

## Lesson 01 Demo 01

# **Configuring Spring Core in Java Project**

**Objective:** To configure the Spring Core dependencies in a Java project using Maven

and XML configuration

Tool required: Eclipse IDE

Prerequisites: None

#### Steps to be followed:

1. Creating a Maven project

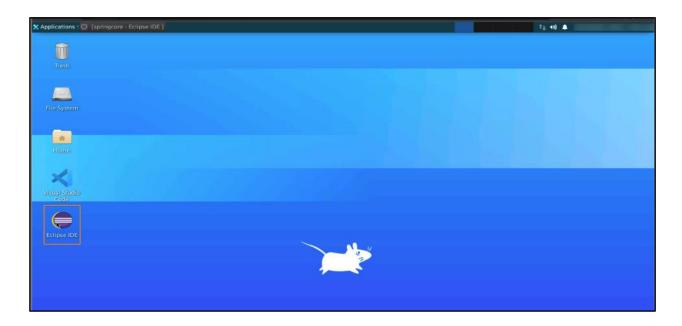
2. Adding Spring Core dependency

3. Creating a bean class

4. Configuring XML file

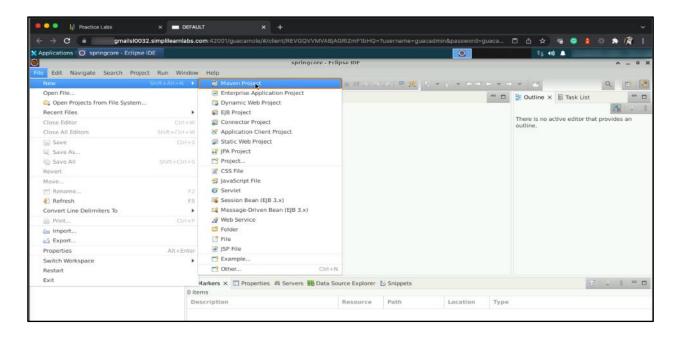
#### **Step 1: Creating a Maven project**

