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# How to Create a Spring Boot Project?

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Spring Boot is a framework that simplifies Java application development by eliminating complex XML configurations and providing built-in support for common tasks. One of the first steps to working with Spring Boot is creating a project. This article will guide you through different ways to set up a Spring Boot project.

## Create a Spring Boot Project in Eclipse IDE

Eclipse is a widely used IDE for Java development. The steps to create a Spring Boot project in Eclipse are listed below:

**Prerequisite:** [Install the Eclipse IDE](#)

## Step-by-Step Implementation

### Step 1: Create a Spring Boot Project in Spring Initializr

- Visit [Spring Initializr](#).
- Fill in project details (Group, Artifact, Dependencies, Java version, etc.).
- Click Generate to download the project as a .zip.
- Extract the folder on your system.

The Spring Initializr web interface is shown with the following configuration:

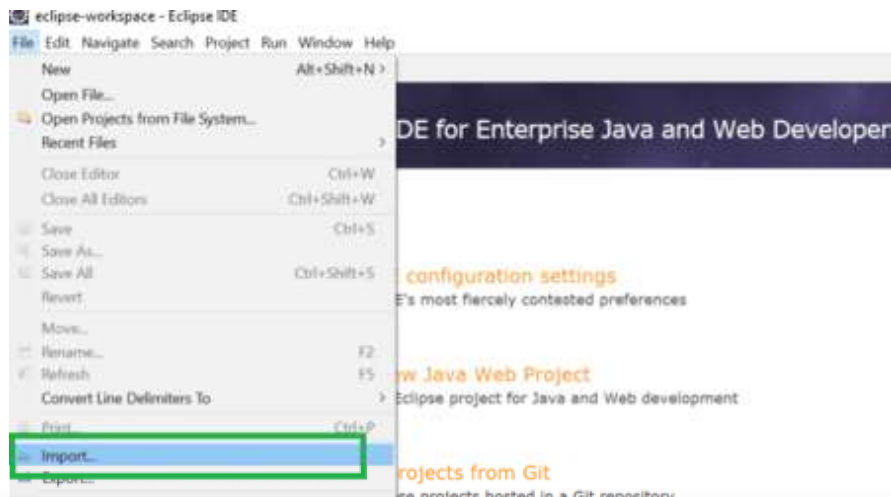
- Project:** ☒ Maven
- Language:** ☒ Java, ☐ Kotlin, ☐ Groovy
- Spring Boot:** ☐ 3.5.0 (SNAPSHOT), ☐ 3.5.0 (M2), ☐ 3.4.4 (SNAPSHOT), ☒ 3.4.3, ☐ 3.3.10 (SNAPSHOT), ☐ 3.3.9
- Project Metadata:**
  - Group:
  - Artifact:
  - Name:
  - Description:
  - Package name:
  - Packaging: ☒ Jar, ☐ War
  - Java: ☐ 23, ☐ 21, ☒ 17
- Dependencies:** ☒ Spring Web (WEB). A button "ADD DEPENDENCIES S... CTRL + B" is highlighted.

At the bottom, the "GENERATE CTRL + G" button is highlighted, along with "EXPLORE CTRL + SPACE" and a menu icon.

Spring Initializr

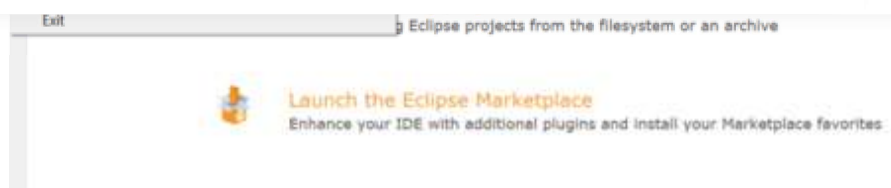
## Step 2: Import Spring Boot Project in Eclipse IDE

