

Lesson 01 Demo 01

Create Spring Boot Project with Spring Initializr

Objective: To create a Spring Boot application using the Spring Initializr to view the

application created

Tools Required: Eclipse IDE and Visual Studio Code

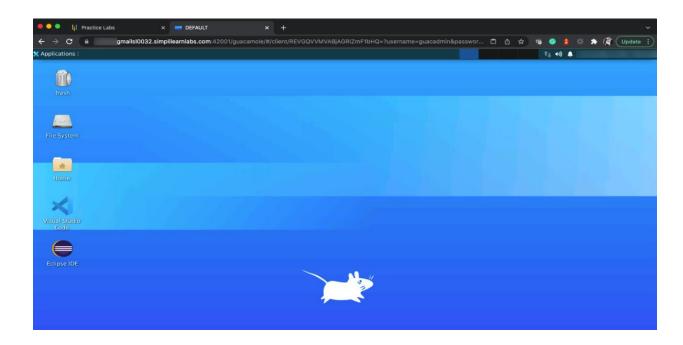
Prerequisites: None

Steps to be followed:

- 1. Configuring the project from the Spring Initializr website
- 2. Extracting the downloaded project
- 3. Building and running the project

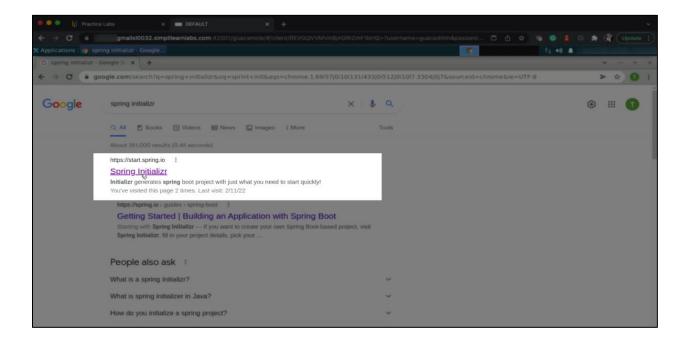
Step 1: Configuring the project from the Spring Initializer website

1.1 Open Eclipse IDE

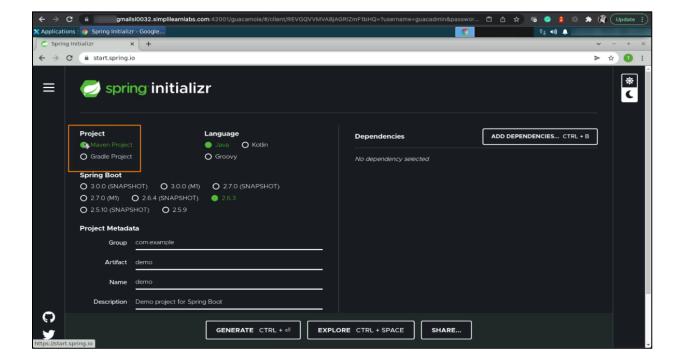




1.2 Search for **Spring Initializr** in the browser and **select** the first official link to generate the Spring Boot project with the configuration

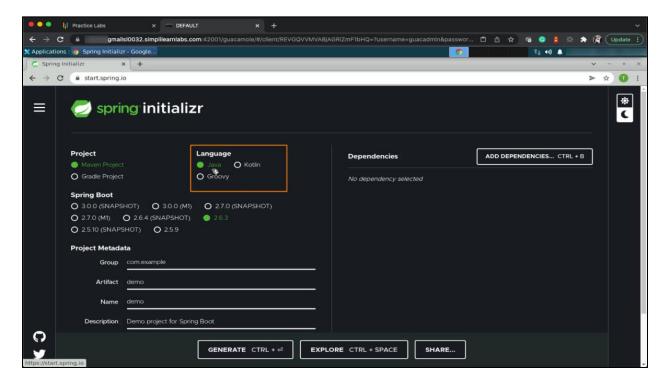


1.3 Select the build tool for the project as Maven Project

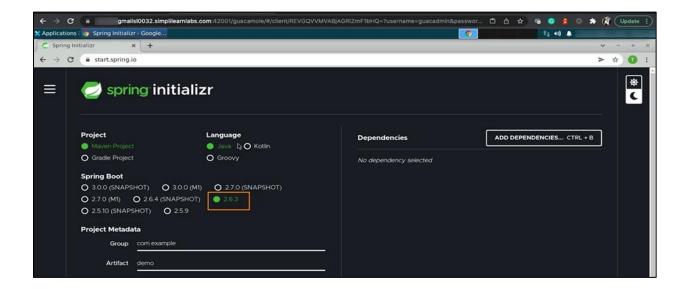




1.4 Select **Java** for the language preference. The optional languages provided are Kotin and Groovy, so if you wish to work with Kotin or Groovy you can use them.

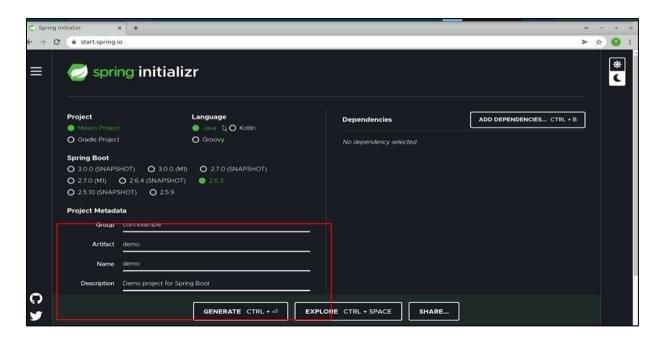


1.5 Next, select a **stable version** of Spring Boot that you want to use. **2.6.3** is selected by default as one of the stable versions.

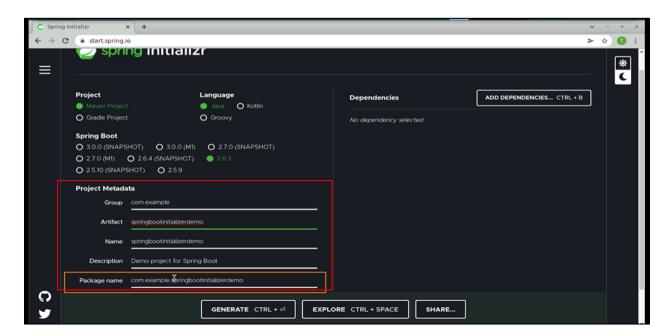




1.6 Next, fill up Project Metadata. Name the Group and Artifact ID of the project



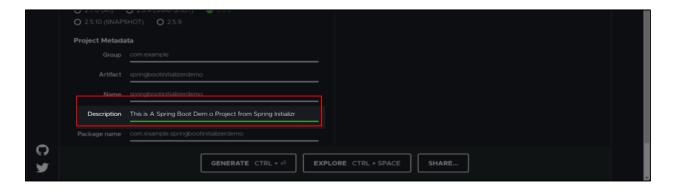
1.7 The **Group** is the company's domain name in reverse order and **Artifact ID** is the project name; for now, name it **springbootinitializerdemo**



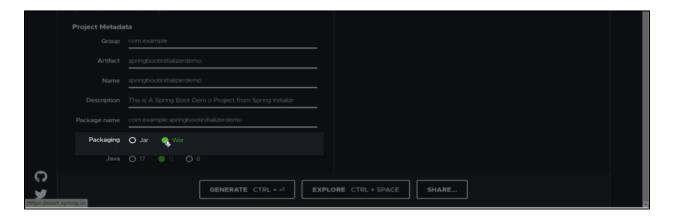


Note: Whatever artifact name you choose will automatically become your application name, and the package name will be configured accordingly.

1.8 Write the **Description** as **This is a Spring Boot Demo Project from Spring Initializer**

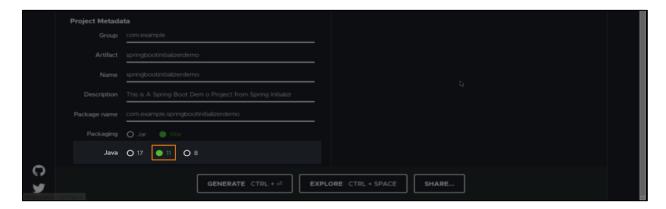


1.9 Now, the **Packaging** of your project will be a jar or a war. If you are developing a web application, you need to select **War**.

