final project report

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Final Project Report
Medical Record System

Summary

In this project I design and implement a dynamic web application of online medical record system based on SpringMVC and Hibernate frames.

Functionality Summary

Basically, there are four parts of functionalities ,which are save(insert, register), search(login, view, search), update, and delete .These functionalities take responsibility to communicate data from web page to our local database. There are also some exception handler and input validations.

Technology summary:

- Spring framework 3.2.7 , SpringMVC , Hibernate 4.3 , Mysql 8.0.15
- JSP, Java Bean,Servlet
- SimpleUrlHandlerMapping, MultiActionController, SimpleFormController ModelAndView
- StandardServiceRegistry,Configuration,Session Factory, Session, Query, Criteria, criterion

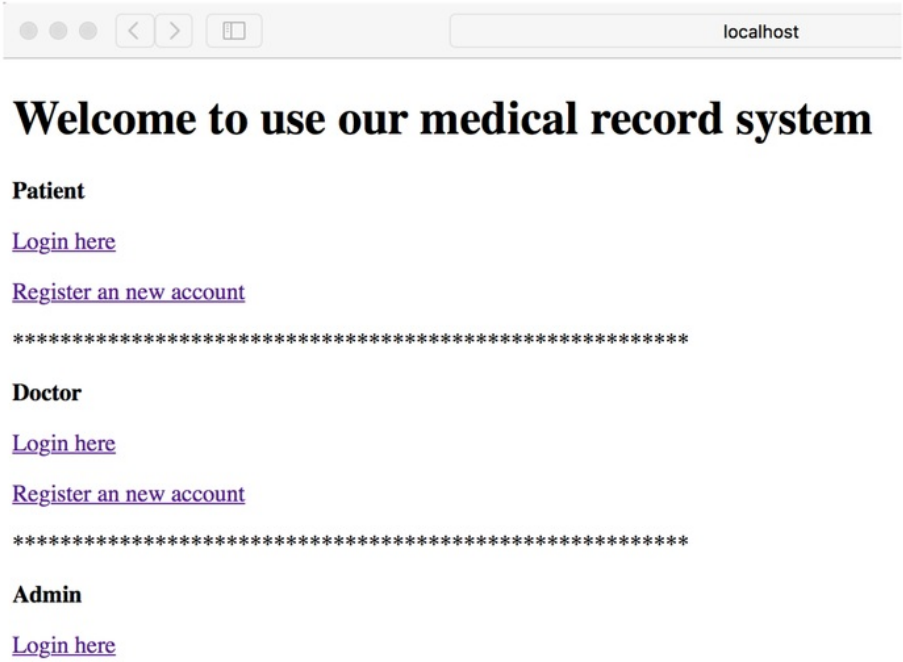
Roles Summary

- As a **patient**, they can **register** a new account. And they can **sign in** , **update** their basic information and **view** themselves' own medical record. And if some one forgot password ,also provide **found-back** service.
- As a **doctor**, each one can also **register** , **login, update** info .And **insert** or create a medical record for a patient .They can **view** the patient's record history, as well as **searching** specific user' s medical record.
- As a **administrator**, They are responsible for manage doctor ,patient and all medical record which conclude **searching** and **delete** functionalities.

ScreenShots of main screen

(showing in next page)

Main Entry:



Login and Find back password:

Register

Please register

Doctor name: mac
Password: 123
Register

Patient:

Welcome lily

Below is your information

Id: 9
Username: lily
Password: 123
Email: liy@outlook.com
Update

****

View your medical record
view MedRecord
Go Back to Main Page

Welcome to view your medical record

records number: 3

Record ID	Disease Description	Treatment	Doctor ID
8	clod	lemon	7
10	cough	pear	6
9	dizzy	sit-down	6

Back to Main Page

Doctor:

Welcome doctor miner

Below is your personal information**********

Doctor id: 6
Doctor name: miner
Password: 123
Update

Start to Write a Diagnosis**********

Add Record

View Medical record**********

View My record

Search User Medical record**********

User ID:
Search User Record

Please write your diagnosis here

Patient id: 14
Disease Description: cold
Relevant Treatment lemon water
Create a record

Welcome to view the medical record

Below is basic info of Patient**********

Patient ID: 4
Patient name: lee
Patient email: e@gmail.com

Below is Medical record of Patient**********

record count: 3

Record ID	Disease Description	Treatment	Doctor ID
4	flu	hot water	
6	fever	isolate	6
7	fever	water	6

Back to Main Page

Administrator:

You are an administrator!

Manage Doctor**********

Manage Doctor

Manage Patient**********

Manage Patient

Manage Medical record**********

Manage Record

Welcom to manage Doctor

input the doctor id you want to delete:

delete

Below is a Doctors list in this hospital**********

record count: 3

Doctor ID	Doctor Name
6	miner
7	yang
8	mac

Welcome to manage Patient

input the patient id you want to delete:

delete

Below is a Patients list in this hospital**********

record count: 19

Patient ID	Name	Email Address
4	lee	e@gmail.com
5	12	123
8	q	q
9	lily	liy@outlook.com
10	23	23
11	yangyang	yy@outlook.com

Welcome to manage Medical Record

input the record id you want to delete:

delete

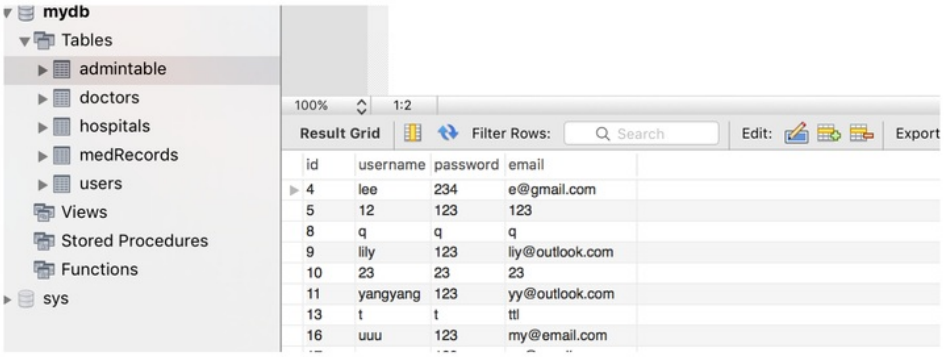
Below is a Medical Record list in this hospital**********

record count: 10

Record ID	Disease Description	Treatment	Doctor ID
2	flu	water	
3	flu	water	
4	flu	hot water	
5	headache	sleep	1
6	fever	isolate	6
7	fever	water	6

Mysql(Database) sample

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G
medid	INT(11)	✓	✓					✓	
description	VARCHAR(45)								
treatment	VARCHAR(45)								
id	INT(11)		✓						
docid	VARCHAR(45)								



Appendix:

1. pojo

pojo.user

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package pojo;

import java.util.*;

/**
 *
 * @author cestdrama
 */
public class User {
    private int id;
    private String username;
    private String password;
    private String email;
    private Set<MedRecord> recset=new HashSet();

