МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ

федеральное государственное автономное образовательное учреждение высшего образования

«САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ АЭРОКОСМИЧЕСКОГО ПРИБОРОСТРОЕНИЯ»

ИНСТИТУТ ВЫЧИСЛИТЕЛЬНЫХ СИСТЕМ И ПРОГРАММИРОВАНИЯ

КАФЕДРА компьютерных технологий и программной инженерии

ОТЧЕТ   
ЗАЩИЩЕН С ОЦЕНКОЙ

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| ОТЧЕТ О ЛАБОРАТОРНОЙ РАБОТЕ №1 |
| «Разработка простого серверного приложения J2EE с использованием сервлетов» |
| по курсу: Технологии разработки серверных информационных систем |
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РАБОТУ ВЫПОЛНИЛ

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| --- | --- | --- | --- | --- | --- |
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1. **Задание:**

В соответствии со своим вариантом разработайте набор экранных форм приложения, соберите проект веб-приложения (war) на Maven, реализуйте формы средствами сервлетов. Проект должен как минимум содержать формы просмотра, добавления и удаления данных.

Вариант: 2. Поликлиника (запись на прием к врачу)

1. **Описание разрабатываемого продукта:**

Веб-приложение для организации управления поликлиникой. Функционал: добавление, удаление, изменение информации о врачах и пациентах, организация записей.

Формы:

Главное окно: Изображение выглядит как текст

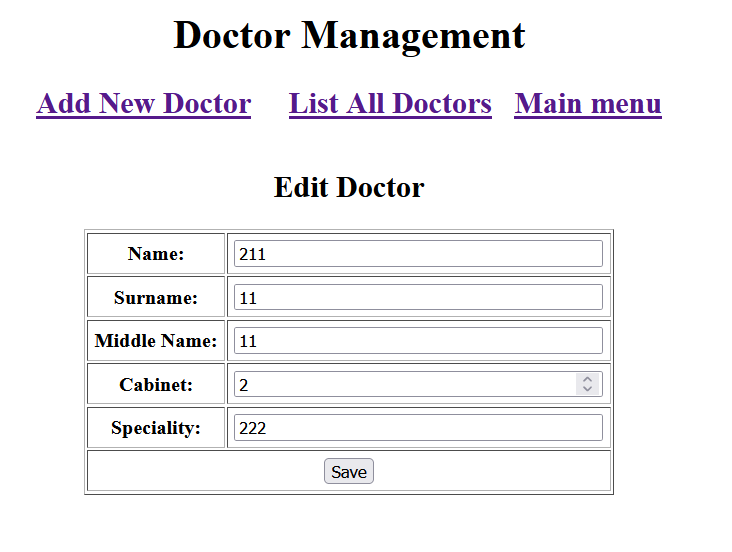
Автоматически созданное описание

Список врачей:

Изображение выглядит как стол

Автоматически созданное описание

Форма добавления/редактирования врача:

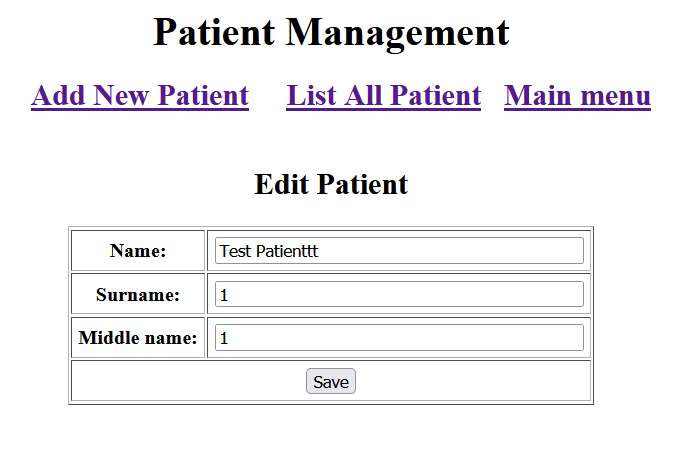


Список пациентов:

Изображение выглядит как стол

Автоматически созданное описание

SФорма добавления/редактирования пациента:

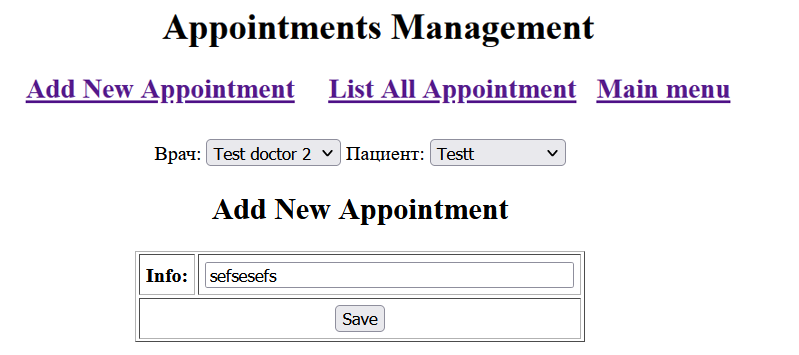


Список записей:

Изображение выглядит как стол

Автоматически созданное описание

Форма добавления записи:



1. **Листинг:**

// @filename \src\main\java\api\lab\Models\Doctor.java

package api.lab.Models;

public class Doctor {

public Integer id;

public String name;

public String surname;

public String midname;

public String speciality;

public Integer cabinet;

public Integer getId(){

return id;

}

public String getName(){

return name;

}

public String getSpeciality() {

return speciality;

}

public Integer getCabinet() {

return cabinet;

}

public void setId(Integer id) {

this.id = id;

}

public void setName(String name) {

this.name = name;

}

public String getSurname() {

return surname;

