

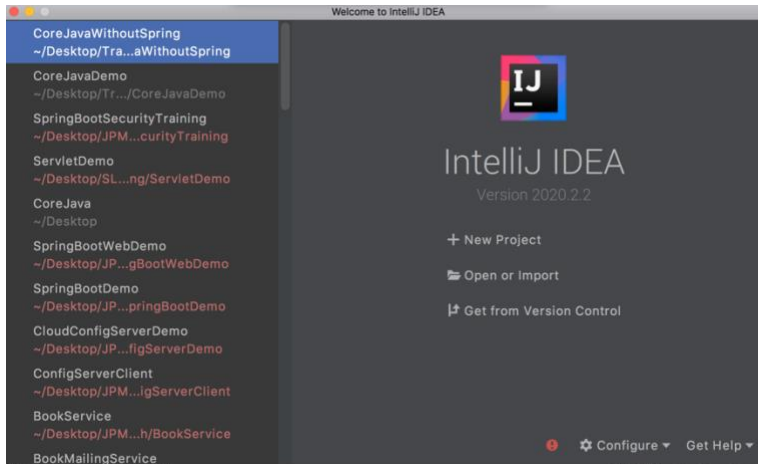
Basic Spring Project - IntelliJ

1. IntelliJ : Download **community edition** for respective OS
<https://www.jetbrains.com/idea/download/#section=windows>

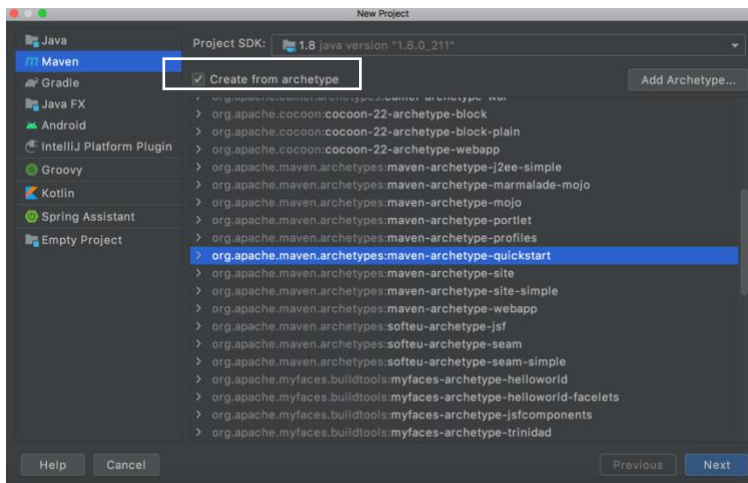
Maven Project: IntelliJ

a. QuickStart Maven Project

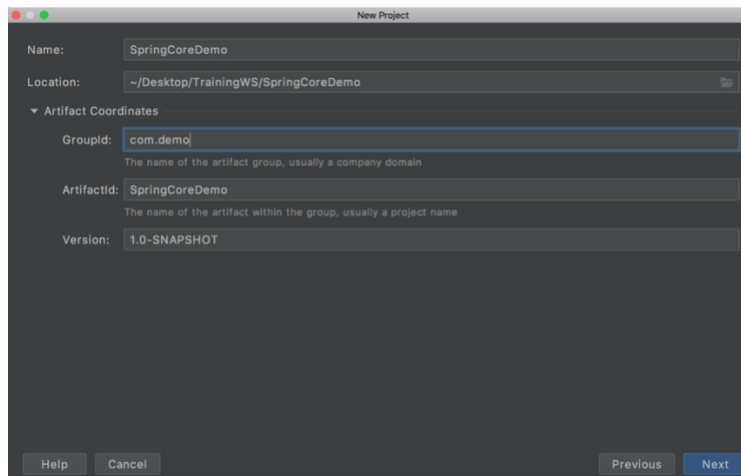
Open IntelliJ and select New Project [MAC]



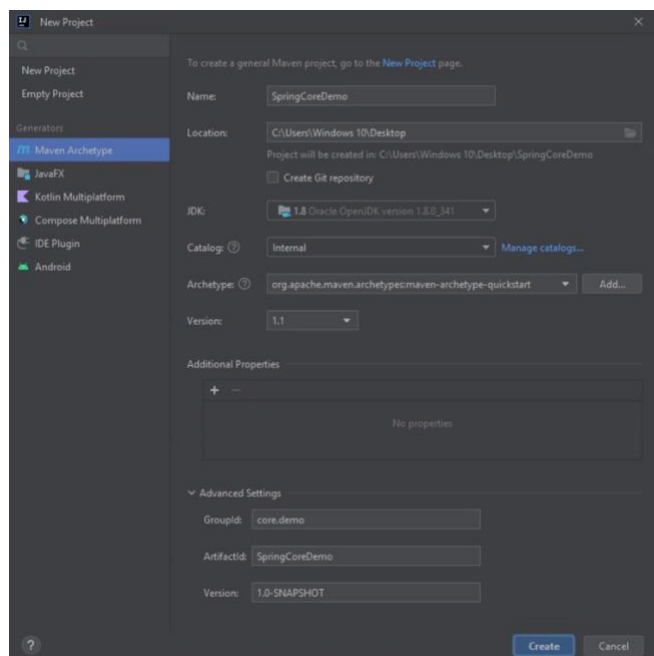
Select maven , tick the **checkbox** and select the archetype as highlighted:



Click next and enter the project name. Click on Artifact Coordinates and change the group id. Rest keep the defaults and click next -> next -> Finish



FOR WINDOWS:



Once the project is created update the java version in pom.xml file as follows:

1. JDK 8 and below : Just update the version with the one installed on your machine as follows

```
14
15 <properties>
16   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
17   <maven.compiler.source>1.8</maven.compiler.source>
18   <maven.compiler.target>1.8</maven.compiler.target>
19 </properties>
20
```

2. For JDK 9 and beyond : Update the version and also update the compiler plugin as follows:

```
14
15 <properties>
16   <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
17   <java.version>11</java.version>
18 </properties>
19
```

To update the compiler plugin , add release as shown below:

```
42   <plugin>
43     <artifactId>maven-compiler-plugin</artifactId>
44     <version>3.8.0</version>
45     <configuration>
46       <release>11</release>
47     </configuration>
48   </plugin>
```

If the above plugin is not there, then add it as shown below within the <build> tag.

The <build> tag will be in the last just before the closing </project> tag

```
<build>
  <pluginManagement><!-- lock down plugins versions to avoid using
  <plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.8.0</version>
      <configuration>
        <release>11</release>
      </configuration>
    </plugin>
  </plugins>
</pluginManagement>
</build>
```

Next step is to add spring dependencies as follows within the <dependencies> tag

```
<properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <java.version>11</java.version>
    <spring.version>5.3.23</spring.version>
</properties>
<dependencies>
    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-context</artifactId>
        <version>${spring.version}</version>
    </dependency>
    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-tx</artifactId>
        <version>${spring.version}</version>
    </dependency>
    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-jdbc</artifactId>
        <version>${spring.version}</version>
    </dependency>
    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>8.0.28</version>
    </dependency>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>3.8.1</version>
        <scope>test</scope>
    </dependency>
</dependencies>
```

Once dependencies are added, click on Maven tab on the right side of the editor and reload maven project as shown below:

