

Quiz Questions

(1) Query Parameters

← Classroom

MVC and Web
Query Param

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Problem Submissions Doubts

Query parameters
Easy • Score 20/20

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Problem statement
Suppose you are building a Spring Boot application that provides a weather forecast API to clients. One of the endpoints in your API allows clients to get the weather forecast for a specific location. You decide to use query parameters to allow clients to specify the location. Which of the following is an example of a valid URL that uses query parameters to get the weather forecast for New York City?

Options: Pick one correct answer from below

☒ "https://example.com/weather/forecast?location=new+york+city" ✓

☐ "https://example.com/weather/forecast/new+york+city"

☐ "https://example.com/weather/forecast?city=New+York"

☐ None of the above

Solution description
The URL in option a uses the location query parameter to specify the location, which is "new york city". This approach is more intuitive and readable for clients familiar with the location name they want to get the weather forecast. Option b uses the location as a part of the URL path, which is not the recommended way to specify query parameters. Option c uses city as the query parameter name instead of location.

(2) Difference Between

← Classroom

MVC and Web
Difference between

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Problem Submissions Doubts

Difference between
Easy • Score 20/20

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Problem statement
What is the main difference between `<%` and `<%=` in JSP?

Options: Pick one correct answer from below

☐ `<%` is used to declare variables, while `<%=` is used to define methods.

☐ `<%` is used to output the value of an expression, while `<%=` is used to write Java code.

☐ `<%` and `<%=` are interchangeable and can be used to perform the same actions

☒ `<%` is used to write Java code, while `<%=` is used to output the value of an expression ✓

Solution description
`<%` is a JSP scriptlet tag that allows you to write Java code directly into the JSP page.
`<%=` is a JSP expression tag that allows you to output the value of an expression in the JSP page.
The main difference between `<%` and `<%=` is that `<%` is used to write Java code, while `<%=` is used to output the value of an expression.

(3) To display date

← Classroom

MVC and Web
To display date

?

V

Problem Submissions Doubts

✓ To display date

Easy • Score 20/20

Send feedback

Problem statement

You are working on a JSP page that needs to display the current date and time. Which of the following code snippets is correct?

Options: Pick one correct answer from below

☐ <% Date now = new Date(); %>

☐ <% System.out.println(new Date()); %>

☐ <%= Date now = new Date() %>

☒ <%= new Date() %>

Solution description

The correct way to output the current date and time in a JSP page is to use the <%= tag, which evaluates an expression and outputs the result to the response stream.

Option D uses <%= to output the result of the new Date() expression, which returns the current date and time.

Option A declares a variable now but does not output it to the response stream.

Option B uses the <% tag, which writes Java code but does not output anything to the response stream.

Option C tries to use both the <% and <%= tags, which is incorrect syntax.

(4) Model Map

← Classroom

MVC and Web
ModelMap

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V

Problem Submissions Doubts

✓ ModelMap

Easy • Score 20/20

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Problem statement

What is the value of the "id" parameter used in the message added to the ModelMap?

```
***
@RequestMapping("/support")
public String getSupportPage(@RequestParam("id") String id, ModelMap map) {
    map.addAttribute("message", "Welcome to support page " + id);
    return "support";
}
```

Options: Pick one correct answer from below

☒ It is the value of the request parameter passed in the URL.

☐ It is the name of the view that will be rendered.

☐ It is a constant value that is hard-coded in the method.

☐ It is the name of the ModelMap attribute.

Solution description

In the code snippet, the "id" parameter is extracted from the URL using the @RequestParam annotation and its value is assigned to the "id" variable of type String. Then, the value of this variable is included in the message that is added to the ModelMap object using the addAttribute() method. The message itself is "Welcome to support page" concatenated with the value of the "id" variable, which is the actual value of the "id" parameter passed in the URL. Therefore, the value of the "id" parameter is used in the message added to the ModelMap.

(5) Mode and ModelMap

← Classroom

MVC and Web
Model and ModelMap

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V

Problem Submissions Doubts

✓ Model and ModelMap

Easy • Score 20/20

Send feedback

Problem statement

What is the main difference between Model and ModelMap in Spring MVC?

Options: Pick one correct answer from below

☒ Model is a single attribute container while ModelMap is a map of attributes.

