

Getting started with Spring Boot

Welcome to getting started with Spring Boot.

The only thing you need to know is Java.

Installations

1. Install the Java Development Kit (JDK).
2. Install maven (package manager)

Linux

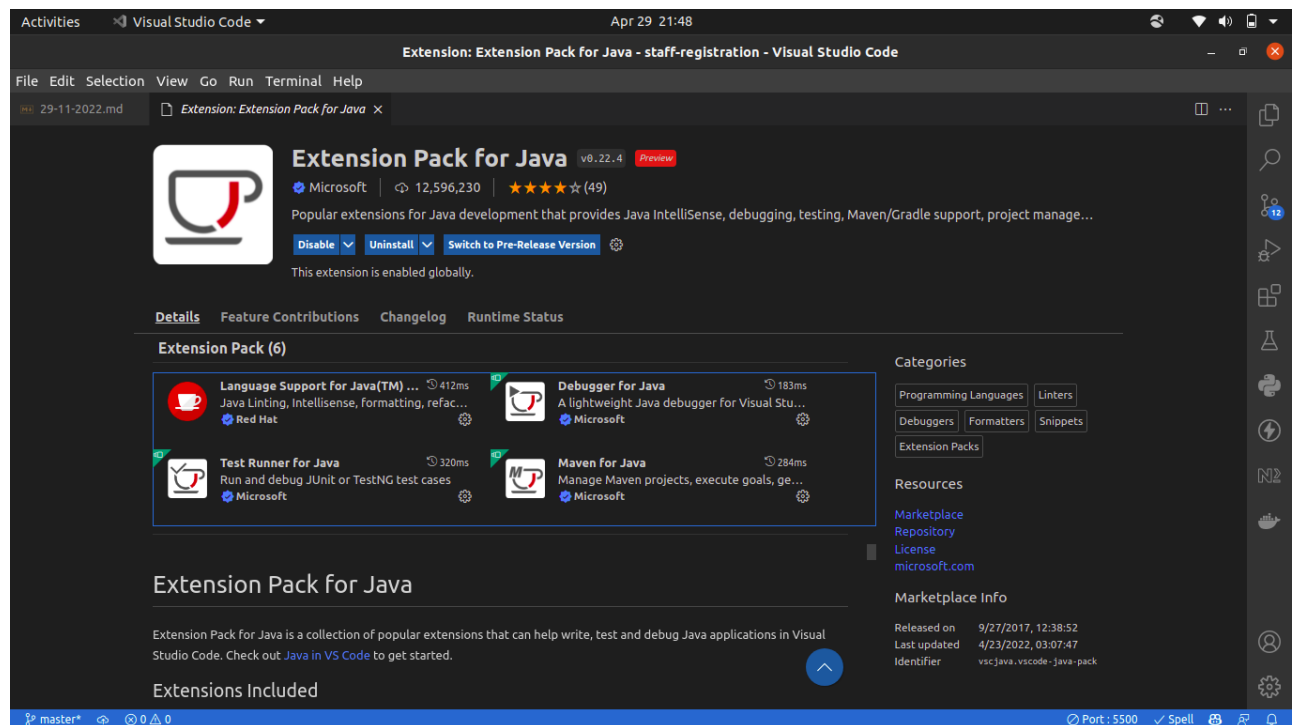
```
$ sudo apt install maven
```

Windows

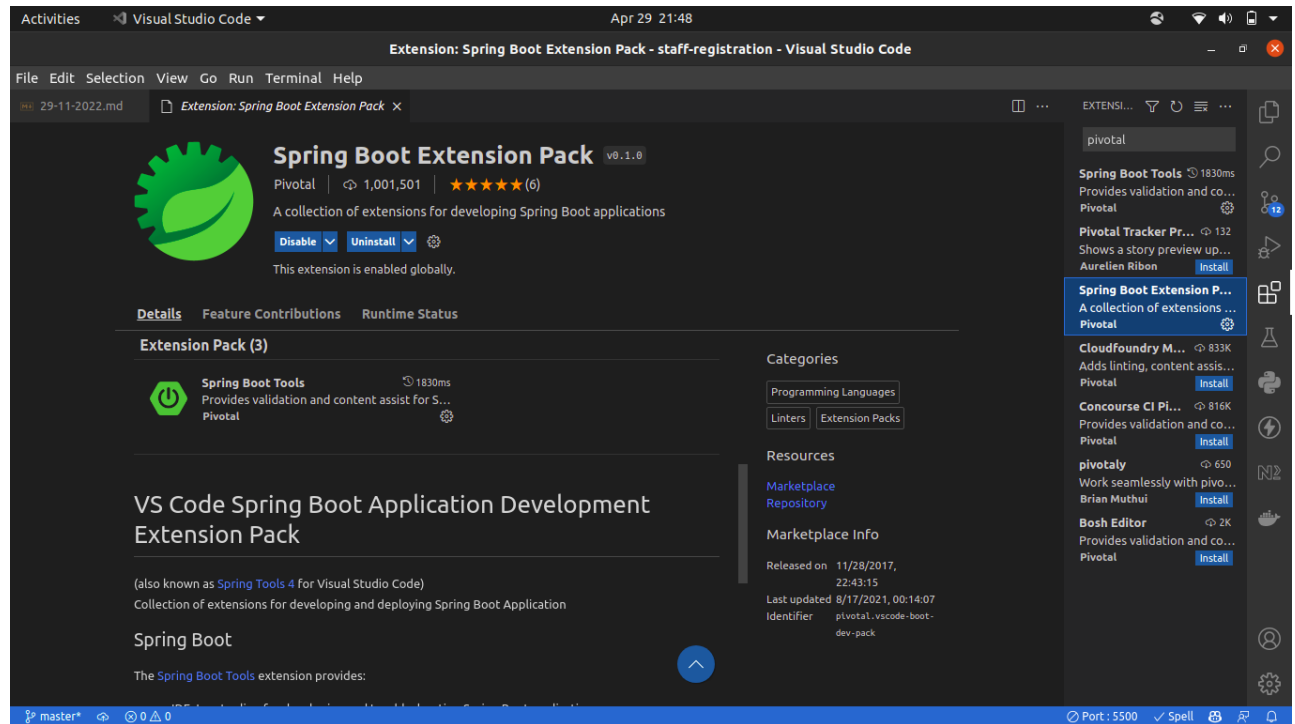
Download from maven.apache.org

3. Install Vscode extensions for developing with Spring

