**Spring Data JPA - Quick Example**

**Country.java:**

package com.cognizant.model;

import jakarta.persistence.Column;

import jakarta.persistence.Entity;

import jakarta.persistence.Id;

import jakarta.persistence.Table;

@Entity

@Table(name = "country")

public class Country {

@Id

@Column(name = "co\_code")

private String code;

@Column(name = "co\_name")

private String name;

public Country() {

}

public Country(String code, String name) {

super();

this.code = code;

this.name = name;

}

public String getCode() {

return code;

}

public void setCode(String code) {

this.code = code;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

@Override

public String toString() {

return "Country [code=" + code + ", name=" + name + "]";

}

}

**Country Repository:**

package com.cognizant.repository;

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

import org.springframework.stereotype.Repository;

import com.cognizant.model.Country;

@Repository

public interface CountryRepository extends JpaRepository<Country, String> {

}

**CountryService.java**

package com.cognizant.service;

import java.util.\*;

import com.cognizant.model.Country;

public interface CountryService {

public List<Country> viewCountries();

}

**CountryServiceImpl.java:**

package com.cognizant.service;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.cognizant.model.Country;

import com.cognizant.repository.CountryRepository;

@Service

public class CountryServiceImpl implements CountryService {

@Autowired

private CountryRepository countryRepository;

@Override

public List<Country> viewCountries() {

// TODO Auto-generated method stub

return countryRepository.findAll();

}

}

**CountryController.java**

package com.cognizant.controller;

import java.util.List;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

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

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

import com.cognizant.model.Country;

import com.cognizant.service.CountryService;

@RestController

@RequestMapping("/")

public class CountryController {

private static final Logger LOGGER = LoggerFactory.getLogger(CountryController.class);

@Autowired

private CountryService countryService;

@GetMapping

public List<Country> getAllCountries() {

LOGGER.info("Start");

List<Country> countries = countryService.viewCountries();

LOGGER.debug("countries={}", countries);

LOGGER.info("End");

return countries;

}

}

**Application.properties:**

spring.application.name=OrmLearn

server.port=9090

# Spring Framework and application log

logging.level.org.springframework=info

logging.level.com.cognizant=debug

# Hibernate logs for displaying executed SQL, input and output

logging.level.org.hibernate.SQL=trace

logging.level.org.hibernate.type.descriptor.sql=trace

# Log pattern

#logging.pattern.console=%d{dd-MM-yy} %d{HH:mm:ss.SSS} %-20.20thread %5p %-25.25logger{25} %25M %4L %m%n

# Database configuration

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.datasource.url=jdbc:mysql://localhost:3306/ormlearn

spring.datasource.username=root

spring.datasource.password=root

# Hibernate configuration

spring.jpa.hibernate.ddl-auto=update

spring.jpa.show-sql=true

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect

logging.file.name=app.log

logging.level.root=INFO

A screenshot of a computer

AI-generated content may be incorrect.

A computer screen shot of a black screen

AI-generated content may be incorrect.

A screenshot of a computer screen

AI-generated content may be incorrect. A computer screen shot of a program

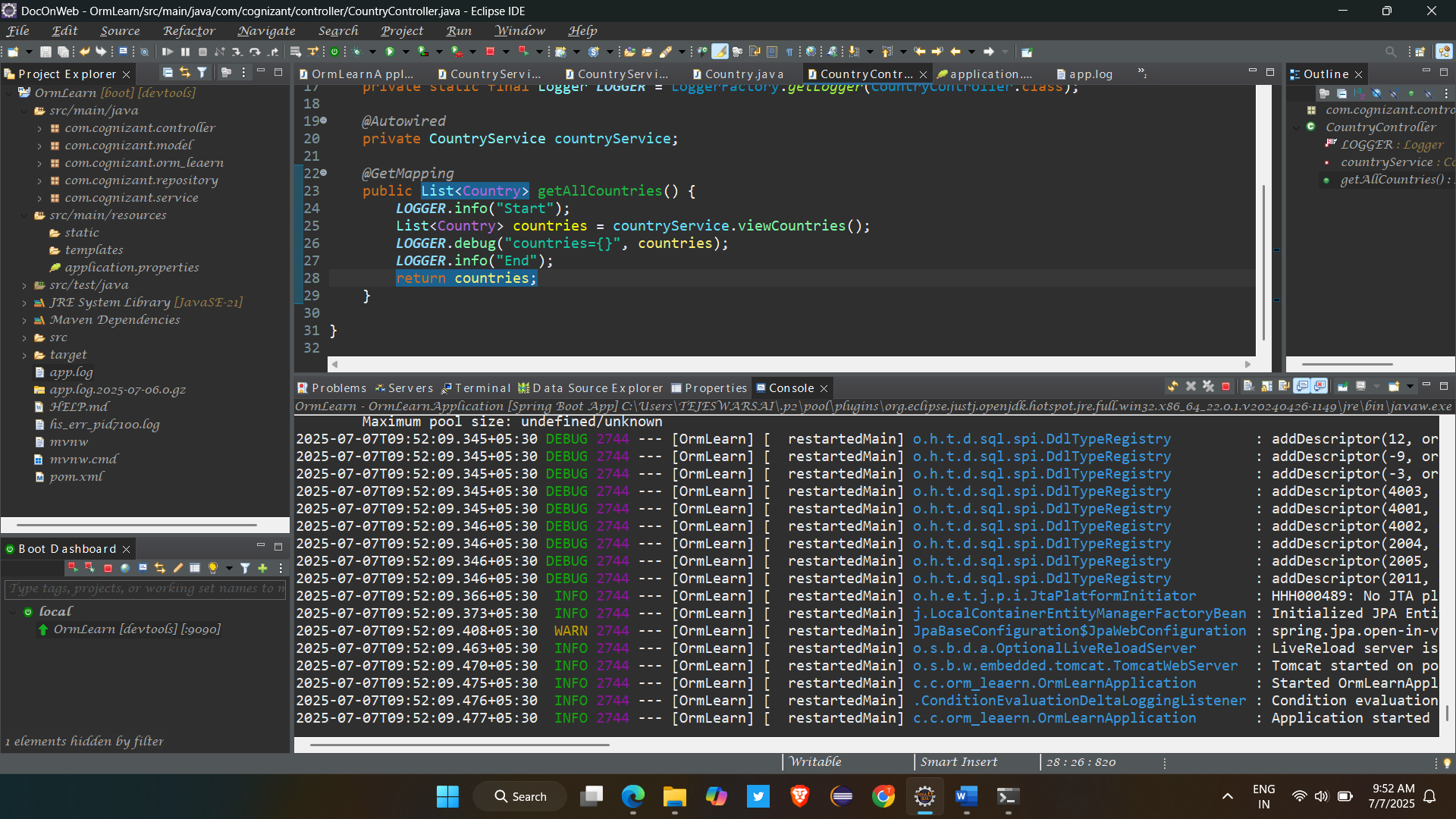
AI-generated content may be incorrect. A computer screen shot of a program

AI-generated content may be incorrect. A computer screen with many colorful text

AI-generated content may be incorrect. A screenshot of a computer

AI-generated content may be incorrect. A computer screen shot of a program

AI-generated content may be incorrect.



A screenshot of a computer

AI-generated content may be incorrect.