}

public void setSurname(String surname) {

this.surname = surname;

}

public String getMidname() {

return midname;

}

public void setMidname(String midname) {

this.midname = midname;

}

public void setSpeciality(String speciality) {

this.speciality = speciality;

}

public void setCabinet(Integer cabinet) {

this.cabinet = cabinet;

}

}

// @filename \src\main\java\api\lab\Models\Doctor\_Patient.java

package api.lab.Models;

import java.util.Date;

public class Doctor\_Patient {

public Integer id;

public Doctor doc;

public Patient pat;

public String info;

public Integer getId() {

return id;

}

public void setId(Integer id) {

this.id = id;

}

public Doctor getDoc() {

return doc;

}

public Patient getPat() {

return pat;

}

public String getInfo() {

return info;

}

public void setDoc(Doctor doc) {

this.doc = doc;

}

public void setPat(Patient pat) {

this.pat = pat;

}

public void setInfo(String info) {

this.info = info;

}

}

// @filename \src\main\java\api\lab\Models\Patient.java

package api.lab.Models;

import java.util.Date;

public class Patient {

public int id;

public String name;

public String surname;

public String midname;

public Integer getId(){

return id;

}

public String getName(){

return name;

}

public void setId(int id) {

this.id = id;

}

public void setName(String name) {

this.name = name;

}

public String getSurname() {

return surname;

}

public void setSurname(String surname) {

this.surname = surname;

}

public String getMidname() {

return midname;

}

public void setMidname(String midname) {

this.midname = midname;

}

}

// @filename \src\main\java\api\lab1\AppointmentDAO.java

package api.lab1;

import api.lab.Models.Doctor;

import api.lab.Models.Doctor\_Patient;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.List;

public class AppointmentDAO {

public List<Doctor\_Patient> All() throws SQLException {

List<Doctor\_Patient> result = new ArrayList<>();

String command = "SELECT \* FROM [Doctor\_Patient]";

Statement statement = SQLCon.getSqlConnection().createStatement();

ResultSet resultSet = statement.executeQuery(command);

while(resultSet.next()){

Doctor\_Patient newAppointment = new Doctor\_Patient();

newAppointment.id= resultSet.getInt("Id");

newAppointment.pat= new PatientDAO().Get(resultSet.getInt("Id\_Patient"));

newAppointment.doc= new DoctorDAO().Get(resultSet.getInt("Id\_Doctor"));

newAppointment.info = resultSet.getString("Info");

result.add(newAppointment);

}

return result;

};

public boolean Add(Doctor\_Patient doctor\_patient) throws SQLException {

String command = "INSERT INTO Doctor\_Patient (Id\_Doctor, Id\_Patient, Info) VALUES (?,?,?)";

PreparedStatement statement = SQLCon.getSqlConnection().prepareStatement(command);

statement.setInt(1, doctor\_patient.doc.id);

statement.setInt(2, doctor\_patient.pat.id);

statement.setString(3, doctor\_patient.info);

boolean result = statement.executeUpdate()>0;

return result;

};

public boolean Delete(Doctor\_Patient doctor\_patient) throws SQLException {

String command = "DELETE FROM Doctor\_Patient WHERE Id=?";

PreparedStatement statement = SQLCon.getSqlConnection().prepareStatement(command);

statement.setInt(1,doctor\_patient.id);

boolean result = statement.executeUpdate()>0;

return result;

};

}

// @filename \src\main\java\api\lab1\DoctorDAO.java

package api.lab1;

import api.lab.Models.Doctor;

import api.lab.Models.Patient;

import javax.print.Doc;

import java.sql.\*;

import java.util.ArrayList;

import java.util.List;

public class DoctorDAO {

public Doctor Get(int id) throws SQLException {

Doctor result = new Doctor();

String command = "SELECT \* FROM Doctor WHERE Id="+id;

Statement statement = SQLCon.getSqlConnection().createStatement();

ResultSet resultSet = statement.executeQuery(command);

if(resultSet.next()){

Doctor newDoctor = getDoctorFromResultSet(resultSet);

result = newDoctor;

}

return result;

};

public List<Doctor> All() throws SQLException {

List<Doctor> result = new ArrayList<>();

String command = "SELECT \* FROM [Doctor]";

Statement statement = SQLCon.getSqlConnection().createStatement();

ResultSet resultSet = statement.executeQuery(command);

while(resultSet.next()){

Doctor newDoctor = getDoctorFromResultSet(resultSet);

result.add(newDoctor);

}

return result;

};

public boolean Add(Doctor doctor) throws SQLException {

String command = "INSERT INTO Doctor (Name, Cabinet, Speciality, Surname, Midname) VALUES (?,?,?,?,?)";

PreparedStatement statement = getStatWithDoctor(doctor,command);

boolean result = statement.executeUpdate()>0;

return result;

};

public boolean Edit(Doctor doctor) throws SQLException {

String command = "UPDATE Doctor SET Name=?, Cabinet=?, Speciality=?, Surname=?, Midname=? WHERE Id=?";

PreparedStatement statement = getStatWithDoctor(doctor, command);

statement.setInt(6, doctor.id);

boolean result = statement.executeUpdate()>0;

return result;

};

public boolean Delete(Doctor doctor) throws SQLException {

String command = "DELETE FROM Doctor WHERE Id=?";

PreparedStatement statement = SQLCon.getSqlConnection().prepareStatement(command);

statement.setInt(1, doctor.id);

boolean result = statement.executeUpdate()>0;

return result;

};

public PreparedStatement getStatWithDoctor(Doctor doctor, String command) throws SQLException {

