Documentation for the Hello World Program in Spring Boot

Prerequisites :

- Spring Tool Suite
- o JDK

Steps for creating a web project :

- **1.** Go to the **start.spring.io** website.
- In the project field choose Maven, java version (that you have on your computer), select Web dependency, spring boot version, set the name for your project and generate the zip file.
- **3.** Extract the zip file on a folder on your computer.
- **4.** It contains several folders like java, resources, test java, maven dependencies, src, pom, etc.
- **5.** Go to the DemoApplication.java (or the main file of your package).
- **6.** It has some basic code. Now, it's time to edit the code as per your use.

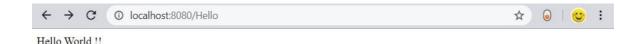
• Description of the project :

- I have used Maven instead of Gradle as the build system.
- In the DemoApplication.java, I have used the most common features of spring boot.
- For Example : auto configuration, GetMapping, RequestParam, RestController.
- I have created a separate function called **Hello** that takes an input parameter name and returns a string that is to be printed on the localhost. The function combines the string "Hello" with the request and prints eg: "Hello John" if name = john is sent as request. Else if no request is there, it is by default "Hello World".
- The @RestController tells spring that this code describes an endpoint that should be made available over the web.
- The @GetMapping("/Hello") tells the spring to use our Hello method to answer requests that get sent to the https://localhost:8080/Hello address.
- The **@RequestParam** is telling spring to expect a name value in the request else it will have some default value.

```
1 package com.example.demo;
3@ import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5 import org.springframework.web.bind.annotation.GetMapping;
6 import org.springframework.web.bind.annotation.RequestParam;
7 import org.springframework.web.bind.annotation.RestController;
8
9 @SpringBootApplication
10 @RestController
11 public class DemoApplication {
12
13⊖
       public static void main(String[] args) {
14
           SpringApplication.run(DemoApplication.class, args);
15
16⊖
       @GetMapping("/Hello")
       public String Hello(@RequestParam(value = "name", defaultValue = "World") String name) {
17
18
          return String.format("Hello %s !!", name);
19
20 }
21
```

• It's time to RUN:

- To run the program run the command in the command prompt by navigating to the folder where we have our project files: mvnw spring-boot:run
- When I ran it for the first time it was showing some error regarding the localhost:8080 to be busy. To tackle the given problem, I run the command netstat -ao |find /i "listening" to get the details for the running processes. It shows that the port was to the process with Process ID 12368. So to kill that process I executed the command Taskkill /F /IM 12368.
- After running the code again, it successfully gets executed on port 8080.
- When we open https://localhost:8080/Hello the output is as shown in the image:



- To make a request using the parameter we just need to add: ?name=(anything you want to display) after the URL.
- For example, <a href="https://localhost:8080/Hello?name="https://localhost:8080/Hell



References are taken from the official website of spring.

THANK YOU

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