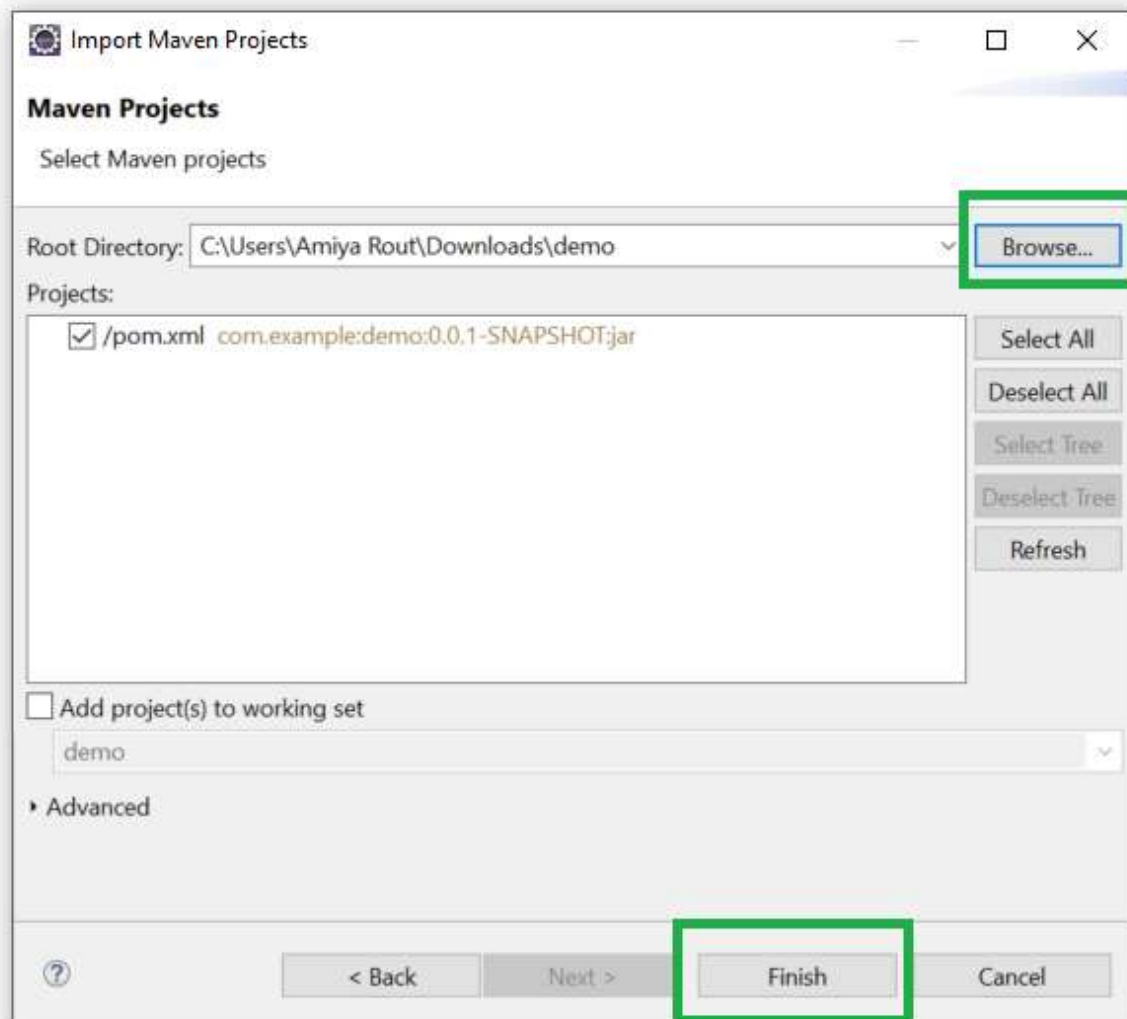
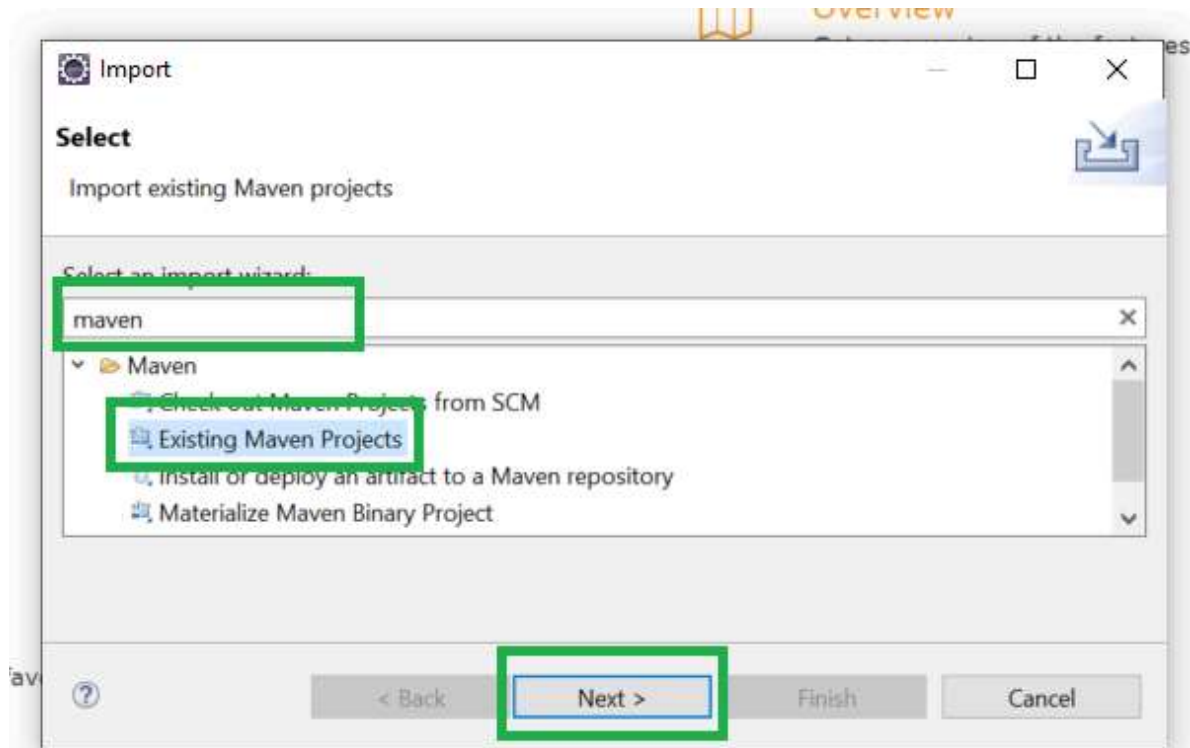
- Open Eclipse IDE ->File->Import
- Search Maven->Select Existing Maven Project->Click Next
- Browse and select the extracted project folder
- Click Finish



