# Shop Bridge Assessment:

## Introduction:

This Application implements the shop website, which implements different APIs to Add Product to the inventory, Edit Selected product, Remove product from the inventory, View the description of the selected Product.

## Soft-wares used:

* Visual Studio 2019
* SQL Server Management Studio
* Postman (For testing is required)

## Functional Requirements:

Shop Bridge implements the below major functionalities:

* A platform where a user can view all the content of the website. Like the items in the inventory to display on the web page.
* Database setup where the products selected should get stored and updated according to the CRUD operations performed.
* User friendly UI to Add, Edit , Delete and View the Products.
* Basic Data validations to be implemented.

## Database Design:

A table named Product is created which will be accessed by Application to store and update the details. Product table will have the below fields:

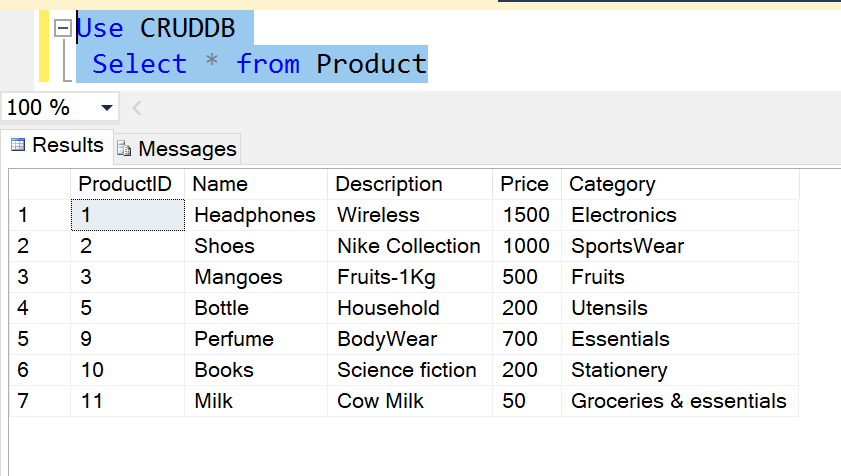
1. **ProductId**  
   It is used to distinguish among all the products. This will be the primary key to the table, data type as Int.
2. **ProductName**  
   This tells the user what the Name of the Product is, with data type as varchar(50).This is a required Field.
3. **ProductDescription**  
   It tells the details about the Product added, you can view the Details by clicking on the Details link against the product.

1. **ProductPrice**

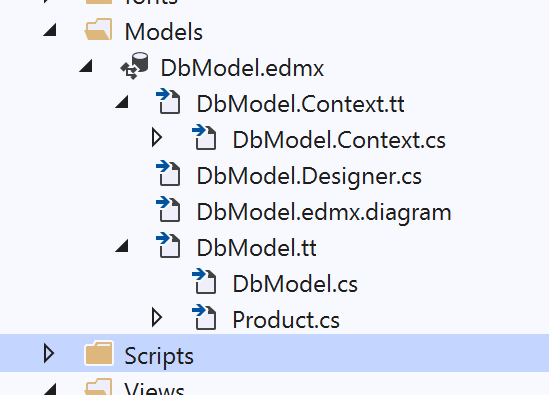
This will give the price of the product. This will be a required field

1. **Category**  
   This will tell the end user what is the category of the product, like if Groceries, Clothing etc.

Below is the Screenshot of the Database created



This DataBase will be connected to the Application; The Model will handle the data logic. You can use the ADO .Net Entity Framework to connect with the DB. A Product class will be automatically created as below.

