**BUILD A SIMPLE REST API WITH SPRING BOOT**

Graphical user interface, text, application

Description automatically generatedPROJECT STRUCTURE:

CourseRestAPI.java

package SpringBootSimpleCourseRestAPI;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class CourseRestAPI {

    public static void main(String[] args) {

        SpringApplication.run(CourseRestAPI.class, args);

    }

}

CourseController.java

package SpringBootSimpleCourseRestAPI;

import java.util.Arrays;

import java.util.List;

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

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

@RestController

public class CourseController {

    @RequestMapping("/courses")

    public List<Course> retrieveAllCourses(){

        return Arrays.asList(

                new Course(1, "JAVA MASTERY", "MOSH HAMEDANI"),

                new Course(2, "PYTHON MASTERY", "MOSH HAMEDANI"),

                new Course(3, "C++ MASTERY", "MOSH HAMEDANI")

                );

    }

}

**@RequestMapping** is a Spring Boot annotation that maps HTTP requests to controller methods in a Spring Boot application. It is used to specify the URI (Uniform Resource Identifier) to which the method will respond to and the HTTP request method that the method should handle.

Course.java

package SpringBootSimpleCourseRestAPI;

public class Course {

    private int id;

    private String courseName;

    private String authorName;

    public Course(int id, String courseName, String authorName) {

        super();

        this.id = id;

        this.courseName = courseName;

        this.authorName = authorName;

    }

    public int getId() {

        return id;

    }

    public String getCourseName() {

        return courseName;

    }

    public String getAuthorName() {

        return authorName;

    }

    @Override

    public String toString() {

        return "Course [id=" + id + ", courseName=" + courseName + ", authorName=" + authorName + "]";

    }

}

Output:

Text

Description automatically generated