

Returning date

```
package com.flynaut.demoDate.rest;

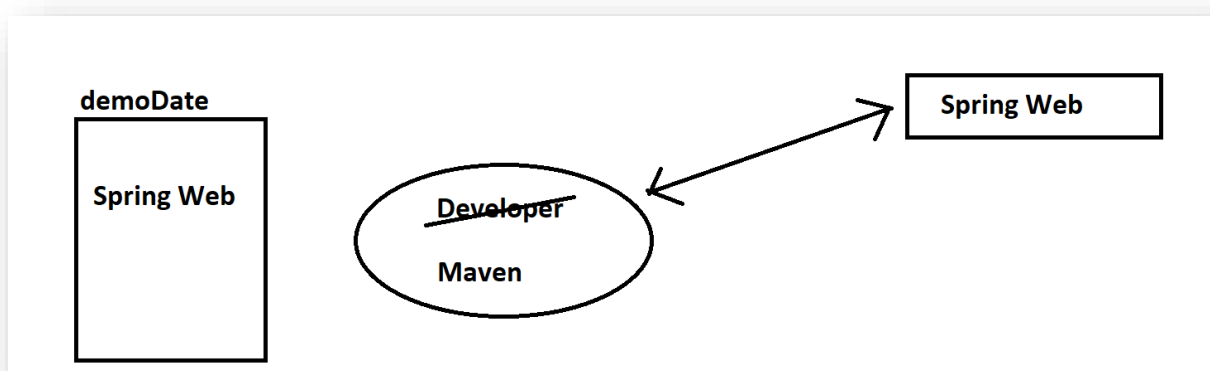
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;

import java.time.LocalDate;

@RestController
public class DateController {
    // @RequestMapping(value="/date",method =
    // RequestMethod.GET)
    @GetMapping("/date")
    public LocalDate date() {
        LocalDate localDate = LocalDate.now();
        return localDate;
    }
}
```

Maven

- Project build tool
- Used for build management and managing dependencies



- Tell maven the projects we are going to work on(dependencies)
- Go out and download the JAR for us

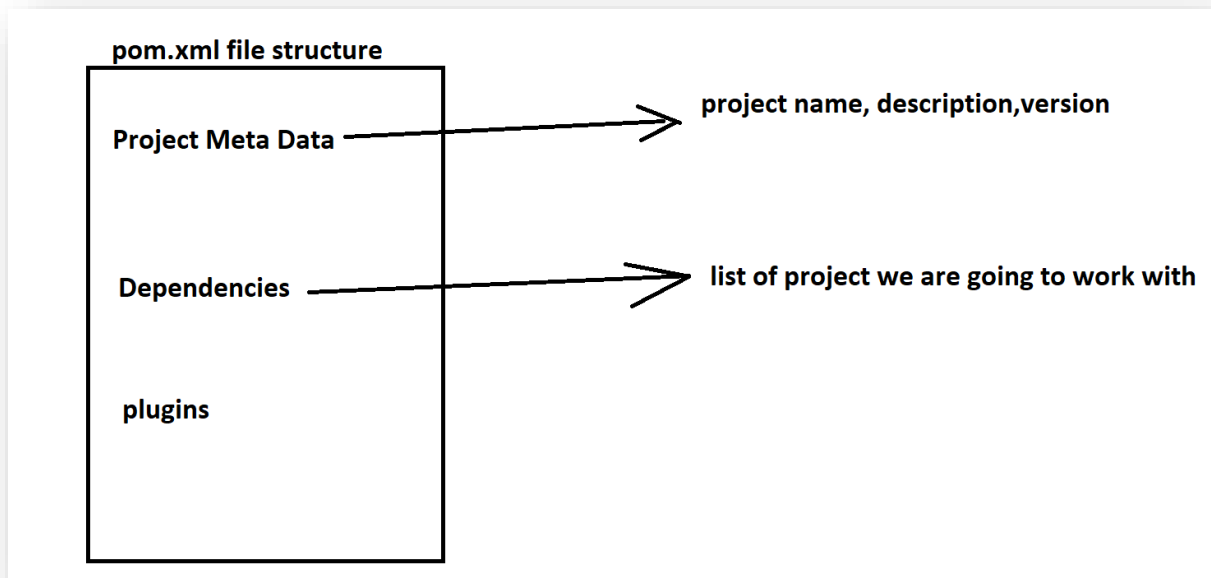
Maven Project Structure

Directory	Description
<code>src/main/java</code>	Our source code
<code>src/main/resources</code>	Properties/ configuration files used by our application
<code>src/test</code>	Unit testing code and properties
<code>target</code>	The destination directory for compiled code (automatically created by maven)
<code>Pom. xml</code>	Maven Configuration File

