```
/********
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Dentist Project
CIST2373
********/

package Servlets;

import Business.Dentist;
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 = "dentistUpdate", urlPatterns =
{
    "/dentistUpdate"
})

/****************************************************************
 *  Directs from updateDentist.jsp when update button is selected
 *  Retrieves data from text fields and updates in db when update is
 *  selected. Directs back to index.jsp when done.
 ****************************************************************/
public class dentistUpdate 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 Dentists");
                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
        //System.out.println(session.getAttribute("dentID"));
        Object did = session.getAttribute("dentID");
        String dentId = (String) did;
        Dentist d1;
        d1 = new Dentist();
        d1.selectDB(dentId);
        d1.display();
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        String fn = request.getParameter("firstName");
        String ln = request.getParameter("lastName");
        String em = request.getParameter("email");
        if (fn != null && !fn.isEmpty()) {
            d1.setDentistFirstName(fn);
        }
        if (ln != null && !ln.isEmpty()) {
            d1.setDentistLastName(ln);

        }
        if (em != null && !em.isEmpty()) {
            d1.setEmail(em);
        }
        d1.updateDB();
        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(dentistUpdate.class.getName()).log(Level.SEVERE, null, ex);
        } catch (ClassNotFoundException ex)
        {
            Logger.getLogger(dentistUpdate.class.getName()).log(Level.SEVERE, null, ex);
        }
    }

    /**
     * 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(dentistUpdate.class.getName()).log(Level.SEVERE, null, ex);
        } catch (ClassNotFoundException ex)
        {
            Logger.getLogger(dentistUpdate.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>

}
```