PreparedStatement statement = SQLCon.getSqlConnection().prepareStatement(command);

statement.setString(1, doctor.name);

statement.setInt(2, doctor.cabinet);

statement.setString(3,doctor.speciality);

statement.setString(4, doctor.surname);

statement.setString(5, doctor.midname);

return statement;

};

public Doctor getDoctorFromResultSet(ResultSet resultSet) throws SQLException {

Doctor doctor = new Doctor();

doctor.id=resultSet.getInt("Id");

doctor.name=resultSet.getString("Name");

doctor.cabinet=resultSet.getInt("Cabinet");

doctor.speciality=resultSet.getString("Speciality");

doctor.surname=resultSet.getString("Surname");

doctor.midname=resultSet.getString("Midname");

return doctor;

};

}

// @filename \src\main\java\api\lab1\HelloServlet.java

package api.lab1;

import java.io.\*;

import java.sql.ResultSet;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

@WebServlet(name = "helloServlet", value = "/hello-servlet")

public class HelloServlet extends HttpServlet {

private String message;

public void init() {

message = "Hello World!";

}

public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException {

response.setContentType("text/html");

SQLCon con = new SQLCon();

// ResultSet data = con.getData();

// Hello

PrintWriter out = response.getWriter();

out.println("<html><body>");

out.println("<h1>" + message + "</h1>");

out.println("</body></html>");

}

public void destroy() {

}

}

// @filename \src\main\java\api\lab1\PatientDAO.java

package api.lab1;

import api.lab.Models.Patient;

import java.sql.\*;

import java.util.ArrayList;

import java.util.List;

public class PatientDAO {

public Patient Get(int id) throws SQLException {

Patient result = new Patient();

String command = "SELECT \* FROM Patient WHERE Id="+id;

Statement statement = SQLCon.getSqlConnection().createStatement();

ResultSet resultSet = statement.executeQuery(command);

if(resultSet.next()){

Patient newPatient = getPatientFromResultSet(resultSet);

result = newPatient;

}

return result;

};

public List<Patient> All() throws SQLException {

List<Patient> result = new ArrayList<>();

String command = "SELECT \* FROM [Patient]";

Statement statement = SQLCon.getSqlConnection().createStatement();

ResultSet resultSet = statement.executeQuery(command);

while(resultSet.next()){

Patient newPatient = getPatientFromResultSet(resultSet);

result.add(newPatient);

}

return result;

};

public boolean Add(Patient patient) throws SQLException {

String command = "INSERT INTO Patient (Name, Surname, Midname) VALUES (?,?,?)";

PreparedStatement statement = getStatFromPatient(patient, command);

boolean result = statement.executeUpdate()>0;

return result;

};

public boolean Edit(Patient patient) throws SQLException {

String command = "UPDATE Patient SET Name=?, Surname=?, Midname=? WHERE Id=?";

PreparedStatement statement = getStatFromPatient(patient, command);

statement.setInt(4, patient.id);

boolean result = statement.executeUpdate()>0;

return result;

};

public boolean Delete(Patient patient) throws SQLException {

String command = "DELETE FROM Patient WHERE Id=?";

PreparedStatement statement = SQLCon.getSqlConnection().prepareStatement(command);

statement.setInt(1,patient.id);

boolean result = statement.executeUpdate()>0;

return result;

};

public Patient getPatientFromResultSet(ResultSet resultSet) throws SQLException {

Patient patient = new Patient();

patient.id=resultSet.getInt("Id");

patient.name=resultSet.getString("Name");

patient.midname=resultSet.getString("Midname");

patient.surname=resultSet.getString("Surname");

return patient;

}

public PreparedStatement getStatFromPatient(Patient patient, String command) throws SQLException {

PreparedStatement statement = SQLCon.getSqlConnection().prepareStatement(command);

statement.setString(1, patient.name);

statement.setString(2, patient.surname);

statement.setString(3, patient.midname);

return statement;

}

}

// @filename \src\main\java\api\lab1\SQLCon.java

package api.lab1;

import java.sql.\*;

public class SQLCon {

static String connectionString = "jdbc:sqlserver://127.0.0.1\\SQLEXPRESS;databaseName=PolyclinicDB;username=sa;password=test";

public SQLCon() {

String connectionUrl = "jdbc:sqlserver://127.0.0.1\\SQLEXPRESS;databaseName=PolyclinicDB;username=sa;password=test";

this.connectionString=connectionUrl;

try {

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

} catch (ClassNotFoundException e) {

e.printStackTrace();

}

}

public static Connection getSqlConnection() throws SQLException {

String connectionString = "jdbc:sqlserver://127.0.0.1\\SQLEXPRESS;databaseName=PolyclinicDB;username=sa;password=test";

try {

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

} catch (ClassNotFoundException e) {

e.printStackTrace();

}

Connection connection = DriverManager.getConnection(connectionString);

return connection;

}

}

// @filename \src\main\java\api\lab1\AppointmentServlet\AddAppointmentServlet.java

package api.lab1.AppointmentServlet;

import api.lab.Models.Doctor;

import api.lab.Models.Doctor\_Patient;

import api.lab1.AppointmentDAO;

import api.lab1.DoctorDAO;

import api.lab1.PatientDAO;

import jdk.nashorn.internal.runtime.regexp.joni.encoding.IntHolder;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "AddAppointmentServlet", value = "/AddAppointmentServlet")

public class AddAppointmentServlet extends AppointmentServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

try {

insertAppointment(request,response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void insertAppointment(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

Integer id\_pat = Integer.valueOf(request.getParameter("id\_patient"));

Integer id\_doc = Integer.valueOf(request.getParameter("id\_doctor"));

String info = request.getParameter("info");

