Developing ASP.NET MVC 5 Views

Exercise 1: Adding a View for Photo Display

Task 1: Add a new display view.

1. Copy starter folder from MNS/Kursus/--Views to your local machine

2. Build Solution

3. Open the PhotoController.cs code window.

4. Add a new view to the **Display** action in the **PhotoController** by using the following information:
   Name: **Display**
   Scaffold template: **Empty**
   Model class: **Photo**
   Data Context Class: **PhotoSharingContext**

Task 2: Complete the photo display view.

1. Add a title to the display view by using the Title property of the Model object.
2. Add an H2 element to the body page to display the photo title on the page by using the Title property of the Model object.
3. Add an <img> tag to display the photo on the page by using the following information:
   Width: 800
   src: Empty

4. Add the URL.Action helper to the src attribute of the <img> tag by using the following information:
   Method: Url.Action()
   Action name: GetImage
   Controller name: Photo
   Route values: new { id=Model.PhotoID }

5. Add a **P** element to display the Description property from the model by using the following information:
   Helper: Html.DisplayFor
   Lamda expression: model =>model.Description

6. Add a **P** element to display the UserName property from the model by using the following information:
   Helpers: Html.DisplayNameFor
   HtmlDisplayFor
   Lamda expression: model => model.UserName

7. Add a **P** element to display the CreatedDate property from the model by using the following nformation:
   Helpers:
   Html.DisplayNameFor
   Html.DisplayFor
   Lamda expression: model => model.CreatedDate

8. Add a **P** element to display a link to the Index controller action by using the following information:
   Helper: HTML.ActionLink
   Content: Back to List
   -->@Html.ActionLink("Back to List", "Index")
9. Save the Display.cshtml file.

Exercise 2: Adding a View for New Photos

Task 1: Add a new create view.

1. Create a new view for the **Create** action of the **PhotoController** class by using the following information:
   Name: **Create**
   Scaffold template: **Empty**
   Model class: **Photo**
   Data Context Class: **PhotoSharingContext**

Task 2: Complete the photo create view.

1. Add the following title to the Create view:
   Title: **Create New Photo**
2. Add an **H2** element to the body page to display the heading as **Create New Photo**.
3. Create a form on the page by using the following information within an **@using** statement:
   Helper: **Html.BeginForm**
   Action: **Create**
   Controller name: **Photo**
   Form method: **FormMethod.Post**
   Parameter: Pass the HTML attribute **enctype = "multipart/form-data"**

4. In the form, use the **Html.ValidationSummary** helper to render validation messages.
5. After the **ValidationSummary**, add a **P** element to display controls for the **Title** property of the model by using the following information:
   Helpers:
   LabelFor
   EditorFor
   ValidationMessageFor

6. After the controls for the **Title** property, add a **P** element to display a label for the **PhotoFile**

property, and an **<input>** tag by using the following information:

Helper: **LabelFor**
Input type: **file**
Name: **Image**

7. After the **PhotoFile** controls, add a **P** element to display controls for the **Description** property of the model by using the following information:

Helpers:
LabelFor
EditorFor
ValidationMessageFor

8. After the **Description** controls, add a **P** element to display read-only controls for the **UserName** property of the model by using the following information:

Helpers:
LabelFor
DisplayFor

9. After the **UserName** controls, add a **P** element to display read-only controls for the **CreatedDate** property of the model by using the following information:

Helpers:
LabelFor
DisplayFor

10. After the **CreatedDate** controls, add a **P** element that contains an **<input>** tag by using the following information:

Input type: **submit**
Value: **Create**

Add an action link to the **Index** action with the text **Back to List**.

11. Save the Create.cshtml file.

Exercise 3: Creating and Using a Partial View

Task 1: Add a gallery action to the Photo Controller.

1. Add a new action to the PhotoController.cs file by using the following information:

Annotation: **ChildActionOnly**
Scope: **public**
Return Type: **ActionResult**
Name: **_PhotoGallery**
Parameter: an **Integer** called **number** with a default value of 0

2. Create a new **List** of **Photo** objects named **photos**. Add an **if** statement, to set **photos** to include all

the **Photos** in the **context** object, if the **number** parameter is zero.