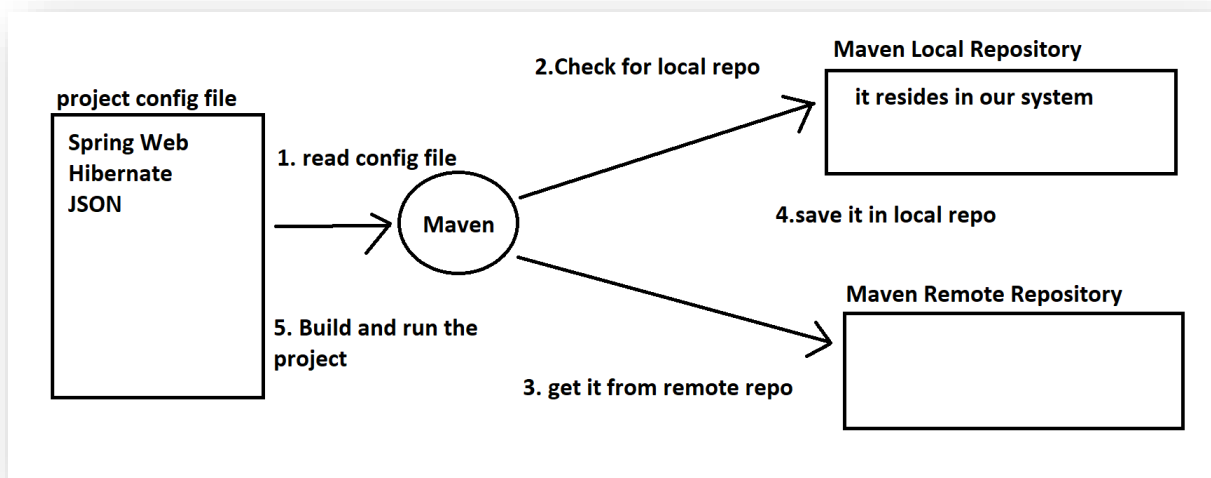
Pom. xml

Project Object Model file

- Configuration file for our project
- Shopping list ☺
- Located at the root position of our project



Maven Flow



Project Coordinates:

- To uniquely identify a project
- Similar to GPS coordinates for office - longitude, latitude
- Precise address for our office(city, street, homeno.)

```
<groupId>org.springframework.boot</groupId>  
<artifactId>spring-boot-starter-parent</artifactId>  
<version>3.4.4</version>
```

GroupId: Name of company, group, organization

ArtifactId: Name of our project

Version

If we want to add dependencies manually we need a GAV

Maven Wrapper Files

mvnw

mvnw.cmd (for windows)/ mvnw.sh (for mac/linux)

application.properties file

By default, SB loads properties from this file

- Created by spring initializer
- It is empty at beginning

We can add properties in this file:

```
Server.port = 9090
```

We can add our custom properties

```
spring-boot-starter
```

A collection of maven dependencies with compatible version.

```
spring-boot-starter-web
```

- Spring-web
- Spring-webmvc
- Tomcat
- JSON

Building Spring application is tedious

Why?

- It will be great if there is a list of maven dependencies collected as a group of dependencies—one stop solution
- If we have one stop solution we don't have to search for each dependency.

Solution- SB Starters

- A curated list of maven dependencies
- It reduces the configuration part

If we are building a Spring app which need web, security

We will simply select dependency in SI

It will add all the appropriate dependencies in pom.xml grouped together in Spring-Boot-Starter

1. `spring-boot-starter-web`

- building web apps, Tomcat as an embedded server

2. `spring-boot-starter-security`

- To add the security support

3. `Spring-boot-starter-jpa`

- Gives database support with Hibernate & JPA

SpringBoot Dev Tools

The Problem:

When we are running the SB app

And If we are making any changes in the source code

Then manually I have to stop the application and restart it ☹

The Solution- SpringBoot Dev Tools ☺

Automatically restarts our application when we make any changes in our source code

How?

Simply add the dependency in pom.xml

Step1: add dependency in pom.xml

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-devtools</artifactId>
  <scope>runtime</scope>
  <optional>true</optional>
</dependency>
```

Step2:

File -> settings -> build, execution, deployment ->
compiler -> check the box (build project automatically) ->
apply -> ok

Step3:

Settings -> advanced settings -> check (allow automate)