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SR.NO	Project NAME	Technology
1	Online E-Learning Platform Hub	React+Springboot+MySQL
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySQL
3	Tour and Travel management System	React+Springboot+MySQL
4	Election commition of India (online Voting System)	React+Springboot+MySQL
5	HomeRental Booking System	React+Springboot+MySQL
6	Event Management System	React+Springboot+MySQL
7	Hotel Management System	React+Springboot+MySQL
8	Agriculture web Project	React+Springboot+MySQL
9	AirLine Reservation System / Flight booking System	React+Springboot+MySQL
10	E-commerce web Project	React+Springboot+MySQL
11	Hospital Management System	React+Springboot+MySQL
12	E-RTO Driving licence portal	React+Springboot+MySQL
13	Transpotation Services portal	React+Springboot+MySQL
14	Courier Services Portal / Courier Management System	React+Springboot+MySQL
15	Online Food Delivery Portal	React+Springboot+MySQL
16	Muncipal Corporation Management	React+Springboot+MySQL
17	Gym Management System	React+Springboot+MySQL
18	Bike/Car ental System Portal	React+Springboot+MySQL
19	CharityDonation web project	React+Springboot+MySQL
20	Movie Booking System	React+Springboot+MySQL

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21	Job Portal web project	React+Springboot+MySql
22	LIC Insurance Portal	React+Springboot+MySql
23	Employee Management System	React+Springboot+MySql
24	Payroll Management System	React+Springboot+MySql
25	RealEstate Property Project	React+Springboot+MySql
26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal	React+Springboot+MySql
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql

41	Bus Tickit Booking Project	React+Springboot+MySQL
42	Fruite Delivery Project	React+Springboot+MySQL
43	Woodworks Bed Shop	React+Springboot+MySQL
44	Online Dairy Product sell Project	React+Springboot+MySQL
45	Online E-Pharma medicine sell Project	React+Springboot+MySQL
46	FarmerMarketplace Web Project	React+Springboot+MySQL
47	Online Cloth Store Project	React+Springboot+MySQL
48	Train Ticket Booking Project	React+Springboot+MySQL
49	Quizz Application Project	JSP+Springboot+MySQL
50	Hotel Room Booking Project	React+Springboot+MySQL
51	Online Crime Reporting Portal Project	React+Springboot+MySQL
52	Online Child Adoption Portal Project	React+Springboot+MySQL
53	online Pizza Delivery System Project	React+Springboot+MySQL
54	Online Social Complaint Portal Project	React+Springboot+MySQL
55	Electric Vehical management system Project	React+Springboot+MySQL
56	Online mess / Tiffin management System Project	React+Springboot+MySQL
57		React+Springboot+MySQL
58		React+Springboot+MySQL
59		React+Springboot+MySQL
60		React+Springboot+MySQL

Spring Boot + React JS + MySQL Project List

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=IiOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FIzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynLouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5iF
10	Tour and Travel System Project version 2.0	https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W_GRw?si=Y_jv1xV_BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSISm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWA OzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802i7N

Review Test [Web Java] 19-12-2022

Max:Marks-10

Time: 10 min

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What is artifactId? *

1 point

- A unique base name of the company
- The name of the jar without version
- It is the unique base name of the primary artifact being generated by this maven project.
- includes project information and configuration information for Maven such as construction directory, source directory, test source directory etc...

What is groupid in maven *

1 point

- The name of the jar without version
- This element indicates the unique identifier of the organization or group that created the project.
- Includes project information and configuration information for Maven such as construction directory, source directory, test source directory etc...

CREATE TABLE..." Command is used to create which type of table in Mysql * 1 point
?

- Virtual Tables
- Permanent Tables
- Temporary Tables
- Both 2 and 3
- All of the above



What should be the correct order to close the database resource? What should be the correct order to close the database resource?

* 2 points

- Connection, Statements, and then ResultSet
- ResultSet, Connection, and then Statements
- Statements, ResultSet, and then Connection
- ResultSet, Statements, and then Connection

Which methods are required to load a database driver in JDBC?

* 1 point

- getConnection()
- registerDriver()
- forName()
- Both b and c

Which of the following method is static and synchronized in JDBC API?