//    private Doctor doctor;

    public User() {
    }

    public User(int id) {
        this.id=id;
    }

    public User(String username, String password, String email) {
        this.username = username;
        this.password = password;
        this.email = email;
    }

    public Set<MedRecord> getRecset() {
        return recset;
    }


    public void setRecset(Set<MedRecord> recset) {
        this.recset = recset;
    }



    public int getId() {
        return id;
    }
```

```
    public void setId(int id) {
        this.id = id;
    }

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
        this.username = username;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

}
```

pojo.doctor

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package pojo;

import java.util.*;

/**
 *
 * @author cestdrama
 */
public class Doctor {
    private int docid;
    private String docname;
    private String pwd;
    private Set<MedRecord> dset=new HashSet();
```

```
    public int getDocid() {
        return docid;
    }

    public void setDocid(int docid) {
        this.docid = docid;
    }

    public String getDocname() {
        return docname;
    }

    public void setDocname(String docname) {
        this.docname = docname;
    }

    public String getPwd() {
        return pwd;
    }

    public void setPwd(String pwd) {
        this.pwd = pwd;
    }

    public Set<MedRecord> getDset() {
        return dset;
    }

    public void setDset(Set<MedRecord> dset) {
        this.dset = dset;
    }

    }
```

pojo.admin

```
/*
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 * and open the template in the editor.
 */
package pojo;

/**
 *
 * @author cestdrama
 */
public class Admin {
    private int adid;
    private String apwd;
    private String adminname;
```

```
    public Admin() {
    }

    public int getAdid() {
        return adid;
    }

    public void setAdid(int adid) {
        this.adid = adid;
    }


    public String getApwd() {
        return apwd;
    }

    public void setApwd(String apwd) {
        this.apwd = apwd;
    }

    public String getAdminname() {
        return adminname;
    }

    public void setAdminname(String adminname) {
        this.adminname = adminname;
    }
}
```

pojo.medrecord

```
/*
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 * and open the template in the editor.
 */
package pojo;

/**
 *
 * @author cestdrama
 */
public class MedRecord {
    private int medid;
    private Integer docid;
    private String description;
    private String treatment;
    private User user;

    public MedRecord() {
    }

    public MedRecord(String descriptoin, String treatment, User user) {
        this.description = descriptoin;
```

```
        this.treatment = treatment;
        this.user = user;
    }

    public Integer getDocid() {
        return docid;
    }

    public void setDocid(Integer docid) {
        this.docid = docid;
    }


    public int getMedid() {
        return medid;
    }

    public void setMedid(int medid) {
        this.medid = medid;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getTreatment() {
        return treatment;
    }

    public void setTreatment(String treatment) {
        this.treatment = treatment;
    }

    public User getUser() {
        return user;
    }

    public void setUser(User user) {
        this.user = user;
    }

}
```

2. dao

dao.userdao

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
```

```
 * and open the template in the editor.
 */
package dao;
/**
 *
 * @author cestdrama
 */

import java.util.*;
import java.util.logging.Level;
import java.util.logging.Logger;
import org.hibernate.Criteria;
import org.hibernate.HibernateException;
import org.hibernate.Query;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
import org.hibernate.criterion.Restrictions;
import pojo.MedRecord;
import pojo.User;

public class UserDao {
    private SessionFactory sessionFactory;
    private static Session session;

    protected SessionFactory setUp() {
        Configuration configuration = new Configuration();
        configuration.configure("hibernate.cfg.xml");
        //configuration.addResource("hibernate.cfg.xml").configure();
        StandardServiceRegistry registry = new StandardServiceRegistryBuilder()
                .applySettings(configuration.getProperties())
                .build();
        try {
            sessionFactory = configuration.buildSessionFactory();
        } catch (Exception e) {
            e.printStackTrace();
        }
        return sessionFactory;
    }

    public Session getSession() {
        if (session == null) {
            session = setUp().openSession();
        }
        return session;
    }

    private void beginTransaction() {
        getSession().beginTransaction();
    }

    private void commit() {
```

```
        getSession().getTransaction().commit();
    }

    private void close() {
        getSession().close();
    }

    private void rollbackTransaction() {
        getSession().getTransaction().rollback();
    }

    public int Register(User user) {
       int result = 0;
        try {
            beginTransaction();
            Session sf = getSession();
            sf.save(user);
            commit();
            result = 1;
        } catch (HibernateException e) {
            e.printStackTrace();
            try {
                rollbackTransaction();
            } catch (Exception ex) {
                Logger.getLogger(UserDao.class.getName()).log(Level.SEVERE, null, ex);
            }
        } catch (Exception ex) {
            Logger.getLogger(UserDao.class.getName()).log(Level.SEVERE, null, ex);
        } finally {
            try {
                 //close();
            } catch (Exception ex) {
                Logger.getLogger(UserDao.class.getName()).log(Level.SEVERE, null, ex);
            }
        }
        return result;
    }

    public User login(String username,String password ){
        if(username==null)
            username="";
        if(password==null)
            password="";
        List<Object[]> list = null;
        List<User> al=new ArrayList();
        //user.username ,user.password
        String hql="select user.id,user.username ,user.password,user.email from User as user
where user.username='"+username+"' and user.password = '"+password+"'";
        try {
            //Session session = getHibernateTemplate().getSessionFactory().getCurrentSession();
            beginTransaction();
            Session sf=getSession();
            Query query =sf.createQuery(hql);
            list = query.list();
```

```
        commit();
        for(Object[] u:list){
            int id=(Integer) u[0];
            String name = (String) u[1];
            String pwd = (String) u[2];
            String email=(String) u[3];
            User uu=new User();
            uu.setId(id);
            uu.setUsername(name);
            uu.setPassword(password);
            uu.setEmail(email);
            al.add(uu);
            //System.out.println(name + " : "+email);
        }
    } catch (HibernateException e) {
        // TODO: handle exception
        e.printStackTrace();
        return null;
    }

    if(list.isEmpty()){
        return null;
    }

        return al.get(0);
}


public User update(int id,String username,String password,String email){
    beginTransaction();
    Session sf=getSession();
    User user=(User) sf.get(User.class,id);
    user.setUsername(username);
    user.setPassword(password);
    user.setEmail(email);
    sf.update(user);
    sf.getTransaction().commit();
   // session.close();
    System.out.println("*********\n"+"username:"+user.getUsername());
    return user;
}

public void Delete(Integer id){
    beginTransaction();
    Session sf=getSession();
    User user=(User) sf.get(User.class,id);
    sf.delete(user);
    sf.getTransaction().commit();
    sf.close();
}
public int insert(User user){
    int result =0;
    beginTransaction();
    Session sf=getSession();
```

```
        sf.save(user);
        sf.getTransaction().commit();
        sf.close();
        return 1;
    }

    public User inputMed(int userid,String des,String treatment){
        beginTransaction();
        Session sf=getSession();
        User user=(User)sf.get(User.class,userid);
        //session.save(user);

