spring-boot-starter-parent dependency which is used internally by all spring boot dependencies.

**What is spring-boot-starter-parent dependency?**

The spring-boot-starter-parent dependency is the parent POM providing dependency and plugin management for Spring Boot-based applications. It contains the default versions of Java to use, the default versions of dependencies that Spring Boot uses, and the default configuration of the Maven plugins.

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?>  <project xmlns="<http://maven.apache.org/POM/4.0.0>" xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"      xsi:schemaLocation="<http://maven.apache.org/POM/4.0.0> <http://maven.apache.org/xsd/maven-4.0.0.xsd;>      <modelVersion>4.0.0</modelVersion>      <parent>          <groupId>org.springframework.boot</groupId>          <artifactId>spring-boot-dependencies</artifactId>          <version>${revision}</version>          <relativePath>../../spring-boot-dependencies</relativePath>      </parent>      <artifactId>spring-boot-starter-parent</artifactId>      <packaging>pom</packaging>      <name>Spring Boot Starter Parent</name>      <description>Parent pom providing dependency and plugin management for applications          built with Maven</description>      <properties>          <java.version>1.8</java.version>          <resource.delimiter>@</resource.delimiter> <!-- delimiter that doesn't clash with Spring ${} placeholders -->          <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>          <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>          <maven.compiler.source>${java.version}</maven.compiler.source>          <maven.compiler.target>${java.version}</maven.compiler.target>      </properties>        ...        <resource>          <directory>${basedir}/src/main/resources</directory>          <filtering>true</filtering>          <includes>              <include>\*\*/application\*.yml</include>              <include>\*\*/application\*.yaml</include>              <include>\*\*/application\*.properties</include>          </includes>      </resource>    </project> |

The spring-boot-starter-parent dependency further inherits from spring-boot-dependencies, which is defined at the top of above POM file at line number : 9.

This file is the actual file which contains the information of default version to use for all libraries. The following code shows the different versions of various dependencies that are configured in spring-boot-dependencies:

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?> |
| <project xmlns="<http://maven.apache.org/POM/4.0.0>" xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>" |

    xsi:schemaLocation="<http://maven.apache.org/POM/4.0.0> <http://maven.apache.org/xsd/maven-4.0.0.xsd;>

    <modelVersion>4.0.0</modelVersion>

    <parent>

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

        <artifactId>spring-boot-dependencies</artifactId>

        <version>${revision}</version>

        <relativePath>../../spring-boot-dependencies</relativePath>

    </parent>

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

    <packaging>pom</packaging>

    <name>Spring Boot Starter Parent</name>

    <description>Parent pom providing dependency and plugin management for applications

        built with Maven</description>

    <properties>

        <java.version>1.8</java.version>

        <resource.delimiter>@</resource.delimiter> <!-- delimiter that doesn't clash with Spring ${} placeholders -->

        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

        <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>

        <maven.compiler.source>${java.version}</maven.compiler.source>

        <maven.compiler.target>${java.version}</maven.compiler.target>

    </properties>

    ...

    <resource>

        <directory>${basedir}/src/main/resources</directory>

        <filtering>true</filtering>

        <includes>

            <include>\*\*/application\*.yml</include>

            <include>\*\*/application\*.yaml</include>

            <include>\*\*/application\*.properties</include>

        </includes>

    </resource>

</project>

**Popular templates and their transitive dependencies**

I am listing down some very frequently use spring starters and what dependencies they bring along, for information only.

|  |  |
| --- | --- |
| **STARTER** | **DEPENDENCIES** |
| spring-boot-starter | spring-boot, spring-context, spring-beans |
| spring-boot-starter-jersey | jersey-container-servlet-core, jersey-container-servlet, jersey-server |
| spring-boot-starter-actuator | spring-boot-actuator, micrometer-core |
| spring-boot-starter-aop | spring-aop, aspectjrt, aspectjweaver |
| spring-boot-starter-data-rest | spring-hateoas, spring-data-rest-webmvc |
| spring-boot-starter-hateoas | spring-hateoas |
| spring-boot-starter-logging | logback-classic, jcl-over-slf4j, jul-to-slf4j |
| spring-boot-starter-log4j2 | log4j2, log4j-slf4j-impl |
| spring-boot-starter-security | spring-security-web, spring-security-config |
| spring-boot-starter-test | spring-test, spring-boot,junit,mockito, hamcrest-library, assertj, jsonassert, json-path |
| spring-boot-starter-web-services | spring-ws-core |