Dotnet Centric Computing   **BCSIT 6th Semester**

Lab2: ASP.NET Core Web app with Razor pages

1. Within Lab2 solution, create an empty web project using CLI command,

dotnet new web –name EmptyWeb

2. Add EmptyWeb project into Lab2 solution and run with Kestrel server.

Briefly explain the work flow of running the app (starting from main() to

output Hello World on the browser). What are request and responses?

3. a. Now, using VS GUI, create a new project for razor page with minimum

template. Briefly discuss the workflow of running the app and the output.

Comments on dependency injection and middleware pipeline. Use the

Welcome page (app.UseWelcomePage("/")) before endpoint middleware

pipeline and discuss the short-circuiting case.

b. Add another razor page (both view and Pagemodel) named AboutUs and

add the link to access this view on _Layout file.

4.a. Setup your razor page app created in previous lab (3a) for Northwind database using Sqlite data provider. Use NorthwindDB class library for models and dbContext to interact with the database in your app and install necessary libraries from Nuget package manager to work with EF. Briefly write the workflow and about data base first approach to work with database in ASP.Net Core Webapp. Also, comment on ORM.

b. Now add one link on your landing page to show the list of products and prices in ascending order sold by Northwind company. Briefly comment (workflow) on how MVC pattern is followed here in Razor page while invoking onGet action method.