#### 1.1 Open Eclipse IDE

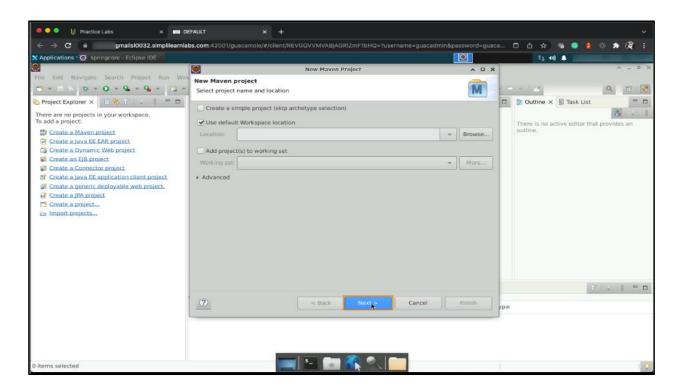




1.2 Click on File in the menu bar, select New and, choose Maven Project

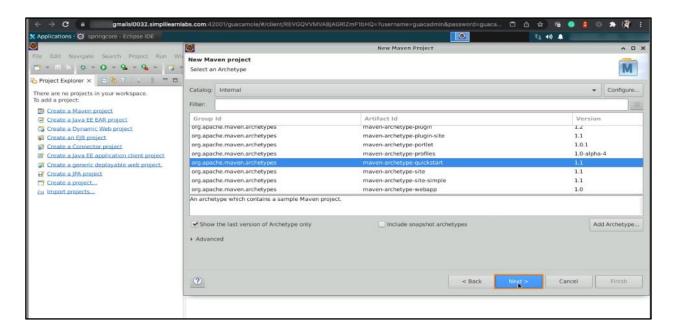


1.3 Provide a workspace location that matches the selected workspace in Eclipse, and click **Next** 

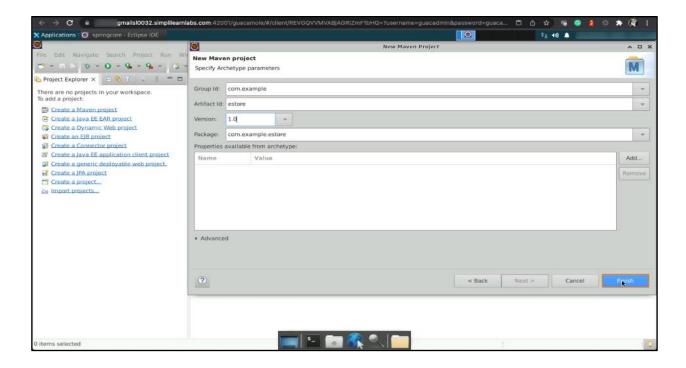




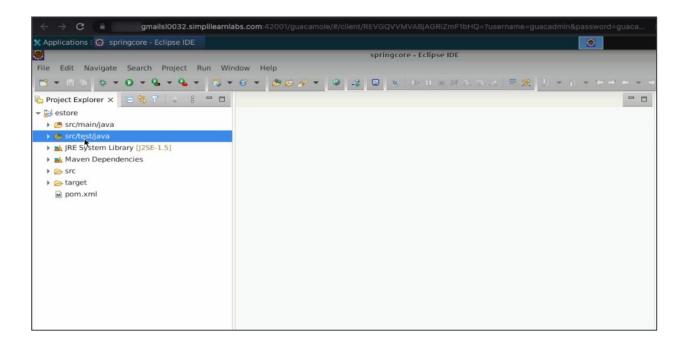
1.4 Select the maven-archetype-quickstart from the Internal catalogs and click Next



1.5 Enter the Group Id, which typically follows the reverse order of the company's domain name. Also, provide the Artifact Id as **estore** and click **Finish**.



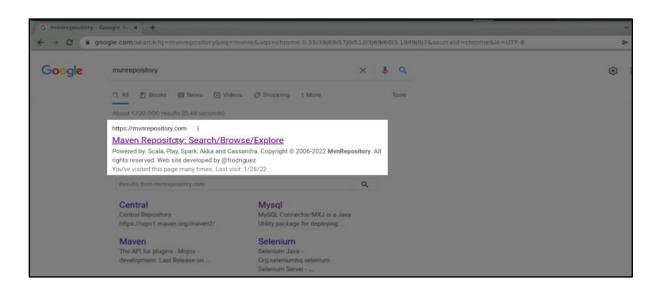




In **Project Explorer**, you will see the newly created Maven project.

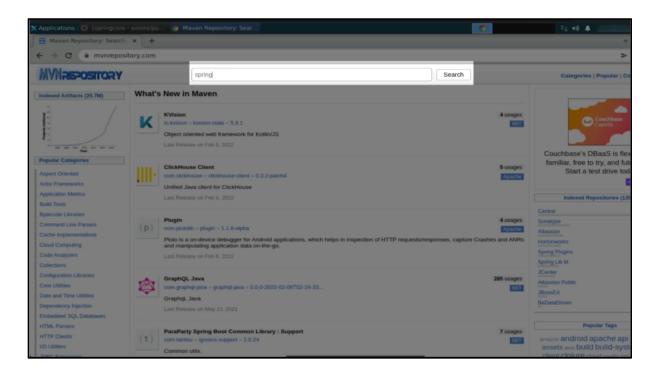
## **Step 2: Adding Spring Core dependency**

