**Spring Boot**

It is a framework that is built on the top of Spring Framework. It provides an easier and faster way of application development.

It is a spring module that helps to rapidly develop the application [ RAD ].

Spring Boot = Spring Framework – xml configuration + Embedded Server

Spring Boot is also used to develop microservices.

Spring Boot can be developed by using

1. Java
2. Kotlin
3. Groovy
4. Spring Initializer
5. STS - Spring Tool Suites 4 for Eclipse
6. Eclipse +STS plugged in.
7. IntelliJ Ultimate
8. STS with VS Code

**Spring Initializer**

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

**Spring Boot JPA**

Interface CrudRepository<Entity, ID>

This contains all abstract method to perform CRUD operations.

<https://docs.spring.io/spring-data/commons/docs/current/api/org/springframework/data/repository/CrudRepository.html>

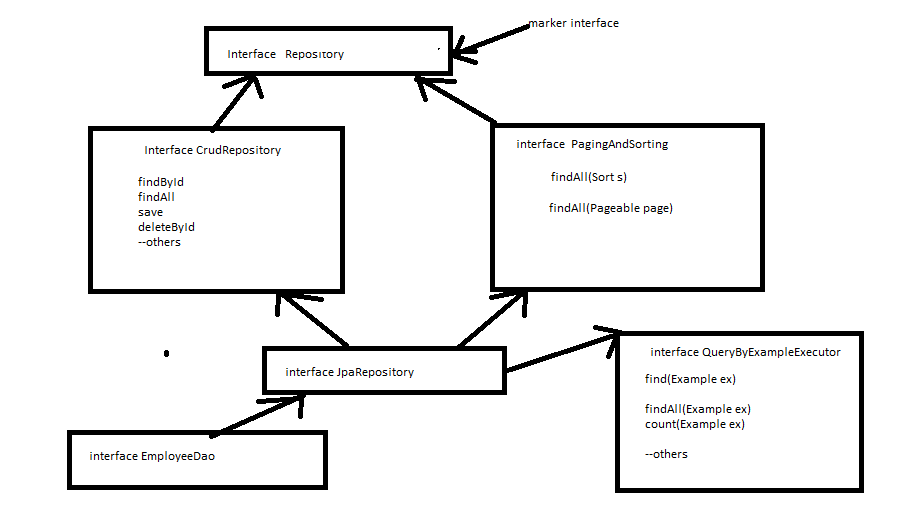
findById(ID id)

findAll()

deleteById(ID id)

count()

Spring Boot runtime will supply the implementation for all abstract methods from your repository.



**Spring REST**

Web services are into practices to expose the business functionalities that can be easily integrated with other applications [ enterprise app or UI app ] developed in any languages.

This is towards making an interoperable application.

Web Services are two types

1. XML Web Service / SOAP Web Service
2. RESTful Web Service / REST Service [ REpresentational STateful Web Service ]

Our preferred service is REST Service and JSON data as preferred mode of data transportation

REST has become the de-facto standard for building web services on the web because they are easy to build and consume.

* Spring Web is the dependency to be added in pom.xml

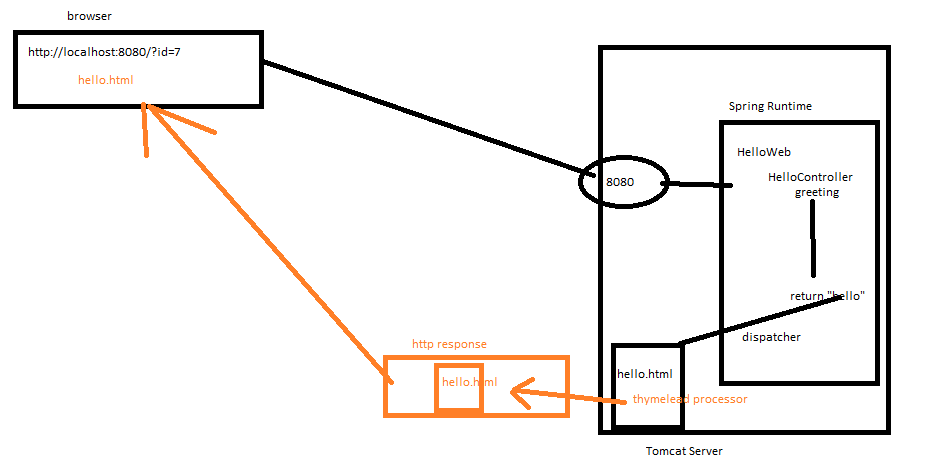
<dependency>

<groupId>org.springframework.boot</groupId>

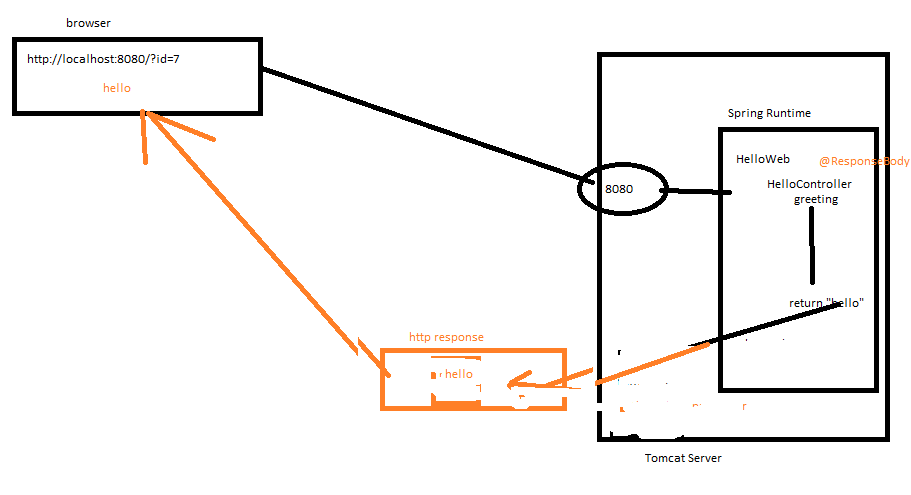
<artifactId>spring-boot-starter-web</artifactId>

</dependency>

* Use @Controller @ResponseBody combination on the rest class that returns data.



@RestController = @Controller @ResponseBody



Stereotype

1. @Component
2. @Repository
3. @Service
4. @Configuration
5. @Controller
6. @RestController