

Use case 1:

We want to create only 1 Bean, either MySQLConnection or NoSQLConnection.

Use case 2:

We have 2 components, sharing same codebase, But 1 component need MYSQLConnection and other needs NoSQLConnection

Solution is @ConditionalOnProperty Annotation

```
public class DBConnection
  @Autowired(required = false)
   MySQLConnection mySQLConnection;
                                                                                                         System.out.println("initialization of MySQLConnection Bean");
   @Autowired(required = false)
  NoSQLConnection noSQLConnection;
  @PostConstruct
                                                                                                  ConditionalOnProperty(prefix = "nosqlconnection", value = "enabled", havingValue = "true", matchIfMissing = false)
  public void init(){
      System.out.println("DB Connection Bean Created with dependencies below:");
      System.out.println("is MySQLConnection object Null: * + Objects.isNull(mySQLConnection));
       System.out.println("is NoSQLConnection object Null: " + Objects.isNull(noSQLConnection));
                                                                                                     NoSQLConnection() {
                                                                                                         System.out.println("initialization of NoSQLConnection Bean");
                                                                                                    Application.properties
```

```
sqlconnection.enabled=true
2024-05-25T11:32:03.950+05:30 INFO 8352 --- [
                                                        main] o.a.c.c.C.[Tomcat].[localhost].[/]
2024-05-25T11:32:03.951+05:30 INFO 8352 --- [
                                                        main] w.s.c.ServletWebServerApplicationContext
initialization of MySQLConnection Bean
DB Connection Bean Created with dependencies below:
is MySQLConnection object Null: false
is NoSQLConnection object Null: true
2024-05-25T11:32:04.102+05:30 INFO 8352 --- [
                                                        main] o.s.b.w.embedded.tomcat.TomcatWebServer
                                                        main] c.c.l.SpringbootApplication
2024-05-25T11:32:04.106+05:30 INFO 8352 --- [
```

Advantages:

- 1. Toggling of Feature
- 2. Avoid cluttering Application context with un-necessary beans.
- 3. Save Memory
- 4. Reduce application Startup time

<u>Disadvantages:</u>

- 1. Misconfiguration can happen.
- 2. Code Complexity when over used.
- 3. Multiple bean creation with same Configuration, brings confusion.
- 4. Complexity in managing.