2.1 Open a browser and search for **mvnrepository** 

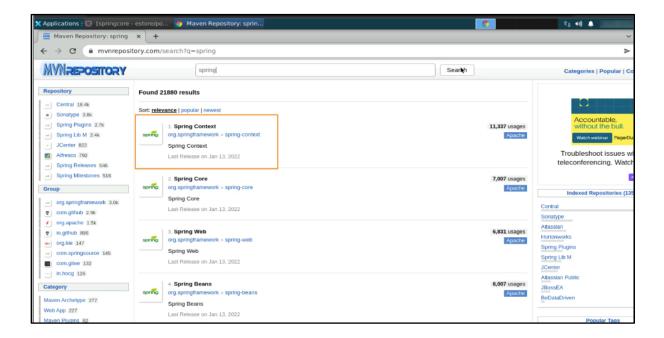




2.2 Go to the maven-repository.com website and search for Spring in the repository search bar

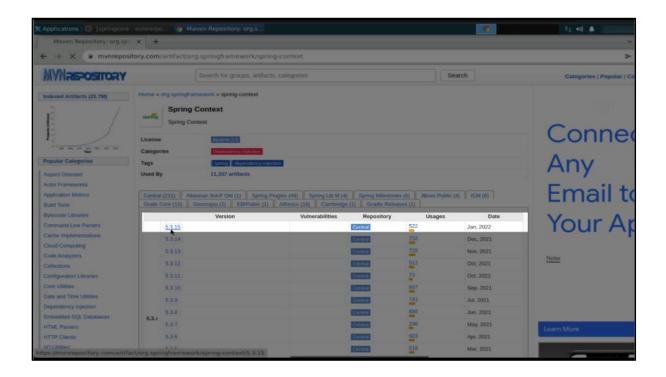


2.3 Click on the Spring Context option from the search results

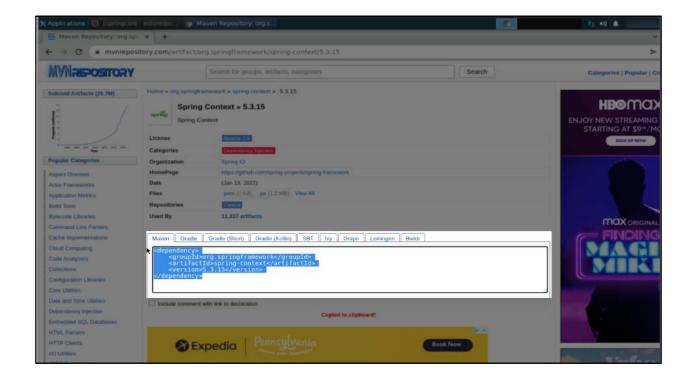




2.4 Choose the latest version available

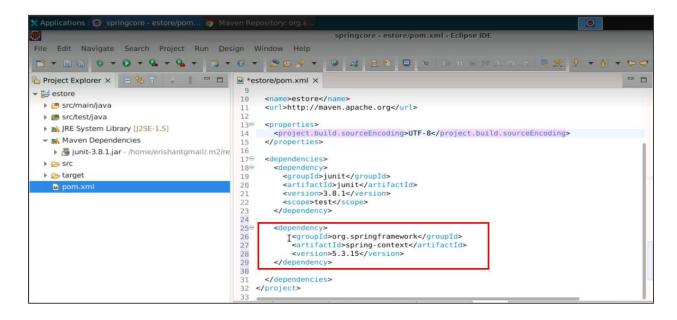


2.5 Copy the dependency information provided for the selected version

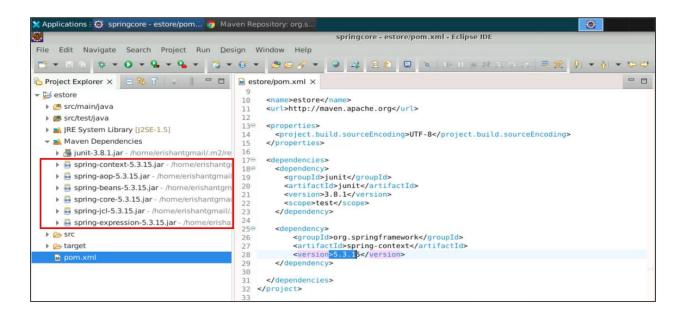




2.6 Go back to Eclipse and open the pom.xml file. Inside the <dependencies> section, paste the copied dependency for the Spring Context.



