UserController.java

**package** com.stackroute.myrest.controller;

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

**import** org.springframework.http.HttpStatus;

**import** org.springframework.http.ResponseEntity;

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

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

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

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

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

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

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

**import** com.stackroute.myrest.exceptions.UserNotFoundException;

**import** com.stackroute.myrest.model.User;

**import** com.stackroute.myrest.services.UserService;

@RestController

**public** **class** UserController {

@Autowired

UserService userservice;

@PostMapping("/myapp/add")

**public** ResponseEntity<?> addrec(@RequestBody User uobj)

{

userservice.myaddUser(uobj);

**return** **new** ResponseEntity<String>("Successfully added",HttpStatus.***OK***);

}

@GetMapping("/myapp/showuser/{userid}")

**public** ResponseEntity<?> viewrec(@PathVariable("userid") String uid)

{

User userobj;

**try**

{

userobj=userservice.myviewUser(uid);

}

**catch**(UserNotFoundException ue)

{

**return** **new** ResponseEntity<String>("Userid not found",HttpStatus.***NOT\_FOUND***);

}

**return** **new** ResponseEntity<User>(userobj,HttpStatus.***ACCEPTED***);

}

@DeleteMapping("/myapp/delete/{userid}")

**public** ResponseEntity<?> delrec(@PathVariable("userid") String uid)

{

**try**

{

**boolean** b=userservice.mydelete(uid);

}

**catch**(UserNotFoundException ue)

{

**return** **new** ResponseEntity<String>("invalid user",HttpStatus.***NOT\_IMPLEMENTED***);

}

**return** **new** ResponseEntity<String>("Record deleted",HttpStatus.***OK***);

}

@PutMapping("/myapp/modify")

**public** ResponseEntity<?> modify(@RequestBody User uobj)

{

**try**

{

**boolean** b= userservice.mymodify(uobj);

**return** **new** ResponseEntity<String>("Successfully added",HttpStatus.***OK***);

}

**catch**(UserNotFoundException e)

{

**return** **new** ResponseEntity<String>("invalid user",HttpStatus.***NOT\_IMPLEMENTED***);

}

}

}

Exception

**package** com.stackroute.myrest.exceptions;

**public** **class** UserNotFoundException **extends** Exception{

**public** UserNotFoundException(String msg)

{

**super**(msg);

}

}

UserDaoImpl.java

**package** com.stackroute.myrest.repository;

**import** java.util.List;

**import** javax.transaction.Transactional;

**import** org.hibernate.SessionFactory;

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

**import** org.springframework.stereotype.Repository;

**import** com.stackroute.myrest.exceptions.UserNotFoundException;

**import** com.stackroute.myrest.model.User;

@Repository("userdao")

@Transactional

**public** **class** UserDaoImpl **implements** UserDao {

@Autowired

**private** SessionFactory sessionFactory;

**public** UserDaoImpl(SessionFactory sessfact)

{

**this**.sessionFactory=sessfact;

}

**public** **boolean** addUser(User u) {

sessionFactory.getCurrentSession().save(u);

**return** **true**;

}

**public** **boolean** delUser(String userid) **throws** UserNotFoundException {

User user=findbyId(userid);

sessionFactory.getCurrentSession().delete(user);

**return** **true**;

}

**public** User findbyId(String userId) **throws** UserNotFoundException {

**return** (User) sessionFactory.getCurrentSession().createQuery("from User where userid='" + userId + "'").uniqueResult();

}

**public** List getAllusers() {

**return** sessionFactory.getCurrentSession().createQuery("from User").list();

}

**public** **boolean** modifyUser(User u) **throws** UserNotFoundException {

sessionFactory.getCurrentSession().update(u);

**return** **true**;

}

}

UserServiceImpl.java

**package** com.stackroute.myrest.services;

**import** java.util.List;

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

**import** org.springframework.stereotype.Service;

**import** com.stackroute.myrest.exceptions.UserNotFoundException;

**import** com.stackroute.myrest.model.User;

**import** com.stackroute.myrest.repository.UserDao;

@Service("userservice")

**public** **class** UserServiceImpl **implements** UserService {

@Autowired

UserDao userdao;

**public** UserServiceImpl(UserDao udao)

{

**this**.userdao=udao;

}

**public** **void** myaddUser(User uobj) {

userdao.addUser(uobj);

}

**public** User myviewUser(String userid) **throws** UserNotFoundException {

User userobj= userdao.findbyId(userid);

**if** (userobj==**null**)

**throw** **new** UserNotFoundException("Userid not found");

**else**

**return** userobj;

}

**public** **boolean** mydelete(String userid) **throws** UserNotFoundException {

**return** userdao.delUser(userid);

}

**public** **boolean** mymodify(User uobj) **throws** UserNotFoundException {

**boolean** b=userdao.modifyUser(uobj);

**if** (!b)

**throw** **new** UserNotFoundException("id not found");

**else**

**return** b;

}

**public** List myViewall() {

**return** userdao.getAllusers();

}

}