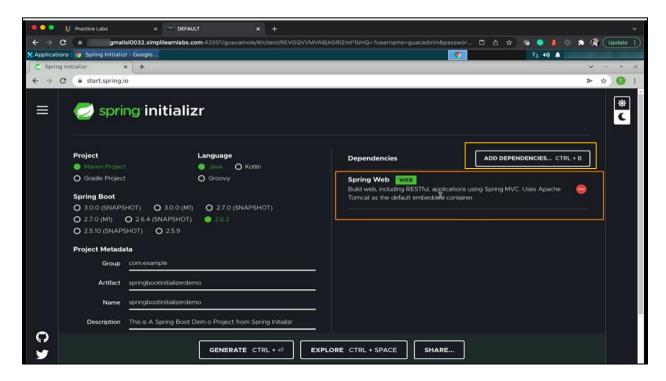




1.10 Select Java version 11



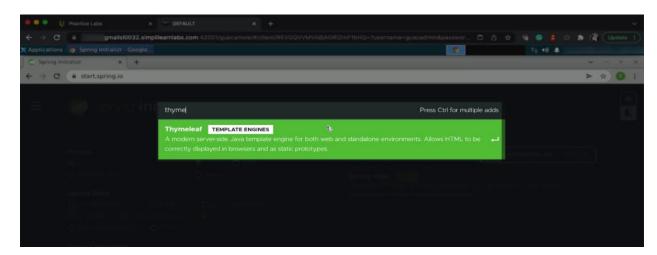
1.11 Click the **ADD DEPENDENCIES** option, search for the web, and get the **Spring Web** added



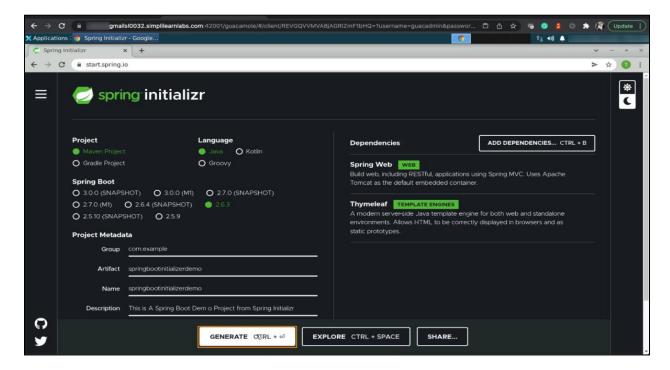
Note: You can configure the project's dependencies when creating your project rather than doing the configuration in the POM.xml file later.