        MedRecord md=new MedRecord();
        md.setDescription(des);
        md.setTreatment(treatment);
        md.setUser(user);
//        user.getRecord().add(md);
        user.getRecset().add(md);
        session.save(md);
        commit();

        return user;
    }


    public User searchpwd(String username,String email){
        beginTransaction();
        Session session=getSession();
        Criteria crit=session.createCriteria(User.class);
        crit.add(Restrictions.eq("username",username));
        crit.add(Restrictions.eq("email",email));
        List<User> res=crit.list();
        commit();
        if(res.size()==0)
            return null;
        return res.get(0);
    }

    public User finduser(int userid){
        beginTransaction();
        Session session=getSession();
        Criteria crit=session.createCriteria(User.class);
        crit.add(Restrictions.eq("id",userid));
        List<User> res=crit.list();
        commit();
        return res.get(0);
    }

    public List<MedRecord> searchRecord(int userid){
        beginTransaction();
        Session sf=getSession();
        User user=(User)sf.load(User.class,userid);
        commit();
        List <MedRecord> res=new ArrayList();
```

```
        for(MedRecord md: user.getRecset())
            res.add(md);
        return res;
    }
}
```

dao.doctordao

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package dao;

import java.util.ArrayList;
import java.util.HashSet;
import java.util.List;
import java.util.Set;
import java.util.logging.Level;
import java.util.logging.Logger;
import org.hibernate.Criteria;
import org.hibernate.HibernateException;
import org.hibernate.Query;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
import pojo.Doctor;
import pojo.MedRecord;
import pojo.User;

/**
 *
 * @author cestdrama
 */
public class DoctorDao {
    private SessionFactory sessionFactory;
    private static Session session;

    protected SessionFactory setUp() {
        Configuration configuration = new Configuration();
        configuration.configure("hibernate.cfg.xml");
        //configuration.addResource("hibernate.cfg.xml").configure();
        StandardServiceRegistry registry = new StandardServiceRegistryBuilder()
                .applySettings(configuration.getProperties())
                .build();
        try {
            sessionFactory = configuration.buildSessionFactory();
        } catch (Exception e) {
            e.printStackTrace();
        }
```

```
    return sessionFactory;
}

public Session getSession() {
    if (session == null) {
        session = setUp().openSession();
    }
    return session;
}

private void beginTransaction() {
    getSession().beginTransaction();
}

private void commit() {
    getSession().getTransaction().commit();
}

private void close() {
    getSession().close();
}

private void rollbackTransaction() {
    getSession().getTransaction().rollback();
}

public void insert(Doctor doc){
    beginTransaction();
    Session session=getSession();
    session.save(doc);
    session.getTransaction().commit();
    //session.close();

}

public int Register(Doctor doc) {
   int result = 0;
    try {
        beginTransaction();
        Session session = getSession();
        session.save(doc);
        commit();
        result = 1;
    } catch (HibernateException e) {
        e.printStackTrace();
        try {
            rollbackTransaction();
        } catch (Exception ex) {
            Logger.getLogger(UserDao.class.getName()).log(Level.SEVERE, null, ex);
        }
    } catch (Exception ex) {
        Logger.getLogger(UserDao.class.getName()).log(Level.SEVERE, null, ex);
    } finally {
        try {
```

```
            //close();
        } catch (Exception ex) {
            Logger.getLogger(UserDao.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
    return result;
}

public Doctor login(String docname,String password ){
    if(docname==null)
        docname="";
    if(password==null)
        password="";
    List<Object[]> list = null;
    List<Doctor> al=new ArrayList();
    //user.username ,user.password
    //String hql="select doctor.docid,doctor.docname ,doctor.pwd from Doctor as doc where
doc.docname='"+docname+"' and doc.pwd = '"+password+"'";
    String hql="select d.docid,d.docname ,d.pwd from Doctor as d where
d.docname='"+docname+"' and d.pwd = '"+password+"'";
    try {
        //Session session = getHibernateTemplate().getSessionFactory().getCurrentSession();
        beginTransaction();
        Session session=getSession();
        Query query =session.createQuery(hql);
        list = query.list();
        commit();
        for(Object[] u:list){
            int id=(Integer) u[0];
            String name = (String) u[1];
            String pwd = (String) u[2];
            Doctor dd=new Doctor();
            dd.setDocid(id);
            dd.setDocname(name);
            dd.setPwd(pwd);
            al.add(dd);
            //System.out.println(name + " : "+email);
        }
    } catch (HibernateException e) {
        // TODO: handle exception
        e.printStackTrace();
        return null;
    }

    if(list.isEmpty()){
        return null;
    }

        return al.get(0);
}

 public Doctor update(int docid,String docname,String pwd){
    beginTransaction();
    Session session=getSession();
```

```
        Doctor doc=(Doctor) session.get(Doctor.class,docid);
        doc.setDocname(docname);
        doc.setPwd(pwd);
        session.update(doc);
        session.getTransaction().commit();
       // session.close();
        return doc;
    }



    public User inputMed(Integer docid,int userid,String des,String treatment){
        beginTransaction();
        Session session=getSession();
        User user=(User)session.get(User.class,userid);
        MedRecord md=new MedRecord();
        md.setDocid(docid);
        md.setDescription(des);
        md.setTreatment(treatment);
        md.setUser(user);
        user.getRecset().add(md);
        session.save(md);
        commit();
        return user;


    }

    public List<MedRecord> searchRecord(){
        beginTransaction();
        Session session=getSession();
        Criteria criteria=session.createCriteria(MedRecord.class);
        List<MedRecord> res=criteria.list();
        commit();
//        List <MedRecord> res=new ArrayList();
//        for(MedRecord md: user.getRecset())
//            res.add(md);
        return res;
    }

    public List<MedRecord> searchRecord(int userid){
        String hql="from MedRecord as md where md.user.id ="+userid;
        beginTransaction();
        Session session=getSession();
        Query query =session.createQuery(hql);
        List<MedRecord> res = query.list();
        commit();
        return res;
    }

  }
```

dao.admindao

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package dao;

import java.util.ArrayList;
import java.util.List;
import org.hibernate.Criteria;
import org.hibernate.HibernateException;
import org.hibernate.Query;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.Configuration;
import org.hibernate.criterion.Restrictions;
import pojo.*;

/**
 *
 * @author cestdrama
 */
public class AdminDao {
    private SessionFactory sessionFactory;
    private static Session session;

    protected SessionFactory setUp() {
        Configuration configuration = new Configuration();
        configuration.configure("hibernate.cfg.xml");
        //configuration.addResource("hibernate.cfg.xml").configure();
        StandardServiceRegistry registry = new StandardServiceRegistryBuilder()
                .applySettings(configuration.getProperties())
                .build();
        try {
            sessionFactory = configuration.buildSessionFactory();
        } catch (Exception e) {
            e.printStackTrace();
        }
        return sessionFactory;
    }

    public Session getSession() {
        if (session == null) {
            session = setUp().openSession();
        }
        return session;
    }

    private void beginTransaction() {
        getSession().beginTransaction();
    }
```

