**Spring Framework**

**Persistence with JDBC:**

1. **What is the most important bean for persistence?**

**Ans:** The most important bean for persistence is data Source. An auto wiring of this data Source to the Data Access Object (DAO), allows the DAO to invoke data operations on the data Source.

1. **What is DAO?**

**Ans:** DAO (Data Access Object) is a popular structural pattern that allows us to isolate the business layer from the persistence layer(usually a relational database but could be any other persistence mechanism).

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1. **What is CRUD?**

**Ans:** CRUD is an acronym that refers to four functions create ,read ,update and delete. These four functions are considered necessary to implement a persistent storage application.

**Persistence with Hibernate:**

1. **What is Hibernate core class for persistence?**

**Ans: Hibernate session config**

1. **What is the recommended package call hierarchy for an application?**

**Ans: Recommended package call hierarchy for an application is:**

(controller → service → dao) + model + config

Controller

Layer

Browser

DataBase

Dao

Layer

Service

Layer

Model Layer

1. **What is the recommended way to emit output from a program?**

**Ans:** The recommended way to emit output from a program is by using logging dependencies because usage of system.out.println() is considered a bad approach. Also, it is the only mandatory external dependency

**Persistence with JPA:**

1. **What is Hibernate Spring JPA class for persistence?**

**Ans:** [HibernateJPAConfig.java](../../ch06_spring-jpa/src/main/java/bnymellon/training/spring/framework/config/HibernateJPAConfig.java)  
The class that configures the HibernateEntityManager to connect to a database. This is annotation based no need to upload any xml file to configure.

1. **What is the core hibernate class for persistence?**

**Ans:** ⇒ [HibernateSessionConfig.java](../../ch05_spring-hibernate/src/main/java/bnymellon/training/spring/framework/config/HibernateSessionConfig.java)  
The class sets up the Hibernate Session Factory bean to create a connection to the database.

1. **Why is one preferred over other?**

**Ans:** In hibernate class for persistence we require xml file to read all the configuration. But in the string JPA we don’t require to specify any xml to specify all the configuration.

**Persistence with Spring Data JPA:**

1. **What is the difference between JPA and Spring Data JPA?**

**Ans:** Spring Data JPA is an add on to JPA.