1.12 Click ADD DEPENDENCIES, search for Thymeleaf, and select it for template engines



1.13 Now that the project structure is completed, click **Generate**



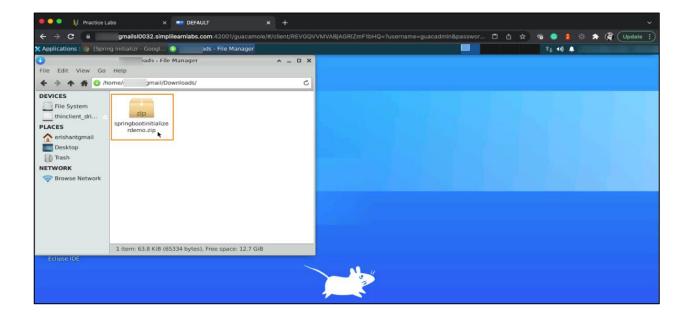


Step 2: Extracting the downloaded project

2.1 After generating the created project, a **zip file** will be downloaded.

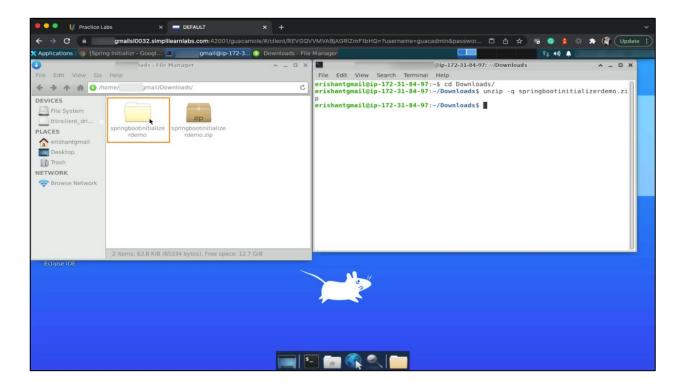


2.2 Open the **Downloads** directory. The downloaded zip package will be available.



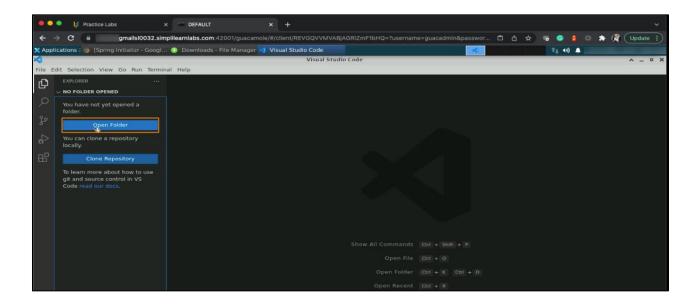


2.3 **Unzip** the downloaded package by executing the command **unzip –q <packagename>** Now, the highlighted folder will be extracted.



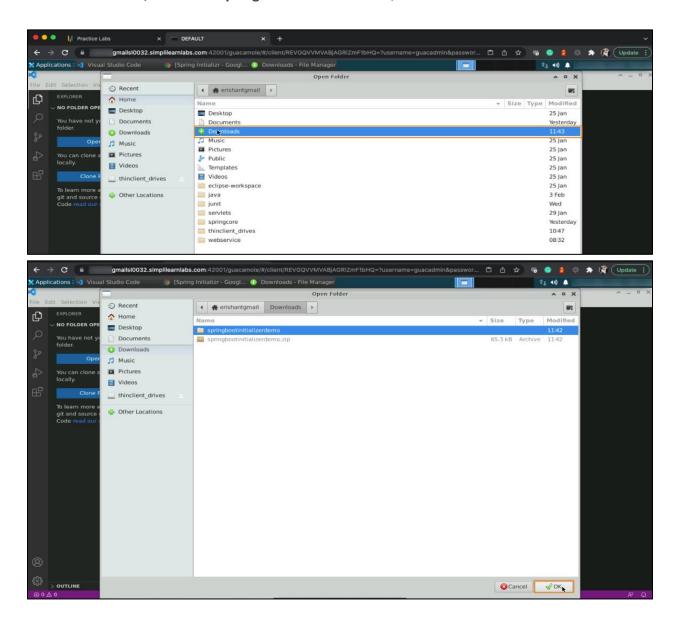
Step 3: Building and running the project

3.1 Open the Visual Studio code and click Open Folder in the downloads directory





3.2 Select **Downloads**, select the **springbootinitializerdemo**, and click **Ok**

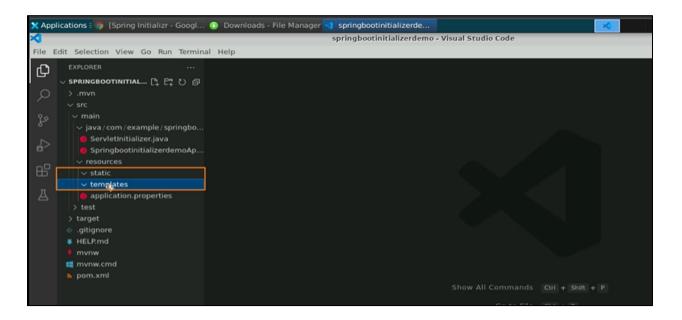




3.3 Select the maven project. Navigate to the src>main. Select Application.java from the two directories

```
| SpringbootinitializerdemoApplication.java - springbootinitializerdemo - Visual Studio Code
| Spring
```

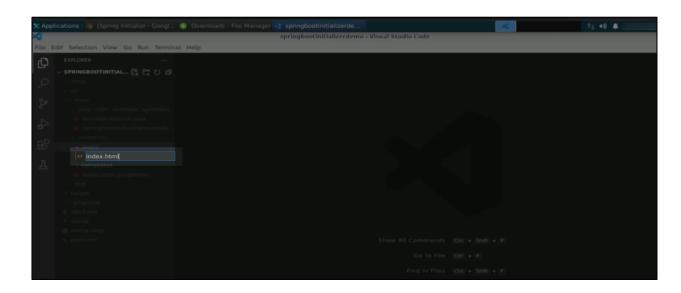
3.4 Select resources. You will find that two directories are empty now. Select static