```
private void commit() {
    getSession().getTransaction().commit();
}

private void close() {
    getSession().close();
}

private void rollbackTransaction() {
    getSession().getTransaction().rollback();
}


public void insert(Admin admin){
    beginTransaction();
    Session session=getSession();
    session.save(admin);
    session.getTransaction().commit();
    //session.close();

}

public Admin login(String adminname,String password ){
    if(adminname==null)
        adminname="";
    if(password==null)
        password="";
    beginTransaction();
    Session session=getSession();
    Criteria crit=session.createCriteria(Admin.class);
    crit.add(Restrictions.eq("adminname", adminname));
    crit.add(Restrictions.eq("apwd", password));
    List<Admin> res=crit.list();
    commit();

    if(res.isEmpty()){
        return null;
    }

    return res.get(0);
}

public List<Doctor> Searchdoc(){
    beginTransaction();
    Session session=getSession();
    Criteria crit=session.createCriteria(Doctor.class);
    List<Doctor> res=crit.list();
    commit();
    return res;
}

public void deletedoc(Integer docid){
    beginTransaction();
    Session session=getSession();
```

```
        Doctor doc=(Doctor) session.get(Doctor.class,docid);
        session.delete(doc);
        session.getTransaction().commit();
        //session.close();

    }

    public List<User> Searchpat(){
        beginTransaction();
        Session session=getSession();
        Criteria crit=session.createCriteria(User.class);
        List<User> res=crit.list();
        commit();
        return res;
    }

    public void deletepat(Integer userid){
        beginTransaction();
        Session session=getSession();
        User user=(User) session.get(User.class,userid);
        session.delete(user);
        session.getTransaction().commit();
        //session.close();

    }

    public List<MedRecord> Searchmed(){
        beginTransaction();
        Session session=getSession();
        Criteria crit=session.createCriteria(MedRecord.class);
        List<MedRecord> res=crit.list();
        commit();
        return res;
    }

    public void deletemed(Integer medid){
        beginTransaction();
        Session session=getSession();
        MedRecord med=(MedRecord) session.get(MedRecord.class,medid);
        session.delete(med);
        session.getTransaction().commit();
        //session.close();

    }
}
```

3. controller

contoller.usercontroller

```
/*
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 * and open the template in the editor.
 */
```

```
package controller;


import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.mvc.SimpleFormController;
import pojo.User;
import dao.UserDao;
import java.util.ArrayList;
import java.util.List;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.springframework.web.servlet.mvc.multiaction.MultiActionController;
import pojo.MedRecord;

/**
 *
 * @author cestdrama
 */
    public class UserController extends MultiActionController {

   public ModelAndView pEnter(HttpServletRequest request, HttpServletResponse response )
  throws Exception {
        ModelAndView mv=new ModelAndView("login");
        mv.addObject("type", 1);
        return mv;
    }

   public ModelAndView pRegister(HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
        ModelAndView mv=new ModelAndView("register");
        mv.addObject("type", 2);
        return mv;
    }

   public ModelAndView HandelRegister(HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
        String name=request.getParameter("username");
        String pwd=request.getParameter("password");
        String email=request.getParameter("email");
        User user=new User();
        user.setUsername(name);
        user.setPassword(pwd);
        user.setEmail(email);

        UserDao ud=new UserDao();
        int result=ud.Register(user);
        ModelAndView mv=new ModelAndView("addResult","result",result);
        return mv;
    }
```

```
    public  ModelAndView pLogin (HttpServletRequest request, HttpServletResponse response )
  throws Exception {
        String name=request.getParameter("username");
        String pwd=request.getParameter("password");
        UserDao userDao = new UserDao();
        User user = userDao.login(name,pwd);
        ModelAndView mv=new ModelAndView("patient");
        if(user!=null){
            mv.addObject("user", user);
            mv.addObject("result", 1);
//            return mv;
        }
        else
            mv.addObject("result", 0);
        return mv;
    }

    public ModelAndView pUpdate(HttpServletRequest request, HttpServletResponse response)
{
        int id=Integer.valueOf(request.getParameter("id"));
        String name=request.getParameter("username");
        String pwd=request.getParameter("password");
        String email=request.getParameter("email");
        UserDao userDao = new UserDao();
        User user=userDao.update(id,name,pwd,email);
        ModelAndView mv=new ModelAndView("patient");
        mv.addObject("user", user);
        mv.addObject("result", 1);
        return mv;
    }

     public ModelAndView pView(HttpServletRequest request, HttpServletResponse response){
        int userid=Integer.valueOf(request.getParameter("id"));
        //String des=request.getParameter("userid");

        UserDao userDao = new UserDao();
        ModelAndView mv=new ModelAndView("patientView");
        List<MedRecord> res=new ArrayList();
        //User user=new User();
        res=userDao.searchRecord(userid);
        //mv.addObject("size",res.size());
        mv.addObject("result", res);
        return mv;
    }

     public ModelAndView findpwd(HttpServletRequest request, HttpServletResponse response)
{
        //int userid=Integer.valueOf(request.getParameter("id"));
        String username=request.getParameter("username");
        String email=request.getParameter("email");

        UserDao userDao = new UserDao();
        ModelAndView mv=new ModelAndView("backpwd");
```

```
        User user=userDao.searchpwd(username,email);
        if(user!=null){
          mv.addObject("result",1 );
        }
        else
          mv.addObject("result",0 );
        mv.addObject("user",user );
        return mv;
    }

