

# CASE STUDY PRODUCT POJO CLASS

## Step 1: Product.java (POJO Class)

```
package com.example.model;
```

```
public class Product {  
    private String name;  
    private String description;  
  
    // Default constructor  
    public Product() {}  
  
    // Parameterized constructor  
    public Product(String name, String description) {  
        this.name = name;  
        this.description = description;  
    }  
  
    // Getters and Setters  
    public String getName() {  
        return name;  
    }  
  
    public void setName(String name) {  
        this.name = name;  
    }  
}
```

```

public String getDescription() {
    return description;
}

public void setDescription(String description) {
    this.description = description;
}

// toString() method
@Override
public String toString() {
    return "Product{name='" + name + "', description='" + description + "'}";
}
}

```

---

## Step 2: beans.xml (Enable CDI)

```

<!-- beans.xml -->
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="https://jakarta.ee/xml/ns/jakartaee"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/beans_3_0.xsd"
       bean-discovery-mode="all">
</beans>

```

---

## Step 3: App.java (Main class with @Inject)

```
package com.example.main;
```

```
import com.example.model.Product;
```

```
import jakarta.enterprise.context.Dependent;
```

```
import jakarta.enterprise.inject.se.SeContainer;
```

```
import jakarta.enterprise.inject.se.SeContainerInitializer;
```

```
import jakarta.inject.Inject;
```

```
@Dependent
```

```
public class App {
```

```
    @Inject
```

```
    private Product product;
```

```
    public void run() {
```

```
        product.setName("Laptop");
```

```
        product.setDescription("A high-performance laptop for developers");
```

```
        System.out.println("Product Info: " + product);
```

```
    }
```

```
    public static void main(String[] args) {
```

```
        SeContainerInitializer initializer = SeContainerInitializer.newInstance();
```

```
        try (SeContainer container = initializer.initialize()) {
```

```
            App app = container.select(App.class).get();
```

```
            app.run();
```

```
        }
```

```
}  
}
```

---

## **Maven Dependencies (pom.xml)**

```
<dependencies>  
  <!-- Jakarta CDI API -->  
  <dependency>  
    <groupId>jakarta.enterprise</groupId>  
    <artifactId>jakarta.enterprise.cdi-api</artifactId>  
    <version>4.0.1</version>  
    <scope>provided</scope>  
  </dependency>  
  
  <!-- Weld CDI SE Implementation -->  
  <dependency>  
    <groupId>org.jboss.weld.se</groupId>  
    <artifactId>weld-se-core</artifactId>  
    <version>5.1.0.Final</version>  
  </dependency>  
</dependencies>
```