2.7 Save the file

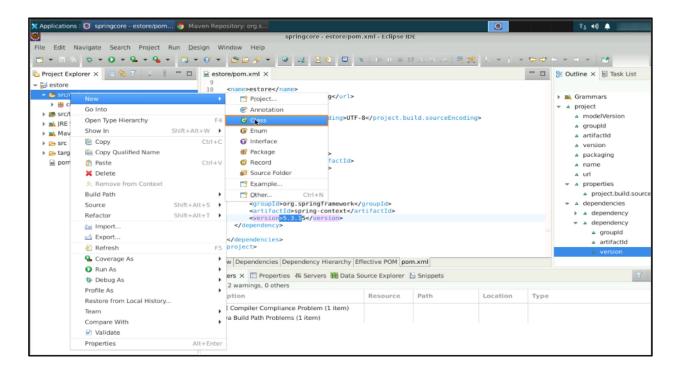


Maven will automatically sync the Spring Context and its related jar files into your project.

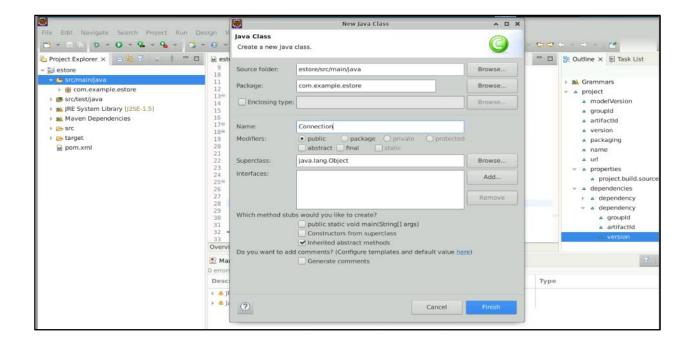


#### Step 3: Creating a bean class

3.1 In Eclipse, navigate to the Java package where you want to create the bean class. Rightclick on the package, select **New**, and click on **Class**.

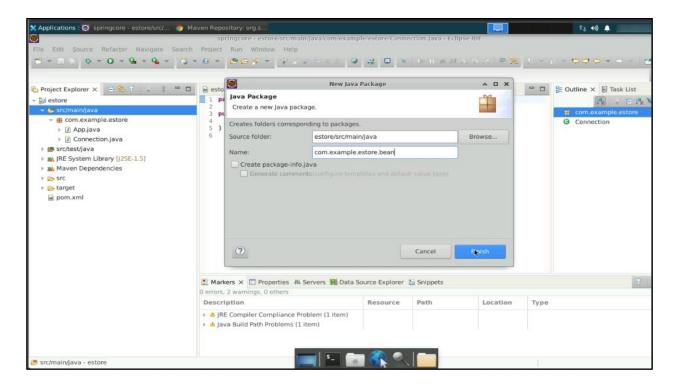


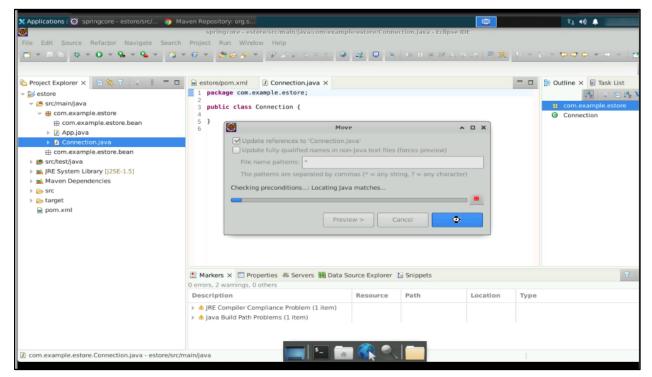
3.2 Enter Connection in the Name field and click Finish





3.3 Move the newly created class to the **com.example.estore.bean** package to represent the **bean** package structure.







3.4 Inside the **Connection** class, define the necessary attributes such as **url**, **username**, and **password** 

3.5 Create a default constructor for the class to initialize the attributes

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Applications: Springcore - estore/arc/...

