**Hello World RESTful Web Service**

**Spring REST using Spring Boot 3**

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This project is a simple Spring Boot application that demonstrates the creation of a RESTful web service using Spring Web. The service provides a basic endpoint (/hello) that returns the message "Hello World!!" and logs its execution using SLF4J.

**Objective:**

* To build a RESTful web service using Spring Boot and expose a GET endpoint.
* To apply the @RestController and @GetMapping annotations for handling web requests.
* To implement basic logging using SLF4J to track method entry and exit points.

**Implementation:**

### Generate Project from Spring Initializr

Go to: [https://start.spring.io](https://start.spring.io" \t "_new)

Set:

Group: com.cognizant

Artifact: spring-learn

Add Dependencies:

Spring Web

Spring Boot DevTools.

Click **Generate**, and download the .zip file.

Extract the zip file to a suitable folder.

### Open Project in IntelliJ IDEA

Open IntelliJ IDEA.

Click **File > Open**.

Browse and select the extracted spring-learn folder.

IntelliJ will auto-detect it as a Maven project and build it.

If prompted to import as Maven project, click **Yes** or **Import**.

**SpringLearnApplication.java:**

package com.cognizant.spring\_learn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringLearnApplication {

public static void main(String[] args) {

SpringApplication.run(SpringLearnApplication.class, args);

}

}

**HelloController.java:**

package com.cognizant.spring\_learn;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.RestController;

@RestController

public class HelloController {

private static final Logger LOGGER = LoggerFactory.getLogger(HelloController.class);

@GetMapping("/hello")

public String sayHello() {

LOGGER.info("START sayHello()");

String message = "Hello World!!";

LOGGER.info("END sayHello()");

return message;

}

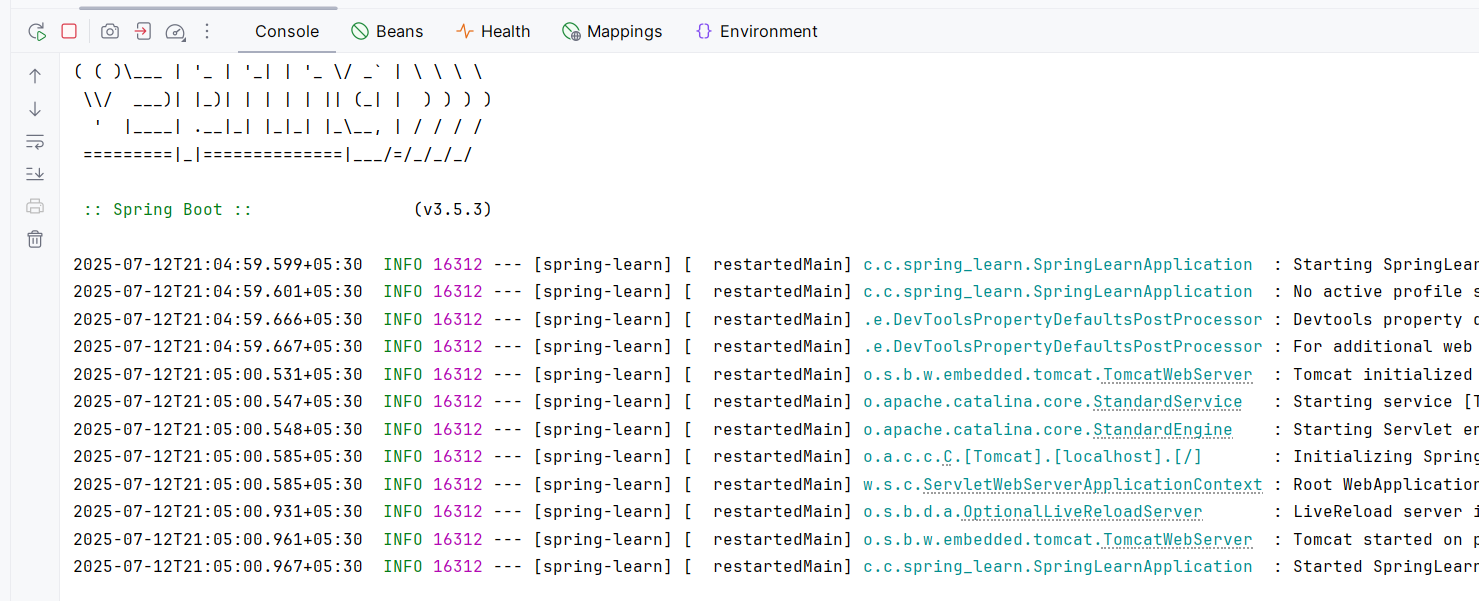
}

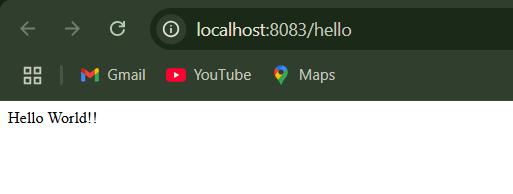
**Application.properties:**

spring.application.name=spring-learn

server.port=8083

**Output:**

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