* 1 point

- getConnection()
- prepareCall()
- executeUpdate()
- executeQuery()



What is the correct sequence to create a database connection? *

2 points

- i. Import JDBC packages.
 - ii. Open a connection to the database.
 - iii. Load and register the JDBC driver.
 - iv. Execute the statement object and return a query resultset.
 - v. Create a statement object to perform a query.
 - vi. Close the resultset and statement objects.
 - vii. Process the resultset.
 - viii. Close the connection.
- i, ii, iii, v, iv, vii, viii, vi
- i, iii, ii, v, iv, vii, vi, viii
- ii, i, iii, iv, viii, vii, v, vi
- i, iii, ii, iv, v, vi, vii, viii

What are the major components of the JDBC? *

1 point

- DriverManager, Driver, Connection, Statement, and ResultSet
- DriverManager, Driver, Connection, and Statement
- DriverManager, Statement, and ResultSet
- DriverManager, Connection, Statement, and ResultSet

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Web Java Review Test-2

20 December 2022

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How many statement objects can be created using a Connection? *

- 1
- 2
- 3
- Multiple

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Which of the following is used to call stored procedure? *

- Statement
- PreparedStatement
- CallableStatement
- CalledStatement

Which of the following is an advantage of using PreparedStatement in Java? *

- Slow performance
- Encourages SQL injection
- More memory usage
- Prevents SQL injection

What POJO stands for? *

plain old Java object

Name *

Pranit Tondvalkar



What is the use of try & catch? *

- It allows us to manually handle the exception
- It allows to fix errors
- It prevents automatic terminating of the program in cases when an exception occurs
- All of the mentioned

Which driver is called as thin-driver in JDBC? *

- Type-4 driver
- Type-2 driver
- Type-3 driver
- Type-1 driver

Which of the following is true about Maven central repository? *

- This repository is managed by Maven community
- It is not required to be configured
- It requires internet access to be searched
- All of the above.



What is the correct sequence to create a database connection? *

- A. Execute the query
- B. get connection with the database
- C. load the database drivers
- D. create statement to execute query
- E. process data from the ResultSet
- F. store result of the query into ResultSet
- G. Close the database connection

- A C F D E B G
- C D A B F E G
- B A D C E F G
- C B D A F E G

Synchronized & static method in JDBC API is: *

- getConnection()
- prepareCall()
- executeUpdate()
- executeQuery()

Parameterized queries can be executed by? *

- ParameterizedStatement
- PreparedStatement
- CallableStatement and Parameterized Statement
- All kinds of Statements



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Review Test [JDBC] 22-12-2022

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Which of the following package contains servlet classes? *

1 point

- javax.servlet
- javax.servlet.http
- Both of the above.
- None of the above.

Which of the following is true about servlets? *

1 point

- Servlets execute within the address space of a Web server.
- Servlets are platform-independent because they are written in Java.
- The full functionality of the Java class libraries is available to a servlet.
- All of the above

What are Servlets? *

1 point

- Java Servlets are programs that run on a Web or Application server.
- Java Servlets act as a middle layer between a request coming from a Web browser or other HTTP client and databases or applications on the HTTP server.
- Both of the above.
- None of the above



What is the default port number of Tomcat *

1 point

- 7001
- 8080
- 8443
- 8001

Which of the following is true about service method of servlet? *

1 point

- The servlet container i. e. webserver calls the service method to handle requests coming from the client.
- Each time the server receives a request for a servlet, the server spawns a new thread and calls service.
- The service method checks the HTTP request type GET, POST, PUT, DELETE, etc. and calls doGet, doPost, doPut, doDelete, etc. methods as appropriate.
- All of the above.



Match the following *

3 points

This method determines the type of Http request

This method has the possibility to throw the ServletException.

This method performs various tasks such as releasing memory allocated to the servlet, releasing resources that are allocated to the servlet and other cleanup activities

init() method



service() method



destroy() method



Which of the following is the correct order of servlet life cycle phase methods?

* 1 point

- init, service, destroy
- initialize, service, destroy
- init, execute, destroy
- init, service, delete

What is javax.servlet.Servlet? *

1 point

Abstract class



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Review Test [Servlet & JSP] - 24-12-2022

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Which of these protocols are supported by HttpServlet? *

1 point

- ftp
- http , https
- smtp
- All of the Above

What is the maximum size of cookie? *

1 point

- 4 KB
- 4 MB
- 4 bytes
- 40 KB



Difference Between *

1 point

request.getSession() and
request.getSession(true)

- Retrieves the current session, and if one doesn't exist yet, returns null.
- Retrieve the current session, and if one doesn't exist yet, create it.
- Both are True
- None of Above

Select the correct statement About cookies *

1 point

- They are temporary internet files that are used to store client's data on client's machine.
- Cookies are created and maintained by web browser. After expiration time , cookies are deleted from user's machine.
- Cookies can be created by using client side and server side scripting both.
- Only First two options are correct
- All options are correct

Match the following *

4 points

It accepts i/p from view and decides which model needs to be invoked , then it accepts result from the model and decides which view needs to be displayed to the user.