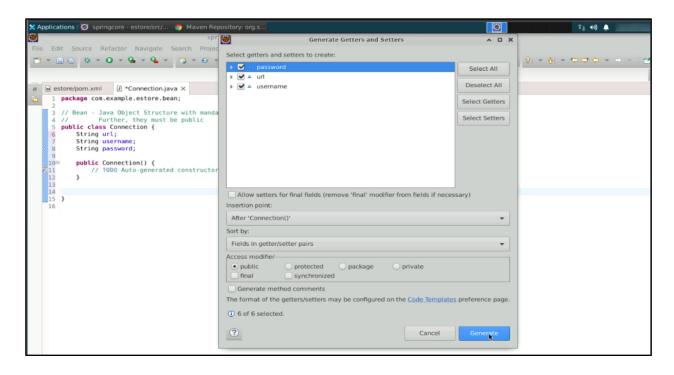
Springcore - estore/src/main/java/com/example/estore/bean/Connection.java - Eclipse IDE

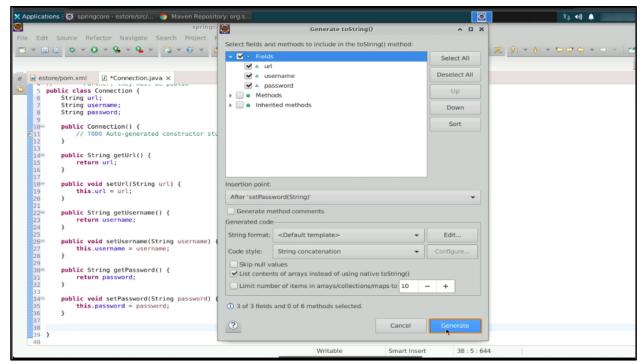
File Edit Source Refactor Navigate Search Project Run Window Help

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3.6 Generate getters and setters for the attributes and implement a **toString()** method for the class.

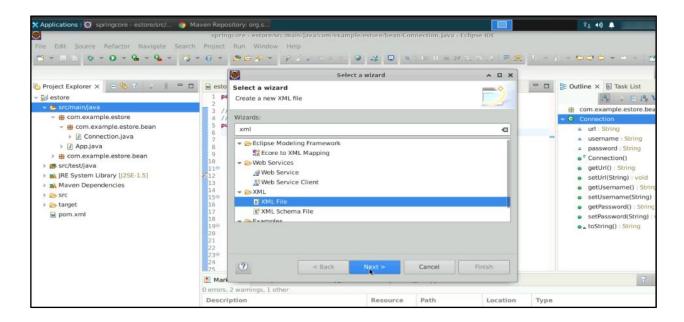




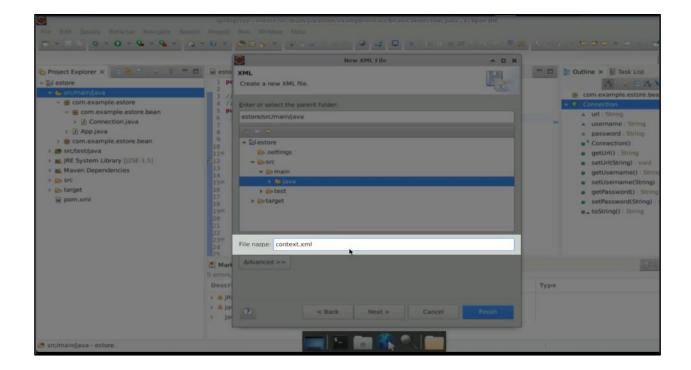


### Step 4: Configuring XML file

4.1 Right-click on the src folder in the project and select New > Other. In the New dialog, select XML File under the XML category and click Next

