C:/Users/kerds/OneDrive/School/Java3/Dentist/DentistApp/src/java/Servlets/loginServlet.java

```
package Servlets;
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Dentist Project
CIST2373
import Business.Dentist;
import Business.Patient;
import Business.Procedures;
import Business.Appointments;
import Business.AppointmentList;
import java.io.IOException;
import java.io.PrintWriter;
import java.sgl.Connection;
import java.sgl.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.RequestDispatcher;
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(urlPatterns =
   "/loginServlet'
***************
* Main login servlet. Directs from index.jsp. Index stores id and password, gets retrieved in loginServlet.
  Servlet will check if first character identifies a patient or dentists. It will verify the password from the
  correct table and direct to displayDentist or displayPatient. Data from selected db will be stored in session.
************************
public class loginServlet extends HttpServlet
   protected void processRequest (HttpServletRequest request, HttpServletResponse response)
          throws ServletException, IOException
       /********
        * DRIVER STEPS
        *********
                 //Load Driver - Step #1
               try {
                  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 Dentists");
                  String patSQL = ("select * from Patients");
                  String procSQL = ("select * from Procedures");
                  ResultSet drs = stmt.executeQuery(dentSQL);
                  ResultSet prs = stmt.executeQuery(patSQL);
               //Process through the Data - Step #5
                 response.setContentType("text/html;charset=UTF-8");
                  PrintWriter out = response.getWriter();
       //END DRIVER STATMENTS
       /***RECEIVE AND PROCESS ID and PASSWORD INPUT****/
       String id = (request.getParameter("userID"));
                                                        //Stores input from index:userID field
       String pw = request.getParameter("passWord");
                                                        //Stores input from index:passWord field
                                                        //stores first character to later check if patient or dentist
       char patientOrDentist = id.charAt(0);
       String pod=Character.toString(patientOrDentist);
       //Put Object in session
       HttpSession session;
       session = request.getSession();
```

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```
a1 = new Appointments();
   AppointmentList aList = new AppointmentList();
   System.out.println("UserID: " + id + ", User Password: " + pw);
   if (pod.equals("d") || (pod.equals("D"))){
       Dentist d1;
       d1 = new Dentist();
       d1.selectDB(id);
       //System.out.println(d1.bList.count);
       //dl.getAppointments(id);
           session.setAttribute("d1", d1);
           session.setAttribute("dList", d1.bList);
           session.setAttribute("id", d1.getDentistID());
           System.out.println("Dentist " + d1 + " added to session");
       if (pw.equals(d1.getDentistPassword()))
           RequestDispatcher rd = request.getRequestDispatcher("/displayDentist.jsp"); //If password is correct, go to displayDentist.jsp page
           rd.forward(request, response);
           RequestDispatcher rd = request.getRequestDispatcher("/error.jsp");
                                                                                   //If password is wrong, display error.jsp page
           rd.forward(request, response);
   else if (pod.equals("a") || (pod.equals("A")))
       Patient p1;
       p1 = new Patient();
       p1.selectDB(id);
       p1.display();
       al.selectDB(id);
           session.setAttribute("a1", a1);
           session.setAttribute("proc1", p1);
           session.setAttribute("p1", p1);
           session.setAttribute("id", p1.getPatientID());
           if (pw.equals(p1.getPatientPassword()))
           RequestDispatcher rd = request.getRequestDispatcher("/displayPatient.jsp"); //If password is correct, go to displayPatient.jsp page
           rd.forward(request, response);
           else
           RequestDispatcher rd = request.getRequestDispatcher("/error.jsp");
                                                                                   //If password is wrong, display error.jsp page
           rd.forward(request, response);
               catch(Exception se) // Ends from Driver steps
                   System.out.println(se);
// <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
   processRequest (request, response);
 * Handles the HTTP <code>POST</code> method.
```

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