**CODE:**

eclipse.preferences.version=1

org.eclipse.jdt.core.compiler.codegen.targetPlatform=1.8

org.eclipse.jdt.core.compiler.compliance=1.8

org.eclipse.jdt.core.compiler.problem.enablePreviewFeatures=disabled

org.eclipse.jdt.core.compiler.problem.forbiddenReference=warning

org.eclipse.jdt.core.compiler.problem.reportPreviewFeatures=ignore

org.eclipse.jdt.core.compiler.release=disabled

org.eclipse.jdt.core.compiler.source=1.8

activeProfiles=

eclipse.preferences.version=1

resolveWorkspaceProjects=true

version=1

package com.library.controller;

import com.library.entity.Book;

import com.library.repository.BookRepository;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.web.bind.annotation.\*;

import java.util.List;

import java.util.Optional;

@RestController

@RequestMapping("/api/books")

public class BookController {

@Autowired

private BookRepository bookRepository;

@GetMapping("/")

public String home() {

return "Welcome to Library Management API";

}

// Create

@PostMapping

public Book createBook(@RequestBody Book book) {

return bookRepository.save(book);

}

// Read All

@GetMapping

public List<Book> getAllBooks() {

return bookRepository.findAll();

}

// Read by ID

@GetMapping("/{id}")

public Optional<Book> getBookById(@PathVariable Long id) {

return bookRepository.findById(id);

}

// Update

@PutMapping("/{id}")

public Book updateBook(@PathVariable Long id, @RequestBody Book updatedBook) {

Book book = bookRepository.findById(id).orElseThrow();

book.setTitle(updatedBook.getTitle());

book.setAuthor(updatedBook.getAuthor());

return bookRepository.save(book);

}

// Delete

@DeleteMapping("/{id}")

public void deleteBook(@PathVariable Long id) {

bookRepository.deleteById(id);

}

}

package com.library.entity;

import javax.persistence.\*;

@Entity

public class Book {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

private String title;

private String author;

// Getters and Setters

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

public String getTitle() {

return title;

}

public void setTitle(String title) {

this.title = title;

}

public String getAuthor() {

return author;

}

public void setAuthor(String author) {

this.author = author;

}

}

package com.library.repository;

import com.library.entity.Book;

import org.springframework.data.jpa.repository.JpaRepository;

public interface BookRepository extends JpaRepository<Book, Long> {

}

package com.library;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class LibraryManagementApplication {

public static void main(String[] args) {

SpringApplication.run(LibraryManagementApplication.class, args);

}

}

# H2 Console

spring.h2.console.enabled=true

spring.h2.console.path=/h2-console

# Datasource config

spring.datasource.url=jdbc:h2:mem:librarydb

spring.datasource.driverClassName=org.h2.Driver

spring.datasource.username=sa

spring.datasource.password=

# JPA

spring.jpa.show-sql=true

spring.jpa.hibernate.ddl-auto=update

server.port=8081

<?xml version="1.0" encoding="UTF-8"?>

<classpath>

<classpathentry kind="src" output="target/classes" path="src/main/java">

<attributes>

<attribute name="optional" value="true"/>

<attribute name="maven.pomderived" value="true"/>

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<comment></comment>

<projects>

</projects>

<buildSpec>

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<name>org.eclipse.jdt.core.javabuilder</name>

<arguments>

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</buildCommand>

<buildCommand>

<name>org.eclipse.m2e.core.maven2Builder</name>

<arguments>

</arguments>

</buildCommand>

</buildSpec>

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<nature>org.eclipse.m2e.core.maven2Nature</nature>

</natures>

</projectDescription>

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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.library</groupId>

<artifactId>LibraryManagement</artifactId>

<version>1.0.0</version>

<packaging>jar</packaging>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>2.7.18</version> <!-- Or the latest version -->

<relativePath/> <!-- lookup parent from repository -->

</parent>

<dependencies>

<!-- Spring Boot Starter Web -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<!-- Spring Boot Starter JPA -->

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

<!-- H2 Database -->

<dependency>

<groupId>com.h2database</groupId>

<artifactId>h2</artifactId>

<scope>runtime</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

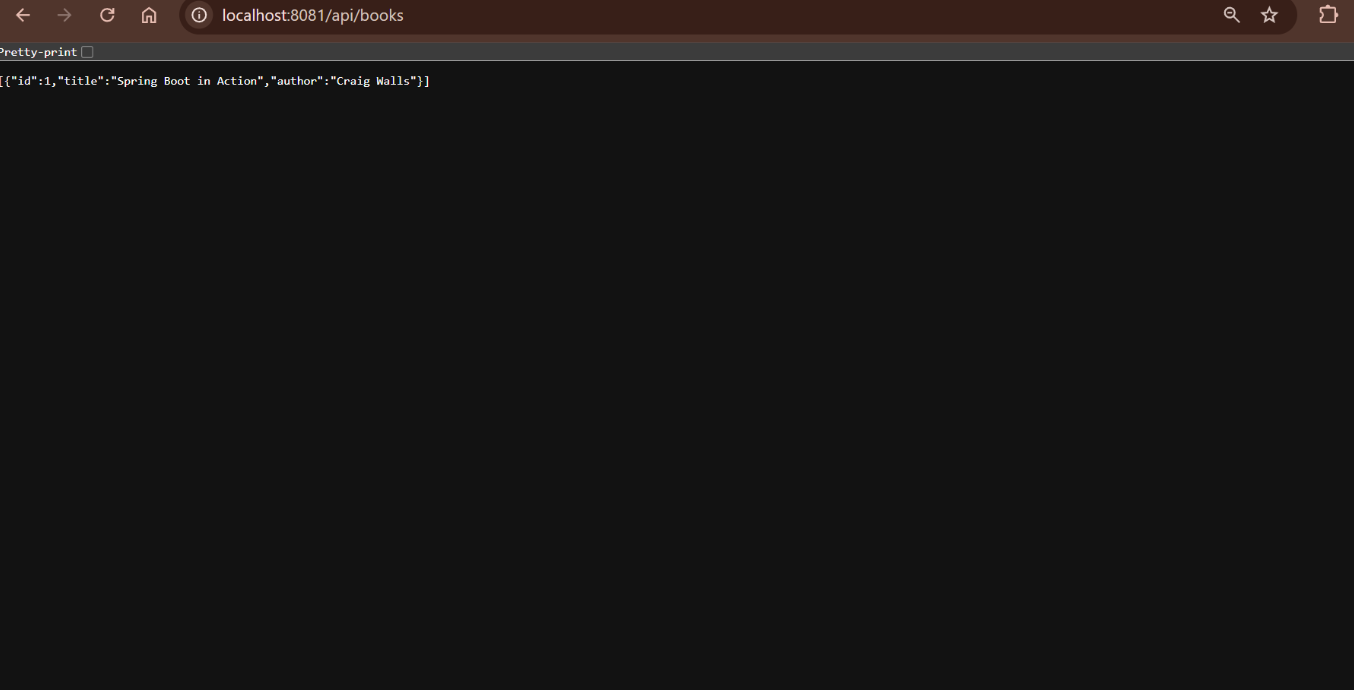
</plugin>

</plugins>

</build>

</project>

**OUTPUT:**

 A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated