Workshop 02: Model 2 (MVC)

1. Your project must be named <StudentCode>_ws1. E.g. CE123456_WS2
2. Create a database named db_<StudentCode>_WS2. E.g. db_CE123456_WS2
3. In db_<StudentCode>_WS2 database:

   Create a table named "*category*" that has a structure as below:

cat_id	int, PK
cat_name	nvarchar(50)
cat_description	nvarchar(1000)

Create another table named "*product*" that has a structure as below:

pro_id	int, PK
pro_name	varchar(50)
pro_price	bigint
pro_quantity	int
pro_description	nvarchar(500)
cat_id	int, FK

Create another table named "*users*" that has a structure as below:

id	int, PK
username	varchar(100), unique key
password	varchar(100)
role	int

4. You must input 03 samples for category table and 05 samples for product table as below

Category		
1	Apple	
2	Samsung	
3	Xiaomi	

Product					
1	IPhone 15	22.000.000	20	New	1
2	IPhone 14	17.000.000	10	Like New	1
3	Samsung S24	22.000.000	15	New	2
4	Redmi K30 5G	5.500.000	30	China	3

5	Redmi Note 14	13.000.000	12	China	3

users			
id	**username**	**password**	**role**
1	admin	e10adc3949ba59abbe56e057f20f883e	1
2	guest	900150983cd24fb0d6963f7d28e17f72	2

URLs for functions in this workshop:

Function	URL
Login	http://localhost:8080/Login
List of Product	http://localhost:8080/Product
Add new a product	http://localhost:8080/Product?action=create
Edit a product	http://localhost:8080/Product?action=update&id=3
Delete a product	http://localhost:8080/Product?action=delete&id=3
Logout	http://localhost:8080/Logout

5. Write a login page:

Element	Html tag	Attribute	Note
Page title	h1		value="Login"
Username input	input	#u_id	name="username"
Password input	input	#u_pwd	name="password"
Login button	input/button	#submit	

a. Validate the inputted data in login form.

b. User must login to access other resources.

c. If login fails, show the error is "The user or password are wrong".

d. The website will be redirected to the "**Product**" URL when the login is success successfully. Using session to save login information.

6. Create a page named "***product.jsp***" page to show all of products in database.

Products   Products   Hi, admin, logout

Products list

ID	Product Name	Product Price	Product Quantity	Product Description	Category Name	Action
1	IPhone 15	22000000	20	New	Apple	Edit Delete
2	IPhone 14	17000000	10	Like New	Apple	Edit Delete
3	Samsung S24	22000000	15	New	Samsung	Edit Delete
4	Redmi K30 5G	5500000	30	China	Xiaomi	Edit Delete
5	Redmi Note 14	13000000	12	China	Xiaomi	Edit Delete

Element	Html tag	Attribute	Note
Page title	h1		value = Products list
Add New button	a	.btn .btn-success	
Edit buttons	a	.btn .btn-primary	
Delete buttons	a	.btn .btn-danger	

7. When the user clicks the "***Create***" button, they will be redirected to "***Product?action=create***".

Products   Products   Hi, admin, logout

Create new product

Product Name

Product Price

Product Quantity

Product Description

Category Name

Apple   ⌄

← Back   📄 Create

Element	Html tag	Attribute	Note
Page title	h1		value = "Create new product"
Product Name input	input	#pName	
Product Price input	input	#pPrice	
Product Quantity input	input	#pQuantity	
Product Description input	input	#pDescription	
Category Name select	select	#cId	
Back button	a/button	#back	Go back to "Product"
Create button	input/button	#submit	

a. The user must input all information for the product to insert into database. You must validate the inputted data before submitting to db.

b. At the Category Name, you must show the names of categories for user to choose, but when the user clicks on the Create button, you must send the Category ID.

c. The website will be redirected to "***Product***" when a product is created successfully.

8. In the "***Product***" page, when users click the edit button, they will be redirected to "***Product?action=update***" and all product info will be shown on the form.

Element	Html tag	Attribute	Note
Page title	h1		value = "Update product"
Product Id input	input	#pId	disable
Product Name input	input	#pName	
Product Price input	input	#pPrice	
Product Quantity input	input	#pQuantity	
Product Description input	input	#pDescription	

Category Name select	select	#cId	Category Name Apple Apple Samsung Xiaomi
Back button	a/button	#back	Go back to "Product"
Create button	input/button	#submit	

a. You must validate ID, If ID isn't found, redirect to "**Product**" URL.

b. You must validate the inputted data before submitting to db.

c. The website will be redirected to "**Product**" URL after updating in database.

9. In "***Product***" page, when user click on delete button, they will be redirected to "***Product?action=delete***" to confirm. When user click on delete button, the data of this product will be deleted in database.

Product   Products   Hi, admin, logout

Delete Product

Are you sure to delete movie **Redmi K30 5G** with ID = **4**?

Product ID

4

Product Name

Redmi K30 5G

Product Price

5500000

Product Quantity

30

Product Description

China

Category Name

Xiaomi

↵ Back   🗑 Delete

Element	Html tag	Attribute	Note
Page title	h1		value = "Delete product"
Product name text	b	.p_name	
Product id text	b	.p_id	
Product Id input	input	#pId	disable

Product Name input	input	#pName	disable
Product Price input	input	#pPrice	disable
Product Quantity input	input	#pQuantity	disable
Product Description input	input	#pDescription	disable
Category Name select	select	#cId	disable
Back button	a/button	#back	Go back to "Product"
Create button	input/button	#submit	