

Exercises

Summary

Build a system following the example in the lecture, but for video games rather than songs! Essentially, add video games to a `CopyOnWriteArrayList` via `ModelAttribute` and `Form Binding`!

Less explicit instruction given today so you spend some time on the details! Figure it out!

Friendly advice is to TYPE (not copy paste) from the lectures. The form details in particular are much better experienced by typing them, and I can almost guarantee you'll remember it more if you do.

Step 1

Create a new project called `ex41_formBinding`. Add in Spring Web, Thymeleaf, and Lombok repos.

Create a POJO to store video games in an appropriate package. You should store the following information in it:

- Long id
- String title
- String publisher
- String platform
- String[] platforms = {"your", "favourite", "consoles!"}
- BigDecimal price

Lombok it!

Step 2

Create a `GameController` class in an appropriate package and annotate it correctly.

Inside, create a global List capable of storing your video game instances in a Thread safe fashion.

Create an index method mapping GETs to `"/`. Make sure your method grabs a `Model` model as a method parameter too!

Add a blank instance of your game POJO to the model. Add a blank instance of your `gameList` to the model.

Return (dispatch!) to an `index.html` page.

Step 3

This one's on you! Details and typos matter a lot here! Figure it out!

Create an index.html page capable of displaying your list of games from the model.

Also, create a form where you can enter the data to add a new game too.

POST back to `"/addGame"`.

Hint: I used this for my price field in the form:

```
Price: <input type="number" step="0.01" th:field="*{price}" /><br>
```

Step 4

At your GameController again, create a POST mapping method for `"/addGame"` that accepts your form data as an `@ModelAttribute`.

Add your new game to your list. Add a blank game to the Model. Add your updated List to the model.

Return (dispatch!) back to index again.

Try it! Spend some time on this one! This is something you're likely to see a LOT more this semester!

Please upload a screenshot of at least two games added to your list through your form and displayed above it in the HTML!