

Short Answer:

Answer the following questions with complete sentences in your own words. You are encouraged to conduct your own research online or through other methods before answering the questions. If you research online, please consult multiple sources before you write down your answers. You are expected to be able to explain your answers in detail

1. What is Dispatch Servlet? How does it work?
2. What is ViewResolver in Spring?
3. Is the DispatcherServlet instantiated via an application context?
4. What is the @Controller annotation used for? How can you create a controller without an annotation?
5. How is an incoming request mapped to a controller and mapped to a method?
6. What are the differences between @RequestParam and @PathVariable?

Coding Questions:

Write code in Java to solve following problems. Please write your own answers. You are highly encouraged to present more than one way to answer the questions. Please follow best practice when you write the code so that it would be easily readable, maintainable, and efficient. Clearly state your assumptions if you have any. You may discuss with others on the questions, but please write your own code.

1. Use Spring Boot with JSP to build a simple web application

Book Management System:

Book

- name
- author
- isbn — unique
- publish date

Add Book

- Use RequestParam and RequestBody to add a book
- If the isbn provided already existed, then give an error

List Book

- Use PathVariable to list book with
 - Author
 - Publish Date

Update Book

- Use RequestParam to update a book

Note: Use Hibernate as underlying data access; Use Spring MVC structure