}
```

contoller.doctorcontroller

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package controller;

import dao.DoctorDao;
import dao.UserDao;
import java.util.List;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.mvc.multiaction.MultiActionController;
import pojo.Doctor;
import pojo.MedRecord;
import pojo.User;

/**
 *
 * @author cestdrama
 */
public class DoctorController extends MultiActionController{

    public ModelAndView dEnter(HttpServletRequest request, HttpServletResponse response )
    throws Exception {
        ModelAndView mv=new ModelAndView("login");
        mv.addObject("type",2);
        return mv;
    }

    public  ModelAndView dLogin (HttpServletRequest request, HttpServletResponse response )
  throws Exception {
        String name=request.getParameter("docname");
        String pwd=request.getParameter("password");
        DoctorDao docDao = new DoctorDao();
        Doctor doc = docDao.login(name,pwd);
        ModelAndView mv=new ModelAndView("doctor");
        if(doc!=null){
            mv.addObject("doc", doc);
```

```
            mv.addObject("result", 1);
//            return mv;
        }
        else
            mv.addObject("result", 0);
        return mv;
    }

    public ModelAndView dRegister(HttpServletRequest request, HttpServletResponse response
)
  throws Exception {
        ModelAndView mv=new ModelAndView("register");
        mv.addObject("type", 2);
        return mv;
    }

    public ModelAndView DoRegister(HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
        String name=request.getParameter("docname");
        String pwd=request.getParameter("pwd");
        Doctor doc=new Doctor();
        doc.setDocname(name);
        doc.setPwd(pwd);
        DoctorDao dd=new DoctorDao();
        int result=dd.Register(doc);
        ModelAndView mv=new ModelAndView("addResult","result",result);
        return mv;
    }

     public ModelAndView dUpdate(HttpServletRequest request, HttpServletResponse
response){
        int id=Integer.valueOf(request.getParameter("docid"));
        String name=request.getParameter("docname");
        String pwd=request.getParameter("pwd");
        DoctorDao dd = new DoctorDao();
        Doctor doc=dd.update(id,name,pwd);
        ModelAndView mv=new ModelAndView("doctor");
        mv.addObject("doc", doc);
        mv.addObject("result", 1);
        return mv;
    }

   public ModelAndView transToInsert(HttpServletRequest request, HttpServletResponse
response ){
         ModelAndView mv=new ModelAndView("diagnose");
         mv.addObject("docid",request.getParameter("docid"));
         return mv;
   }

   public ModelAndView diagnosis(HttpServletRequest request, HttpServletResponse
response ){
        int docid=Integer.valueOf(request.getParameter("docid"));
        int userid=Integer.valueOf(request.getParameter("userid"));
```

```
        String des=request.getParameter("des");
        String treatment=request.getParameter("treatment");
        DoctorDao dd = new DoctorDao();
        dd.inputMed(docid, userid, des, treatment);
        ModelAndView mv= new ModelAndView("addResult");
        mv.addObject("result", 1);
        return mv;
    }

//   public ModelAndView transToView(HttpServletRequest request, HttpServletResponse
response ){
//        ModelAndView mv=new ModelAndView("doctorView");
//        return mv;
//   }

    public ModelAndView ViewRecord(HttpServletRequest request, HttpServletResponse
response ){
        DoctorDao dd = new DoctorDao();
        List<MedRecord> list=dd.searchRecord();
        ModelAndView mv=new ModelAndView("doctorView");
        mv.addObject("list", list);
        return mv;
    }
    public ModelAndView SearchUserRecord(HttpServletRequest request, HttpServletResponse
response ){
        int userid=Integer.valueOf(request.getParameter("userid"));
        DoctorDao dd = new DoctorDao();
        List<MedRecord> list=dd.searchRecord(userid);

        UserDao ud=new UserDao();
        User user=ud.finduser(userid);
        ModelAndView mv=new ModelAndView("doctorView");
        mv.addObject("list", list);
        mv.addObject("user", user);
        mv.addObject("type", 1);
        return mv;
    }

}
```

contoller.admincontroller

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package controller;

import dao.*;
import java.util.List;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import org.springframework.web.servlet.ModelAndView;
import org.springframework.web.servlet.mvc.multiaction.MultiActionController;
import pojo.*;

/**
 *
 * @author cestdrama
 */
public class AdminController extends MultiActionController {

    public ModelAndView aEnter(HttpServletRequest request, HttpServletResponse response )
    throws Exception {
        ModelAndView mv=new ModelAndView("login");
        mv.addObject("type",3);
        return mv;
    }
    public ModelAndView aLogin (HttpServletRequest request, HttpServletResponse response )
  throws Exception {
        String name=request.getParameter("adminname");
        String pwd=request.getParameter("apwd");
        AdminDao adao = new AdminDao();
        Admin admin = adao.login(name,pwd);
        ModelAndView mv=new ModelAndView("admin");
        if(admin!=null){
            mv.addObject("admin", admin);
            mv.addObject("result", 1);
//            return mv;
        }
        else
            mv.addObject("result", 0);
        return mv;
    }

    public ModelAndView mngdoc (HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
       AdminDao adao = new AdminDao();
//        Admin admin = adao.login(name,pwd);
        ModelAndView mv=new ModelAndView("docmanage");
        List<Doctor> list=adao.Searchdoc();
        mv.addObject("list", list);
        return mv;
    }

   public ModelAndView deleteDoc (HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
        Integer docid=Integer.valueOf(request.getParameter("docid"));
        AdminDao adao = new AdminDao();
        adao.deletedoc(docid);
        ModelAndView mv=new ModelAndView("docmanage");
        List<Doctor> list=adao.Searchdoc();
        mv.addObject("list", list);
        return mv;
```

```
    }

   public ModelAndView mngpatient (HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
//        String name=request.getParameter("adminname");
//        String pwd=request.getParameter("apwd");
        AdminDao adao = new AdminDao();
//        Admin admin = adao.login(name,pwd);
        ModelAndView mv=new ModelAndView("patmanage");
        List<User> list=adao.Searchpat();
        mv.addObject("list", list);
        return mv;
    }
   public ModelAndView deletepat (HttpServletRequest request, HttpServletResponse response
)
  throws Exception {
        Integer id=Integer.valueOf(request.getParameter("id"));
        AdminDao adao = new AdminDao();
        adao.deletepat(id);
        ModelAndView mv=new ModelAndView("patmanage");
        List<User> list=adao.Searchpat();
        mv.addObject("list", list);
        return mv;
    }

   public ModelAndView mngmed (HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
       ModelAndView mv=new ModelAndView("medmanage");
        List<MedRecord> list=adao.Searchmed();
        mv.addObject("list", list);
        return mv;
    }
   public ModelAndView deletemed (HttpServletRequest request, HttpServletResponse
response )
  throws Exception {
        Integer medid=Integer.valueOf(request.getParameter("medid"));
        AdminDao adao = new AdminDao();
        adao.deletemed(medid);
        ModelAndView mv=new ModelAndView("medmanage");
        List<MedRecord> list=adao.Searchmed();
        mv.addObject("list", list);
        return mv;
    }

}
```

Sample code of Jsp

login.jsp

```
<%--
```

```
    Document   : add
    Created on : 2019-3-7, 18:03:33
    Author     : Administrator
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <h1>Hi! Welcome to Login</h1>
        <div>
        <c:if test="${type==1}">
            <p>Please login here</p>
            <form action="pLogin.htm" method="post">
            <label>username: </label>
            <input type="text" name="username"><br/>
            <label>password </label>
            <input type="text" name="password"><br/>
            <input type="submit" name="submit" value="Login"/>
            </form>

            <p>Forgot you pass word? Click here</p>
            <form action="findpwd.htm" method="post">
                Username:<input type="text" name="username"/><br/>
                email:<input type="text" name="email"/><br/>
                <input type="submit" value="find my password"/>
            </form>

        </c:if>
        <c:if test="${type==2}">
            <form action="dLogin.htm" method="post">
            <label>Doctor name: </label>
            <input type="text" name="docname"><br/>
            <label>Password: </label>
            <input type="text" name="password"><br/>
            <input type="submit" name="submit" value="Login"/>
            </form>
        </c:if>

        <c:if test="${type==3}">
            <form action="aLogin.htm" method="post">
            <label>Admin name: </label>
            <input type="text" name="adminname"><br/>
            <label>Password: </label>
            <input type="text" name="apwd"><br/>
            <input type="submit" name="submit" value="Login"/>
            </form>
        </c:if>
```