It represents the user interface of the application

It represents real world entities and business logic of the application

Divide and Simplify. It promotes the idea of parallel development of application components.

MVC Architecture (Model View Controller)

-
-
-
-

Model

-
-
-
-

View

-
-
-
-

Controller

-
-
-
-



Match the following with Object and Class/interface *

9 points

javax.servlet.http.HttpServletRequest javax.servlet.http.HttpServletResponse

- | | | |
|-------------|----------------------------------|----------------------------------|
| request | <input checked="" type="radio"/> | <input type="radio"/> |
| response | <input type="radio"/> | <input checked="" type="radio"/> |
| out | <input type="radio"/> | <input type="radio"/> |
| session | <input type="radio"/> | <input type="radio"/> |
| config | <input type="radio"/> | <input type="radio"/> |
| application | <input type="radio"/> | <input type="radio"/> |
| pageContext | <input type="radio"/> | <input type="radio"/> |
| exception | <input type="radio"/> | <input type="radio"/> |
| page | <input type="radio"/> | <input type="radio"/> |

Which object stores references to the request and response objects? *

2 points

- sessionContext
- pageContext
- HttpSession
- sessionAttribute

Which one of the following is correct for directive in JSP? *

1 point

- <%!directive%>
- c<%directive%>
- <%=directive%>
- <%@directive%>



Match the following *

6 points

This boolean attribute is used to specify error page that will be displayed to the user in case any unhandled exception occurs in the current jsp page.

This boolean attribute is used to decide whether or not the current jsp page will participate in session tracking. (default : true)

This boolean attribute is used to indicate that the current jsp page is working as an error page for some other jsp page. (default : false)

It is used to import required packages and classes in the current jsp page.

It is used to set contentType header for the generated response.

contentType	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
import	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
session	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
errorPage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
isErrorPage	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
isELIgnored	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Java code is embedded under which tag in JSP? *

1 point

- Declaration
- Scriptlet
- Expression
- Comment

Which of the following is not a directive in JSP? *

2 points

- page directive
- Include directive
- Taglib directive
- Command directive



Can <!--comment--> and <%--comment--%> be used alternatively in JSP? * 1 point

- True
 False

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Request is instance of which class? *

1 point

- Request
- HttpRequest
- HttpServletRequest
- ServletRequest

Which of the following is not a directive? *

1 point

- include
- page
- export
- useBean

Which of the following attributes are mandatory in <jsp:useBean /> tag? *

1 point

- id, type
- id, class
- type, class
- type,property



Which of the following is true about language attribute? *

1 point

- The language attribute indicates the programming language used in scripting the servlet.
- The language attribute indicates the programming language used in scripting the html page.
- The language attribute indicates the programming language used in scripting the JSP page.
- None of the above.

In JSP Action tags which tags are used for bean development? *

1 point

- jsp:useBean
- jsp:setProperty
- jsp:getProperty
- All mentioned above

Which two interfaces does the javax.servlet.jsp package have? *

1 point

- JspPage
- HttpJspPage
- JspWriter
- PageContext
- Both A & B



The method forward(request, response) will *

1 point

- return back to the same method from where the forward was invoked
- not return back to the same method from where the forward was invoked and the web pages navigation continues
- Both A and B are correct
- None of the above

In JSP config is instance of which class? *

1 point

- javax.servlet.ServletContext
- javax.servlet.ServletConfig
- javax.servlet.Context
- javax.servlet.Application

What is Full form of JSTL? *

1 point

- JSP Tag Library
- JavaServer Pages Standard Tag Library
- Java Standard Tag Library
- None of the above.



Which tag is used to set a value of a JavaBean? *

1 point

- <c:choose>
- <c:set>
- <c:param>
- <c:forward>

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Which of the following are most common configuration methods of Hibernate Configuration

* 1 point

- XML Configuration hibernate.cfg.xml
- Mapping files and XML Configuration hibernate.cfg.xml
- web.config
- http.conf

The hibernate XML configuration file name is? *

1 point

- hibernate.cfg.xml
- hibernate.cg.xml
- hibernate.config.xml
- None of the mentioned

Which of the following is not a core interface of Hibernate? *

1 point

- Configuration
- Criteria
- SessionManagement
- Session



What is ORM? *

1 point

- ORM is the automated persistence of objects in a Java application to the tables in a relational database
- ORM stands for object-relational mapping
- Both A & B
- None of the mentioned

Which method is used to save the state of the given instance from the underlying database?

