Dotnet Centric Computing: Lab3 BCSIT 6th Semester

Lab rules:

1. Submit your lab reports on your own, no copying is allowed. You can collaborate while working with the project for conceptual clarifications, but the report should be written individually. Write your own codes and descriptions.
2. Create a solution called Lab3 within your Labs folder (that was used for Lab1 and Lab2 before) and there we will be creating various ASP.Net core apps.
3. Write all the steps followed while accomplishing the project in your lab report. You can copy paste the screenshots of folder structures and the output.

Lab3: ASP.NET Core Web app with Razor pages

1. Within Lab3 solution, create an empty web project using CLI command, dotnet new web –name EmptyWeb
2. Add EmptyWeb project into Lab3 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. Discuss briefly 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. Add third project named EmployeeCRUD and implement the employ and employeecontext models as well as CRUD operations with views and models. You can see the code base used for StudentCRUD project for this exercise. Use MS Sql server database and migration tools to create DB and a table for this task. Explain model binding, routing and validation concepts citing examples from EmployCRUD app.

EmpId (PK), EmpName(40chars), Address(50chars), and age(int)