Doctor\_Patient doctor\_patient = new Doctor\_Patient();

doctor\_patient.pat = new PatientDAO().Get(id\_pat);

doctor\_patient.doc = new DoctorDAO().Get(id\_doc);

doctor\_patient.info = info;

appointmentDAO.Add(doctor\_patient);

response.sendRedirect("AllAppointmentServlet");

}

}

// @filename \src\main\java\api\lab1\AppointmentServlet\AllAppointmentServlet.java

package api.lab1.AppointmentServlet;

import api.lab.Models.Doctor;

import api.lab.Models.Doctor\_Patient;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

@WebServlet(name = "AllAppointmentServlet", value = "/AllAppointmentServlet")

public class AllAppointmentServlet extends AppointmentServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

listAppoint(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void listAppoint(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

List<Doctor\_Patient> list = appointmentDAO.All();

request.setAttribute("listApp", list);

RequestDispatcher dispatcher = request.getRequestDispatcher("/AppointmentIndex.jsp");

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\AppointmentServlet\AppointmentServlet.java

package api.lab1.AppointmentServlet;

import api.lab1.AppointmentDAO;

import api.lab1.DoctorDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

@WebServlet(name = "AppointmentServlet", value = "/AppointmentServlet")

public class AppointmentServlet extends HttpServlet {

protected AppointmentDAO appointmentDAO;

public void init(){

appointmentDAO = new AppointmentDAO();

}

}

// @filename \src\main\java\api\lab1\AppointmentServlet\DeleteAppointmentServlet.java

package api.lab1.AppointmentServlet;

import api.lab.Models.Doctor;

import api.lab.Models.Doctor\_Patient;

import api.lab1.DoctorDAO;

import api.lab1.PatientDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "DeleteAppointmentServlet", value = "/DeleteAppointmentServlet")

public class DeleteAppointmentServlet extends AppointmentServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

deleteAppointment(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void deleteAppointment(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

Integer id = Integer.valueOf(request.getParameter("id"));

Doctor\_Patient doctor\_patient = new Doctor\_Patient();

doctor\_patient.id = id;

appointmentDAO.Delete(doctor\_patient);

response.sendRedirect("AllAppointmentServlet");

}

}

// @filename \src\main\java\api\lab1\AppointmentServlet\NewAppointmentFormServlet.java

package api.lab1.AppointmentServlet;

import api.lab.Models.Doctor;

import api.lab.Models.Doctor\_Patient;

import api.lab.Models.Patient;

import api.lab1.DoctorDAO;

import api.lab1.PatientDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

@WebServlet(name = "NewAppointmentFormServlet", value = "/NewAppointmentFormServlet")

public class NewAppointmentFormServlet extends AppointmentServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

showNewForm(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void showNewForm(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

RequestDispatcher dispatcher = request.getRequestDispatcher("/AppointmentForm.jsp");

List<Doctor> listdoc = new DoctorDAO().All();

request.setAttribute("listdocs", listdoc);

List<Patient> listpat = new PatientDAO().All();

request.setAttribute("listpats", listpat);

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\DoctorsServlet\AddDoctorServlet.java

package api.lab1.DoctorsServlet;

import api.lab.Models.Doctor;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "AddDoctorServlet", value = "/AddDoctorServlet")

public class AddDoctorServlet extends DoctorServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

try {

insertDoctor(request,response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void insertDoctor(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

String name = request.getParameter("name");

Integer cabinet = Integer.valueOf(request.getParameter("cabinet"));

String speciality = request.getParameter("speciality");

String surname = request.getParameter("surname");

String midname = request.getParameter("midname");

Doctor doc = new Doctor();

doc.name=name;

doc.cabinet=cabinet;

doc.speciality=speciality;

doc.surname=surname;

doc.midname=midname;

doctorDAO.Add(doc);

response.sendRedirect("AllDoctorServlet");

}

}

// @filename \src\main\java\api\lab1\DoctorsServlet\AllDoctorServlet.java

package api.lab1.DoctorsServlet;

import api.lab.Models.Doctor;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

@WebServlet(name = "AllDoctorServlet", value = "/AllDoctorServlet")

public class AllDoctorServlet extends DoctorServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

listDoctor(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void listDoctor(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

List<Doctor> list = doctorDAO.All();

request.setAttribute("listDoctor", list);

RequestDispatcher dispatcher = request.getRequestDispatcher("/DoctorIndex.jsp");

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\DoctorsServlet\DeleteDoctorServlet.java

package api.lab1.DoctorsServlet;

import api.lab.Models.Doctor;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.SQLException;

@WebServlet(name = "DeleteDoctorServlet", value = "/DeleteDoctorServlet")

public class DeleteDoctorServlet extends DoctorServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

deleteDoctor(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void deleteDoctor(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

Integer id = Integer.valueOf(request.getParameter("id"));

Doctor doc = new Doctor();

doc.id=id;

try {

doctorDAO.Delete(doc);

response.sendRedirect("AllDoctorServlet");

} catch (SQLException ex){

PrintWriter pw = response.getWriter();

pw.println("<html><body>");

pw.println("<h1>" + ex + "</h1>");

pw.println("</body></html>");

}

}

}

// @filename \src\main\java\api\lab1\DoctorsServlet\DoctorServlet.java

package api.lab1.DoctorsServlet;

import api.lab1.DoctorDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

@WebServlet(name = "DoctorServlet", value = "/DoctorServlet")

public class DoctorServlet extends HttpServlet {

protected DoctorDAO doctorDAO;

public void init(){

doctorDAO = new DoctorDAO();

}

}

// @filename \src\main\java\api\lab1\DoctorsServlet\EditDoctorFormServlet.java

package api.lab1.DoctorsServlet;

import api.lab.Models.Doctor;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "EditDoctorFormServlet", value = "/EditDoctorFormServlet")

public class EditDoctorFormServlet extends DoctorServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

showEditForm(request,response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void showEditForm(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

int id = Integer.parseInt(request.getParameter("id"));

