E-Shopper Application Note

*“At this moment I realize how terrible mac is when it comes to .NET development*”- Stephen

## Database and Server Issues:

In Windows, we can just simply bring up a SQL Server and perform CRUD operations freely. And since they are in 1 same eco-system. Visual Studio support a Server Explorer that will automatically detects current running SQL server and let you connect to the databases easily. Basically, it has a GUI and installed functionalities that will crucially make the development so much easier.

Since the development is done within Macintosh environment, Visual Studio has a lot of limits. Including the above mentions, however, I was able to find a solution for it.

Reference: https://www.youtube.com/watch?v=9c7Ti2OcLZg&list=LL&index=4&ab\_channel=DataWithDominic

Step 1: Run a Docker Container

Reference: <https://learn.microsoft.com/en-us/azure/azure-sql-edge/disconnected->deployment

docker run --cap-add SYS\_PTRACE -e 'ACCEPT\_EULA=1' -e 'MSSQL\_SA\_PASSWORD= 213052Baoxyz' -p 1433:1433 --name azuresqledge -d mcr.microsoft.com/azure-sql-edge

Step 2: Install mssql-tools

sudo docker exec -u root -it azuresqledge "bash"

Refer to this link to install mssl-tools18 <https://learn.microsoft.com/en-us/sql/linux/sql-server-linux-setup-tools?tabs=ubuntu-install&view=sql-server-ver16#ubuntu>

Step 3: (Optional)

At this point, we should be able to play around with that server. Run this command while still being in the container bash: /opt/mssql-tools/bin/sqlcmd -S localhost -U SA -No -P "213052Baoxyz!" . If you see the Terminal says 1> means it has succeeded and you can play around. Please refer to the command online.

Step 4: (Optional)

If you would like to have UI to navigate around easier, install Azure Data Studio and then make a new connection with such fields:

A screenshot of a computer

Description automatically generated

And it should return you an interface close enough to SQL Server Studio (idk) like windows

## Package Manager Console and Add Migration:

Traditionally, we will need to install certain packages in our ASP.NET application and that includes Microsoft.EntityFrameworkCore.Tools. Basically, this package will help us generate SQL query basing on our Models and this process is called Migration:

A screenshot of a computer screen

Description automatically generated

Reference this link to do it: <https://stackoverflow.com/questions/45382536/how-to-enable-migrations-in-visual-studio-for-mac>

\*NOTE: About the connection string, I am not really sure how to gets it works but I basically just go search for answer whenever I have an error and eventually come up with this:

"DbConnection": "Data Source=localhost; User Id=SA; Password=213052Baoxyz!; Initial Catalog=Shopee; Integrated Security=False; Trusted\_Connection=False;"

## Split components in ASP.NET:

\*NOTE: Technically, the locations of them files don’t matter, view in-file comments for better understanding

* 1. Create a Components folder in Repository and you will see how we create the <Model\_name>ViewComponents.cs files.
  2. Create a folder Views/Shared/Components and make sure that the folders names match whatever prefix you have in Repository/<Model\_name>ViewComponents.cs
  3. In each folder, create an empty Razor View called Default.cshtml and you can import the model and act like normal