

Spring boot with View as

Thymeleaf -> dynamic html

Controller layer

Service layer

Doa layer -> JdbcTemplate

<https://start.spring.io/>

spring boot 3.x version we need minimum version of java 17.

Web starter : for web application

Thymeleaf -> for view

Jdbc starter -> to get features of DataSource or JdbcTemplate

Mysql connector -> mysql database (dependencies)

The screenshot shows the Spring Initializr web application interface. The browser address bar displays 'start.spring.io'. The page title is 'spring initializr'. The main content area is divided into several sections:

- Project:** Includes radio buttons for 'Gradle - Groovy', 'Gradle - Kotlin', 'Java' (selected), 'Kotlin', and 'Groovy'. Below this, 'Maven' is selected.
- Spring Boot:** Includes radio buttons for '3.3.0 (SNAPSHOT)', '3.2.2 (SNAPSHOT)', '3.2.1', and '3.1.8 (SNAPSHOT)'. Below this, '3.1.7' is selected.
- Project Metadata:** Includes input fields for 'Group' (com.example), 'Artifact' (SpringBootWithThymeleafWithJdbcTemplate), 'Name' (SpringBootWithThymeleafWithJdbcTemplate), 'Description' (Demo project for Spring Boot), and 'Package name' (com.main). Below this, 'Packaging' has radio buttons for 'Jar' (selected) and 'War'. At the bottom, 'Java' has radio buttons for '21' and '17' (selected).
- Dependencies:** A list of dependencies with checkboxes: 'Spring Web' (WEB), 'Thymeleaf' (TEMPLATE ENGINES), 'JDBC API' (SQL), and 'MySQL Driver' (SQL). A red box highlights this section.
- ADD DEPENDENCIES... CTRL + B:** A button located at the top right of the Dependencies section.

At the bottom of the page, there are three buttons: 'GENERATE CTRL + G', 'EXPLORE CTRL + SPACE', and 'SHARE...'. A taskbar is visible at the bottom right of the screen.

We added jdbc starter.

Spring boot search data base details.

In spring boot we need to write database details like url, username, password and drivename in application.properties files.

From view it **html or jsp** we are passing the value to controller or servlet.

In servlet or spring controller using HttpServletRequest object we are receiving the value and doing type casting and then set the value of JavaBean class object.

Application.properties file contains database details.

In Dao layer we done di for JdbcTemplate

Web Service

Giving the service for Web Application when more than one application running using different technologies.

It develop using spring boot or servlet/jsp etc.

	Java req		
Amazon --→	payment	paypal	python
	XML/JSON	Paytml	java
	non	Google pay	php
	java res	Phone pay	.net
		Credit card / debit card	
		Net banking	

Xml : eXtensible markup language

JSON : JavaScript object notation

Web service help to communicate more than one application when both application running using same or different language. Like java, python, php, angular, react etc.

Web service is platform independent, language independent and browser independent.

Java platform independent but language dependent.

SOAP : only xml

Rest Full Web Service : xml as well as non xml format. ie json, plain text, html etc.

If we want to develop rest full web service using spring boot.

@Controller annotation is replace by @RestController annotation.

In JAX_RS we use @Path annotation

We need to create spring boot project with web starter

Then create more than one controller classes and those classes replace by @RestController remaining annotation are same

@Service, @Repository (database connection using jdbcTemplate or Jpa etc).

In Rest full web service no view as html, jsp or thymeleaf etc. View must be Angular Framework.

In Rest Full web service view can be

Angular

React JS

Normal JS as front end technologies.

Python

Asp.net

Php etc.