Doctor doc = doctorDAO.Get(id);

RequestDispatcher dispatcher = request.getRequestDispatcher("/DoctorForm.jsp");

request.setAttribute("doctor", doc);

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\DoctorsServlet\NewDoctorFormServlet.java

package api.lab1.DoctorsServlet;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "NewDoctorFormServlet", value = "/NewDoctorFormServlet")

public class NewDoctorFormServlet extends DoctorServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

showNewForm(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void showNewForm(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

RequestDispatcher dispatcher = request.getRequestDispatcher("/DoctorForm.jsp");

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\DoctorsServlet\UpdateDoctorServlet.java

package api.lab1.DoctorsServlet;

import api.lab.Models.Doctor;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "UpdateDoctorServlet", value = "/UpdateDoctorServlet")

public class UpdateDoctorServlet extends DoctorServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

try {

updateDoctor(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void updateDoctor(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

Integer id = Integer.valueOf(request.getParameter("id"));

String name = request.getParameter("name");

String surname = request.getParameter("surname");

String midname = request.getParameter("midname");

Integer cabinet = Integer.valueOf(request.getParameter("cabinet"));

String speciality = request.getParameter("speciality");

Doctor doc = new Doctor();

doc.id=id;

doc.name=name;

doc.cabinet=cabinet;

doc.speciality=speciality;

doc.midname=midname;

doc.surname=surname;

doctorDAO.Edit(doc);

response.sendRedirect("AllDoctorServlet");

}

}

// @filename \src\main\java\api\lab1\PatientsServlets\AddPatientServlet.java

package api.lab1.PatientsServlets;

import api.lab.Models.Patient;

import api.lab1.PatientDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "AddPatientServlet", value = "/AddPatientServlet")

public class AddPatientServlet extends PatientServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

try {

insertPatient(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void insertPatient(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

String name = request.getParameter("name");

String surname = request.getParameter("surname");

String midname = request.getParameter("midname");

Patient pat = new Patient();

pat.name=name;

pat.surname=surname;

pat.midname=midname;

patientDAO.Add(pat);

response.sendRedirect("AllPatientServlet");

}

}

// @filename \src\main\java\api\lab1\PatientsServlets\AllPatientServlet.java

package api.lab1.PatientsServlets;

import api.lab.Models.Patient;

import api.lab1.PatientDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

import java.util.List;

@WebServlet(name = "AllPatientServlet", value = "/AllPatientServlet")

public class AllPatientServlet extends PatientServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

listPatient(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void listPatient(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

List<Patient> list = patientDAO.All();

request.setAttribute("listPatient", list);

RequestDispatcher dispatcher = request.getRequestDispatcher("/PatientIndex.jsp");

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\PatientsServlets\DeletePatientServlet.java

package api.lab1.PatientsServlets;

import api.lab.Models.Patient;

import api.lab1.PatientDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.SQLException;

@WebServlet(name = "DeletePatientServlet", value = "/DeletePatientServlet")

public class DeletePatientServlet extends PatientServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

deletePatient(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void deletePatient(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

Integer id = Integer.valueOf(request.getParameter("id"));

Patient pat = new Patient();

pat.id=id;

try{

patientDAO.Delete(pat);

response.sendRedirect("AllPatientServlet");

} catch (SQLException ex){

PrintWriter pw = response.getWriter();

pw.println("<html><body>");

pw.println("<h1>" + ex + "</h1>");

pw.println("</body></html>");

}

}

}

// @filename \src\main\java\api\lab1\PatientsServlets\EditPatientFormServlet.java

package api.lab1.PatientsServlets;

import api.lab.Models.Patient;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "EditPatientFormServlet", value = "/EditPatientFormServlet")

public class EditPatientFormServlet extends PatientServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

showEditForm(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void showEditForm(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

int id = Integer.parseInt(request.getParameter("id"));

Patient pat = patientDAO.Get(id);

RequestDispatcher dispatcher = request.getRequestDispatcher("/PatientForm.jsp");

request.setAttribute("patient", pat);

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\PatientsServlets\NewPatientFormServlet.java

package api.lab1.PatientsServlets;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "NewPatientFormServlet", value = "/NewPatientFormServlet")

public class NewPatientFormServlet extends PatientServlet {

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

try {

showNewForm(request, response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void showNewForm(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException{

RequestDispatcher dispatcher = request.getRequestDispatcher("/PatientForm.jsp");

dispatcher.forward(request,response);

}

}

// @filename \src\main\java\api\lab1\PatientsServlets\PatientServlet.java

package api.lab1.PatientsServlets;

import api.lab1.PatientDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

@WebServlet(name = "PatientServlet", value = "/PatientServlet")

public class PatientServlet extends HttpServlet {

protected PatientDAO patientDAO;

public void init() {

patientDAO = new PatientDAO();

}

}

// @filename \src\main\java\api\lab1\PatientsServlets\UpdatePatientServlet.java

package api.lab1.PatientsServlets;

import api.lab.Models.Patient;

import api.lab1.PatientDAO;

import javax.servlet.\*;

import javax.servlet.http.\*;

import javax.servlet.annotation.\*;

import java.io.IOException;

import java.sql.SQLException;

@WebServlet(name = "UpdatePatientServlet", value = "/UpdatePatientServlet")

public class UpdatePatientServlet extends PatientServlet {

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

request.setCharacterEncoding("UTF-8");

try {

updatePatient(request,response);

} catch (SQLException e) {

e.printStackTrace();

