Name: Uchegbu Okechukwu Netochukwu

Sen 207 lab Assignment

Question One (Car)

1. Application.property

spring.application.name=lockedIn  
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver  
spring.datasource.url = jdbc:mysql://localhost:3306/assignment  
spring.datasource.username=root  
spring.datasource.password =  
  
spring.jpa.show-sql=true  
spring.jpa.hibernate.ddl-auto=update

1. Model Class

package com.holiday.lockedIn;  
  
import jakarta.persistence.Entity;  
import jakarta.persistence.GeneratedValue;  
import jakarta.persistence.GenerationType;  
import jakarta.persistence.Id;  
  
@Entity  
public class Car {  
 public Car() {  
 }  
  
 public Car(int id, String carBrand, int year, String model) {  
 this.id = id;  
 this.carBrand = carBrand;  
 this.year = year;  
 this.model = model;  
 }  
  
 @Id  
 @GeneratedValue(strategy = GenerationType.*IDENTITY*)  
 private int id;  
 private String carBrand;  
 private int year;  
 private String model;  
  
 public int getId() {  
 return id;  
 }  
  
 public void setId(int id) {  
 this.id = id;  
 }  
  
 public String getCarBrand() {  
 return carBrand;  
 }  
  
 public void setCarBrand(String carBrand) {  
 this.carBrand = carBrand;  
 }  
  
 public int getYear() {  
 return year;  
 }  
  
 public void setYear(int year) {  
 this.year = year;  
 }  
  
 public String getModel() {  
 return model;  
 }  
  
 public void setModel(String model) {  
 this.model = model;  
 }  
  
 @Override  
 public String toString() {  
 return "Car{" +  
 "id=" + id +  
 ", carBrand='" + carBrand + '\'' +  
 ", year=" + year +  
 ", model='" + model + '\'' +  
 '}';  
 }  
}

1. Repository Class

package com.holiday.lockedIn;  
import org.springframework.data.jpa.repository.JpaRepository;  
public interface CarRepo extends JpaRepository<Car, Integer> {  
}

1. Service Class

package com.holiday.lockedIn;  
import java.util.\*;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Service;  
@Service  
public class CarService {  
 @Autowired  
 private CarRepo repo;  
 public List<Car> getAllCars(){  
 return repo.findAll();  
 }  
 public void deleteCar(int id){  
 repo.deleteById(id);  
 }  
 public Car createCar (Car car){  
 return repo.save(car);  
 }  
}

1. Controller Class

package com.holiday.lockedIn;  
  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Controller;  
import org.springframework.ui.Model;  
import org.springframework.web.bind.annotation.GetMapping;  
  
@Controller  
public class CarController {  
 @Autowired  
 private CarService service;  
 @GetMapping("/view")  
 public String viewAllCars(Model model){  
 model.addAttribute("cars",service.getAllCars());  
 return "view";  
 }  
}

1. View hmtl file

<!DOCTYPE html>  
<html xmlns:th="www.thymeleaf.org">  
<head>  
 <title>View cars</title>  
</head>  
<body>  
<h1>View cars</h1>  
<table>  
 <tr>  
 <th>ID</th>  
 <th>Car Brand</th>  
 <th>Year</th>  
 <th>Model</th>  
 </tr>  
 <tr th:each="st:${cars}">  
 <td th:text="${st.id}"></td>  
 <td th:text="${st.carBrand}"></td>  
 <td th:text="${st.year}"></td>  
 <td th:text="${st.model}"></td>  
  
 <td><a href="/delete">delete</a></td>  
 </tr>  
</table>  
</body>  
</html>

QUESTION TWO (BOOK)

1. Application.properties

The application.properties file remains the same

1. Model Class

package com.holiday.lockedIn;  
  
import jakarta.persistence.Entity;  
import jakarta.persistence.GeneratedValue;  
import jakarta.persistence.GenerationType;  
import jakarta.persistence.Id;  
@Entity  
public class Book {  
 public Book() {  
 }  
 public Book(int id, String carBrand,String Author, String year) {  
 this.id = id;  
 this.bookName = carBrand;  
 this.Author = Author;  
 this.year = year;  
 }  
 @Id  
 @GeneratedValue(strategy = GenerationType.*IDENTITY*)  
 private int id;  
 private String bookName;  
 private String Genre;  
 private String Author;  
 private String year;  
 public int getId() {  
 return id;  
 }  
 public String getYear() {  
 return year;  
 }  
 public void setYear(String year) {  
 this.year = year;  
 }  
 public void setId(int id) {  
 this.id = id;  
 }  
 public String getBookName() {  
 return bookName;  
 }  
 public void setBookName(String bookName) {  
 this.bookName = bookName;  
 }  
 public String getGenre() {  
 return Genre;  
 }  
 public void setGenre(String genre) {  
 this.Genre = genre;  
 }  
 public String getAuthor() {  
 return Author;  
 }  
 public void setAuthor(String author) {  
 this.Author = author;  
 }  
 @Override  
 public String toString() {  
 return "Car{" +  
 "id=" + id +  
 ", bookName='" + bookName + '\'' +  
 ", genre=" + Genre +  
 ", Author='" + Author + '\'' +  
 ", Year='" + year + '\'' +  
 '}';  
 }  
}

1. Repository class

package com.holiday.lockedIn;  
import org.springframework.data.jpa.repository.JpaRepository;  
public interface BookRepo extends JpaRepository<Book, Integer> {  
}

1. Service Class

package com.holiday.lockedIn;  
import java.util.\*;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Service;  
@Service  
public class BookService {  
 @Autowired  
 private BookRepo repo;  
 public List<Book> getAllBooks(){  
 return repo.findAll();  
 }  
 public void deleteBook(int id){  
 repo.deleteById(id);  
 }  
 public Book createBook (Book book){  
 return repo.save(book);  
 }  
}

1. Controller Class

package com.holiday.lockedIn;  
import java.util.\*;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Service;  
@Service  
public class BookService {  
 @Autowired  
 private BookRepo repo;  
 public List<Book> getAllBooks(){  
 return repo.findAll();  
 }  
 public void deleteBook(int id){  
 repo.deleteById(id);  
 }  
 public Book createBook (Book book){  
 return repo.save(book);  
 }  
}

1. View.html file

<!DOCTYPE html>  
<html xmlns:th="www.thymeleaf.org">  
<head>  
 <title>View books</title>  
</head>  
<body>  
<h1>View books</h1>  
<table>  
 <tr>  
 <th>ID</th>  
 <th>Book Name</th>  
 <th>Genre</th>  
 <th>Author</th>  
 <th>Year</th>  
 </tr>  
 <tr th:each="st:${books}">  
 <td th:text="${st.id}"></td>  
 <td th:text="${st.bookName}"></td>  
 <td th:text="${st.Genre}"></td>  
 <td th:text="${st.Author}"></td>  
 <td th:text="${st.year}"></td>  
  
 <td><a href="/delete">delete</a></td>  
 </tr>  
</table>  
</body>  
</html>