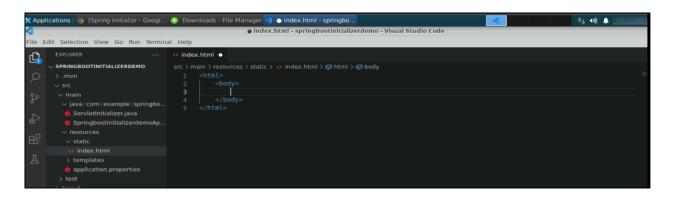
Note: You can create your HTML web pages in the static directory. In templates, you can create your HTML webpages, but these are the templates that would be used by your controller in the Spring Boot Web MVC package.



3.5 Create a new file and name the file index.html



3.6 Start with the root tag as HTML, create one body tag, and type the <html> and <body> tag





3.7 Create an h3 tag as **Welcome to Spring Boot using Initializer**. A basic HTML page will be created.

```
| Spring Initializer Google... | Downloads - File Manager | Index.html - springbo... | Index.html - springbot... |
```

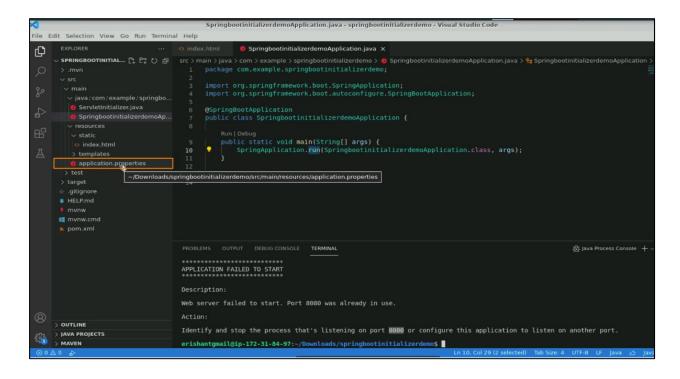
3.8 Select the Application.java file from the source directory and click on the Run

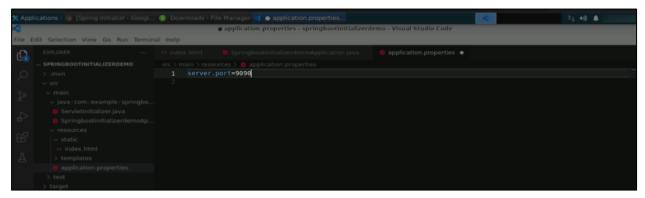
```
| Springbootinitializer | Spri
```

The output can of the Application.java be executed in the Terminal tab.



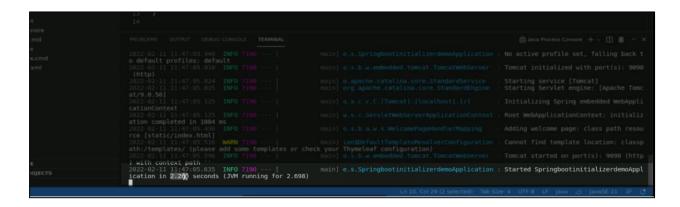
3.9 Now select the **application.properties** file. In this file, **write** the server port's number as **9090** and **save** the file and repeat step 3.8.



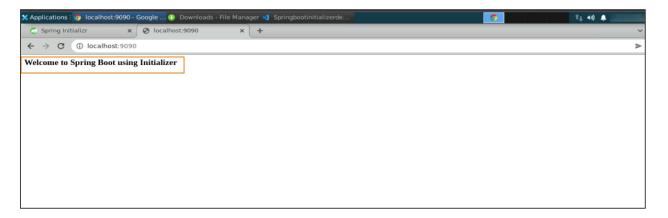


The following output can now be seen on the **Terminal tab**.





3.10 To view the application, go to the browser and search **localhost:9090** in the search bar. The following output can be seen on the browser's tab:



This is how you can create a basic Spring Boot web application project through the Spring Initializer.