}

}

private void updatePatient(HttpServletRequest request, HttpServletResponse response) throws SQLException, IOException, ServletException {

Integer id = Integer.valueOf(request.getParameter("id"));

String name = request.getParameter("name");

String surname = request.getParameter("surname");

String midname = request.getParameter("midname");

//Date birthday = Date.from(Instant.parse(request.getParameter("birthday")));

Patient pat = new Patient();

pat.id = id;

pat.name = name;

pat.surname=surname;

pat.midname=midname;

patientDAO.Edit(pat);

response.sendRedirect("AllPatientServlet");

}

}

// @filename \src\main\webapp\AppointmentForm.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Doctor Management</h1>

<h2>

<a href="NewAppointmentFormServlet">Add New Book</a>

&nbsp;&nbsp;&nbsp;

<a href="AllAppointmentServlet">List All Books</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<form action="AddAppointmentServlet" method="post">

<th>Врач:</th>

<select size=1 name="id\_doctor" id="iddoc" required="required">

<c:forEach items="${listdocs}" var="category">

<option onclick="changeDoc(${category.id})" value="${category.id}">${category.name}</option>

</c:forEach>

</select>

<th>Пациент:</th>

<select size=1 name="id\_patient" id="idpat" required="required">

<c:forEach items="${listpats}" var="category">

<option onclick="changePat(${category.id})" value="${category.id}">${category.name}</option>

</c:forEach>

</select>

<table border="1" cellpadding="5">

<caption>

<h2>

Add New Appointment

</h2>

</caption>

<tr>

<th>Info: </th>

<td>

<input type="text" name="info" size="45"

/>

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="Save"/>

</td>

</tr>

</table>

</form>

</div>

</body>

</html>

<script>

document.getElementById("iddoc").value = null;

document.getElementById("idpat").value = null;

function changeDoc(data){

document.getElementById("iddoc").value = data;

}

function changePat(data){

document.getElementById("idpat").value = data;

}

</script>

// @filename \src\main\webapp\AppointmentIndex.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Appointments Management</h1>

<h2>

<a href="NewAppointmentFormServlet">Add New Appointment</a>

&nbsp;&nbsp;&nbsp;

<a href="AllAppointmentServlet">List All Appointment</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<table border="1" cellpadding="5">

<caption><h2>List of Appointment</h2></caption>

<tr>

<th>Name Doctor</th>

<th>Name Patient</th>

<th>Info</th>

</tr>

<c:forEach var="app" items="${listApp}">

<tr>

<td><c:out value="${app.doc.name}" /></td>

<td><c:out value="${app.pat.name}" /></td>

<td><c:out value="${app.info}" /></td>

<td>&nbsp;&nbsp;&nbsp;&nbsp;

<a href="DeleteAppointmentServlet?id=<c:out value='${app.id}' />">Delete</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

// @filename \src\main\webapp\DoctorForm.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Doctor Management</h1>

<h2>

<a href="NewDoctorFormServlet">Add New Doctor</a>

&nbsp;&nbsp;&nbsp;

<a href="AllDoctorServlet">List All Doctors</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<c:if test="${doctor != null}">

<form action="UpdateDoctorServlet" method="post">

</c:if>

<c:if test="${doctor == null}">

<form action="AddDoctorServlet" method="post">

</c:if>

<table border="1" cellpadding="5">

<caption>

<h2>

<c:if test="${doctor != null}">

Edit Doctor

</c:if>

<c:if test="${doctor == null}">

Add New Doctor

</c:if>

</h2>

</caption>

<c:if test="${doctor != null}">

<input type="hidden" name="id" value="<c:out value='${doctor.id}' />" />

</c:if>

<tr>

<th>Name: </th>

<td>

<input type="text" name="name" size="45"

value="<c:out value='${doctor.name}' />"

/>

</td>

</tr>

<tr>

<th>Surname: </th>

<td>

<input type="text" name="surname" size="45"

value="<c:out value='${doctor.surname}' />"

/>

</td>

</tr>

<tr>

<th>Middle Name: </th>

<td>

<input type="text" name="midname" size="45"

value="<c:out value='${doctor.midname}' />"

/>

</td>

</tr>

<tr>

<th>Cabinet: </th>

<td>

<input type="number" name="cabinet" size="45"

value="<c:out value='${doctor.cabinet}' />"

/>

</td>

</tr>

<tr>

<th>Speciality: </th>

<td>

<input type="text" name="speciality" size="45"

value="<c:out value='${doctor.speciality}' />"

/>

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="Save" />

</td>

</tr>

</table>

</form>

</div>

</body>

</html>

// @filename \src\main\webapp\DoctorIndex.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Doctors Management</h1>

<h2>

<a href="NewDoctorFormServlet">Add New Doctor</a>

&nbsp;&nbsp;&nbsp;

<a href="AddDoctorServlet">List All Doctor</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<table border="1" cellpadding="5">

<caption><h2>List of Doctors</h2></caption>

<tr>

<th>Name</th>

<th>Surname</th>

<th>Middle Name</th>

<th>Cabinet</th>

<th>Speciality</th>

</tr>

<c:forEach var="doctor" items="${listDoctor}">

<tr>

<td><c:out value="${doctor.name}" /></td>

<td><c:out value="${doctor.surname}" /></td>

<td><c:out value="${doctor.midname}" /></td>

<td><c:out value="${doctor.cabinet}" /></td>

<td><c:out value="${doctor.speciality}" /></td>

<td>

<a href="EditDoctorFormServlet?id=<c:out value='${doctor.id}' />">Edit</a>

&nbsp;&nbsp;&nbsp;&nbsp;

<a href="DeleteDoctorServlet?id=<c:out value='${doctor.id}' />">Delete</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

