Building RESTful Web Services

using Spring Boot Part - 1

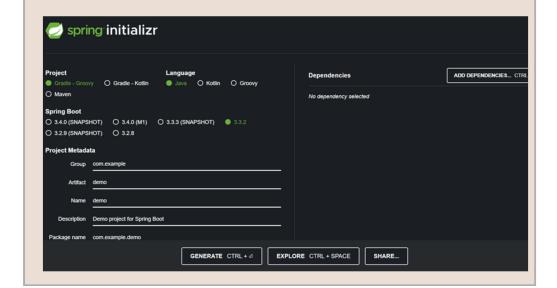


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Step 1: Set Up Spring Boot

using **Spring Initializr**.

• Website: https://start.spring.io/



Step 2: Create a REST Controller

```
© DemoController.java ×
       import org.springframework.web.bind.annotation.RestController;
       public class DemoController {  no usages
          @RestController no usages
          @RequestMapping("/api")
          public class DemoControllers {
              // GET method to fetch a message
              @GetMapping("/hello") no usages
              public String getHello() {
                  return "Hello, World!";
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              // GET method to fetch a message with a path variable
20
              @GetMapping("/hello/{name}") no usages
              public String getHelloName(@PathVariable String name) {
                   return "Hello, " + name + "!";
24
              // POST method to create a new message
              @PostMapping("/message") no usages
              public String postMessage(@RequestBody String message) {
28
                   return "Message received: " + message;
29
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```

Step 3: Application Entry point

Step 4: Run the Application

Run your Spring Boot application, and you should be able to access the endpoints:

- GET->http://localhost:8080/api/hello-will return "Hello, World!"
- GET http://localhost:8080/api/hello/{name}
 will return "Hello, {name}!" (replace {name} with any string)
- POST->http://localhost:8080/api/message
 with a JSON body will return "Message received: {your_message}"

Summary

- REST Controllers: Define controllers to handle
 HTTP requests and responses. Request Mapping:
 Map HTTP requests to specific handler methods
 using annotations.
- GET Method: Retrieve data from the server.
- POST Method: Send data to the server for creation or processing. Path Variables: Capture dynamic values from the URI. Request Body: Bind the HTTP request body to a method parameter.
- **Spring Boot Application**: Entry point to run the Spring Boot application.
- **Testing Endpoints**: Use tools like Postman or curl to test your REST APIs.

Follow for more updates





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