Required Software:

* Microsoft Visual Studio (Preferably: Microsoft Visual Studio 2022)
* SQL Server Management Studio v19 or above (in case need to edit SQL query)
* A web page browser (e.g. Microsoft Edge, Google Chrome, etc)

Required NuGet Package:

* System.Data.SqlClient

Pre-requisite(s):

* An available SQL server is already installed in the SQL Server Management Studio.

Installation Steps:

1. After unzipping the compressed solution folder. Use Microsoft Visual Studio to open the solution.

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1. Firstly, connect to the server to create the needed database and name it.

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1. Open the SQL Query inside the folder where the solution file was.

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1. Then, right-click on the created database and select “New Query”. Copy the entire query from the opened Microsoft SQL Query File (SQL Query 1) and paste it into the new query window.

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1. Ensure that Database name is the one that you created, then execute the query. A message saying “(4 row(s) affected)” should show.

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1. To check that the query executed successfully, right-click and refresh the “Tables” folder in the database.

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1. Then right-click on the newly created table and select “Show Table Data” option to see the values of the new created table.

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Once that is done. This means that the needed SQL Database and the required SQL Table has been successfully created!

1. Right-click on the project, and click on “Manage NuGet Packages…”

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1. Ensure that the “System.Data.SqlClient” is installed in your Microsoft Visual Studio. Otherwise, you need to install it.

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1. To proceed further, we need to copy the SQL Database’s Connection String and so that the Web API can access the database through it.

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1. Under the Solution Explorer, go to under the Pages folder, under Customers folder, and under the Create Page (Create.cshtml), go to the Create Model (Create.cshtml.cs)

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1. Insert the Connection String into the “connectionString” variable.

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1. Do the same for the Delete Page (Delete.cshtml)

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1. Do the same for the Index Model.

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1. Then finally do the same for Edit Model (Edit.cshtml.cs) as well. However, take note that there are TWO places to insert the Connection String.

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1. Once done, rebuild solution for good measure, and then debug to test the solution.

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1. The Webpage will then open in your default browser. The first following screen will be the initial webpage.

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1. Click on “Customers” to open the table of customers. Note that the values shown will be the same as in the SQL Database. (Read Function)

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1. Click on “New Customer” to create a new customer in the table. Fill in the fields and click “Submit”. And see the new customer reflected in the table. (Create Function)

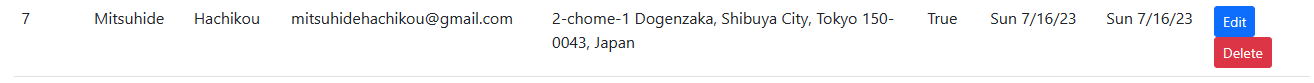
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1. Click on the “Edit” button beside a customer to edit the customer’s fields and then click “submit” to update the customer’s information. (Update Function)



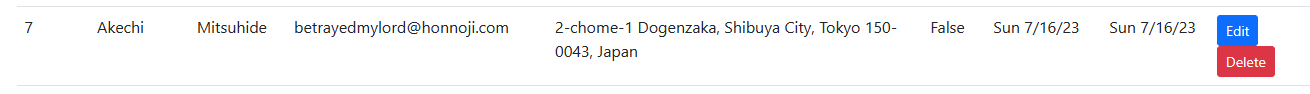
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1. And finally, lastly, click on the “Delete” button beside the customer to delete from the table.

Before:



After:

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