* 1 point

- Session.load()
- Session.save()
- Session.store()
- Session.keep()

Hibernate SessionFactory represent which level of cache? *

1 point

- Second Level
- Third Level
- First Level
- Fourth Level



HQL Stands for *

1 point

- Hibernate Queue Language
- Hibernate Query Language
- Hypertext Query Language
- HighSpeed Query Language

Which method is easy for a Java programmer to add a criterion? *

1 point

- SQL
- HCQL
- HQL
- All of the above

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Match the following

2 points

It is used to perform select operations on database	It reads the configuration file and loads the connection related info and hibernate specific info. It will be used to create session factory object.	It represents transaction in database operations. It is used to make changes permanent or take back the changes.	It is used to run HQL queries.
Configuration	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Criteria	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Query	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Transaction	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

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A Session is used to get a physical connection with a database. *

1 point

True

False



Which of the following is true about @Column annotation? *

1 point

- The @Column annotation is used to specify the details of the column to which a field or property will be mapped.
- The @Column annotation is applied on a class.
- Both of the above.
- None of the above

Which of the following Is-A mapping, requires discriminator column? *

1 point

- Single Table Mapping
- Joined Table Mapping
- Table Per Class Mapping correct
- None

.....method provides an identifier with the intent of an insert query being * 1 point
executed immediately for getting the identifier. It does not matter whether it
is outside or inside a transaction.

- Persist()
- save()
- get()
- Load()



.....method fails to execute a given insert query in case it is placed outside transaction boundaries.

* 1 point

- Persist()
- save()
- get()
- Load()

What does the Configuration Interface do? *

1 point

- Request triggers the export of complete or partial portal configurations into XML.
- The configuration interface is used to set up the Hibernate session being used by locating mapping documents.
- Response it indicates the success or failure of the requested operation.
- Backup and restore solution on a production server, you should rely on low-level database

Where are Object/Relational Mappings defined in Hibernate?

* 1 point

- Mappings Receive notifications for events from objects. An event generates when objects are loaded or deleted,
- Usually, mappings are defined in XML document. Map files serve as instruction to Hibernate on how to map class or classes to database.
- Close integrated with second level cache, implemented by Hibernate for Query result sets.



What is SessionFactory ?*

1 point

- SessionFactory used whenever we perform any operation and based upon that operation there is some change in database.
- SessionFactory is an Interface which is present in org.hibernate package and it is used to create Session Object.
- interface exposes some extra functionality beyond that provided by Session.iterate() and Session.find()

Difference between get() vs load() method in Hibernate -- select correct options.

* 2 points

- load(): If you are sure that the Hibernate Session does not contain an already persistent instance with the same id .
- get(): Helps in merging your modifications at any time without considering the state of the Session
- load(): It will throw an exception if an object with an ID passed to them is not found.
- get(): Will return null.
- load(): It can return proxy without hitting the database unless required.
- get(): It always goes to the database
- load(): Will return null.
- get(): It will throw an exception if an object with an ID passed to them is not found.
- load():It always goes to the database
- get(): It can return proxy without hitting the database unless required.

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Which of the following option is not a state of object in Hibernate? *

1 point

- Detached()
- Attached()
- Persistent()
- Transient()

_____ is not a core interface of Hibernate. *

1 point

- Criteria
- Session
- Configuration
- SessionManagement

Which of the following method is used inside session only? *

1 point

- merge()
- update()
- end()
- kill()



In which file database table configuration is stored? *

1 point

- .dbm
- .hbm
- .ora
- .sql

Which of the following is not a session method? *

1 point

- Session.persist()
- Session.saveorupdate()
- Session.remove()
- Session.save()

Which of the following is not a core component of Hibernate? *

1 point

- Configuration
- Session
- JDBC
- SessionFactory



_____are most common configuration methods of Hibernate Configuration

* 1 point

- Mapping files
- Http.conf
- Web.config
- XML Configuration hibernate.cfg.xml

What is lazy loading? *

1 point

- used primarily for read-mostly data in cases where it's essential to prevent stale data in concurrent transactions
- This strategy works with data that can be altered and can tolerate a small chance of stale data.
- where objects are loaded as needed, instead of an entire page,
- used in the presentation layer when using JavaScript and server-side code before processing.

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Match the following *

2 points

This state describes an object that was formerly Persistent and associated with a Hibernate session. Developers can reattach the object to a Hibernate session by using either update() or saveOrUpdate().

This state describes objects associated with a Hibernate session.

This state describes new objects that are created in Java but not associated with a Hibernate session.

Transient.

Persistent

Detached

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Which of the following is actual representation of the Spring IoC container * 1 point ?

