

## JAVA SPRING FRAMEWORK

# Lab Guides

Document Code	25e-BM/HR/HDCV/FSOFT	
Version	1.0	
Effective Date	01/09/2024	

#### **RECORD OF CHANGES**

Effective Date	Change Description	Reason	Reviewer	Approver
06/08/2024	Create a new Lab	Create new		VinhNV

## **Contents**

lava Spring Framework Introduction	4
Objectives:	
Lab Specifications:	
Problem Description:	
Prerequisites:	
Guidelines	5



CODE: JSFW\_Lab\_06\_Opt2

TYPE: SHORT

LOC: 200

DURATION: 60 MINUTES

### **Java Spring Framework Introduction**

#### **Objectives:**

- Learn how to configure the Spring Boot application properties.
- Set up PostgreSQL database integration.
- Understand the process of database connection pooling..

#### **Lab Specifications:**

Trainees will configure the Spring Boot application for PostgreSQL database interaction.
 You'll also set up properties for data sources and test the connection

#### **Problem Description:**

Trainees will configure the Spring Boot application for PostgreSQL database interaction. You'll also set up properties for data sources and test the connection

#### **Prerequisites:**

- Completed JSFW\_Lab\_06\_Opt1.
- PostgreSQL installed.

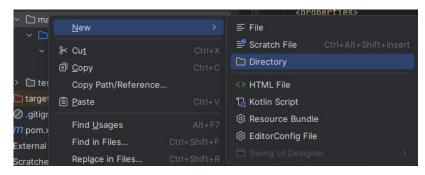
#### **Guidelines:**

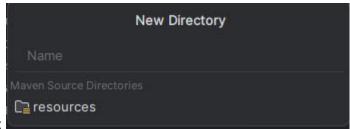
#### Step 1: Update pom.xml with these denpendencies:

```
<!-- PostgreSQL Driver -->
<dependency>
  <groupId>org.postgresql</groupId>
        <artifactId>postgresql</artifactId>
        <scope>runtime</scope>
</dependency>
```

Step 2: Configure application.properties

Right click on the main folder, choose New / Directory





Then click on Resource:

Set up Database Properties: In src/main/resources/application.properties, configure
 PostgreSQL database settings (change the password to your Postgres password):

```
spring.datasource.url=jdbc:postgresql://localhost:5432/ums_db
spring.datasource.username=postgres
spring.datasource.password=1234567890
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.PostgreSQLDialect
spring.jpa.hibernate.ddl-auto=update
```

**Step 3: Verify Database Connection** 

Run the Spring Boot application:

----000-----

THE END