3. If the **number** parameter is not zero, set **photos** to list the most recent **Photo** objects. The number of **Photo** objects in the list should be the **number** attribute.
   → `(LINQ Query).Take(number).ToList()`

4. Pass the **photos** object to the partial view **_PhotoGallery** and return the view.
5. Save the PhotoController.cs file.

Task 2: Add a photo gallery partial view.

1. Create a new partial view for the **_PhotoGallery** action in the PhotoController.cs file by using the following information:
   Name: **_PhotoGallery**
   Template: **Empty**
   Model class: **Photo**
   Data Context Class: **PhotoSharingContext**
   Create as a Partial view : **Checked**
2. Move the _PhotoGallery.cshtml view file from the Photo folder to the Shared folder.

Task 3: Complete the photo gallery partial view.

1. In the _PhotoGallery.cshtml partial view file, bind the view to an enumerable list of **Photo** model objects. → IEumerable()
2. In the _PhotoGallery.cshtml partial view file, add a **Foreach** statement that loops through all the items in the **Model**.
3. In the **Foreach** statement, add an **H3** element that renders the **item.Title** property.
4. After the **H3** element, add an **if** statement that checks that the **item.PhotoFile** value is not null.
   → item.PhotoFile != null
5. If the **item.PhotoFile** value is not null, render an **<img>** tag with **width 200**. Call the **UrlAction** helper to set the **src** attribute by using the following information:
   Action: **GetImage**
   Controller: **Photo**
   Parameters: for the **id** parameter, pass **item.PhotoID**
   → src = "@Url.Action("GetImage", "Photo", new { id = item.PhotoID })"

6. After the **if** statement, add a **P** element, and call the **@Html.DisplayFor** helper to render the label **Created By:** followed by the value of the **item.UserName** property.
7. After the **UserName** display controls, add a **P** element, and call the **@Html.DisplayFor** helper to render the label **Created On:** followed by the value of the **item.CreatedDate** property.
8. After the **CreatedDate** display controls, call the **Html.ActionLink** helper to render a link by using the following information:
   Link text: **Display**
   View name: **Display**
   Parameters: pass the **item.PhotoID** value as the **id** parameter
9. Save the _PhotoGallery.cshtml file.

Task 4: Use the photo gallery partial view.

1. Modify the **Index** action in the PhotoController.cs so that no model class is passed to the **Index** view.
2. Create a view for the **Index** action in the PhotoController.cs file by using the following information:
   Name: **Index**
   View type: **Empty Without Model**

3. In the Index.cshtml file, change the title to **All Photos**.
4. Add an **H2** element to the page body to display the heading as **All Photos**
5. Add a **P** element to add a link to the **Create** action in the **Photo** controller by using the following information:
   Helper: **Html.ActionLink**
   Link text: **Add a Photo**
   Action name: **Create**
   Controller name: **Photo**
6. Insert the **_PhotoGallery** partial view by using the following information:
   Helper: **Html.Action**
   Action name: **_PhotoGallery**
   Controller name: **Photo**
   → @Html.Action("_PhotoGallery", "Photo")

7. Save the Index.cshtml file

Exercise 4: Adding a Home Controller and Testing the Views

Task 1: Add a Controller and View for the home page.

1. Add a new **Controller** to the home page by using the following information:
   Controller name: **HomeController**
   Template: **Empty MVC Controller**

2. Add an Empty(without model) view to the **Index** action in **HomeController** by using the following information:
3. Change the title of the page to **Welcome to Adventure Works Photo Sharing**.
4. Add the following text to the home page:
   Welcome to Adventure Works Photo Sharing! Use this site to share your adventures.
5. Add an **H2** element to display the heading as **Latest Photos**.

6. Insert the **_PhotoGallery** partial view by using the following information:
   Helper: **Html.Action**
   Action name: **_PhotoGallery**
   Controller name: **Photo**
   Parameters: for the **number** parameter, pass the value **3**

7. Save the Index.cshtml file.

Task 2: Run the web application.

1. Start the Photo Sharing application in browser.
2. Verify the number of photos displayed on the home page.
3. Display a photo of your choice to verify whether the display shows the required information.
4. Verify the number of photos displayed on the **Photo/index** page.
5. Add a new photo.

6. Close Application