Spring ORM PART-II

1.DAL-IDao

**package** com.app.dao;

**import** java.util.List;

**import** com.app.model.Employee;

**public** **interface** IEmployeeDao {

Integer saveEmployee(Employee e) ;

**void** updateEmployee(Employee e);

**void** deleteEmployee(Integer id);

Employee getOneEmployee(Integer id);

List<Employee> getAllEmployees();

}

2.DaoImpl

**package** com.app.dao.impl;

**import** java.util.List;

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

**import** org.springframework.orm.hibernate5.HibernateTemplate;

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

**import** com.app.dao.IEmployeeDao;

**import** com.app.model.Employee;

@Repository

**public** **class** EmployeeDaoImpl

**implements** IEmployeeDao

{

@Autowired

**private** HibernateTemplate ht;

**public** Integer saveEmployee(Employee e) {

**return** (Integer)ht.save(e);

}

**public** **void** updateEmployee(Employee e) {

ht.update(e);

}

**public** **void** deleteEmployee(Integer id) {

Employee e=**new** Employee();

e.setEmpId(id);

//Object Having PK

ht.delete(e);

}

**public** Employee getOneEmployee(Integer id) {

**return** ht.get(Employee.**class**, id);

}

**public** List<Employee> getAllEmployees(){

**return** ht.loadAll(Employee.**class**);

}

}

3. SL-IService

**package** com.app.service;

**import** java.util.List;

**import** com.app.model.Employee;

**public** **interface** IEmployeeService {

Integer saveEmployee(Employee e) ;

Employee getOneEmployee(Integer id);

List<Employee> getAllEmployees();

**void** updateEmployee(Employee e);

**void** deleteEmployee(Integer id);

}

4. ServiceImpl

**package** com.app.service.impl;

**import** java.util.List;

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

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

**import** org.springframework.transaction.annotation.Transactional;

**import** com.app.dao.IEmployeeDao;

**import** com.app.model.Employee;

**import** com.app.service.IEmployeeService;

@Service

**public** **class** EmployeeServiceImpl

**implements** IEmployeeService

{

@Autowired

**private** IEmployeeDao dao;

@Transactional

**public** Integer saveEmployee(Employee e) {

**return** dao.saveEmployee(e);

}

@Transactional

**public** **void** updateEmployee(Employee e) {

dao.updateEmployee(e);

}

@Transactional

**public** **void** deleteEmployee(Integer id) {

dao.deleteEmployee(id);

}

@Transactional(readOnly = **true**)

**public** Employee getOneEmployee(Integer id) {

**return** dao.getOneEmployee(id);

}

@Transactional(readOnly = **true**)

**public** List<Employee> getAllEmployees(){

**return** dao.getAllEmployees();

}

}

5.Test class

**package** com.app.test;

**import** org.springframework.context.ApplicationContext;

**import** org.springframework.context.annotation.AnnotationConfigApplicationContext;

**import** com.app.config.AppConfig;

**import** com.app.service.IEmployeeService;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

ApplicationContext ac=**new** AnnotationConfigApplicationContext(AppConfig.**class**);

IEmployeeService service=(IEmployeeService) ac.getBean("employeeServiceImpl");

service.deleteEmployee(1);

}

}