

Theory: Getting started with Spring Boot

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In this topic, you will learn how to create your first Spring Boot application. This application is quite simple and does nothing useful, but still, it will demonstrate the basic structure of any Spring Boot project.

§1. Generating a Spring Boot application

It is often hard to start a new project from scratch, especially for beginners. You need to set up the basic structure, create configurations and manage external dependencies. Fortunately, there is a special web site called [Spring Initializr](#) that can generate the basic Spring Boot project structure based on your wishes.

 **Spring Initializr**
Bootstrap your application

Project

Language

Spring Boot

Project Metadata

Dependencies

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starts.spring.io is powered by
[Spring Initializr](#) and [Pivotal Web Services](#)

Maven Project

Gradle Project

Java

Kotlin

Groovy

2.2.0 M3

2.2.0 (SNAPSHOT)

2.1.6 (SNAPSHOT)

2.1.5

1.5.21

Group

org.hyperskill

Artifact

demo

Name

demo

Description

Demo Hyperskill project for Spring Boot

Package Name

org.hyperskill.demo

Packaging

Jar

War

Java Version

12

11

8

Fewer options

Search dependencies to add

Web, Security, JPA, Actuator, Devtools...

Generate Project - alt + ↵

This site may look slightly different, but the general idea remains the same. There are several important options you need to select before generating a project:

- build tool: Maven or Gradle
- one of the possible JVM-based languages: Java, Kotlin, Groovy
- a version of Spring Boot framework
- metadata like `group`, `artifact`, `description` and `package name`
- external dependencies (other frameworks and libraries)

In our example, we've chosen Gradle as the build tool and Java 8 as the language. You can choose a more recent version. Our application is named `demo`.

By default, the packaging type for Spring Boot is `Jar`. It means that your application should be packed in a `.jar` file that contains all the required dependencies. This type of file is more simple to use than a `.war` file, which should be deployed on an external application server.

Current topic:

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Topic depends on:

✗ [Introduction to Spring Boot](#) ...

✗ [Gradle basics](#) ...

Topic is required for:

[Basic project structure](#) ...

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