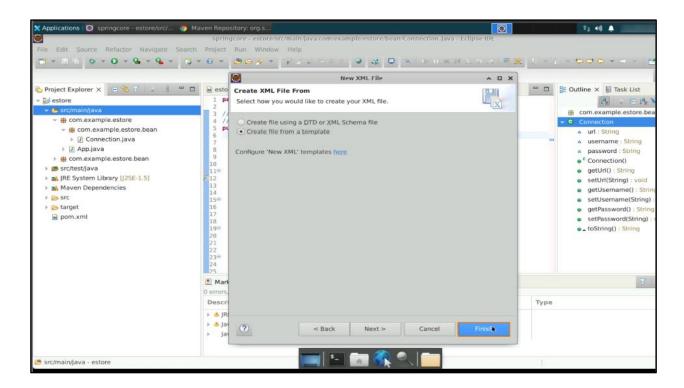


4.2 Enter context.xml in the File name field

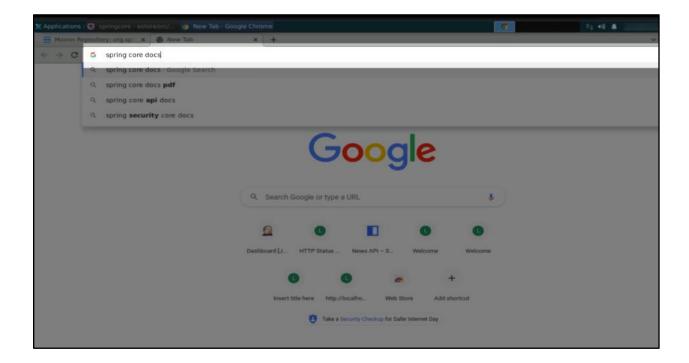




4.3 Click Finish to create the XML file

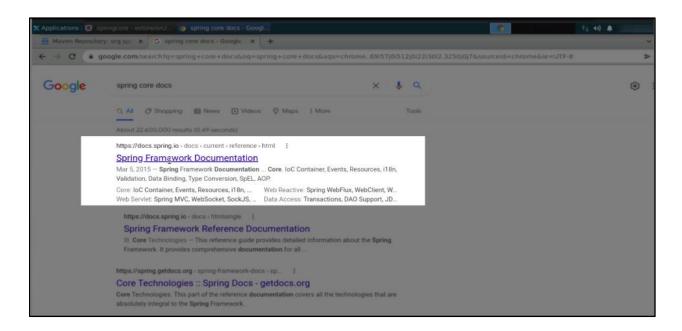


4.4 Return to the browser and search for the Spring Core documentation

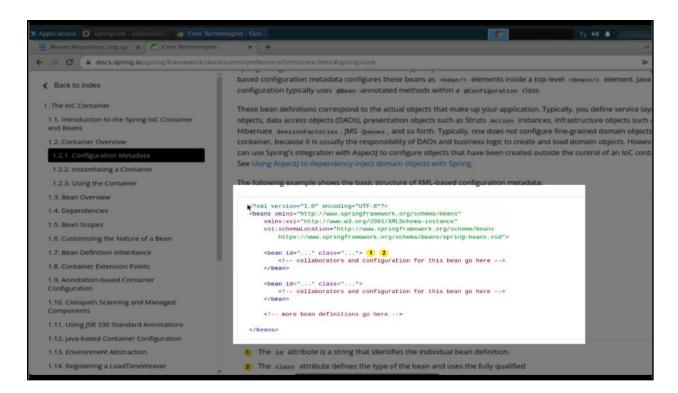




4.5 Select the first link from the search results to access the documentation.

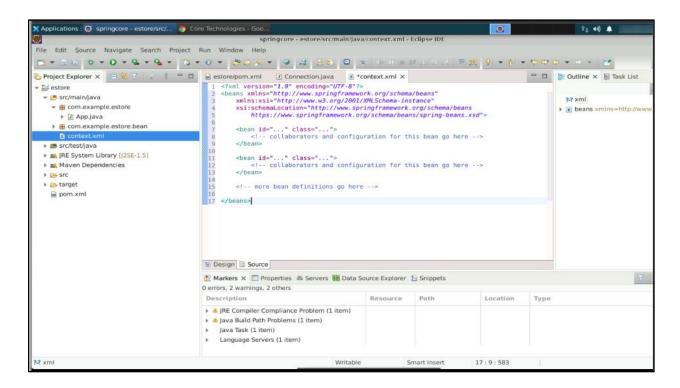


4.6 Copy the sample XML configuration provided in the documentation.





4.7 Paste the XML configuration into the newly created XML file in Eclipse.



You have now successfully configured the Spring Core in your Java project.