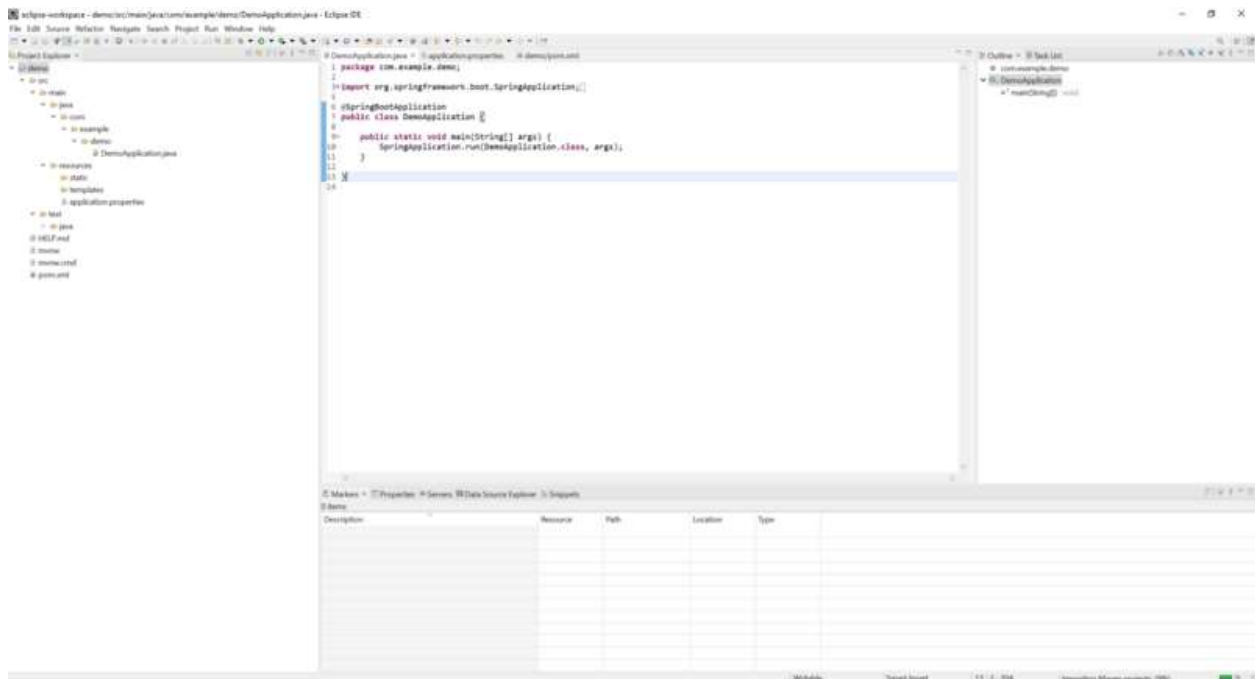
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**Note:** By now, Spring Boot project has been created as depicted in the below media