- ApplicationContext
- XmlBeanFactory
- BeanFactory
- WebApplicationContext

Which of the following is not a module in Spring Framework ? *

1 point

- DAO
- ORM
- MVC
- None of these

What do you mean by 'bean' ?

1 point

- object
- class
- container
- xml file



What is dependency injection? *

1 point

- It is one of the Spring modules.
- It is a technique to get dependencies from any project.
- It is used to promote loose coupling in code.
- It is a design pattern that implements the Inversion of control (IoC) pattern for software applications

What types of dependency injection does Spring support? *

1 point

- Based on the constructor and setters
- Based on the constructor, setters, and getters
- Based on setters, getters, and properties
- Based on the constructor, setters, and properties

Spring is a _____ framework? *

1 point

- free
- open source
- under license
- proprietary



Which of the following is not a Spring module? *

1 point

- AOP
- O/R Integration
- Spring MVC
- HTML/JSP

Which class does the IoC container represent? *

1 point

- ApplicationContext
- ServletContext
- RootContext
- WebApplicationContext

What types of Dependency injection does spring supports? *

1 point

- Constructor based, Setter based
- Constructor based, Setter based, Getter Based
- Setter based, Getter based, Properties based
- Constructor based, Setter based, Properties based



What is true about cross-cutting concerns? *

1 point

- Cross-cutting concerns are conceptually separate from the application's business logic
- The functions that span multiple points of an application are called cross cutting concerns.
- Logging is one of the examples of cross cutting concerns.
- All of the above

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The term in the MVC architecture that receives events is called *

1 point

- Receiver
- Controller
- Transmitter
- Modulator

After Controller has finished handling a render request, it returns:-*

1 point

- model name
- view name
- view object
- all of the mentioned

What is Dependency Injection? *

1 point

- One of the spring module.
- A technique to get dependencies of any project.
- Used to promote tight coupling in code
- A design pattern which implements Inversion of Control for software applications.



Controller In Spring Is A _____? *

1 point

- abstract class
- concrete class
- final class
- interface

What types of dependency injection does Spring support? *

1 point

- Based on the constructor and setters
- Based on the constructor, setters, and getters
- Based on setters, getters, and properties
- Based on the constructor, setters, and properties

Dependency Injection Or IOC Is A _____? *

1 point

- Design Pattern
- Framework
- Java Module
- ORM Framework



How many types of injection method in Spring *

1 point

- One
- Two
- Three
- Four

What is stand for MVC *

1 point

- Middle view Controller
- Model view Controller
- Module View Controller
- None

Dependencies are injected into the component by the *

1 point

- Servlet container
- Java container
- IOC container
- None



IOC represent- *

1 point

- Dependency lookup
- Dependency injection
- Traditional approach
- Both a&b
- All of above

What is true about cross-cutting concerns? *

1 point

- Cross-cutting concerns are conceptually separate from the application's business logic
- The functions that span multiple points of an application are called cross cutting concerns.
- Logging is one of the examples of cross cutting concerns.
- All of the above

@Entity which means that this is a mapped *

1 point

- Java class
- Entity object
- Entity class



Spring MVC which is the central servlet that receive request and dispatches then to the appropriate controllers 1 point

- DispatcherServlet
- Servlet
- ActionServlet
- None of the above

[Clear selection](#)

Spring MVC is a request based framework

1 point

- Yes
- No

[Clear selection](#)

What is byName mode of autowiring? *

1 point

- Default setting which means no autowiring and you should use explicit bean reference for wiring.
- Autowiring by property name. Spring tries to match and wire its properties with the beans defined by the same names in the configuration file.
- Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
- Similar to byType, but type applies to constructor arguments

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Match the following *

4 points

To provide a view with usable data it gives us the ability to pass a collection of values and treat these values as if they were within a Map: a templated view to render the web page This interface allows us to pass all the information required by Spring MVC in one return:

The View

ModelAndView

ModelMap

Model

*

1 point

If we use Maven for Spring's applications, where we can add dependencies?

- config.xml
- context.xml
- pom.xml
- web.xml



What is Dependency Injection? *

1 point

- One of the spring module.
- A technique to get dependencies of any project.
- Used to promote tight coupling in code
- A design pattern which implements Inversion of Control for software applications.

*

1 point

When Dependency Injections are injected by Spring?

- coding time
- runtime
- compile time

What types of dependency injection does Spring support? *

1 point

- Based on the constructor and setters
- Based on the constructor, setters, and getters
- Based on setters, getters, and properties
- Based on the constructor, setters, and properties



1 point

AOP provides the ability to implement

- MVC logic
- Bean logic
- crosscutting logic
- constraint logic

[Clear selection](#)

*

1 point

By default, Spring will first look for which validator?