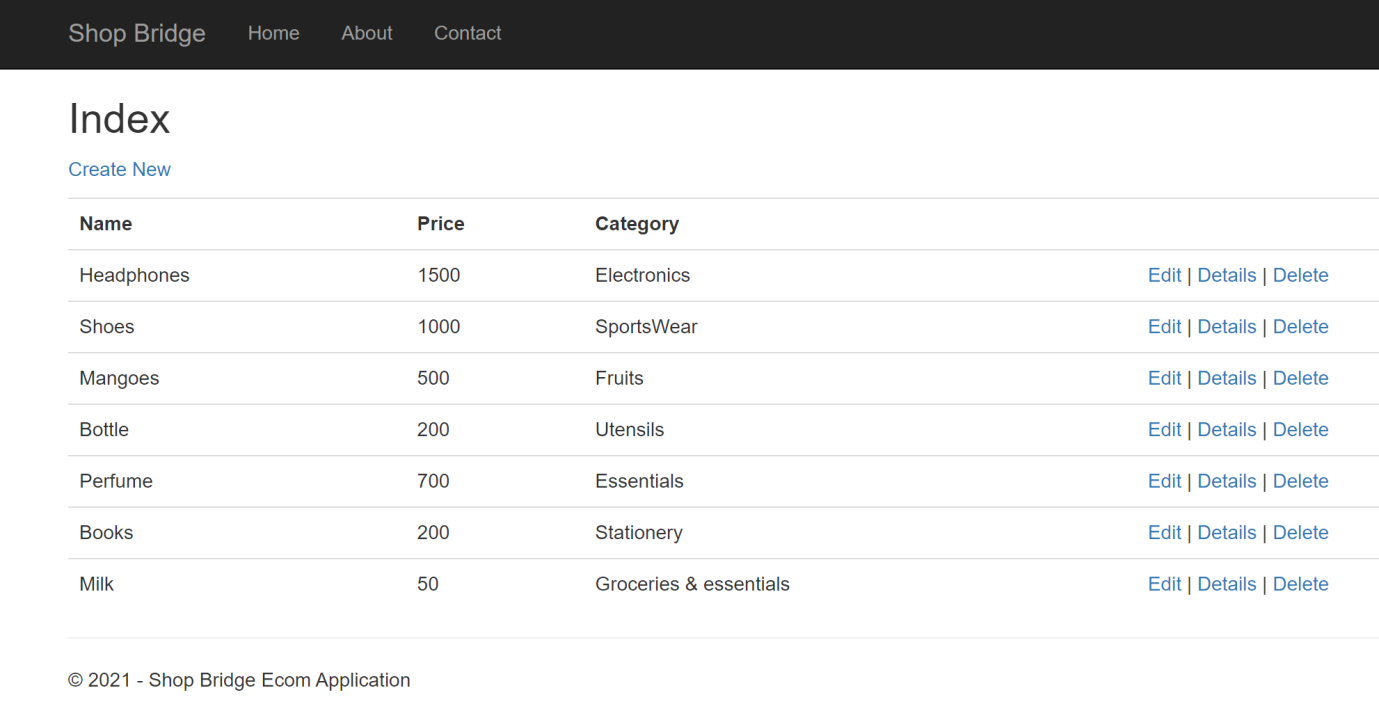


# Running the Application:

## Shop Bridge UI – The FrontEnd

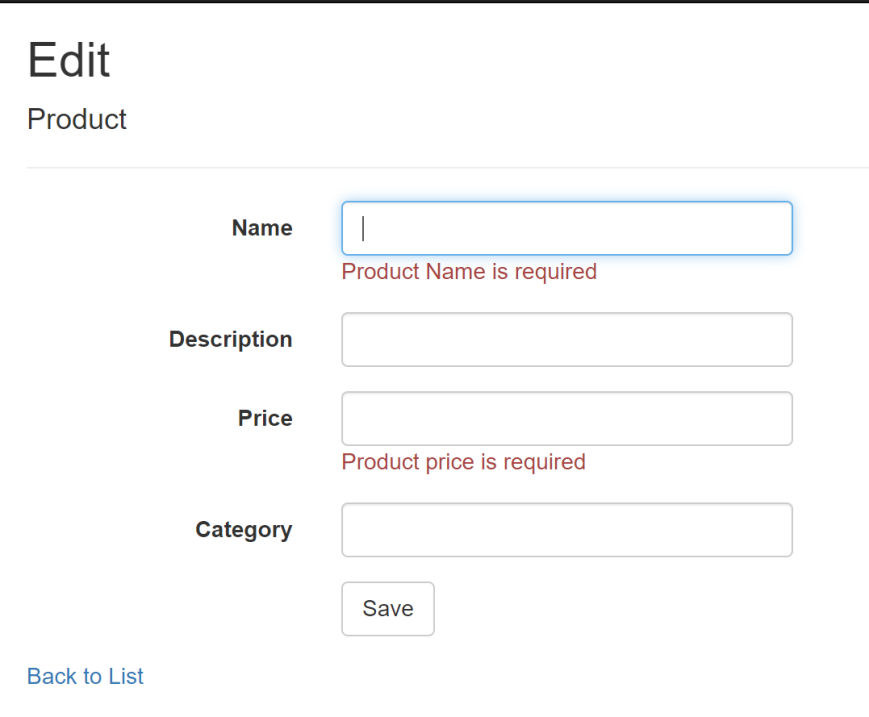
This part is the View of the Application; the user will interact with the Application and perform operations.

After running the application go to: <https://localhost:44323/Product> - this is the Index page of the application. It will list all the current products in the inventory. Furthermore you can perform other operations from this UI itself.



## Data Validations:

This application uses Data Annotations to validate the Data – i.e. the User Input. Refer the screenshot for reference.



## Exception Handling :

Exception handling is the process of responding to the occurrence of exceptional conditions requiring special processing. Exception handling is important in any application. In Shop Bridge we have handled it using - Try-catch block at method level