// @filename \src\main\webapp\index.jsp

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

<!DOCTYPE html>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1><%= "Поликлиника имени плохого кода" %></h1>

<h2>

</h2>

<table border="1" cellpadding="5">

<caption>

<h2>

Main Menu

</h2>

</caption>

<tr>

<td>

<a href="AllAppointmentServlet">Записи к врачу</a>

</td>

<td>

<a href="AllDoctorServlet">Врачи</a>

</td>

<td>

<a href="AllPatientServlet">Пациенты</a>

</td>

</tr>

</center>

</body>

// @filename \src\main\webapp\PatientForm.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Patient Management</h1>

<h2>

<a href="NewFormServlet">Add New Book</a>

&nbsp;&nbsp;&nbsp;

<a href="AllPatientServlet">List All Books</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<c:if test="${patient != null}">

<form action="UpdatePatientServlet" method="post">

</c:if>

<c:if test="${patient == null}">

<form action="AddPatientServlet" method="post">

</c:if>

<table border="1" cellpadding="5">

<caption>

<h2>

<c:if test="${patient != null}">

Edit Patient

</c:if>

<c:if test="${patient == null}">

Add New Patient

</c:if>

</h2>

</caption>

<c:if test="${patient != null}">

<input type="hidden" name="id" value="<c:out value='${patient.id}' />" />

</c:if>

<tr>

<th>Name: </th>

<td>

<input type="text" name="name" size="45"

value="<c:out value='${patient.name}' />"

/>

</td>

</tr>

<tr>

<th>Surname: </th>

<td>

<input type="text" name="surname" size="45"

value="<c:out value='${patient.surname}' />"

/>

</td>

</tr>

<tr>

<th>Middle name: </th>

<td>

<input type="text" name="midname" size="45"

value="<c:out value='${patient.midname}' />"

/>

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="Save" />

</td>

</tr>

</table>

</form>

</div>

</body>

</html>

// @filename \src\main\webapp\PatientIndex.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Patients Management</h1>

<h2>

<a href="NewPatientFormServlet">Add New Patient</a>

&nbsp;&nbsp;&nbsp;

<a href="AllPatientServlet">List All Patient</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<table border="1" cellpadding="5">

<caption><h2>List of Patient</h2></caption>

<tr>

<th>Name</th>

<th>Surname</th>

<th>Middle Name</th>

</tr>

<c:forEach var="patient" items="${listPatient}">

<tr>

<td><c:out value="${patient.name}" /></td>

<td><c:out value="${patient.surname}" /></td>

<td><c:out value="${patient.midname}" /></td>

<td>

<a href="EditPatientFormServlet?id=<c:out value='${patient.id}' />">Edit</a>

&nbsp;&nbsp;&nbsp;&nbsp;

<a href="DeletePatientServlet?id=<c:out value='${patient.id}' />">Delete</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

// @filename \target\Lab1-1.0-SNAPSHOT\AppointmentForm.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Doctor Management</h1>

<h2>

<a href="NewAppointmentFormServlet">Add New Book</a>

&nbsp;&nbsp;&nbsp;

<a href="AllAppointmentServlet">List All Books</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<form action="AddAppointmentServlet" method="post">

<th>Врач:</th>

<select size=1 name="id\_doctor" id="iddoc" required="required">

<c:forEach items="${listdocs}" var="category">

<option onclick="changeDoc(${category.id})" value="${category.id}">${category.name}</option>

</c:forEach>

</select>

<th>Пациент:</th>

<select size=1 name="id\_patient" id="idpat" required="required">

<c:forEach items="${listpats}" var="category">

<option onclick="changePat(${category.id})" value="${category.id}">${category.name}</option>

</c:forEach>

</select>

<table border="1" cellpadding="5">

<caption>

<h2>

Add New Appointment

</h2>

</caption>

<tr>

<th>Info: </th>

<td>

<input type="text" name="info" size="45"

/>

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="Save"/>

</td>

</tr>

</table>

</form>

</div>

</body>

</html>

<script>

document.getElementById("iddoc").value = null;

document.getElementById("idpat").value = null;

function changeDoc(data){

document.getElementById("iddoc").value = data;

}

function changePat(data){

document.getElementById("idpat").value = data;

}

</script>

// @filename \target\Lab1-1.0-SNAPSHOT\AppointmentIndex.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Appointments Management</h1>

<h2>

<a href="NewAppointmentFormServlet">Add New Appointment</a>

&nbsp;&nbsp;&nbsp;

<a href="AllAppointmentServlet">List All Appointment</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<table border="1" cellpadding="5">

<caption><h2>List of Appointment</h2></caption>

<tr>

<th>Name Doctor</th>

<th>Name Patient</th>

<th>Info</th>

</tr>

<c:forEach var="app" items="${listApp}">

<tr>

<td><c:out value="${app.doc.name}" /></td>

<td><c:out value="${app.pat.name}" /></td>

<td><c:out value="${app.info}" /></td>

<td>&nbsp;&nbsp;&nbsp;&nbsp;

<a href="DeleteAppointmentServlet?id=<c:out value='${app.id}' />">Delete</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

// @filename \target\Lab1-1.0-SNAPSHOT\DoctorForm.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Doctor Management</h1>

<h2>

<a href="NewDoctorFormServlet">Add New Doctor</a>

&nbsp;&nbsp;&nbsp;

<a href="AllDoctorServlet">List All Doctors</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<c:if test="${doctor != null}">

