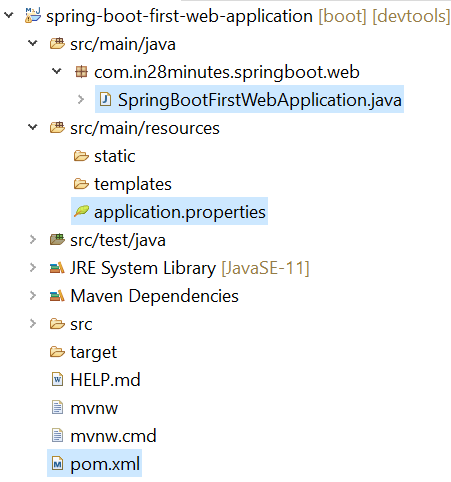
Web Application with Spring Boot

# Project Structure

When you initiate a new spring boot project with *web* and *dev tools* dependencies, or any other dependencies, the following structure is generated.



Let us discuss about each one of them.

## File pom.xml

POM stands for **Project Object Model**. This file contains **maven dependencies**.

The first tag that we look is *parent*. This is just like a parent class from which our project is inheriting some functionalities. The package artifact ID is **spring-boot-starter-parent**. Then we have dependencies, as shown below.

1. **Spring-boot-starter-web** is used for developing web applications.
2. **Spring-boot-starter-devtools** is used for making development tasks easier.
3. **Spring-boot-starter-test** is used for writing test cases.



POM file will also install **transitive dependencies** as well, i.e., dependencies which are required by the dependencies that we’ve specified in pom.xml. The last part is *<build>*.



This tag is used to help build us .jar file.

## File SpringBootFirstWebApplication.java

This file is the entry point (names can differ) to our spring boot project.



There are two things that this **@SpringBootApplication** does.

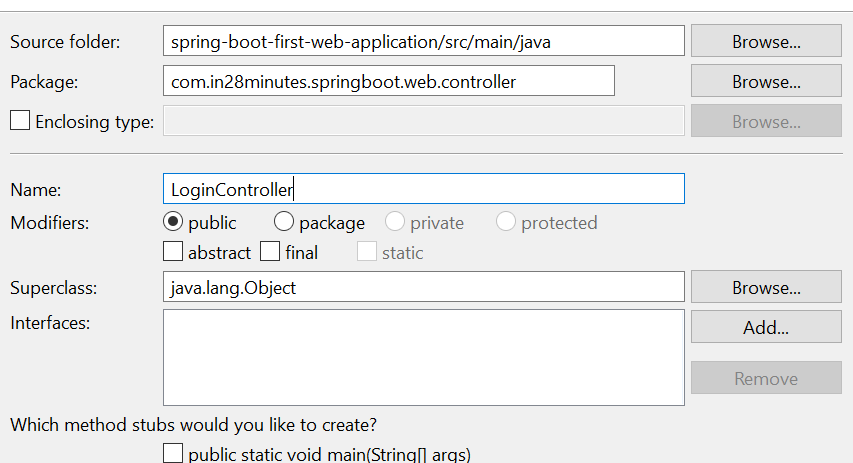
1. It initializes the Spring framework itself by running **@ComponentScan**.
2. It initializes the Spring Boot by running auto-configurations.

## File application.properties

This file is initially empty. This file can be used as a configuration file.

# MVC Controller

The controller is that class in Java to which the URL path is matched to. To define a new controller class, create a new class, and also add a package name **com.in28minutes.springboot.web.controller**.



Now let’s try to display a “Hello World” message using this controller through /login path. Add the following code in this controller.



Note that we need **@Controller** for the controller to be defined and **@RequestMapping** for defining the path. However, this code will not work when you will try to access /login. To see the debug logs, set the following property in application.properties.



Now, what is happening is that Spring Boot expects a View to be in the return statement. To fix this issue add a **@ResponseBody** annotation to the controller method.



Now if you go to the browser, you will see the following screen.

