## EXPLORING JAKARTA CDI WITH SPRING FRAMEWORK

- Jakarta Contexts and Dependency Injection (CDI) is a powerful set of APIs that provide a standard way for Java applications to manage dependencies and context. It is an important part of the Jakarta EE platform and provides a flexible and extensible way to manage the lifecycle of Java objects.
- CDI provides a unified way to manage object dependencies and lifecycle management and allows developers to create more modular and maintainable code.
- CDI is a specification (interface). Spring Framework implements CDI.
- Important Inject API Annotations:
  - Inject (~Autowired in Spring)
  - Named (~Component in Spring)
  - o Qualifier
  - o Scope
  - o Singleton

To make use of CDI we should add dependency in pom.xml.

```
package com.naveen.learnspringframework.JakartaCDIExample;
import java.util.Arrays;
import
org.springframework.context.annotation.AnnotationConfigApplicationContext;
import org.springframework.context.annotation.ComponentScan;
import org.springframework.context.annotation.Configuration;
import jakarta.inject.Inject;
import jakarta.inject.Named;
//instead of @Component, there is an alternative that is @named.
@Named
class BusinessService{
    private DataService dataService;
    //instead of @autowired, there is an alternative that is @inject.
    @Inject
    public void setDataService(DataService dataService) {
        this.dataService = dataService;
        System.out.println("Data service dependency injected");
    }
    public DataService getDataService() {
        return dataService;
```

## **OUTPUT**:

```
08:57:54.004 [main] DEBUG org.springframework.beans.factory.support Data service dependency injected org.springframework.context.annotation.internalConfigurationAnnot org.springframework.context.annotation.internalAutowiredAnnotatic org.springframework.context.annotation.internalCommonAnnotationProrg.springframework.context.event.internalEventListenerProcessor org.springframework.context.event.internalEventListenerFactory jakartaCDIExampleApp businessService dataService com.naveen.learnspringframework.JakartaCDIExample.BusinessService 08:57:54.076 [main] DEBUG org.springframework.context.annotation.
```