- spring validator
- hibernate validator
- bean validator
- xml validator

*

1 point

What is IOC?

- A Java bean
- A frame work
- Externalize the management of component dependencies
- Depend on DI



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Which option is incorrect about Spring Framework? *

1 point

- It is a lightweight framework.
- Spring applications are loosely coupled because of dependency injection.
- It offers only Java-based annotations for configuration options.
- It provides declarative support for caching, validation, transaction, and formatting

Soniya is using Spring Data JPA for the data layer implementations in her web application. She wrote a custom method in the repository. She is using 'update' query to implement the functionality of the method. Which one of the following annotation she should use on that method? *

1 point

- @Updating
- @Updated
- @Modifying
- @Modified

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Suppose you are working on a Spring based Web Application. Generally, there are three ways to implement a core feature of Spring framework in your application. Below are the three ways:

* 1 point

- 1) Using Annotation 2) Using XML configuration 3) Implementing Interfaces provided by Spring framework

Which option is correct if you want to define Bean Lifecycle methods in your project:

- Only Option (1)
- Option (1) & Option (2)
- Option (2) & Option (3)
- All three

Which option is incorrect about @Component annotation? *

1 point

- It scans our application for classes annotated with @Component
- It instantiates classes whenever required
- It supports Spring's auto-detection mechanism
- It doesn't inject any specified dependencies



Melissa works in an application where Spring is being used. She wrote a custom function in a class that handles bean life cycle disposal. By mistake, She also implemented the DisposableBean interface and overrides the default method provided by the Spring container in the same class. What will happen if she runs the application? *

- Only default method will be called
- Only custom method will be called
- First default method and then custom method will be called
- First custom method and then default method will be called

What is the dependency need to create a Spring boot web Application *

1 point

- spring-boot-starter-web
- spring-boot-starter-test
- spring-boot-maven-plugin
- spring-boot-html

What is the Starting point a Spring Boot Application *

1 point

- @Controller
- @SpringBootApplication
- @RestController
- @Service



Database Objects must be annotated with *

1 point

- @Table
- @Entity
- @Column
- @Repository

@Autowired can be used for *

1 point

- Include a Repository in a Controller
- Include a Service in a Controller
- Include a Component in a Controller
- All the Above

What is default Web server used in Spring boot Application? *

1 point

- Nginx
- Apache Tomcat
- Lighttpd
- JSP



If we use maven for Spring application ,where we can add dependencies * 1 point

- web.xml
- pom.xml
- context.xml
- config.xml

Spring MVC which is the central servlet that receive request and dispatchers 1 point
then to the appropriate controllers

- DispatcherServlet
- Servlet
- ActionServlet
- None of the above

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Which of the following is correct about RESTful web services? *

1 point

- Web services based on REST Architecture are known as RESTful web services.
- These web services use HTTP methods to implement the concept of REST architecture.
- A RESTful web service usually defines a URI, Uniform Resource Identifier a service, provides resource representation such as JSON and set of HTTP Methods
- All of the above.

How would you configure a RESTful URL parameter that supports a search for a book based on its ID? * 1 point

- GET /{id}/books/
- GET /books/{id}
- GET /book?id={id}
- GET /books?id={id}

What is the name of the default environment configuration file of Spring Boot

* 1 point

- configuration.spring
- configuration.yml
- configuration.xml
- application.properties
- application.json



Which of the annotation is not a Spring boot annotation? *

1 point

- @Controller
- @RestController
- @Service
- @Data

What is the HTTP Status Code Related to Page Not Found? *

1 point

- 402
- 404
- 403
- 401

What does the Acronym REST Stand for? *

1 point

- Representational State Transform
- Representational State Transfer
- Represent State Transform
- Represent State Transfer



RESTful web services make use of FTP protocol as a medium of communication between client and server.

* 1 point

- true
- false

SOAP is an _____ to let applications exchange information over HTTP * 1 point

- .NET-based protocol
- JAVA-based protocol
- PHP-based protocol
- XML-based protocol

Long form of SOAP is _____. *

1 point

- Simplified Object Arbitrary Protocol
- Simple Object Access Protocol
- Secure Object Access Protocol
- None of these



REST is the standard interface between

1 point

- two machines in a LAN
- http client and user
- http client and servers
- none of the above

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What is Spring Security? *

1 point

- Spring Security makes it easy to create stand-alone, production-grade Spring based Applications
- Spring Security is essentially just a bunch of servlet filters that enable Java applications to include authentication and authorization functionality.
- Spring Security is a layer in an application that facilitates communication between the controller and the persistence layer
- Spring Security combines hand-written documentation written with Asciidoctor and auto-generated snippets produced with Spring MVC Test

What is Spring security authentication *

2 points

- It is the ability to determine a user's authority to perform an action or to view data, assuming they have successfully logged in.
- This refers to the process of verifying the identity of the user, using the credentials provided when accessing certain restricted resources.
- Event happens at the start of the sprint where the scrum team discusses the items in the product backlog and decides which ones will form part of the current sprint.
- It describes how those classes are configured as well as introduced to each other.

