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**Batch : End to End Batch**

**OPEN POINTS**

1. **Difference between NoSQL and SQL Database**

|  |  |
| --- | --- |
| **SQL** | **NoSQL** |
| SQL Database is a Relational Database and a structured one | NoSQL is a Non-relational database |
| SQL Databases have a well-designed pre-defined schema | NoSQL databases have a dynamic schema for document type or unstructured data |
| SQL databases are vertically scalable | NoSQL databases are horizontally scalable |

1. **PURPOSE OF JENKINS**

* Jenkins is an open source automation tool written in Java with plugins built for Continuous Integration purpose.
* It is used to build and test your software projects continuously making it easier for developers to integrate changes to the project, and making it easier for users to obtain a fresh build.
* It also allows you to continuously deliver your software by integrating with a large number of testing and deployment technologies.
* With Jenkins, organizations can accelerate the software development process through automation.
* Jenkins integrates development life-cycle processes of all kinds, including build, document, test, package, stage, deploy, static analysis and much more.

**3 .Advantages of Hibernate**

Hibernate ORM easily solves the data mismatch found between the object oriented classes of an application and relational database.

Hibernate is database independent

Hibernate supports a powerful query language called HQL (Hibernate Query Language).

The lazy-loading concept fetches only the necessary object that is required for the execution of an application.

Hibernate is highly scalable.

1. **Difference between TypeScript and JavaScript**

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| --- | --- |
| **TypeScript** | **JavaScript** |
| TypesScript is known as Object oriented programming language | JavaScript is a scripting language |
| TypeScript has a feature known as Static typing | JavaScript does not have this feature |
| TypeScript gives support for modules | JavaScript does not support modules |
| TypeScript has Interface | JavaScript does not have Interface |
| TypeScript support optional parameter function | JavaScript does not support optional parameter function |

1. **Frequently used starters in Spring Boot**

* spring-boot-starter
* spring-boot-starter-web
* spring-boot-starter-security
* spring-boot-starter-jdbc
* spring-boot-starter-data-jpa

1. **Spring bean life cycle methods**

**Initialization callbacks** - afterPropertiesSet()

**XML-based configuration**

use init-method attribute

<bean id = "exampleBean" class = "examples.ExampleBean" init-method = "init"/>

Following is the class definition

public class ExampleBean {

public void init() {

// do some initialization work

}}

**Destory callbacks** - destroy()

**XML-based configuration**

use destroy-method attribute

<bean id = "exampleBean" class = "examples.ExampleBean" destroy-method = "destroy"/>

Following is the class definition −

public class ExampleBean {

public void destroy() {

// do some destruction work

}}

**Spring bean life cycle annotations**

* @PostConstruct
* @PreDestroy

**7. Attributes used in @Query**

@Query(

value = "SELECT \* FROM Users ORDER BY id \n",

countQuery = "SELECT count(\*) FROM Users",

nativeQuery = true)

1. **Purpose of JWT**

Jwt are used to prove that the sent data actually created by an authentic source.

1. **Difference between observable and promise**

|  |  |
| --- | --- |
| **Observable** | **Promise** |
| An observable is like a st and allows to pass zero or more events where the callback is called for each event. | A Promise handles a single event when an async operation completes or fails. |
| allows to cancel the subscription | doesnot to cancel the subscription |

**10. Methods in Jpa Repository that are not in CRUD Repository**

findAll(Sort sort);

findAll(Pageable pageable);

saveAndFlush(S entity);

flush()

**11. Different Http Request methods in JMeter**

1. GET
2. POST
3. HEAD
4. PUT
5. OPTIONS
6. TRACE
7. DELETE
8. PATCH
9. PROPFIND

**12.Spring boot annotations for validation**

* @NotBlank
* @Min
* @Max
* @AssertTrue
* @size
* @Email