Azure Section 5 - Application code:

Here we will see the application read it. We will build a application and then deploy on cloud. We will have a repository for the code. Where i will push the code and from there you can get it. I will give the link of the code repository.

- The app is called as read-it app.
- This has four engines in working.
- It has book management catalog, Order engine, shopping cart, Inventory management engine.
- We will take this app and put it in cloud.
- It is created with .net core and nodeJS. We have used VS code. We have used various databases such as relational database, No sql database even an object store.
- We will discuss various methods of deployment.
- We need to install .net SDK
- After the installation is completed of dotnet go to CMD and then there type “dotnet —version” and hit enter and it will give you the current version of the .net

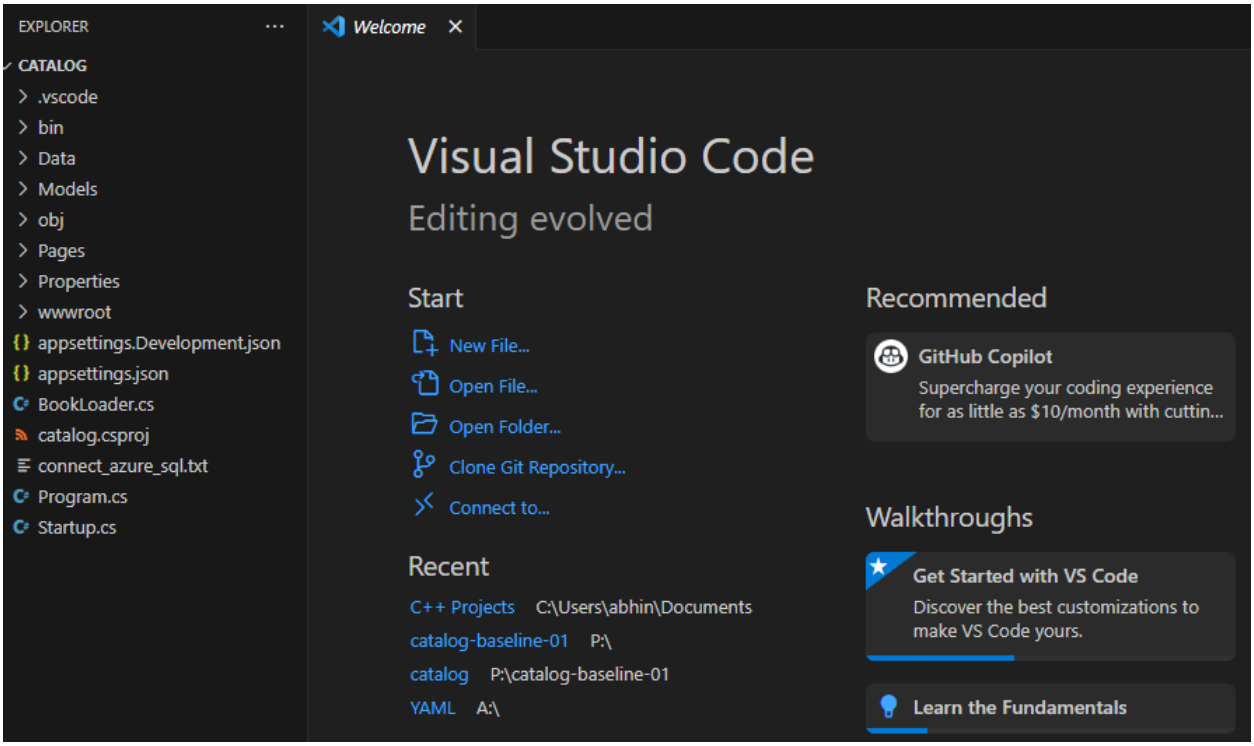
Download VS CODE.

Install the extension for C#, Azure account and azure app services. Now you will see the new icon in the VS code below extension icon and that is sign in into azure.

Now I have attached a new repository for this project and the link is as follows.

https://github.com/AbhinavDeodhar/azurepracticeapp.git

1. Download the code form this repository and then past it in some folder in C drive.
2. After the copying is done follow the following steps.
3. Go to the file location and click on the file path. erase all the data from the file path and type there cmd and hit enter.
4. This will open cmd and there type “**code .**” This will open the VS code in that location where the file is copied.
5. Click on F5 to run the code. This is first run it may take some time to build the code.
6. Once the build is done there will be a pop up showing that the file is in which browser you want to open this code. So choose the browser and hit OK.

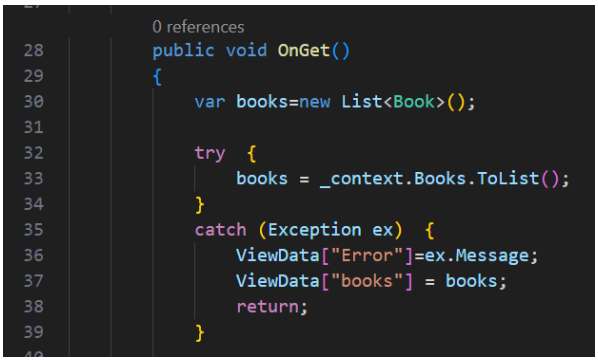


Now after the app is running in the browser we can see that there is a button “load the database”. After clicking on that button we will see the list of the books. So let me tell you as of now there is no database connected to the app so from where is this data coming form? So this data is coming from the in memory data of the code.

Understanding the code:

Go to the file index.cshtml. Here there is a function OnGet(). This function will initiate itself when the code is built. What we see here is Book list which is again passed with the argument of object type book. **var books=new List<book>();**

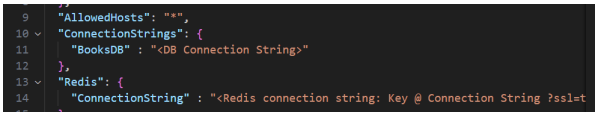
Then we go to the **_context.Books** and ask it to put all the books it has and to put it in the list. Now this context is the object that actually connects with the database. But as of now we are not connected to any database. Right now we are working with the in memory database. There are few functions which are therefore commented out now as we are not using any database. We will remove the comment of those functions going forward.



Now there is a other file which is called as appsettings.json

This file is responsible for all the functional responsibilities of the app.

Here we can see that there is no database connected as of now. So going forward we will add the database to the .Json file.



So now how is the code knowing that it has to use the In-Memory? It is because we have mentioned it in code by using a Boolean variable and assigned it to true. We can see it under the startup.cs file.

So that is all regarding the code as of now.

To get the code this is the link to the git hub repository.