Java – Data Driven Web Apps

Study List

SOFTWARE GUILD

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Java – Data Driven Web Apps Study List

This document contains a list of Java concepts that you should know and be comfortable discussing in preparation for technical interviews and your first days on the job.

HTTP

1. What is HTTP?
2. What are the four common HTTP methods?
3. What HTTP method is usually associated with pressing a button on a form?
4. What HTTP method is usually associated with clicking a link?
5. What is a URL?
6. What are the three main parts of the HTTP response?
7. What is the HTTP response status code for success?
8. What is the HTTP response status code for a page that is not found?
9. What is the HTTP response status code for an internal server error?
10. What is the HTTP response status code for forbidden?
11. What is the HTTP response status code for a redirect?
12. What are URL parameters?
13. How are URL parameters specified?
14. What is REST?

JavaScript

1. What is a function?
2. What are the main data types of JavaScript?
3. What's the difference between == and === ?
4. What is AJAX?
5. What is XMLHttpRequest?
6. What is JSON?
7. What is a callback function?
8. What is an anonymous function?
9. What is jQuery?
10. What are some benefits to using jQuery?
11. How does Bootstrap use Javascript?
12. What is AngularJS?
13. What are some benefits to using AngularJS?

Tomcat/Servlets/JSP

1. What is Tomcat?
2. What is a Servlet?
3. What are 5 benefits of a servlet container?
4. What is a JSP?
5. What is JSP Expression Language?
6. What is JSTL?
7. What does "Reference Implementation" mean?
8. What are 5 benefits of a servlet container?
9. What is a Model-1 application?

10. What is a Model-2 application?
11. What is a WAR file?
12. What is a Web Service?
13. What does API stand for?

Spring MVC

1. What is Spring MVC?
2. What view technology are we using for our Spring MVC Projects?
3. What is the Front Controller Pattern?
4. What role does the Dispatcher Servlet play in a Spring MVC web app?
5. What role does the Controller play in a Spring MVC web app?
6. What role does the View Resolver play in a Spring MVC web app?
7. How are URL patterns mapped to controller code in Spring MVC?
8. What does the @Controller annotation do?
9. What does the @ResponseBody annotation do?
10. What does the @RequestBody annotation do?
11. What does the @RequestParam annotation do?
12. What does the @Valid annotation do?
13. What does the @ModelAttribute annotation do?
14. What does the @ControllerAdvice annotation do?
15. What does the @ExceptionHandler annotation do?

Databases

1. What is a relational database?
2. What are some advantages of relational databases?
3. What is the purpose of a database management system?
4. Explain the difference between a MySQL server and a MySQL client.
5. What is MySQL?
6. What is MySQL Workbench?
7. What is PHPMyAdmin?
8. What is normalization?
9. What is a primary key?
10. What is a foreign key?
11. What is a one-to-one relationship? Give an example.
12. What is a one-to-many relationship? Give an example.
13. What is a many-to-many relationship? Give an example.
14. What is referential integrity?
15. What is a transaction?
16. What does commit mean?
17. What does rollback mean?
18. What is a dangling reference?
19. What is a bridge table?
20. What types of relationships require a bridge table?
21. What is a validation table?
22. What does cascade mean?
23. What is a SQL select statement?
24. What is a SQL delete statement?
25. What is a SQL update statement?
26. What is a SQL join statement?

27. What are the types of SQL join statements? What are the differences?
28. What is a Cartesian product (SQL cross join)?
29. What are the advantages of using Spring JDBC Templates?
30. What is a prepared statement?
31. When should prepared statements be used?
32. Why should prepared statements be used?
33. Why should transactions be used?
34. What can happen if transactions are not used when needed?
35. What is JDBC?
36. Do all SQL statements require a transaction?
37. What is an ORM?