☐ Model is thread-safe while ModelMap is not.

☐ Model can only be used in GET requests while ModelMap can be used in both GET and POST requests.

☐ Model is used for rendering data while ModelMap is used for handling data bindings.

Solution description

Model is a single-value container, while ModelMap is a key-value map that can hold multiple attributes. When using Model, you can only pass one object at a time, while with ModelMap, you can pass multiple objects with different keys.

(6) User's profile page

← Classroom

MVC and Web
user's profile page

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V

Problem Submissions Doubts

✓ user's profile page

Easy • Score 20/20

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Problem statement

You are building a Spring Boot web application that displays a user's profile page. The profile page should display the user's name, email address, and a list of their recent orders. Which of the following should you use?

Options: One or more answers may be correct

☒ Model ✓

☒ ModelAndView ✓

☐ Both Model and ModelAndView can be used interchangeably

☐ Neither Model nor ModelAndView

Solution description

For this scenario, you should use either Model or ModelAndView. Model is a simple interface provided by Spring Boot that allows you to pass data to your view templates. It provides methods to add attributes to the model, which can be accessed in the view. ModelAndView is a class that extends Model and provides additional features like specifying the view name to use, setting the HTTP status code, and more. In this case, you could use Model to pass the user's name, email address, and list of recent orders as attributes to the view. Alternatively, you could use ModelAndView to specify the view name and pass the same attributes to the view. So the correct answer is either a) Model or b) ModelAndView. Option c) is incorrect because while both can be used, they are not interchangeable, as ModelAndView provides additional functionality. Option d) is also incorrect as you need either Model or ModelAndView to pass data to the view.

(7) Welcome message

← Classroom

MVC and Web
welcome message

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Problem Submissions Doubts

✓ welcome message

Easy • Score 20/20

Send feedback

Problem statement

You are building a Spring Boot web application that displays a welcome message on the home page. The welcome message should be passed to the view, but you do not need to specify the name of the view. Which of the following should you use?

Options: Pick one correct answer from below

☒ Model ✓

☐ ModelAndView

☐ Both Model and ModelAndView can be used interchangeably

☐ Neither Model nor ModelAndView

Solution description

Since you do not need to specify the name of the view, using Model is a straightforward way to pass data to the default view that Spring Boot uses for the home page. You can add the welcome message as an attribute to the model and it will be accessible in the view. ModelAndView, on the other hand, is used when you need to specify the name of the view or provide additional functionality like setting the HTTP status code or defining a redirect. So the correct answer is a) Model. Option b) is incorrect because ModelAndView is used to specify the name of the view. Option c) is incorrect because ModelAndView provides additional functionality that is not needed in this scenario. Option d) is also incorrect as you need either Model or ModelAndView to pass data to the view.

(8) Model Map

← Classroom

MVC and Web
ModelMap

?

V

Problem

Submissions

Doubts

✓ ModelMap

Easy • Score 20/20

Send feedback

Problem statement

Which of the following statements is true about ModelMap in Spring Framework?

Options: Pick one correct answer from below

☐ ModelMap is used to represent the database in Spring MVC.

☐ ModelMap is used to represent the view in Spring MVC.

☐ ModelMap is used to represent the controller in Spring MVC.

☒ ModelMap is used to pass data from the controller to the view in Spring MVC. ✓

Solution description

The correct answer is D) ModelMap is used to pass data from the controller to the view in Spring MVC. In Spring MVC, the ModelMap is a data structure used by the controller to pass data to the view. It is essentially a map of attribute names and their values, and it is used to represent the model in the Model-View-Controller (MVC) architecture.

(9) Path Variable

← Classroom

MVC and Web
PathVariable

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V

Problem

Submissions

Doubts

✓ PathVariable

Easy • Score 20/20

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Problem statement

What is the purpose of @PathVariable annotation in Spring?

Options: Pick one correct answer from below

☐ To extract a parameter from the request body

☒ b) To extract a parameter from the URL path ✓

☐ To extract a parameter from the request header

☐ To extract a parameter from the request parameter

Solution description

The purpose of the @PathVariable annotation in Spring is to extract a variable or parameter from the URL path and use it as a method parameter in a Spring Controller. It is often used in RESTful web services to retrieve specific information related to a particular resource or entity identified by the URI or URL path.