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• (a Controller is a stereotype for the presentation layer (spring-MVC).

provide the same functionality with respect to dependency injection.

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(a Service is a stereotype for the service layer.

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All of them are used to auto-detect Spring beans when context scanning is enabled and essentially

Summary

• Their only difference comes in their Specific purpose i.e. (a Controller is used in Spring MVC to define controller, which are first Spring bean and then the controller. (a Repository is used in the Data Access layer.



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- It is a class-level annotation.
- It is a specialization of @Component.
- The repository is a DAOs (Data Access Object) that access the database directly. The repository does all the operations related to the database.
- Here also we can use @component but it's always a good idea to choose the annotation based on their layer conventions because In most typical applications, we have distinct layers like data access, presentation, service, business, etc.
- Here also By using a specialized annotation we hit two birds with one stone. First, they are treated as Spring bean, and second, you can put special behavior required by that layer.
- @Repository's not only helping in annotation based configure but also catch Platform-specific exceptions and re-throw them as one of Spring's unified unchecked exception.

- It is also used at class level.
- It is a specialization of @Component.
- It tells the Spring that class contains the business logic.
- But at the end The main task of this annotation is also to mark the class capable to become a bean
 in Spring container similar to component. We can use @component also and it will work the same
 as this annotation does. They are technically the same

What will happen if we replace @Controller with @Component

By using @Controller annotation we do two things,
 We declare that this class is a Spring bean and should be created and maintained by Spring

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- ApplicationContext,

 We indicate that its a controller in MVC setup. This latter property is used by web-specific
- We indicate that its a controller in MVC setup. This latter property is used by web-specific tools and functionalities.
- DispatcherServlet will look for @RequestMapping on classes that are annotated using @Controller but not with @Component.
- This means @Component and @Controller are the same with respect to bean creation and dependency injection but @Controller is a specialized form of @Component. Even if you replace @Controller annotation with @Component, Spring can automatically detect and register the controller class but it may not work as you expect with respect to request mapping.

- The @Controller is a class-level annotation.
- It is a **specialization** of @Component.
- It marks a class as a web request handler. It is often used to serve web pages. It is used in conjunction with @RequestMapping annotation.
- We also use @RestController when we need to send response in JSON format directly.
- By default, @Controller returns a string that indicates which route to redirect. Its used mostly with JSPs. It returns URL to new JSP page where it has to be redirected
- They are nothing but the specialized form of @Component annotation for certain situations. Instead of using @Component on a controller class in Spring MVC, we use @Controller, which is more readable and appropriate.

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@Controller

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@Component

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How will container autowire the required bean in dependent bean at runtime? It first need to

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- ignore?
- @Component: It is a class-level annotation.
- It is used to mark a Java class as a bean.
- A Java class annotated with @Component is found during the classpath.
- The Spring Framework pick it up and configure it in the application context as a Spring Bean.
- It is a generic stereotype for any Spring-managed component. The specializations are @Controller, @Service, @Repository



- It's the way to implement Dependency Injection in spring / spring boot application.
- Container will provide the required bean to dependent bean at runtime
- Spring provides annotation-based auto-wiring by providing @Autowired annotation.
- It is used to autowire spring bean on setter methods, instance variable, and constructor.
- When we use @Autowired annotation, the spring container auto-wires the bean by matching data-type.

What is Transaction?

Every operation should be atomic in nature either do or die that means either commit or rollback.

