**<https://github.com/Prateekdu/Phase-1-Practice-Project.git>**

**phase3 🡪 onlinequiz**

**OnlineQuizApplication.java**

package com;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.boot.autoconfigure.domain.EntityScan;

@SpringBootApplication(scanBasePackages = "com")

@EntityScan(basePackages = "com.bean")

public class OnlineQuizApplication {

public static void main(String[] args) {

SpringApplication.run(OnlineQuizApplication.class, args);

System.out.println("Quiz Server Started");

}

}

**Com.bean**

**AdminLogin.java**

package com.bean;

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class AdminLogin {

@Id

private String emailid;

private String password;

public String getEmailid() {

return emailid;

}

public void setEmailid(String emailid) {

this.emailid = emailid;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

@Override

public String toString() {

return "AdminLogin [emailid=" + emailid + ", password=" + password + "]";

}

}

**Participants.java**

package com.bean;

import javax.persistence.Entity;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="participants")

public class Participants {

@Id

private String emailid;

private String name;

private String password;

private String phoneno;

public String getEmailid() {

return emailid;

}

public void setEmailid(String emailid) {

this.emailid = emailid;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

public String getPhoneno() {

return phoneno;

}

public void setPhoneno(String phoneno) {

this.phoneno = phoneno;

}

@Override

public String toString() {

return "Participants [emailid=" + emailid + ", name=" + name + ", password=" + password + ", phoneno=" + phoneno

+ "]";

}

}

**Questions.java**

package com.bean;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class Questions {

@Id

@GeneratedValue(strategy=GenerationType.IDENTITY)

private int qid;

private String question;

private String a;

private String b;

private String c;

private String d;

private String correctanswer;

public String getQuestion() {

return question;

}

public void setQuestion(String question) {

this.question = question;

}

public String getA() {

return a;

}

public void setA(String a) {

this.a = a;

}

public String getB() {

return b;

}

public void setB(String b) {

this.b = b;

}

public String getC() {

return c;

}

public void setC(String c) {

this.c = c;

}

public String getD() {

return d;

}

public void setD(String d) {

this.d = d;

}

public String getCorrectanswer() {

return correctanswer;

}

public void setCorrectanswer(String correctanswer) {

this.correctanswer = correctanswer;

}

public int getQid() {

return qid;

}

@Override

public String toString() {

return "Questions [qid=" + qid + ", question=" + question + ", a=" + a + ", b=" + b + ", c=" + c + ", d=" + d

+ ", correctanswer=" + correctanswer + "]";

}

}

**Quiz.java**

package com.bean;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.JoinColumn;

import javax.persistence.OneToMany;

@Entity

public class Quiz {

@Id

@GeneratedValue(strategy=GenerationType.IDENTITY)

private int selfId;

private int quizid;

private String title;

//@OneToMany

//@JoinColumn(name = "qid")

private int qid;

public int getSelfid() {

return selfId;

}

public void setSelfId(int quizid) {

this.selfId = selfId;

}

public int getQuizid() {

return quizid;

}

public void setQuizid(int quizid) {

this.quizid = quizid;

}

public String getTitle() {

return title;

}

public void setTitle(String title) {

this.title = title;

}

public int getQid() {

return qid;

}

public void setQid(int qid) {

this.qid = qid;

}

@Override

public String toString() {

return "Quiz [quizid=" + quizid + ", title=" + title + ", qid=" + qid + "]";

}

}

**UserQuiz.java**

package com.bean;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name = "userquiz")

public class UserQuiz {

@Id

@GeneratedValue(strategy=GenerationType.IDENTITY)

private int userid;

private String emailid;

private int quizid;

private int qid;

private String correctuseranswer;

public String getEmailid() {

return emailid;

}

public void setEmailid(String emailid) {

this.emailid = emailid;

}

public int getQuizid() {

return quizid;

}

public void setQuizid(int quizid) {

this.quizid = quizid;

}

public int getQid() {

return qid;

}

public void setQid(int qid) {

this.qid = qid;

}

public String getCorrectuseranswer() {

return correctuseranswer;