<form action="UpdateDoctorServlet" method="post">

</c:if>

<c:if test="${doctor == null}">

<form action="AddDoctorServlet" method="post">

</c:if>

<table border="1" cellpadding="5">

<caption>

<h2>

<c:if test="${doctor != null}">

Edit Doctor

</c:if>

<c:if test="${doctor == null}">

Add New Doctor

</c:if>

</h2>

</caption>

<c:if test="${doctor != null}">

<input type="hidden" name="id" value="<c:out value='${doctor.id}' />" />

</c:if>

<tr>

<th>Name: </th>

<td>

<input type="text" name="name" size="45"

value="<c:out value='${doctor.name}' />"

/>

</td>

</tr>

<tr>

<th>Surname: </th>

<td>

<input type="text" name="surname" size="45"

value="<c:out value='${doctor.surname}' />"

/>

</td>

</tr>

<tr>

<th>Middle Name: </th>

<td>

<input type="text" name="midname" size="45"

value="<c:out value='${doctor.midname}' />"

/>

</td>

</tr>

<tr>

<th>Cabinet: </th>

<td>

<input type="number" name="cabinet" size="45"

value="<c:out value='${doctor.cabinet}' />"

/>

</td>

</tr>

<tr>

<th>Speciality: </th>

<td>

<input type="text" name="speciality" size="45"

value="<c:out value='${doctor.speciality}' />"

/>

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="Save" />

</td>

</tr>

</table>

</form>

</div>

</body>

</html>

// @filename \target\Lab1-1.0-SNAPSHOT\DoctorIndex.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Doctors Management</h1>

<h2>

<a href="NewDoctorFormServlet">Add New Doctor</a>

&nbsp;&nbsp;&nbsp;

<a href="AddDoctorServlet">List All Doctor</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<table border="1" cellpadding="5">

<caption><h2>List of Doctors</h2></caption>

<tr>

<th>Name</th>

<th>Surname</th>

<th>Middle Name</th>

<th>Cabinet</th>

<th>Speciality</th>

</tr>

<c:forEach var="doctor" items="${listDoctor}">

<tr>

<td><c:out value="${doctor.name}" /></td>

<td><c:out value="${doctor.surname}" /></td>

<td><c:out value="${doctor.midname}" /></td>

<td><c:out value="${doctor.cabinet}" /></td>

<td><c:out value="${doctor.speciality}" /></td>

<td>

<a href="EditDoctorFormServlet?id=<c:out value='${doctor.id}' />">Edit</a>

&nbsp;&nbsp;&nbsp;&nbsp;

<a href="DeleteDoctorServlet?id=<c:out value='${doctor.id}' />">Delete</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>

// @filename \target\Lab1-1.0-SNAPSHOT\index.jsp

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

<!DOCTYPE html>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1><%= "Поликлиника имени плохого кода" %></h1>

<h2>

</h2>

<table border="1" cellpadding="5">

<caption>

<h2>

Main Menu

</h2>

</caption>

<tr>

<td>

<a href="AllAppointmentServlet">Записи к врачу</a>

</td>

<td>

<a href="AllDoctorServlet">Врачи</a>

</td>

<td>

<a href="AllPatientServlet">Пациенты</a>

</td>

</tr>

</center>

</body>

// @filename \target\Lab1-1.0-SNAPSHOT\PatientForm.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Patient Management</h1>

<h2>

<a href="NewFormServlet">Add New Book</a>

&nbsp;&nbsp;&nbsp;

<a href="AllPatientServlet">List All Books</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<c:if test="${patient != null}">

<form action="UpdatePatientServlet" method="post">

</c:if>

<c:if test="${patient == null}">

<form action="AddPatientServlet" method="post">

</c:if>

<table border="1" cellpadding="5">

<caption>

<h2>

<c:if test="${patient != null}">

Edit Patient

</c:if>

<c:if test="${patient == null}">

Add New Patient

</c:if>

</h2>

</caption>

<c:if test="${patient != null}">

<input type="hidden" name="id" value="<c:out value='${patient.id}' />" />

</c:if>

<tr>

<th>Name: </th>

<td>

<input type="text" name="name" size="45"

value="<c:out value='${patient.name}' />"

/>

</td>

</tr>

<tr>

<th>Surname: </th>

<td>

<input type="text" name="surname" size="45"

value="<c:out value='${patient.surname}' />"

/>

</td>

</tr>

<tr>

<th>Middle name: </th>

<td>

<input type="text" name="midname" size="45"

value="<c:out value='${patient.midname}' />"

/>

</td>

</tr>

<tr>

<td colspan="2" align="center">

<input type="submit" value="Save" />

</td>

</tr>

</table>

</form>

</div>

</body>

</html>

// @filename \target\Lab1-1.0-SNAPSHOT\PatientIndex.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8"

pageEncoding="UTF-8"%>

<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>

<html>

<head>

<title>Pharmacy Application</title>

</head>

<body>

<center>

<h1>Patients Management</h1>

<h2>

<a href="NewPatientFormServlet">Add New Patient</a>

&nbsp;&nbsp;&nbsp;

<a href="AllPatientServlet">List All Patient</a>

&nbsp;

<a href="index.jsp">Main menu</a>

</h2>

</center>

<div align="center">

<table border="1" cellpadding="5">

<caption><h2>List of Patient</h2></caption>

<tr>

<th>Name</th>

<th>Surname</th>

<th>Middle Name</th>

</tr>

<c:forEach var="patient" items="${listPatient}">

<tr>

<td><c:out value="${patient.name}" /></td>

<td><c:out value="${patient.surname}" /></td>

<td><c:out value="${patient.midname}" /></td>

<td>

<a href="EditPatientFormServlet?id=<c:out value='${patient.id}' />">Edit</a>

&nbsp;&nbsp;&nbsp;&nbsp;

<a href="DeletePatientServlet?id=<c:out value='${patient.id}' />">Delete</a>

</td>

</tr>

</c:forEach>

</table>

</div>

</body>

</html>