**APEX COLLEGE**

**POKHARA UNIVERSITY**

**LAB REPORT OF**

**DOT NEW TECHNOLOGY**

**LAB-9**

**Submitted By:                                               Submitted To:**

**Ruchi Agrawal                                               Bishwomitra Adhikari**

**BCIS ‘Adware’** **Ananta Pant**

**Roll no: 18**

**Objectives: To call Web API with ASP.Net Core MVC**

These are the following steps that deal with Web API with ASP.Net Core MVC

**Step 1: Switch to project ApexRestaurant.Mvc**

cd ApexRestaurant.Mvc¶

**Add additional required packages.**

dotnet add package System.Net.Http.Formatting.dll¶

dotnet add package Newtonsoft.Json¶

**Navigate to Properties/launchSettings.json, and change the ports from 5001/5000 to**

**9001/9000 as marked below in bold.**

"ApexRestaurant.Mvc": {

"commandName": "Project",

"launchBrowser": true,

"applicationUrl": "https://localhost:9001;http://localhost:9000",

"environmentVariables": {

"ASPNETCORE\_ENVIRONMENT": "Development"

}

}

**Let’s add Api configuration to ApexRestaurant.Mvc/appsettings.json (See bold line below)**

{

"ConnectionStrings": {

"DefaultConnection": "DataSource=app.db"

},

"Logging": {

"LogLevel": {

"Default": "Information",

"Microsoft": "Warning",

"Microsoft.Hosting.Lifetime": "Information"

}

},

"AllowedHosts": "\*",

"ApiBaseUrl": "https://localhost:5001/api/"

}

**Trust local developer https certificate. This step is optional (but recommended for dev**

**mode).**

dotnet dev-certs https --trust¶

**In ApexRestaurant.Mvc\ConfigureServices\Startup.cs, to enable httpclient to call web api,**

**add the following line to last:**

public void ConfigureServices(IServiceCollection services)

{

...

services.AddHttpClient();

}

**Step 2: ViewModel preparation**

- Copy all files from ApexRestaurant.Repository/Domain to

ApexRestaurant.Mvc/Models.

- Rename “ApexRestaurant.Repository.Domain” to “ApexRestaurant.Mvc.Models”

- Rename file as: Customer.cs to CustomerViewModel.cs.

**Step 3: Add new Controller in MVC project under Controller folder**

**Step 4: Now, we need to add Index view. Create a folder “Customer” inside**

**ApexRestaurant.Mvc/Views. Create a file “Index.cshtml”. Add the following code in your**

**View**

**Step 5: To Create or Insert new Record**

**Add two new actions for create in CustomerController:**

**Step 7: For Put Method / Update Method..**

**Follow the same as Create, except replace PostAsync with PutAsync.**

**Step 8: For Deleting Record.**

**Follow the same as Create, except replace PostAsync with DeleteAsync.**

**Step 9: Run the project**

**Conclusion**In this lab, we learned about how to call Web API with ASP.Net Core MVC. After the API project is ready,it can seamlessly integrable with different UI projects like Ajax, ASP.Net Core MVC, Mobile App, Desktop App, etc. In other words, we can create a true N-layer application with appropriate separation of concern across layers.