}

public void setCorrectuseranswer(String correctuseranswer) {

this.correctuseranswer = correctuseranswer;

}

public int getUserid() {

return userid;

}

@Override

public String toString() {

return "UserQuiz [userid=" + userid + ", emailid=" + emailid + ", quizid=" + quizid + ", qid=" + qid

+ ", correctuseranswer=" + correctuseranswer + "]";

}

public UserQuiz() {

super();

// TODO Auto-generated constructor stub

}

}

**Com.controller**

**Quiz.Controller.java**

package com.controller;

import java.util.List;

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

import org.springframework.http.MediaType;

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

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

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

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

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

import com.bean.AdminLogin;

import com.bean.Participants;

import com.bean.Questions;

import com.bean.Quiz;

import com.bean.UserQuiz;

import com.service.QuizService;

@RestController

public class QuizController {

@Autowired

QuizService quizService;

// http://localhost:8080/checkAdmin/

@RequestMapping(value = "checkAdmin/{emailid}/{password}",method=RequestMethod.POST)

public String checkAdminLogin(@PathVariable("emailid") String emailid,@PathVariable("password") String password) {

//List<AdminLogin> listAdmin = quizservice.checkadminDetails();

if(emailid.equals("Prateek@quiz.in") && password.equals("12345")) {

return "Admin logged in successfully";

}

else {

return "Admin Not Found";

}

}

// http://localhost:8080/signUp/

@RequestMapping(value = "signUp",method=RequestMethod.POST,consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String signUp(@RequestBody Participants pt) {

return quizService.storeParticipant(pt);

}

// http://localhost:8080/checkParticipants/

@RequestMapping(value = "checkParticipants/{emailid}/{password}",method=RequestMethod.POST)

public String checkParticipantsLogin(@PathVariable("emailid") String emailid,@PathVariable("password") String password) {

List<Participants> listOfParticipants = quizService.getAllParticipants();

Participants s = listOfParticipants.get(0);

if(s.equals(emailid) && s.equals(password)) {

return "Paticipant logged in successfully";

}

else {

return "Paticipant Not Found";

}

}

//http://localhost:8080/getAllParticipants/

@RequestMapping(value = "getAllParticipants",method=RequestMethod.GET,consumes = MediaType.APPLICATION\_JSON\_VALUE)

public List<Participants> getAllParticipants() {

return quizService.getAllParticipants();

}

//http://localhost:8080/addQuestion/

@RequestMapping(value = "addQuestion",method=RequestMethod.POST,consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String addQuestion(@RequestBody Questions q) {

return quizService.storeQuestion(q);

}

// http://localhost:8080/findQuestionsById/1

@RequestMapping(value = "findQuestionsById/{qid}",method = RequestMethod.GET,produces = MediaType.APPLICATION\_JSON\_VALUE)

public Questions findQuestionsByIdUsingPathParam(@PathVariable("qid") int id) {

return quizService.findQuestions(id);

}

////////check this

//http://localhost:8080/createQuiz/

@RequestMapping(value = "createQuiz",method=RequestMethod.POST,consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String createQuiz(@RequestBody Quiz qu) {

return quizService.createQuiz(qu);

}

//http://localhost:8080/takeQuiz/

@RequestMapping(value = "takeQuiz",method=RequestMethod.POST,consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String takeQuizQuiz(@RequestBody UserQuiz uq) {

return quizService.takeQuiz(uq);

}

//http://localhost:8080/checkResult/

@RequestMapping(value = "checkResult",method=RequestMethod.GET,consumes = MediaType.APPLICATION\_JSON\_VALUE)

public String checkResult() {

return quizService.checkResult();

}

}

**Com.dao**

**QuizDao.java**

package com.dao;

import java.util.List;

import javax.persistence.EntityManager;

import javax.persistence.EntityManagerFactory;

import javax.persistence.EntityTransaction;

import javax.persistence.Query;

import javax.transaction.Transaction;

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

import org.springframework.stereotype.Repository;

import com.bean.Participants;

import com.bean.Questions;

import com.bean.Quiz;

import com.bean.UserQuiz;

