Challenge 3

Wednesday, November 6, 2024

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| Challenge 3:  - Create a .Net MVC Project  - Create a new menu nav bar called category  - Create a razor page and render hardcoded category data in table format  - Run the project |

please guild step by step (include which file, which folder and all details, include what for 'using', where to put the code, what to update or replace, packages need to install) to do the Challenge 3: - Create a .Net MVC Project - Create a new menu nav bar called category - Create a razor page and render hardcoded category data in table format - Run the project

**ChatGPT đã nói:**

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Here’s a step-by-step guide to complete Challenge 3 in a .NET MVC project.

**Prerequisites**

Make sure you have:

* Visual Studio installed with ASP.NET and web development workload.
* .NET SDK (at least version compatible with MVC).

**Step 1: Create a .NET MVC Project**

1. **Open Visual Studio.**
2. **Go to File > New > Project**.
3. Choose **ASP.NET Web Application (.NET Framework)** (if you’re using .NET Framework) or **ASP.NET Core Web App (Model-View-Controller)** if using .NET Core.
4. **Name your project** (e.g., CategoryProject) and choose a location.
5. Select **MVC** as the template, then click **Create**.

**Step 2: Create a New Menu Navbar Item Called "Category"**

1. In **Solution Explorer**, go to the Views/Shared folder.
2. Open **\_Layout.cshtml**. This is the layout page that holds the main navigation.
3. In the <nav> section where other menu items are, add the following code for the "Category" menu:  
     
   html  
   Sao chép mã  
   <li class="nav-item">  
    <a class="nav-link" asp-controller="Category" asp-action="Index">Category</a>  
   </li>  
     
   This links to a new Category controller and an Index action we will create in the next steps.

**Step 3: Create a Razor Page to Display Category Data in a Table**

1. In **Solution Explorer**, right-click the **Controllers** folder.
2. Select **Add > Controller**.
3. Choose **MVC Controller - Empty**, name it **CategoryController**, and click **Add**.
4. In CategoryController.cs, add the following code:  
     
   csharp  
   Sao chép mã  
   using Microsoft.AspNetCore.Mvc;  
   using System.Collections.Generic;  
     
   namespace CategoryProject.Controllers  
   {  
    public class CategoryController : Controller  
    {  
    public IActionResult Index()  
    {  
    var categories = new List<string> { "Electronics", "Books", "Clothing", "Furniture" };  
    return View(categories);  
    }  
    }  
   }  
     
   This creates a hardcoded list of categories and passes it to the view.
5. Now, in **Solution Explorer**, right-click the **Views** folder and add a new folder named **Category**.
6. Right-click the **Category** folder, select **Add > Razor Page**, and name it **Index.cshtml**.
7. In Index.cshtml, add the following code to display the categories in a table:  
     
   html  
   Sao chép mã  
   @model List<string>  
     
   <h2>Category List</h2>  
   <table class="table">  
    <thead>  
    <tr>  
    <th>Category Name</th>  
    </tr>  
    </thead>  
    <tbody>  
    @foreach (var category in Model)  
    {  
    <tr>  
    <td>@category</td>  
    </tr>  
    }  
    </tbody>  
   </table>

**Step 4: Run the Project**

1. **Save all files**.
2. **Set the startup project** (right-click the project in Solution Explorer > Set as StartUp Project).
3. Click **Start** or press F5 to run the project.
4. In the browser, navigate to /Category or click the "Category" link in the navbar.

This should display a table with hardcoded category data on the "Category" page. Let me know if you encounter any issues!

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**Bạn đã nói:**

sorry, I forgot to mention I am using Visual Studio Code

**ChatGPT đã nói:**

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Đã cập nhật bộ nhớ

No problem! Here’s a guide adapted for Visual Studio Code:

**Prerequisites**

Ensure you have:

* Visual Studio Code installed
* .NET SDK (compatible with .NET MVC)

**Step 1: Create a .NET MVC Project in Visual Studio Code**

1. **Open a terminal in Visual Studio Code**.
2. Navigate to the folder where you want to create your project.
3. Run the following command to create a new MVC project:  
     
   bash  
   Sao chép mã  
   dotnet new mvc -n CategoryProject  
     
   This will create a new folder named CategoryProject with the project files.
4. Open the newly created folder in Visual Studio Code:  
     
   bash  
   Sao chép mã  
   cd CategoryProject  
   code .

**Step 2: Add a "Category" Menu Item to the Navbar**

1. In **Visual Studio Code**, open the Views/Shared/\_Layout.cshtml file.
2. Locate the <nav> section where other menu items are listed.
3. Add the following code for the "Category" menu:  
     
   html  
   Sao chép mã  
   <li class="nav-item">  
    <a class="nav-link" asp-controller="Category" asp-action="Index">Category</a>  
   </li>  
     
   This adds a link to a Category controller and an Index action.

**Step 3: Create a Razor Page to Display Hardcoded Category Data in a Table**

1. In the **Explorer**, create a new file in the Controllers folder named CategoryController.cs.
2. Add the following code to CategoryController.cs:  
     
   csharp  
   Sao chép mã  
   using Microsoft.AspNetCore.Mvc;  
   using System.Collections.Generic;  
     
   namespace CategoryProject.Controllers  
   {  
    public class CategoryController : Controller  
    {  
    public IActionResult Index()  
    {  
    var categories = new List<string> { "Electronics", "Books", "Clothing", "Furniture" };  
    return View(categories);  
    }  
    }  
   }  
     
   This controller creates a hardcoded list of categories and passes it to the view.
3. In **Explorer**, create a new folder in the Views directory named **Category**.
4. Inside the Views/Category folder, create a file named **Index.cshtml**.
5. In Index.cshtml, add the following code to display the categories in a table:  
     
   html  
   Sao chép mã  
   @model List<string>  
     
   <h2>Category List</h2>  
   <table class="table">  
    <thead>  
    <tr>  
    <th>Category Name</th>  
    </tr>  
    </thead>  
    <tbody>  
    @foreach (var category in Model)  
    {  
    <tr>  
    <td>@category</td>  
    </tr>  
    }  
    </tbody>  
   </table>

**Step 4: Run the Project**

1. In the terminal, navigate to the project folder if you're not already there:  
     
   bash  
   Sao chép mã  
   cd CategoryProject
2. Run the project with:  
     
   bash  
   Sao chép mã  
   dotnet run
3. Open a web browser and go to <http://localhost:5000/Category> or click on the "Category" link in the navbar.

You should now see a page displaying a table with the hardcoded category data. Let me know if you have any questions!