DAY3 MVC

- State 3 cases that ViewModel is a must and one of this cases Security case
1. **Security** – Hides sensitive fields.
2. **Performance Optimization** – Reduces unnecessary data transfer.
3. **Merging Data** – Combines multiple entities into a single response.

(self-study)

- 405 Error :
1. (form method=Get) بيحصل لو انا عامله ف

   ([httppost] resource) بس انا في الاساس عامله علي ال

2. URL اغلب الوقت هيبعت بس موجود مش او صح مش بتاعي (404 error)

LinkedIn article about Model Binding

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Understanding Model Binding in Web Development

When building web applications, one of the most common tasks is handling data sent from the client (browser) to the server. Whether it's a form , a query string, or Route data in the URL, developers need to extract and use this data efficiently. This is where **Model Binding** use feature the process of mapping HTTP request data to action method parameters or model objects.

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What is Model Binding?

Model Binding is a mechanism that automatically maps data from an HTTP request to the parameters of an action method or to properties of a model object.
After the server identifies the class and the method to execute, if the method has parameters, Model Binding automatically converts the data sent in the HTTP request into values that match those parameters.

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How Does Model Binding Work?
Model Binders look for parameter values in the HTTP request from the following sources:

1. **Route Parameters**:
 o Example: In the URL path /Home/ProductDetail/2
the value 2 is a route parameter .

2. **Query String Parameters**:
 o Example: In the URL path /Home/ProductDetail?id=2,
the value 2 is a query string parameter.

3. **Form Parameters**:
 o Example: In an HTML form like this:

```
<form method="post" action="/Home/ProductDetail">
 <input type="text" name="id" value="2" />
 <input type="submit" />
</form>
```

The value 2 is a form parameter.

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What Types of Data Can Model Binders Handle?
1. **Primitive Types**:
 o Examples: int, string, DateTime, bool.
2. **Complex Types**:
 o Examples: Classes, structs.
3. **Collection Types**:
 o Examples: Arrays, lists, or dictionaries.