@Repository

public class QuizDao {

@Autowired

EntityManagerFactory emf;

public int partipantSignUp(Participants pt) {

try {

EntityManager manager = emf.createEntityManager();

EntityTransaction tran = manager.getTransaction();

tran.begin();

manager.persist(pt);

tran.commit();

return 1;

} catch (Exception e) {

System.out.println(e);

return 0;

}

}

public List<Participants> partipantLoginIn() {

EntityManager manag = emf.createEntityManager();

Query qry = manag.createQuery("select pt from Participants pt"); // JPQL

List<Participants> listOfParticipants = qry.getResultList();

return listOfParticipants;

}

public int addQuestion(Questions q) {

try {

EntityManager manager = emf.createEntityManager();

EntityTransaction tran = manager.getTransaction();

tran.begin();

manager.persist(q);

tran.commit();

return 1;

} catch (Exception e) {

System.out.println(e);

return 0;

}

}

public Questions findQuestions(int qid){

EntityManager manager = emf.createEntityManager(); // Session in Hibernate

Questions q = manager.find(Questions.class, qid); // session.get(Employee.class,id)

return q;

}

public int createQuiz(Quiz qu) {

try {

EntityManager manager = emf.createEntityManager();

EntityTransaction tran = manager.getTransaction();

tran.begin();

manager.persist(qu);

tran.commit();

return 1;

} catch (Exception e) {

System.out.println(e);

return 0;

}

}

public int takeQuiz(UserQuiz uq) {

try {

EntityManager manager = emf.createEntityManager();

EntityTransaction tran = manager.getTransaction();

tran.begin();

manager.persist(uq);

tran.commit();

return 1;

} catch (Exception e) {

System.out.println(e);

return 0;

}

}

public String checkResult() {

EntityManager manag = emf.createEntityManager();

Query qry = manag.createQuery("select count(uq.userid) from Questions q,UserQuiz uq where q.correctanswer = uq.correctuseranswer");

List result1 = qry.getResultList();

Query qry1 = manag.createQuery("select uq.emailid from Questions q,UserQuiz uq where q.correctanswer = uq.correctuseranswer");

List result2 = qry1.getResultList();

result2.addAll(result1);

String s = "Emailid : " + result2.get(0) + "Score : " + result2.get(1);

return s;

}

}

**com.service**

**QuizService.java**

package com.service;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.bean.Participants;

import com.bean.Questions;

import com.bean.Quiz;

import com.bean.UserQuiz;

import com.dao.QuizDao;

@Service

public class QuizService {

@Autowired

QuizDao quizDao;

public String storeParticipant(Participants pt) {

if(quizDao.partipantSignUp(pt) > 0) {

return "Participant data Stored Successfully";

}

else {

return "Data didn't store";

}

}

public List<Participants> getAllParticipants() {

return quizDao.partipantLoginIn();

}

public String storeQuestion(Questions q) {

if(quizDao.addQuestion(q) > 0) {

return "Question added Successfully";

}

else {

return "Question didn't add";

}

}

public Questions findQuestions(int qid) {

return quizDao.findQuestions(qid);

}

public String createQuiz(Quiz qu) {

if(quizDao.createQuiz(qu) > 0) {

return "Quiz created Successfully";

}

else {

return "Quiz didn't created";

}

}

public String takeQuiz(UserQuiz uq) {

if(quizDao.takeQuiz(uq) > 0) {

return "UserQuiz created Successfully";

}

else {

return "UserQuiz didn't created";

}

}

public String checkResult() {

return quizDao.checkResult();

}

}

**Application.propeerties**

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

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

spring.datasource.username=root

spring.datasource.password=Prateek#1974

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect

spring.jpa.hibernate.ddl-auto=update

**pom.xml**

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

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

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

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

<version>2.6.11</version>

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

</parent>

<groupId>com.example</groupId>

<artifactId>OnlineQuiz</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>OnlineQuiz</name>

<description>Demo project for Spring Boot</description>

<properties>

<java.version>11</java.version>

</properties>

<dependencies>

<dependency>

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

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

</dependency>

<dependency>

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

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

</dependency>

<dependency>

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

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

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

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

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>