2.13 Razor View Engine



This section will guide you to:

* Implement and test the View engine

This guide has six subsections, namely:

2.13.1 Creating an ASP.NET MVC project to show the capabilities of View engine

2.13.2 Changing Index.cshtml to show students and teachers list using the View engine

2.13.3 Making changes to HomeController to handle the changed view

2.13.4 Building the project

2.13.5 Publishing and running the project

2.13.6 Pushing the code to your GitHub repositories

**Step 2.13.1:** Creating an ASP.NET MVC project to show the capabilities of View engine

* Open Visual Studio.
* From the top menu, select **File->New->Project.**
* In **Create A New Project** screen, select **ASP.NET Core Web Application** from the list of available project types and click on **Next.**
* Enter **Project Name** as **Phase3Section2.26** and click on **Create.**
* From the list of project sub-types, choose **Web Application (Model-View-Controller)** and uncheck **Configure for HTTPS.** Click on **Create.**
* This will create the files for an ASP.NET MVC project.

**Step 2.13.2:** Changing Index.cshtml to show students and teachers list using the View engine

* In **Solution Explorer**,expand **Views->Home** and double-click index.cshtml.
* Enter the following script:

@{

ViewData["Title"] = "Home Page";

}

<div **class**="container">

<br />

<div **class**="row">

<div **class**="col-sm-7">

<a href="/Home/Index?t=students">List Of Students</a><br />

<a href="/Home/Index?t=teachers">List Of Teachers</a><br />

</div>

</div>

<div **class**="clearfix row">

<div **class**="col-sm-7 text-center">

@ViewData["message"]

<br>

@**if** (ViewData["stype"] == "students")

{

**var** listStudents = (List<String>)ViewData["list"];

**foreach** (String i **in** (List<String>)ViewData["list"])

{

<text>@i<br /></text>

}

}

@**if** (ViewData["stype"] == "teachers")

{

**foreach** (String i **in** (List<String>)ViewData["list"])

{

<text>@i<br /></text>

}

}

</div>

</div>

</div>

**Step 2.13.3:** Making changes to HomeController to handle the changed view

* In **Solution Explorer**,expand **Controllers** and double click **HomeController**.
* Enter the following code:

**using** System;

**using** System.Collections.Generic;

**using** System.Diagnostics;

**using** System.Linq;

**using** System.Threading.Tasks;

**using** Microsoft.AspNetCore.Mvc;

**using** Phase3Section2.\_26.Models;

**namespace** Phase3Section2.\_26.Controllers

{

**public** **class** HomeController : Controller

{

**public** IActionResult Index()

{

**if** (Request.Query["t"] == "")

ViewData["message"] = "Please select a list type";

**else** **if** (Request.Query["t"] == "students")

{

ViewData["stype"] = "students";

ViewData["message"] = "List Of Students";

List<String> list = **new** List<**string**>();

**for**(**int** i =1; i <= 10; i++)

{

list.Add("Student " + i.ToString());

}

ViewData["list"] = list;

}

**else** **if** (Request.Query["t"] == "teachers")

{

ViewData["stype"] = "teachers";

ViewData["message"] = "List Of Teachers";

List<String> list = **new** List<**string**>();

**for** (**int** i = 1; i <= 10; i++)

{

list.Add("Teacher " + i.ToString());

}

ViewData["list"] = list;

}

**return** View();

}

**public** IActionResult About()

{

ViewData["Message"] = "Your application description page.";

**return** View();

}

**public** IActionResult Contact()

{

ViewData["Message"] = "Your contact page.";

**return** View();

}

**public** IActionResult Privacy()

{

**return** View();

}

[ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = **true**)]

**public** IActionResult Error()

{

**return** View(**new** ErrorViewModel { RequestId = Activity.Current?.Id ?? HttpContext.TraceIdentifier });

}

}

}

**Step 2.13.4:** Building the project

* From the top menu, choose **Build->Build Solution.**
* If any compile errors are shown, fix them as required.

**Step 2.13.5:** Publishing and running the project

* From the top menu, select **Debug->Start Without Debugging.**
* This will execute the program in the default browser.
* To see the student pages, go to the url: http://localhost:xxxx/students.

**Step 2.13.6:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit -m “Changes have been committed.”

Push the files to the folder you created initially using the following command:

git push -u origin master