```
        </div>
    </body>
</html>
```

doctor
view.jsp

```
<%--
    Document   : doctorView
    Created on : Apr 24, 2019, 3:38:47 AM
    Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <h1>Welcome to view the medical record</h1>
        <c:if test="${type==1}">
        <p>Below is basic info of Patient************************************</p>
        <b>Patient ID:</b> ${user.id}<br/>
        <b>Patient name:</b> ${user.username}<br/>
        <b>Patient email:</b> ${user.email}<br/>
        </c:if>

        <c:if test="${list != null}">
        <p>Below is Medical record of Patient*********************************</p>
        record count: ${list.size()}<br/>
        <table border=1 align="left">
                <tr/><th/>Record ID<th/>Disease Description<th/>Treatment<th/>Doctor ID
                    <c:forEach var="item" items="${list}">
                        <tr/>
                        <td/>${item.getMedid()}
                        <td/>${item.getDescription()}
                        <td/>${item.getTreatment()}
                        <td/>${item.getDocid()}
                    </c:forEach>

        </table>
        </c:if>
        <a href="redirect.jsp"> Back to Main Page</a>
    </body>
</html>
```

admin.jsp

```
<%--
   Document   : admin
   Created on : Apr 24, 2019, 10:46:41 AM
   Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <c:if test="${result == 0}">
          <h1>You are not an administrator!</h1>
          <p> Sorry,Login failed</p>
          <a href="redirect.jsp"> Back to Main Page</a>
       </c:if>
      <c:if test="${result == 1}">
         <h1>You are an administrator!</h1>
            <p>Manage Doctor*********************************************</p>
            <form action="mngdoc.htm" method="post">
                <input type="submit" value="Manage Doctor"/>
            </form>
            <p>Manage Patient*********************************************</p>
            <form action="mngpatient.htm" method="post">
                <input type="submit" value="Manage Patient"/>
            </form>

            <p> Manage Medical record*************************************</p>
            <form action="mngmed.htm" method="post">
                <input type="submit" value="Manage Record"/>
            </form>
       </c:if>
   </body>
</html>
```

back-we.jsp

```
<%--
   Document   : backpwd
   Created on : Apr 24, 2019, 8:54:50 AM
   Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
```

```
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <c:if test="${result==1}">
        <h1>Dear ${user.username} your password is:</h1>
        <h1> ${user.password}</h1>
        </c:if>

        <c:if test="${result==0}">
            <p>Your information may not be correct</p>
            <p>Password not found</p>
         <a href="redirect.jsp"> Back to Main Page</a>
        </c:if>
    </body>
</html>
```

register.jsp

```
<%--
    Document   : add
    Created on : 2019-4-19, 18:03:33
    Author     : Administrator
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <h1>Please register</h1>
        <div>
            <c:if test="${type==1}">
            <form action="HandelRegister.htm" method="post">
                Username:<input type="text" name="username"/><br/>
                Password:<input type="text" name="password"/><br/>
                Email:<input type="text" name="email"/><br>
                <input type="submit" value="Register" /><br/>
            </form>
            </c:if>

            <c:if test="${type==2}">
            <form action="DoRegister.htm" method="post">
                Doctor name:<input type="text" name="docname"/><br/>
                Password:<input type="text" name="pwd"/><br/>
                <input type="submit" value="Register" /><br/>
            </form>
```

```
        </c:if>
      </div>
   </body>
</html>
```

addResult.jsp

```
 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <c:choose>
         <c:when test="${result == 1}">
            ${result}
            <h1>1  Added Successfully</h1>
         </c:when>
         <c:otherwise>
            <h1> Added Failed</h1>
         </c:otherwise>
      </c:choose>
      <a href="redirect.jsp">Go Back to Main Page</a>
   </body>
</html>
```

diagnosis.jsp

```
<%--
   Document   : diagnose
   Created on : Apr 24, 2019, 3:14:27 AM
   Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <h1>Please write your diagnosis here </h1>
      <form action="diagnosis.htm" method="post">
            <input type="hidden" name="docid" value="${docid}"/>
            Patient id:
            <input type="number" name="userid"/><br/>
            Disease Description:
            <input type="text" name="des" /><br/>
            Relevant Treatment
            <input type="text" name="treatment"/><br/>
```

```
                <input type="submit" value="Create a record"/>
        </form>
    </body>
</html>
```

docmanage.jsp

```
<%--
    Document   : docmanage
    Created on : Apr 24, 2019, 1:09:19 PM
    Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>JSP Page</title>
    </head>
    <body>
        <h1>Welcom to manage Doctor</h1>

        <c:if test="${list != null}">
         <form action="deleteDoc.htm" method="post">
        input the doctor id you want to delete:<input type="text" name="docid"/><br/>
        <input type="submit" value="delete"/>
        </form>
        <p>Below is a Doctors list in this hospital*********************************</p>
        record count: ${list.size()}<br/>
        <table border=1 align="left">
                <tr/><th/>Doctor ID<th/>Doctor Name
                    <c:forEach var="item" items="${list}">
                        <tr/>
                        <td/>${item.getDocid()}
                        <td/>${item.getDocname()}
                    </c:forEach>
        </table>
        </c:if>
        <br/>
            <a href="redirect.jsp"> Back to Main Page</a>
    </body>
</html>
```

doc.jsp

```
<%--
    Document   : doctor
    Created on : Apr 24, 2019, 1:00:51 AM
    Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <h1>Welcome doctor ${doc.getDocname()} </h1>
       <c:if test="${result == 0}">
          <p> Sorry,Login failed</p>
          <a href="redirect.jsp"> Back to Main Page</a>
       </c:if>
       <c:if test="${result == 1}">
            <p>Below is your personal information************************</p>
            <form action="dUpdate.htm" method="post">
               Doctor id:
               <input type="text" name="docid" value="${doc.docid}" /><br/>
               Doctor name:
               <input type="text" name="docname" value="${doc.docname}"/><br/>
               Password:
               <input type="text" name="pwd" value="${doc.pwd}"/><br/>
               <input type="submit" value="Update"/>
            </form>
            <p> Start to Write a Diagnosis******************************</p>
            <form action="transToInsert.htm" method="post">
                <input type="hidden" name="docid" value="${doc.docid}"/>
                <input type="submit" value="Add Record"/>
            </form>
            <p> View Medical record*************************************</p>
            <form action="ViewRecord.htm" method="post">
                <input type="submit" value="View My record"/>
            </form>

            <p> Search User Medical record*************************************</p>
            <form action="SearchUserRecord.htm" method="post">
                User ID:<input type="number" name="userid"/><br/>
                <input type="submit" value="Search User Record"/>
            </form>
       </c:if>
       <br/>
         <a href="redirect.jsp"> Back to Main Page</a>
   </body>

