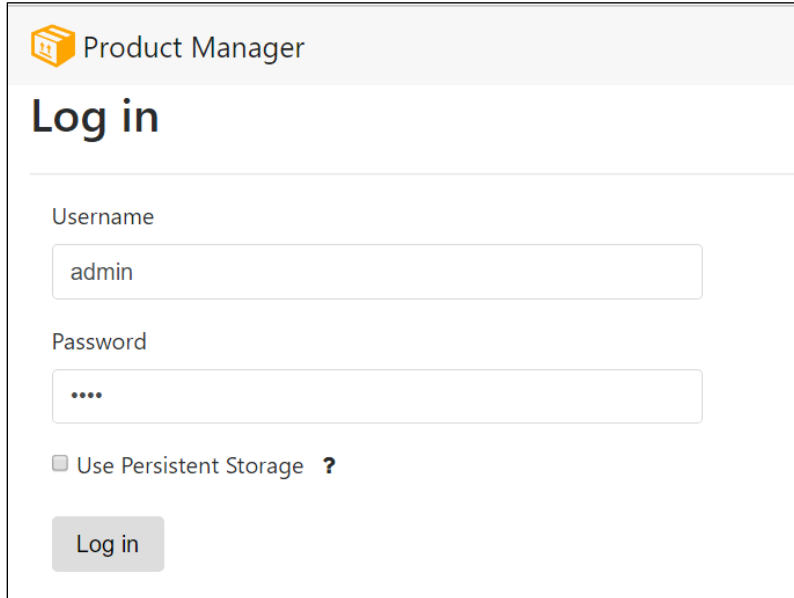
   In the Deliver folder, there is a .sql file which can be used to recreate the database structure with foreign keys and primary keys. Sql file name is "WebShop DB Sql.sql"
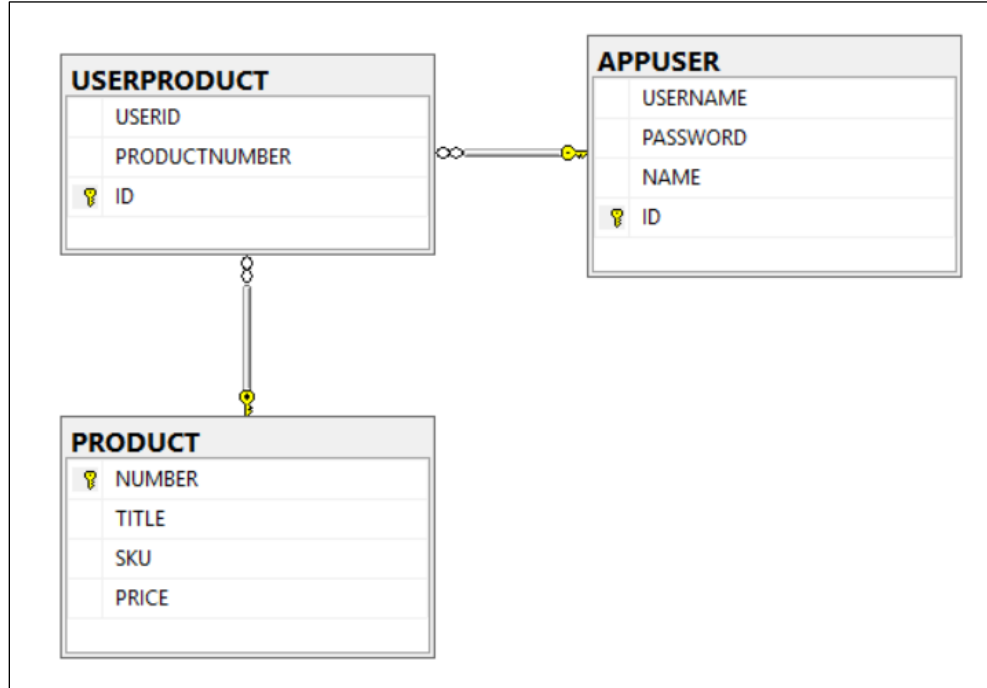
2. Development

To solve the development assignment, a full .NET MVC application was created, application name is ProductManager, you will find the Visual Studio solution file under ProductManager folder.

Login screen was included, in this screen you can select if you want to work with Persistent Storage or not (If you select persistent storage, it will use a database to store information about products and product list).

Persistent Storage database has the following structure:

To allow application test easily, database is stored in free cloud server (somee.com), SQL file is in Deliver folder (ProductManager.sql), if you want to recreate database you will need to update connectionstring in web.config to allow entity framework connect to DB.

Application is using EntityFramework to access to database entities and perform database operations (Insert, Update, Delete).

Then, we have APPUSER table where users are stored, by default there are 6 users available (admin, user1, user2, user3, user4, user5), for all users, password is "1234". Since the requirements are limiting the application scope to show product list and allow product creation, this application doesn't offer any way to create and manage users.

Products are stored in the PRODUCT table and USERPRODUCT represents the relationship between user and product (To display product list according to logged in user)

When you don't select persistent storage, there are 6 users available (admin, user1, user2, user3, user4, user5), for all users, password is "12345", in this case, this option doesn't use database and stores everything in Session (This is using a cache manager to cache, retrieve and manage cached objects.
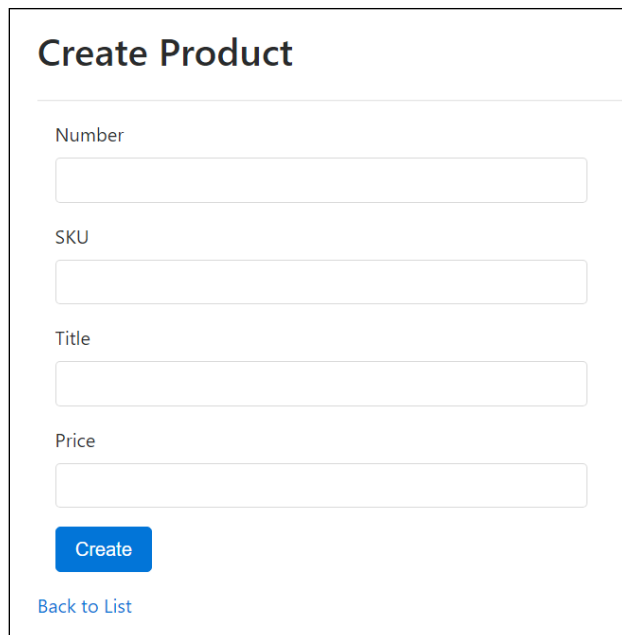
After you are logged in, you will get the product list associated to logged user, here you can see products and you can create new products.

Products can be edited and deleted, this was not in requirements but it's important to offer user the way to manage, edit and delete their products.

When you create a new product, you will get the create screen with all fields empty available to fill:

On the other hand, if you are editing existing product, you will get the same form but product number will be read only, since this is used as key, this value cannot be edited.

Update Product: 312a

Number

1

SKU

2a1

Title

312a

Price

4

Update

Back to List

Finally, you can logout from application and will be redirected to login screen again.