code-editor

## Create a Spring Boot Project in STS IDE

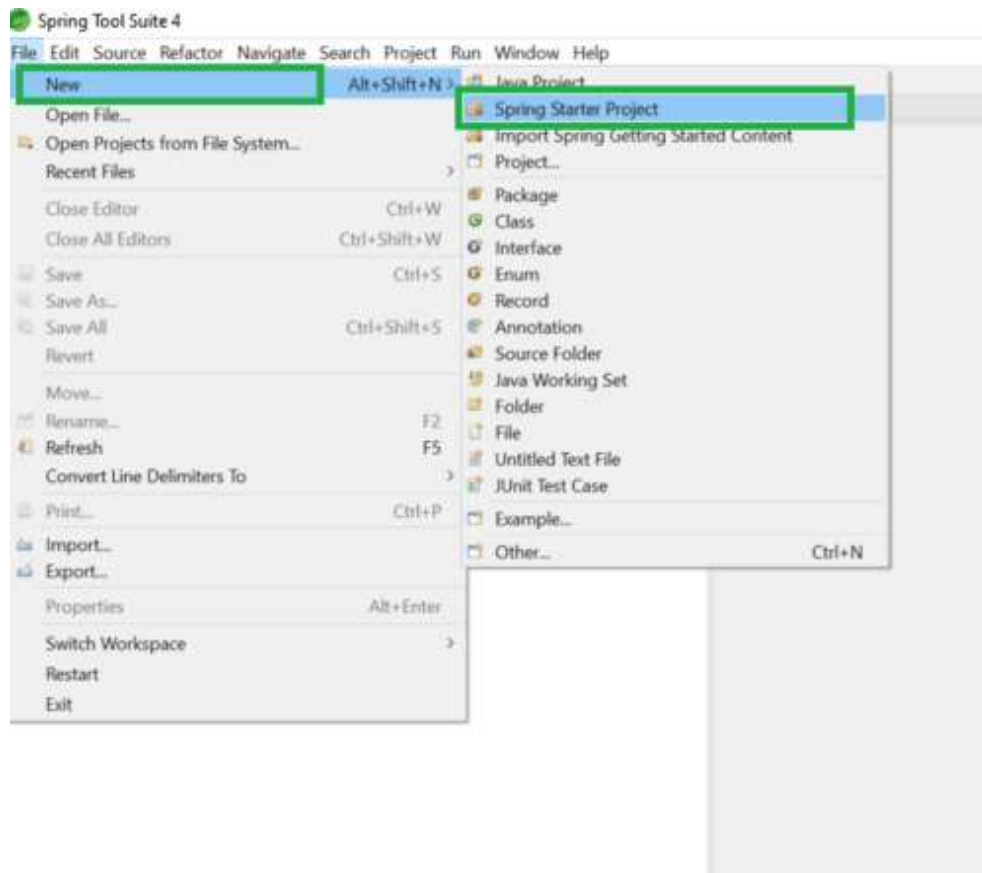
Spring Tool Suite (STS) is a specialized Eclipse-based IDE designed for Spring applications. It comes with built-in support for Spring Boot, making the setup process faster and easier.

**Prerequisite:** [Download and install STS](#)


## Step-by-Step Implementation

**Step 1:** Create a New Spring Starter Project.


- Go to File -> New -> Spring Starter Project
- Enter project details (Name, Group, Artifact, Java version, Packaging, etc.)
- Click Next



STS

— □ ×

## New Spring Starter Project



Service URL

https://start.spring.io

Name

demo

☒ Use default location

Location

C:\Users\GFG0574\Documents\workspace-spring-tool-suite-4-4.28.1

Browse

Type:

Maven

Packaging:

Jar

Java Version:

17

Language:

Java

Group

com.example

Artifact

MyProject

Version

0.0.1-SNAPSHOT

Description

Demo project for Spring Boot

Package

com.example.demo


Working sets

☐ Add project to working sets

New...

Working sets:

Select...



