

```

/*****
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Dentist Project
CIST2373
*****/
package Servlets;

import Business.Patient;
import Business.Appointments;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

@WebServlet(name = "patientUpdate", urlPatterns = {
    "/patientUpdate"
})
/*****
 * Directs from updatePatient.jsp. Retrieves data from entry fields and updates
 * Patient info in database. Will also direct from createAppointment.jsp to store
 * new appointment data into Appointments table.
 *****/
public class patientUpdate extends HttpServlet
{
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException, SQLException, ClassNotFoundException
    {
        /*****
         * DRIVER STEPS
         *****/
        //Load Driver - Step #1

        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
        //Get Connection from the Driver - Step #2
        Connection con;
        con=DriverManager.getConnection("jdbc:ucanaccess://C:/Users/kerds/OneDrive/School/Java3/Dentist/DentistOfficeMDB.mdb");
        //Create a Statement - Step #3
        Statement stmt = con.createStatement();
        //Execute Statement - Step #4
        String dentSQL = ("select * from Patients");
        System.out.println("The SQL statement is: " + dentSQL + "\n"); // Echo For debugging
        ResultSet drs = stmt.executeQuery(dentSQL);
        //Process through the Data - Step #5
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();

        //END DRIVER STATMENTS

        //Put Object in session
        HttpSession session;
        session = request.getSession(); // Retrieves session
        Object pid = session.getAttribute("patID");
        String patId = (String) pid;
        Patient p1;
        p1 = new Patient();
        p1.selectDB(patId);
        p1.display();

        //Gets input from input boxes(update patient)

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String fn = request.getParameter("firstName");
String ln = request.getParameter("lastName");
String em = request.getParameter("email");
String ad = request.getParameter("addr");
//Gets input from dropdown menu (create appointment)
String pro = request.getParameter("procedure");
String dt = request.getParameter("dateTime");
String di = request.getParameter("dentist");
System.out.println(dt + " " + pl.getPatientID() + " " + di + " " + pro);

//Sets input as long as field is not empty
if (fn != null && !fn.isEmpty()) {
    pl.setPatientFirstName(fn);
}
if (ln != null && !ln.isEmpty()) {
    pl.setPatientLastName(ln);
}
if (em != null && !em.isEmpty()) {
    pl.setEmail(em);
}
if (ad != null && !ad.isEmpty()) {
    pl.setAddress(ad);
}
/* if (pro != null && !pro.isEmpty()) {
    pl.app.setProcCode(pro);
}
if (dt != null && !dt.isEmpty()) {
    pl.app.setAptDT(dt);
}
if (di != null && !di.isEmpty()) {
    pl.app.setDentId(di);
}*/

pl.updateDB();
System.out.println(dt);
if(dt != null)
{
    pl.app.insertDB(dt, pl.getPatientID(), di, pro); // Updates Appointment table
}

System.out.println(fn);

{
    RequestDispatcher rd = request.getRequestDispatcher("/index.jsp");
    rd.forward(request, response);
}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException
{
    try
    {
        processRequest(request, response);
    } catch (SQLException ex)
    {
        Logger.getLogger(patientUpdate.class.getName()).log(Level.SEVERE, null, ex);
    } catch (ClassNotFoundException ex)
    {
        Logger.getLogger(patientUpdate.class.getName()).log(Level.SEVERE, null, ex);
    }
}
}

```

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/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException
{
    try
    {
        processRequest(request, response);
    } catch (SQLException ex)
    {
        Logger.getLogger(patientUpdate.class.getName()).log(Level.SEVERE, null, ex);
    } catch (ClassNotFoundException ex)
    {
        Logger.getLogger(patientUpdate.class.getName()).log(Level.SEVERE, null, ex);
    }
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo()
{
    return "Short description";
} // </editor-fold>
```