a. Install Extension Pack for Java



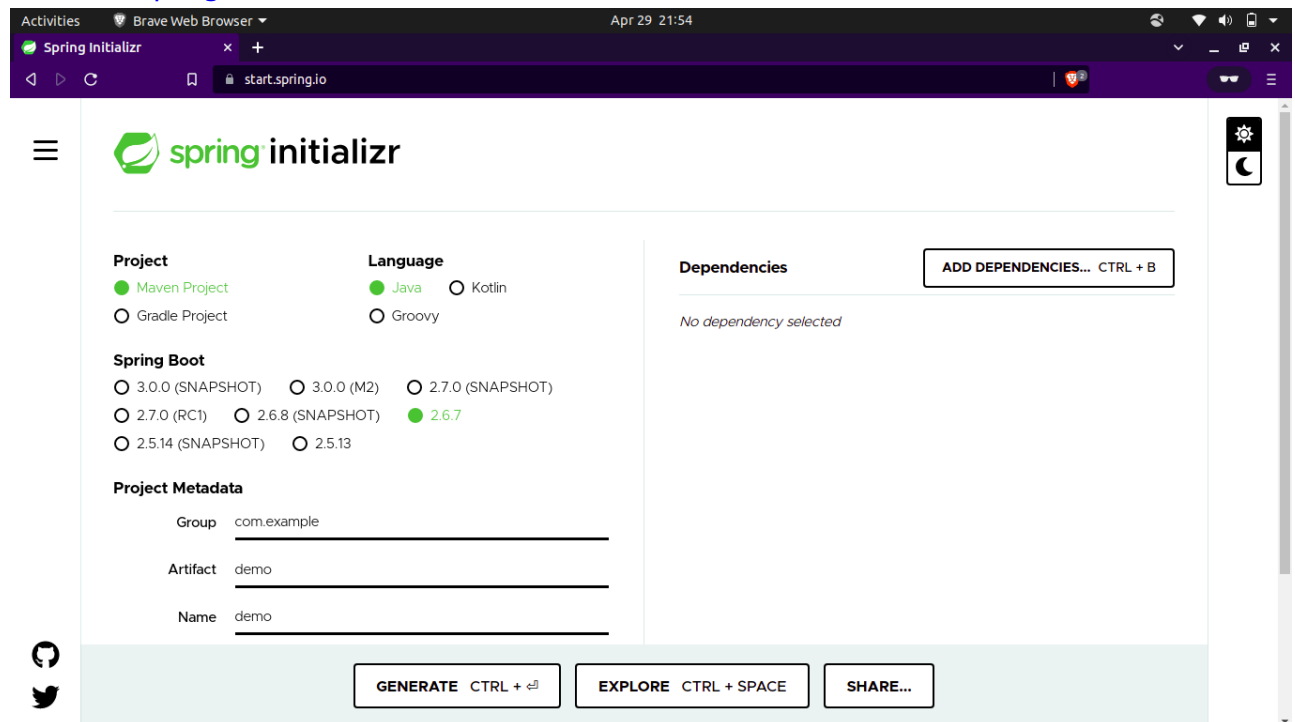
b. Install Spring Boot Extension Pack



Getting Started

You can visit https://youtu.be/eApc_BxEYsU for a video tutorial.

1. Visit start.spring.io



2. Configure your project. We will configure a minimum configuration.

Project: We will choose maven.

Language: We will choose Java

Spring Boot: We will pick the default spring boot default

Project Metadata

Group : reverse of domain. Example **google.com** will be written as **com.google**

Artifact : Your project name

Description: the description for your project

We will leave other configurations as default.

Activities Brave Web Browser Apr 29 22:21

Spring Initializr x +

start.spring.io

☐ Gradle Project ☐ Groovy

Spring Boot

☐ 3.0.0 (SNAPSHOT) ☐ 3.0.0 (M2) ☐ 2.7.0 (SNAPSHOT)