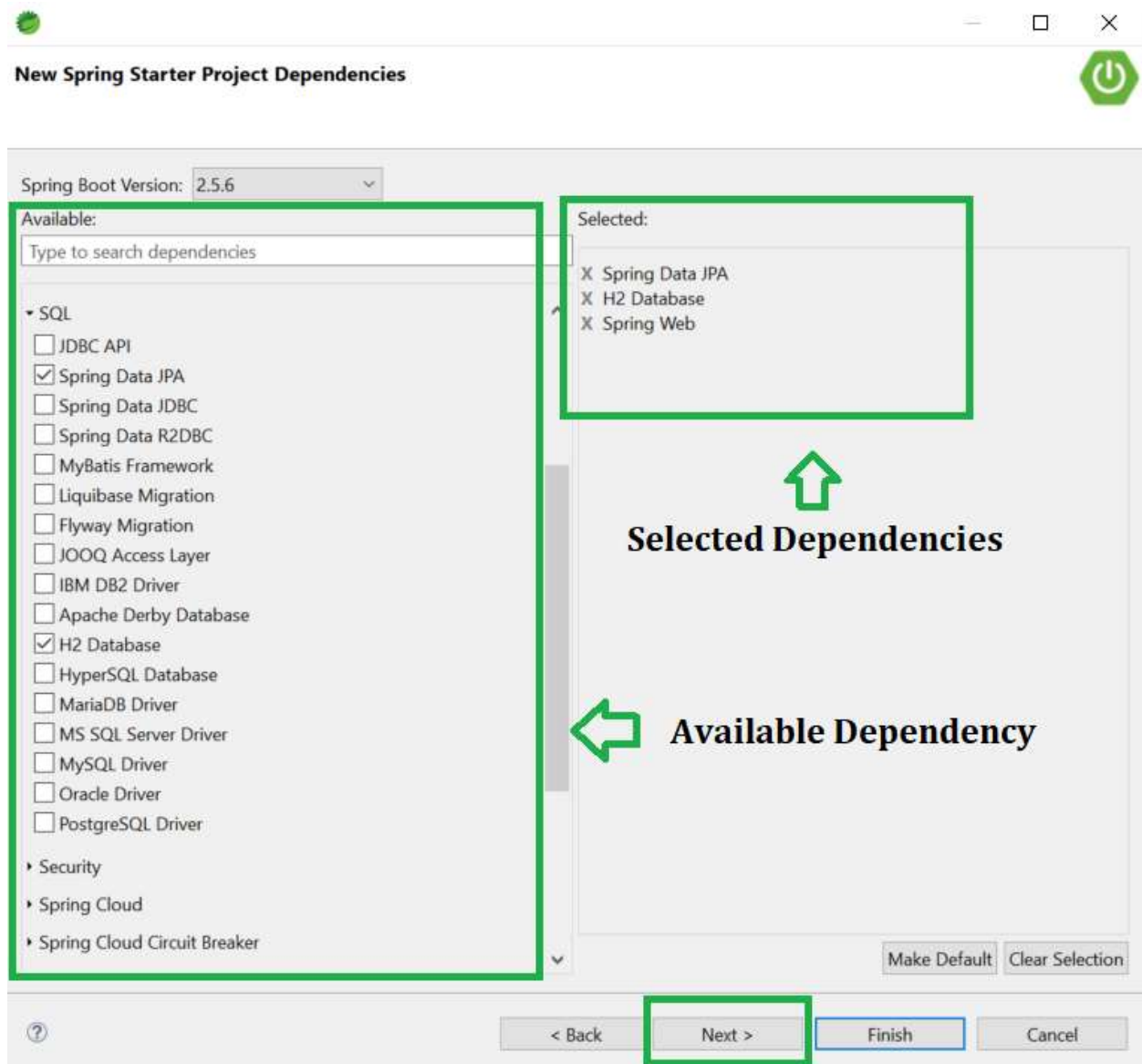
< Back

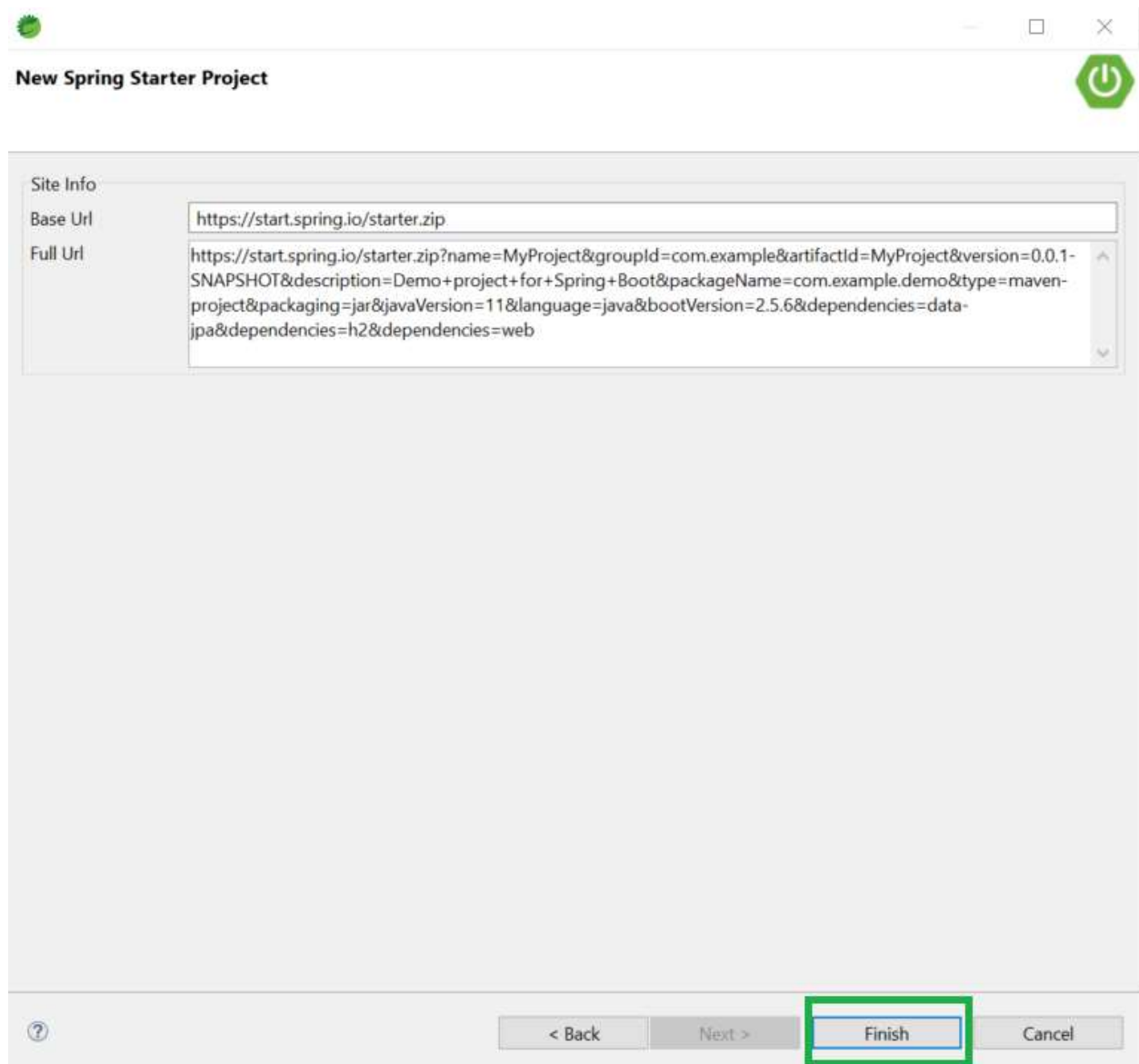
Next >

Finish

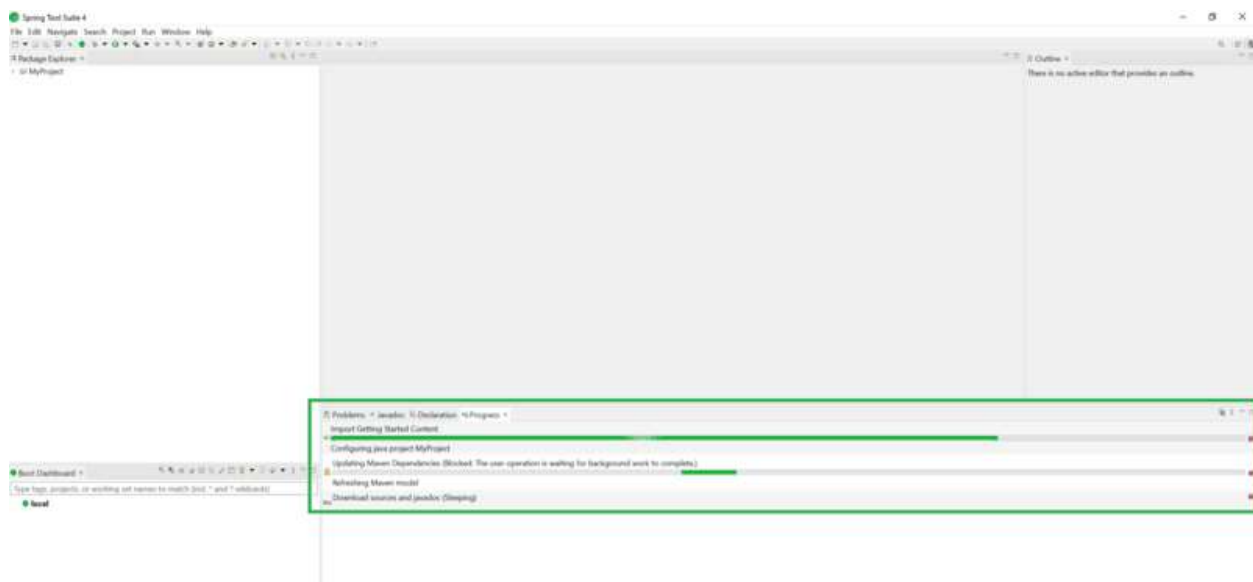
Cancel

Spring Initializr



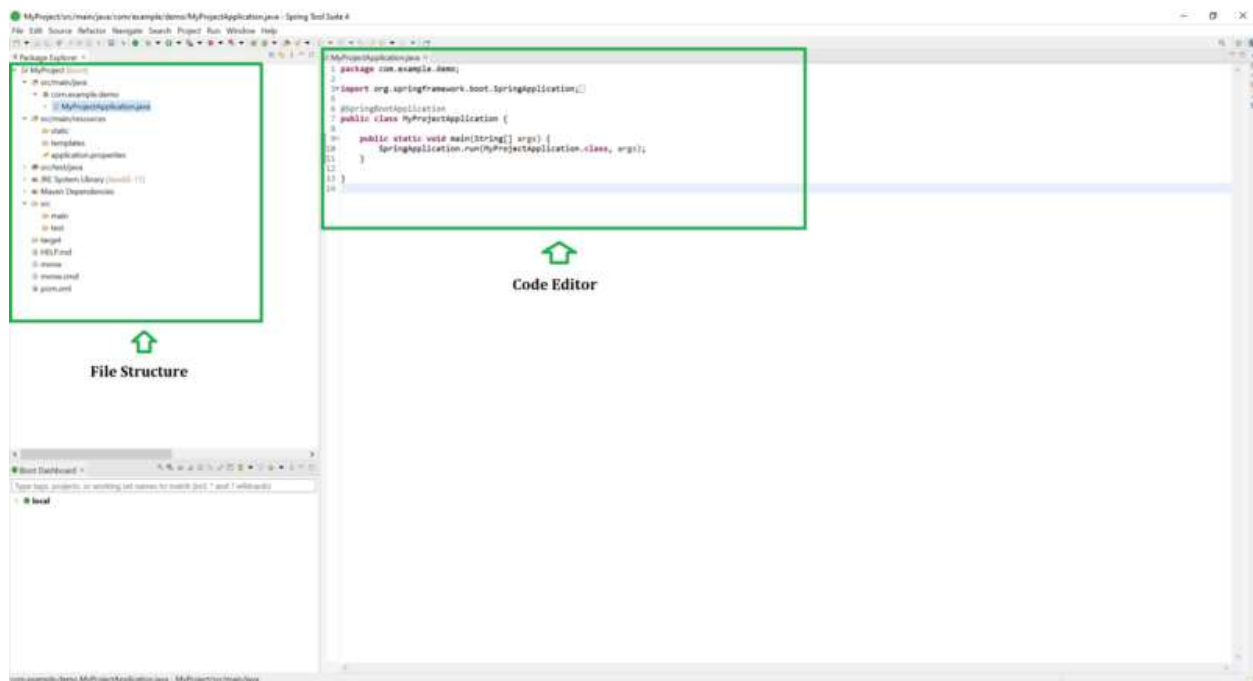


Here now, please wait for some time to download all the