</html>
```

doctorView.jsp

```
<%--
   Document   : doctorView
   Created on : Apr 24, 2019, 3:38:47 AM
   Author     : cestdrama
--%>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <h1>Welcome to view the medical record</h1>
      <c:if test="${type==1}">
      <p>Below is basic info of Patient************************************</p>
      <b>Patient ID:</b> ${user.id}<br/>
      <b>Patient name:</b> ${user.username}<br/>
      <b>Patient email:</b> ${user.email}<br/>
      </c:if>

      <c:if test="${list != null}">
      <p>Below is Medical record of Patient*********************************</p>
      record count: ${list.size()}<br/>
      <table border=1 align="left">
            <tr/><th/>Record ID<th/>Disease Description<th/>Treatment<th/>Doctor ID
               <c:forEach var="item" items="${list}">
                  <tr/>
                  <td/>${item.getMedid()}
                  <td/>${item.getDescription()}
                  <td/>${item.getTreatment()}
                  <td/>${item.getDocid()}
               </c:forEach>

      </table>
      </c:if>
      <br/>
         <a href="redirect.jsp"> Back to Main Page</a>
   </body>
</html>
```

index.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
   "http://www.w3.org/TR/html4/loose.dtd">

<html>
   <head>
      <title>Medical Record System</title>
   </head>


   <body>
      <h1>Welcome to use our medical record system</h1>
      <b>Patient</b>
      <p><a href="pEnter.htm">Login here</a></p>
      <p><a href="pRegister.htm">Register an new account</a></p>
```

```
        <p>*******************************************************</p>
        <b>Doctor</b>
        <p><a href="dEnter.htm">Login here</a></p>
        <p><a href="dRegister.htm">Register an new account</a></p>

        <p>*******************************************************</p>
        <b>Admin</b>
        <p><a href="aEnter.htm">Login here</a></p>

</body>
</html>
```

medmanage.jsp

```
<%--
   Document   : medmanage
   Created on : Apr 24, 2019, 2:11:07 PM
   Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <h1>Welcome to manage Medical Record</h1>
     <c:if test="${list != null}">
        <form action="deletemed.htm" method="post">
           input the record id you want to delete:<input type="text" name="medid"/><br/>
           <input type="submit" value="delete"/>
        </form>
        <p>Below is a Medical Record list in this hospital*********************************</p>
        <p>record count: ${list.size()}</p>
         <table border=1 align="left">
            <tr/><th/>Record ID<th/>Disease Description<th/>Treatment<th/>Doctor ID
               <c:forEach var="item" items="${list}">
                  <tr/>
                  <td/>${item.getMedid()}
                  <td/>${item.getDescription()}
                  <td/>${item.getTreatment()}
                  <td/>${item.getDocid()}
               </c:forEach>

         </table>
     </c:if>
   </body>
   <br/><a href="redirect.jsp">Go Back to Main Page</a>
</html>
```

patient.jsp

```
<%--
   Document   : patient
   Created on : Apr 19, 2019, 12:41:31 PM
   Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
         <c:if test="${result==0}">
            <h1> Login Failed</h1>
         </c:if>
         <c:if test="${result == 1}">
            ${result}
            <h1>Welcome ${user.getUsername()}</h1>
            <p>Below is your information</p>
            <form action="pUpdate.htm" method="post">
               Id:
               <input type="text" name="id" value="${user.getId()}" /><br/>
               Username:
               <input type="text" name="username" value="${user.getUsername()}"/><br/>
               Password:
               <input type="text" name="password" value="${user.getPassword()}"/><br/>
               Email:
               <input type="text" name="email" value="${user.getEmail()}"/><br/>
               <input type="submit" value="Update"/>
            </form>


<!--            <form action="pView.htm" method="post">
             <input type="submit" name="View your record"/>
             </form>-->



         <p>************************************</p>
         <form action="pView.htm" method="post">
            View your medical record
            <input type="hidden" name="id" value="${user.getId()}"/>
            <input type="hidden" name="username" value="${user.getUsername()}"/>
            <input type="hidden" name="password" value="${user.getPassword()}"/>
            <input type="hidden" name="email" value="${user.getEmail()}"/><br/>
            <input type="submit" value="view MedRecord"/>
         </form>
```

```
        </c:if>

      <br/><a href="redirect.jsp">Go Back to Main Page</a>
   </body>
</html>
```

patientView.jsp

```
<%--
   Document   : patientView
   Created on : Apr 23, 2019, 7:36:51 PM
   Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <h1>Welcome to view your medical record</h1>
      <p>records number: ${result.size()}</p>
      <c:if test="${result != null}">
      <table border=1 align="center">
            <tr/><th/>Record ID<th/>Disease Description<th/>Treatment<th/>Doctor ID

               <c:forEach var="item" items="${result}">
                  <tr/>
                  <td/>${item.getMedid()}
                  <td/>${item.getDescription()}
                  <td/>${item.getTreatment()}
                  <td/>${item.getDocid()}

               </c:forEach>

      </table>
      </c:if>
      <br/>
      <a href="redirect.jsp"> Back to Main Page</a>
   </body>
</html>
```

patmanage.jsp

```
<%--
   Document   : patmanage
   Created on : Apr 24, 2019, 1:55:07 PM
   Author     : cestdrama
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
```

```
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
     <h1>Welcome to manage Patient</h1>
     <c:if test="${list != null}">
        <form action="deletepat.htm" method="post">
           input the patient id you want to delete:<input type="text" name="id"/><br/>
           <input type="submit" value="delete"/>
        </form>
        <p>Below is a Patients list in this hospital*********************************</p>
        <p>record count: ${list.size()}</p>
        <table border=1 align="left">
           <tr/><th/>Patient ID<th/>Name<th/>Email Address
           <c:forEach var="item" items="${list}">
                 <tr/>
                 <td/>${item.getId()}
                 <td/>${item.getUsername()}
                 <td/>${item.getEmail()}
            </c:forEach>
        </table>
     </c:if>

   </body>
</html>
```

register.jsp

```
<%--
   Document   : add
   Created on : 2019-4-19, 18:03:33
   Author     : Administrator
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>
<!DOCTYPE html>
<html>
   <head>
      <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
      <title>JSP Page</title>
   </head>
   <body>
      <h1>Please register</h1>
      <div>
         <c:if test="${type==1}">
         <form action="HandelRegister.htm" method="post">
            Username:<input type="text" name="username"/><br/>
            Password:<input type="text" name="password"/><br/>
            Email:<input type="text" name="email"/><br>
```

```
            <input type="submit" value="Register" /><br/>
        </form>
        </c:if>

        <c:if test="${type==2}">
        <form action="DoRegister.htm" method="post">
            Doctor name:<input type="text" name="docname"/><br/>
            Password:<input type="text" name="pwd"/><br/>
            <input type="submit" value="Register" /><br/>
        </form>
        </c:if>
      </div>
   </body>
</html>
```

