///////////////////////////////////Person Controller

package com.example.mysqlspring.controlier;  
  
  
import com.example.mysqlspring.Repository.PersonRipo;  
import com.example.mysqlspring.model.Address;  
import com.example.mysqlspring.model.Name;  
import com.example.mysqlspring.model.Person;  
import org.springframework.beans.factory.annotation.Autowired;  
import org.springframework.stereotype.Controller;  
import org.springframework.web.bind.annotation.\*;  
  
import java.util.List;  
import java.util.Optional;  
  
@Controller  
public class PersonController {  
 @Autowired  
 private PersonRipo personRipo;  
  
 //@RequestMapping(method = RequestMethod.POST,value = "addPerson")  
 @PostMapping("addPerson")  
 @ResponseBody  
 public Person addPerson(@RequestBody Person person){  
 // by passing varible ,no need person=new......  
 // Person person=new Person(1,"Monirujjaman","Dhaka");  
 // Person person=new Person(2,"Musa","Dhaka");  
 //Person person=new Person(3,"Habiba","Dhaka");  
 //Name name = new Name("jon","dao");  
 //Address address = new Address("12","dhaka","bd","1212");  
 //Person person= new Person(6,name,address);  
 return personRipo.save(person);  
  
 }  
 //@RequestMapping("persons")  
 @GetMapping("persons")  
 @ResponseBody  
 public Iterable<Person> getAllPerson(){  
 return personRipo.findAll();  
 }  
  
  
 @PutMapping("updatePerson/{id}")  
 @ResponseBody  
 public Person updatePerson(@PathVariable int id,@RequestBody Person person){  
 return personRipo.save(person);  
 }  
  
 @DeleteMapping("deletePerson/{id}")  
 @ResponseBody  
 public Optional<Person> deletePersonById(@PathVariable int id ){  
 Optional<Person> person = personRipo.findById(id);  
 if(person.isPresent()){  
 personRipo.deleteById(id);  
 }  
 return person;  
  
 }  
  
 @DeleteMapping("deletePerson")  
 @ResponseBody  
 public Optional<Person> deletePerson(@RequestBody Person person){  
 Optional<Person> p= personRipo.findById(person.getId());  
 if(p.isPresent()){  
 personRipo.delete(person);  
 }  
 return p;  
  
 }  
  
  
  
}

//////////////////////Address Model Class ////////////////////////////////////////////

package com.example.mysqlspring.model;  
  
import javax.persistence.Embeddable;  
  
@Embeddable  
public class Address {  
  
 private String streetAddress;  
 private String city;  
 private String country;  
 private String PostalCode;  
  
 public Address() {  
 }  
  
 public Address(String streetAddress, String city, String country, String postalCode) {  
 this.streetAddress = streetAddress;  
 this.city = city;  
 this.country = country;  
 PostalCode = postalCode;  
 }  
  
 public String getStreetAddress() {  
 return streetAddress;  
 }  
  
 public void setStreetAddress(String streetAddress) {  
 this.streetAddress = streetAddress;  
 }  
  
 public String getCity() {  
 return city;  
 }  
  
 public void setCity(String city) {  
 this.city = city;  
 }  
  
 public String getCountry() {  
 return country;  
 }  
  
 public void setCountry(String country) {  
 this.country = country;  
 }  
  
 public String getPostalCode() {  
 return PostalCode;  
 }  
  
 public void setPostalCode(String postalCode) {  
 PostalCode = postalCode;  
 }  
  
 @Override  
 public String toString() {  
 return "Address{" +  
 "streetAddress='" + streetAddress + '\'' +  
 ", city='" + city + '\'' +  
 ", country='" + country + '\'' +  
 ", PostalCode='" + PostalCode + '\'' +  
 '}';  
 }  
}

////////////////////////////Name////////////

package com.example.mysqlspring.model;  
  
import javax.persistence.Embeddable;  
  
@Embeddable  
public class Name {  
  
 private String firstName;  
 private String lastName;  
  
 public Name() {  
 }  
  
 public Name(String firstName, String lastName) {  
 this.firstName = firstName;  
 this.lastName = lastName;  
 }  
  
 public String getFirstName() {  
 return firstName;  
 }  
  
 public void setFirstName(String firstName) {  
 this.firstName = firstName;  
 }  
  
 public String getLastName() {  
 return lastName;  
 }  
  
 public void setLastName(String lastName) {  
 this.lastName = lastName;  
 }  
  
 @Override  
 public String toString() {  
 return "Name{" +  
 "firstName='" + firstName + '\'' +  
 ", lastName='" + lastName + '\'' +  
 '}';  
 }  
}

///////////Person ((Main Model class))//////////////////

package com.example.mysqlspring.model;  
  
import javax.persistence.Embedded;  
import javax.persistence.Entity;  
import javax.persistence.Id;  
  
@Entity  
public class Person {  
  
 @Id  
 private int id;  
 @Embedded  
 private Name name;  
 @Embedded  
 private Address address;  
  
 public Person() {  
 }  
  
 public Person(int id, Name name, Address address) {  
 this.id = id;  
 this.name = name;  
 this.address = address;  
 }  
  
  
 public int getId() {  
 return id;  
 }  
  
 public void setId(int id) {  
 this.id = id;  
 }  
  
 public Name getName() {  
 return name;  
 }  
  
 public void setName(Name name) {  
 this.name = name;  
 }  
  
 public Address getAddress() {  
 return address;  
 }  
  
 public void setAddress(Address address) {  
 this.address = address;  
 }  
  
 @Override  
 public String toString() {  
 return "Person{" +  
 "id=" + id +  
 ", name=" + name +  
 ", address=" + address +  
 '}';  
 }  
}

/////////////////Croud Repository///////////

package com.example.mysqlspring.Repository;  
  
import com.example.mysqlspring.model.Person;  
import org.springframework.data.repository.CrudRepository;  
  
public interface PersonRipo extends CrudRepository<Person,Integer> {  
}

/////////////////////////////// Main Class

package com.example.mysqlspring;  
  
import org.springframework.boot.SpringApplication;  
import org.springframework.boot.autoconfigure.SpringBootApplication;  
  
@SpringBootApplication  
public class MysqlspringApplication {  
  
 public static void main(String[] args) {  
 SpringApplication.*run*(MysqlspringApplication.class, args);  
 }  
  
}