required files such as dependencies that you have selected in Step4 above.





**Note:** Below is the Welcome screen after you have successfully Created and Setup Spring Boot Project in Spring Tool Suite



code-editor

## Create a Spring Boot Project in IntelliJ IDEA

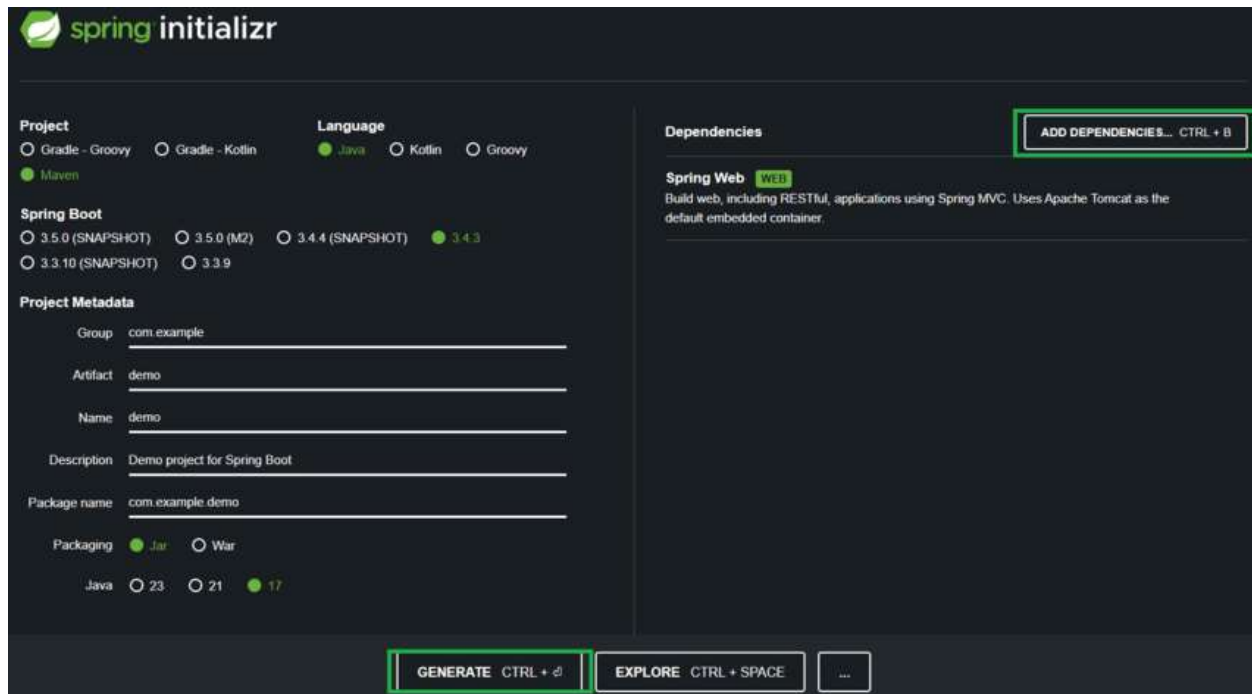
IntelliJ is an integrated development environment(IDE) written in Java. It is used for developing computer software. This IDE is developed by JetBrains and is available as an Apache 2 Licensed community edition and a commercial edition.

**Prerequisite:** [Download and install IntelliJ IDEA.](#)

### Step 1: Create a Spring Boot Project using Spring Initializr

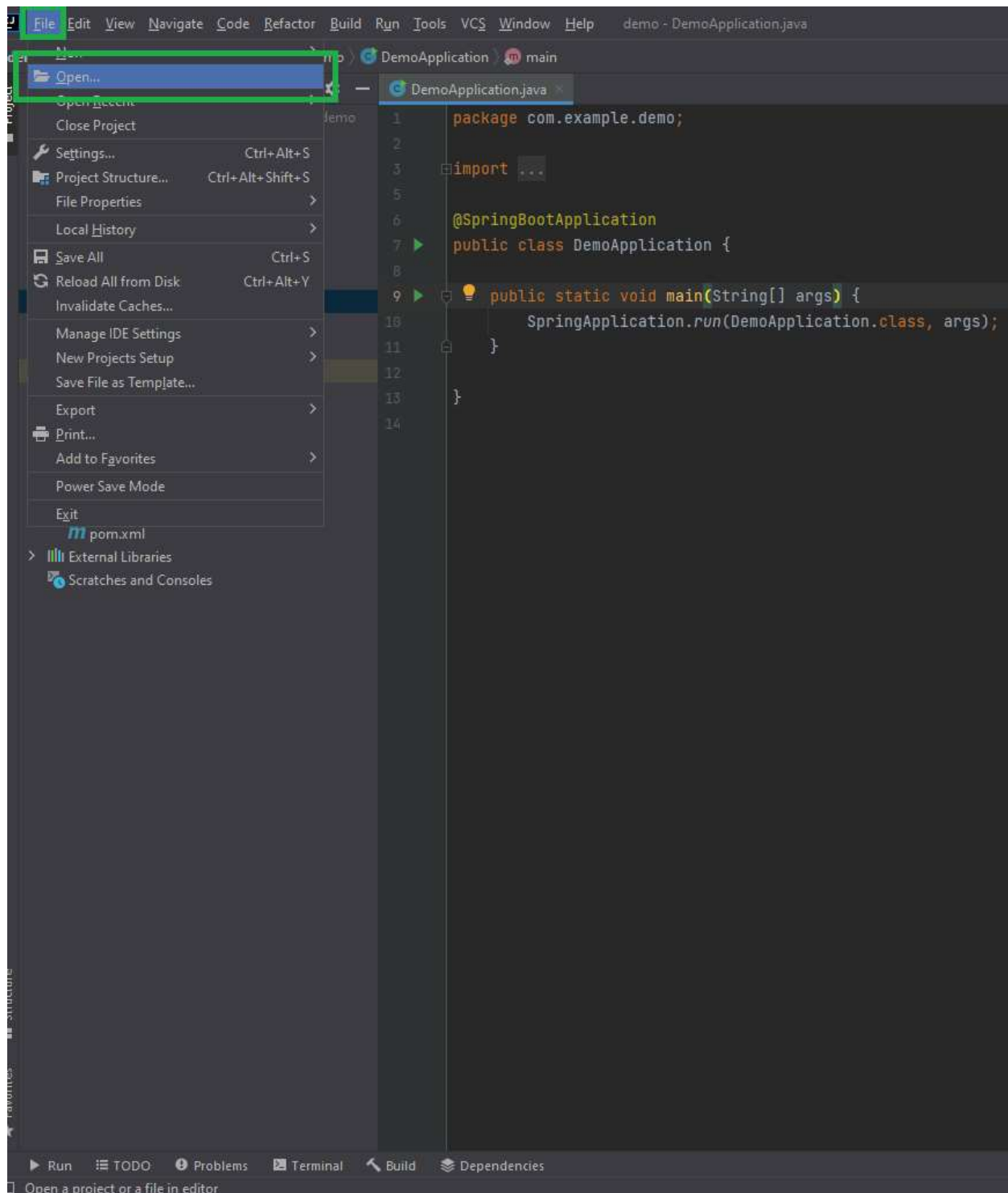
1. Open a web browser and go to [Spring Initializr.](#)
2. Fill in the project details:
  - **Project:** Maven or Gradle
  - **Language:** Java
  - **Spring Boot Version:** (latest stable version recommended)
  - **Project Metadata:** (Group, Artifact, Name, Description, Package Name)
  - **Dependencies:** Add required dependencies such as Spring Web, Spring Data JPA, etc.

3. Click the **GENERATE** button.
4. A **ZIP file** of the Spring Boot project will be downloaded.
5. Extract the ZIP file to a folder on your local machine.



The image shows the Spring Initializr web form. It has a dark theme with green accents. The form is divided into several sections: Project, Language, Spring Boot, Project Metadata, Dependencies, and a bottom bar with buttons. The 'Project' section has radio buttons for Gradle - Groovy, Gradle - Kotlin, and Maven (selected). The 'Language' section has radio buttons for Java (selected), Kotlin, and Groovy. The 'Spring Boot' section has radio buttons for 3.5.0 (SNAPSHOT), 3.5.0 (M2), 3.4.4 (SNAPSHOT), 3.4.3 (selected), 3.3.10 (SNAPSHOT), and 3.3.9. The 'Project Metadata' section has text input fields for Group (com.example), Artifact (demo), Name (demo), Description (Demo project for Spring Boot), and Package name (com.example.demo). The 'Packaging' section has radio buttons for Jar (selected) and War. The 'Dependencies' section has a text input field and a button 'ADD DEPENDENCY S... CTRL + B'. The bottom bar has buttons 'GENERATE CTRL + G' (highlighted with a green box), 'EXPLORE CTRL + SPACE', and a button with three dots.

Once IntelliJ IDEA is successfully installed, navigate to **File -> Open** as seen in the below image.



A pop-up window will appear where you need to select the Spring Boot project created in step 2 (e.g., "demo" in the Downloads folder). Finally, click OK, and IntelliJ IDEA will set up the project by downloading all the required files.