XML

dispatcher-servlet.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:p="http://www.springframework.org/schema/p"
      xmlns:aop="http://www.springframework.org/schema/aop"
      xmlns:tx="http://www.springframework.org/schema/tx"
      xsi:schemaLocation="http://www.springframework.org/schema/beans http://
www.springframework.org/schema/beans/spring-beans-3.1.xsd
      http://www.springframework.org/schema/aop http://www.springframework.org/schema/
aop/spring-aop-3.1.xsd
      http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/
spring-tx-3.1.xsd">

   <bean
class="org.springframework.web.servlet.mvc.support.ControllerClassNameHandlerMapping"/>

   <!--
   Most controllers will use the ControllerClassNameHandlerMapping above, but
   for the index controller we are using ParameterizableViewController, so we must
   define an explicit mapping for it.
   -->
   <bean id="urlMapping"
class="org.springframework.web.servlet.handler.SimpleUrlHandlerMapping">
      <property name="mappings">
         <props>
            <prop key="index.htm">indexController</prop>
<!--            <prop key="add.htm">saveController</prop>-->
<!--            <prop key="register.htm">userController</prop>-->
<!--            <prop key="login.htm">loginController</prop>-->
            <prop key="pEnter.htm">pmultyAction</prop>
            <prop key="pLogin.htm">pmultyAction</prop>
            <prop key="pRegister.htm">pmultyAction</prop>
            <prop key="HandelRegister.htm">pmultyAction</prop>
            <prop key="pUpdate.htm">pmultyAction</prop>
            <prop key="pView.htm">pmultyAction</prop>
```

```
            <prop key="findpwd.htm">pmultyAction</prop>

            <prop key="dEnter.htm">dmultyAction</prop>
            <prop key="dLogin.htm">dmultyAction</prop>
            <prop key="dRegister.htm">dmultyAction</prop>
            <prop key="DoRegister.htm">dmultyAction</prop>
            <prop key="dUpdate.htm">dmultyAction</prop>
            <prop key="dView.htm">dmultyAction</prop>
            <prop key="transToInsert.htm">dmultyAction</prop>
            <prop key="diagnosis.htm">dmultyAction</prop>
            <prop key="transToView.htm">dmultyAction</prop>
            <prop key="ViewRecord.htm">dmultyAction</prop>
            <prop key="SearchUserRecord.htm">dmultyAction</prop>

            <prop key="aEnter.htm">admultyAction</prop>
            <prop key="admin.htm">admultyAction</prop>
            <prop key="aLogin.htm">admultyAction</prop>
            <prop key="mngdoc.htm">admultyAction</prop>
            <prop key="deleteDoc.htm">admultyAction</prop>
            <prop key="mngpatient.htm">admultyAction</prop>
            <prop key="deletepat.htm">admultyAction</prop>
            <prop key="mngmed.htm">admultyAction</prop>
            <prop key="deletemed.htm">admultyAction</prop>

        </props>
      </property>
    </bean>

    <bean id="viewResolver"
        class="org.springframework.web.servlet.view.InternalResourceViewResolver"
        p:prefix="/WEB-INF/jsp/"
        p:suffix=".jsp" />

    <bean id="pmultyAction" class="controller.UserController">
                <property name="methodNameResolver">
                        <bean
class="org.springframework.web.servlet.mvc.multiaction.InternalPathMethodNameResolver" /
>
                </property>
    </bean>

    <bean id="dmultyAction" class="controller.DoctorController">
                <property name="methodNameResolver">
                        <bean
class="org.springframework.web.servlet.mvc.multiaction.InternalPathMethodNameResolver" /
>
                </property>
    </bean>

    <bean id="admultyAction" class="controller.AdminController">
                <property name="methodNameResolver">
                        <bean
class="org.springframework.web.servlet.mvc.multiaction.InternalPathMethodNameResolver" /
>
```

```
                    </property>
    </bean>
</beans>
```

hibernate.cfg.xml

```
<hibernate-configuration>
  <session-factory>
    <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>
    <property name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>
    <property name="hibernate.connection.url">jdbc:mysql://localhost:3306/mydb?
serverTimezone=UTC</property>
    <property name="hibernate.connection.username">root</property>
    <property name="hibernate.connection.password">12345678</property>
    <property name="hibernate.show_sql">true</property>
    <property name="hibernate.hbm2ddl.auto">update</property>
    <mapping resource="hibernate.hbm.xml"/>
  </session-factory>
</hibernate-configuration>
```

hibernate.hbm.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<hibernate-mapping>
  <class name="pojo.Hospital" table="hospitals"/>
    <id name="id" type="java.lang.Integer">
          <column name="id"/>
          <generator class="native"/>
    </id>
    <property name="h_name" type="java.lang.String">
          <column name="h_name"/>
    </property>
    <property name="h_location" type="java.lang.String">
          <column name="h_location"/>
    </property>
  </class>
</hibernate-mapping>-->

<hibernate-mapping>
<!--    <class name="pojo.Hospital" table="hospitals">
        <id name="id" type="java.lang.Integer">
            <column name="id"/>
            <generator class="native"/>
        </id>
        <property name="h_name" type="java.lang.String">
            <column name="h_name"/>
        </property>
        <property name="h_location" type="java.lang.String">
            <column name="h_location"/>
        </property>
    </class>-->
     <class name="pojo.Admin" table="admintable">
        <id name="adid" type="java.lang.Integer">
            <column name="adid"/>
            <generator class="native"/>
```

```
    </id>
    <property name="adminname" type="java.lang.String">
        <column name="adminname"/>
    </property>
    <property name="apwd" type="java.lang.String">
        <column name="apwd"/>
    </property>
</class>


<class name="pojo.User" table="users">
    <id name="id" type="java.lang.Integer">
        <column name="id"/>
        <generator class="native"/>
    </id>
    <property name="username" type="java.lang.String">
        <column name="username"/>
    </property>
    <property name="password" type="java.lang.String">
        <column name="password"/>
    </property>
     <property name="email" type="java.lang.String">
        <column name="email"/>
    </property>
    <set name="recset" inverse="true" cascade="all">
        <key column="id" not-null="true" />
        <one-to-many class="pojo.MedRecord"/>
    </set>
</class>

<class name="pojo.Doctor" table="doctors">
    <id name="docid" type="java.lang.Integer">
        <column name="docid"/>
        <generator class="native"/>
    </id>
    <property name="docname" type="java.lang.String" >
        <column name="docname"/>
    </property>
    <property name="pwd" type="java.lang.String">
        <column name="pwd"/>
    </property>
</class>

<class name="pojo.MedRecord" table="medrecords">
        <id name="medid" type="int">
            <column name="medid"/>
            <generator class="native"/>
        </id>
        <property name="docid" type="java.lang.Integer" column="docid"/>
        <property name="description" type="java.lang.String">
            <column name="description"/>
        </property>
        <property name="treatment" type="java.lang.String">
            <column name="treatment"/>
```

```
        </property>
        <many-to-one name="user" class="pojo.User" column="id" not-null="true"
cascade="all"/>
<!--        <many-to-one name="doctor" class="pojo.MedRecord" column="docid" not-
null="true"/>    -->
    </class>
</hibernate-mapping>
```