What is Spring security Authorization *

1 point

- It is the ability to determine a user's authority to perform an action or to view data, assuming they have successfully logged in.
- This refers to the process of verifying the identity of the user, using the credentials provided when accessing certain restricted resources.
- Event happens at the start of the sprint where the scrum team discusses the items in the product backlog and decides which ones will form part of the current sprint.
- It describes how those classes are configured as well as introduced to each other



What do you mean by basic authentication? *

1 point

- It applies a hash function to username, password, HTTP method, and URI in order to send credentials in encrypted form.
- Send a username and password using the HTTP header to enable us to access the resource. Usernames and passwords are encoded using base64 encoding.
- This refers to the process of verifying the identity of the user, using the credentials provided when accessing certain restricted resources
- It is the ability to determine a user's authority to perform an action or to view data, assuming they have successfully logged in

What do you mean by digest authentication? *

1 point

- It applies a hash function to username, password, HTTP method, and URI in order to send credentials in encrypted form.
- Send a username and password using the HTTP header to enable us to access the resource. Usernames and passwords are encoded using base64 encoding.
- This refers to the process of verifying the identity of the user, using the credentials provided when accessing certain restricted resources
- It is the ability to determine a user's authority to perform an action or to view data, assuming they have successfully logged in

If we use maven for Spring's applications ,where can we add dependencies * 1 point

- Pom.xml
- Web.xml
- Context.xml
- Config.xml



What is the use of controller class in controller package.*

1 point

- Extract the user credentials from the Authentication request object which is passed as a parameter to our function
- This method returns a fully authenticated object including credentials on successful authentication.
- implementations to save and retrieve data from the database configured in our application.properties file.
- we will map our views to the endpoints and serve those views when the respective endpoints are hit.

Connection of database with Apache derby server requires.

1 point

- Derby client.jar
- Spring JDBC support
- None of the mentioned
- All of the mentioned

Clear selection

Handler method annotation

1 point

- @Before
- @Controller
- @After
- @RequestMapping

Clear selection



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Module End Exam- Web Java

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Which of the following is not a valid type of statement in JDBC? *

- CallableStatement
- PreparedStatement
- QueryStatement
- Statement



Which of the following is an advantage of using PreparedStatement in Java? *

- Slow Performance
- Prevents SQL injection
- Encourages SQL Injection
- More memory usage

Which of the following code can be used to redirect user to different url? *

- request.sendRedirect(location)
- response.sendRedirect(location)
- header.sendRedirect(location)
- None of the above

Which of the following code is used to set the session timeout in servlets? *

- Session.setMaxInactiveInterval(interval)
- Response.setMaxInactiveInterval(interval)
- Request.setMaxInactiveInterval(interval)
- None of the above



Which of the following are the valid scopes in JSP? *

- response, page, session, application
- request, page, session, global
- request, page, context, application
- request, page, session, application

Which of the following is true about include directive? *

- The include directive is used to include a file during the translation phase.
- Include directive tells the container to merge the content of other external files with the current JSP during the translation phase.
- Both of the above.
- None of the above

In JSP Action tags which tags are used for bean development? *

- jsp:useBean
- jsp:setProperty
- jsp:getProperty
- All mentioned above



How many jsp implicit objects are there? *

- 9
- 8
- 10
- 7

Which JSP Action tag is used to include the content of another resource, it may be jsp, html or servlet? *

- jsp:include
- jsp:forward
- jsp:param
- jsp:plugin

Which of the following is not a component/class of JDBC API? *

- ResultSet
- Statement
- ConnectionPool
- SQLException



Which of the following is correct about stored procedures? *

- A stored procedure is a group of SQL statements that form a logical unit and perform a particular task.
- Stored procedures can be called using CallableStatement class in JDBC API.
- Both of the above.
- None of the above.