☐ 2.7.0 (RC1) ☐ 2.6.8 (SNAPSHOT) ☒ 2.6.7

☐ 2.5.14 (SNAPSHOT) ☐ 2.5.13

Project Metadata

Group

Artifact

Name

Description

Package name

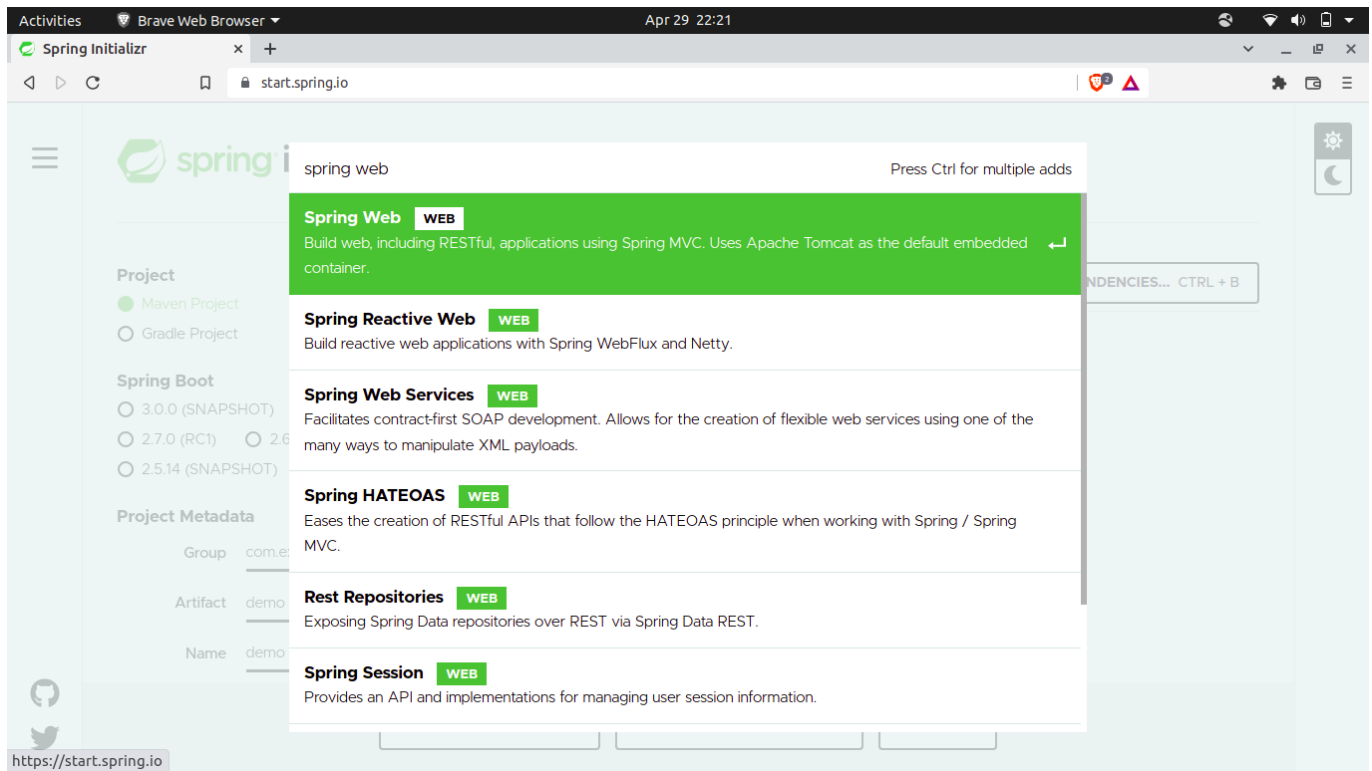
Packaging ☒ Jar ☐ War

Java ☐ 18 ☐ 17 ☒ 11 ☐ 8

No dependency selected

GENERATE CTRL + G **EXPLORE** CTRL + SPACE **SHARE...**

Add a dependency: We will add a spring web dependency



And we are good to go. Click **Generate**.

3. A zip file will download. Extract the contents and open the folder in vscode.
4. Once in vscode, open new terminal. Then run the following commands.

```
$ mvn install
```

This command installs the required maven dependencies for your project.

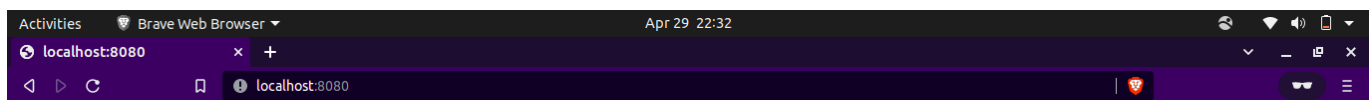
```
$ mvn spring-boot:run
```

The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the output of a Java application starting. It includes logs for Tomcat initialization, service starting, and the Spring Boot application starting. The application is running on port 8080.

```
2022-04-29 22:31:40.896 INFO 87014 --- [main] c.p.portfolio.PortfolioApplication : Starting PortfolioApplication using Java 11.0.13 on ahmadz
nz with PID 87014 (/home/ahmad/suza/Uni/Sem4/4-Web_Technologies/wk06/Fri/portfolio/target/classes
2022-04-29 22:31:40.899 INFO 87014 --- [main] c.p.portfolio.PortfolioApplication : No active profile set, falling back to 1 default profile:
"default"
2022-04-29 22:31:41.900 INFO 87014 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-04-29 22:31:41.914 INFO 87014 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-04-29 22:31:41.915 INFO 87014 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.62]
2022-04-29 22:31:42.039 INFO 87014 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-04-29 22:31:42.040 INFO 87014 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 10
69 ms
2022-04-29 22:31:42.459 INFO 87014 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path '
2022-04-29 22:31:42.475 INFO 87014 --- [main] c.p.portfolio.PortfolioApplication : Started PortfolioApplication in 2.03 seconds (JVM running
for 2.38)
```

This starts your spring boot application, which by default runs at <http://localhost:8080>

5. Open your browser at <http://localhost:8080>



Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Fri Apr 29 22:32:37 EAT 2022

There was an unexpected error (type=Not Found, status=404).