The ResultSet.next method is used to move to the next row of the ResultSet, making it the current row. *

- True
- False

What is used to execute parameterized query? *

- Statement interface
- PreparedStatement interface
- ResultSet interface
- None of the above

A client types the URI : **http://www.someserver.com/servlet/SomeServlet?name=fred** , The value of name can be obtained by: *

- String name = request.getParameter("name");
- String name = request.getInitParameter("name");
- String name = response.getParameter("name");



Which two interfaces does the javax.servlet.jsp package have? *

- HttpJspPage
- JspWriter
- PageContext
- Both 2 & 3

Which of the following object is used to create SessionFactory object in hibernate? *

- Configuration
- Session
- Transaction
- SessionFactory

Which of the following is true about HQL? *

- HQL takes java objects in the same way as SQL takes tables
- HQL is a Object Oriented Query language
- HQL is database independent.
- All of the above.



Which of the following is true about @Column annotation? *

- The @Column annotation is used to specify the details of the column to which a field or property will be mapped.
- The @Column annotation is applied on a class.
- Both of the above.
- None of the above.

Which of the following is true about persistent state of a persistent entity? *

- You can make a transient instance persistent by associating it with a Session.
- A persistent instance has a representation in the database.
- A persistent instance has an identifier value.
- All of the above.

If entity is not annotated with @Table, what will happen? *

- Throws error because no table name is assigned.
- No error and class name is mapped with table name

To persist collections of embeddable type, hibernates uses *

- @OneToMany
- @ElementCollection



Which of the following is true about hibernate annotations? *

- Hibernate Annotations is the powerful way to provide the metadata for the Object and Relational Table mapping
- All the metadata is clubbed into the POJO java file along with the code this helps the user to understand the table structure and POJO simultaneously
- Both of the above
- None of the above

Transient and detached objects in hibernate are *

- Instances of persistent class that are not currently associated with session.
- Instances of persistent class which are in session.

Which class represents the IoC container? *

- ApplicationContext
- ServletContext

What is Pointcut? *

- This represents a point in your application where you can plug-in AOP aspect.
- This is a set of one or more joinpoints where an advice should be executed.
- This is used to inject values in objects.
- This is invoked during program execution by Spring AOP framework.



What are the types of advice? *

- then, after, after-returning, after-throwing, around
- When, after, after-returning, around
- Where, after, after-returning, after-throwing, around
- Before, after, after-returning, after-throwing, around

What is @Controller annotation? *

- The @Controller annotation indicates that a particular class serves the role of a controller.
- The @Controller annotation indicates how to control the transaction management.
- The @Controller annotation indicates how to control the dependency injection.
- The @Controller annotation indicates how to control the aspect programming.

What is Dependency Injection? *

- It is a design pattern which implements Inversion of Control for software applications.
- It is one of the spring module.
- It is a technique to get dependencies of any project.
- It is used to promote tight coupling in code.



What is true about cross-cutting concerns? *

- The functions that span multiple points of an application are called cross cutting concerns.
- Cross-cutting concerns are conceptually separate from the application's business logic.
- Logging is one of the examples of cross cutting concerns.
- All of the above.

Which of the statement is correct? *

- The JDBC module provides a JDBC-abstraction layer that removes the need to do tedious JDBC related coding.
- The ORM module provides integration layers for popular object-relational mapping APIs, including JPA, JDO, Hibernate, and iBatis.
- The Java Messaging Service JMS module contains features for producing and consuming messages.
- All of the above.

What types of Dependency injection does spring supports? *

- Constructor based, Setter based
- Constructor based, Setter based, Getter Based
- Setter based, Getter based, Properties based
- Constructor based, Setter based, Properties based



Which class is used to map a database row to a java object in spring? *

- ResultSet
- RowMapper
- RowSetMapper
- ResultSetMapper

Which statements are true about DispatcherServlet ? *

- DispatcherServlet is an expression of the "Front Controller" design pattern
- DispatcherServlet is declared in the web.xml of your web application.
- The Spring DispatcherServlet has a couple of special beans it uses in order to be able to process requests and render the appropriate views. These beans can be configured in WebApplicationContext.
- All the above

-- object is used by a request processing method to check validation failure? *

- ValidationErrors
- BindingResult
- ValidationBinding



Which annotation is required to receive a model object initialized by the request parameters, in a request processing method? *

- @RequestParam
- @ModelAttribute
- @ModelObject

Which of the following component intercepts all requests in a Spring MVC application? *

- FilterDispatcher
- DispatcherServlet
- ControllerServlet

Rest Template is used to *

- create applications that produced RESTful Web Services
- create applications that consume RESTful Web Services
- both
- None

Is this possible to change the port of Embedded Tomcat server in Spring boot? *

- True
- False



The ways to Bootstrapping a Spring Boot application is by using Spring Initializer? *

- True
- False

Spring Security provides : *

- Authentication
- Authorization
- Both of the above
- None of the above

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