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Dentist Project
CIST2373
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import java.sql.*;
******************
* The Patient Class communicates with the Patient table of the database
oublic class Patient
   private String patId, password, firstName, lastName, address, email, insurance, desc;
  public AppointmentList aList = new AppointmentList();
  public Appointments app = new Appointments();
   public Patient()
      patId = "";
     password = "";
      firstName = "";
     lastName = "";
      address = "";
      email = "";
  public Patient(String patId, String password, String firstName, String lastName, String address, String email, String insurance)
      this.patId = patId;
      this.password = password;
      this.firstName = firstName;
      this.lastName = lastName;
      this.address = address;
      this.email = email;
      this.insurance = insurance;
   /************************************/
  public void setPatientID(String pid){patId=pid;}
  public String getPatientID() {return patId; }
  public void setPatientPassword(String pw){password=pw;}
  public String getPatientPassword(){return password;}
  public void setPatientFirstName(String fn){firstName=fn;}
  public String getPatientFirstName(){return firstName;}
  public void setPatientLastName(String ln){lastName = ln; }
  public String getPatientLastName() {return lastName; }
  public void setAddress(String addr) {address = addr; }
  public String getAddress() {return address; }
  public void setEmail(String em){email = em; }
  public String getEmail() {return email; }
  public void setInsurance(String ins){insurance = ins; }
  public String getInsurance() {return insurance;}
  public void setPatDesc(String des) {desc = des; }
  public String getPatDesc() {return desc;}
   /******DB Behaviors**************/
******************
^{\star} Search the Patients table in the db. The string argument will filter by patient id.
^{\star} Appointment data will be stored from appointment class method selectDB().
public void selectDB(String i)
         try
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//Load Driver - Step #1
              Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
          //Get Connection from the Driver - Step \#2
             Connection c1;
              \verb|cl=DriverManager.getConnection("jdbc:ucanaccess://C:/Users/kerds/OneDrive/School/Java3/Dentist/DentistOfficeMDB.mdb"); \\
          //Create a Statement - Step #3
             Statement stmt = c1.createStatement();
             ResultSet rs = stmt.executeQuery("Select * from Patients where patId = '" + i + "'");
          rs.next();
          patId = rs.getString(6);
          password = rs.getString(7);
          firstName = rs.getString(1);
          lastName = rs.getString(2);
          address = rs.getString(3);
          email = rs.getString(4);
          insurance = rs.getString(5);
          app.selectDB(i);
          desc = app.pr1.getProcDesc();
              catch(Exception se)
              System.out.println(se);
      } //end selectDB()
*******************
* Create a database entry for a new Dentist in db Patient table
oublic void insertDB(String id, String pw, String fn, String ln, String addr, String em, String ins){
      setPatientPassword(pw);
      setPatientFirstName(fn);
      setPatientLastName(ln);
      setAddress(addr);
      setEmail(em):
      setInsurance(ins);
      this.patId = id;
      this.password = pw;
      this.firstName = fn;
      this.lastName = ln;
      this.address = addr;
      this.email = em;
      this.insurance = ins;
          Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
          \texttt{Connection con = DriverManager.getConnection("jdbc:ucanaccess://C:/Users/kerds/OneDrive/School/Java3/Dentist/DentistOfficeMDB.mdb")} \\
          Statement stmt = con.createStatement();
          String sql = "Insert into Patients values('"+getPatientFirstName()+"',"+
                                                   "'"+getPatientLastName()+"',"+
                                                  "'"+getAddress()+"',"+
                                                  "'"+getEmail()+"',"+
                                                   "'"+getInsurance()+"',"+
                                                   "'"+getPatientID()+"',"+
                                                  "'"+getPatientPassword()+"')";
          System.out.println(sql);
          int n1 = stmt.executeUpdate(sql);
             System.out.println("INSERT Successful!!!");
             System.out.println("INSERT FAILED********");
          con.close();
      catch(Exception e1) {
          System.out.println(e1);
   }//end insertDB()
```

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* Update an existing dentist entry in db Patient table
public void updateDB(){
     try{
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
         Statement stmt = con.createStatement();
         String sql = "update Patients set firstName = '"+getPatientFirstName() + "',"+
                                    " lastName ='"+getPatientLastName()+"',"+
                                    " addr ='"+getAddress() +"',"+
                                    " email = '"+getEmail()+"',"+
                                    " insCo ='"+getInsurance()+"',"-
                                     " passwd = '"+getPatientPassword() +"'"+
                                     " where patId='"+getPatientID()+"'";
         System.out.println(sql);
         int n = stmt.executeUpdate(sql);
         if (n==1)
            System.out.println("UPDATE Successful!!!");
            System.out.println("UPDATE FAILED********");
         con.close();
     catch(Exception e1) {
         System.out.println(e1);
  }//end updateDB()
**********************
* Displays Patient info to console
public void display()
     System.out.println("Patient ID = " + getPatientID());
     System.out.println("Patient Password = " +getPatientPassword());
     System.out.println("Patient Name = " + getPatientFirstName() + " " + getPatientLastName());
     System.out.println("Email = " + getEmail());
System.out.println("Address = " + getAddress());
     System.out.println("Insurance = " + getInsurance());
****************
* Deletes existing entry in Patient table in db
try{
         Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
         \texttt{Connection con = DriverManager.getConnection("jdbc:ucanaccess://C:/Users/kerds/OneDrive/School/Java3/Dentist/DentistOfficeMDB.mdb")} \\
         Statement stmt = con.createStatement();
         String sql = "Delete from Patients where patId='"+getPatientID()+"'";
         System.out.println(sql);
         int n = stmt.executeUpdate(sql);
         if (n==1)
            System.out.println("DELETE Successful!!!");
           System.out.println("DELETE FAILED********");
         con.close();
      catch(Exception e1) {
         System.out.println(e1);
     }//end deleteDB()
     public static void main(String args[]) {
         //Patient p1;
         //p1 = new Patient();
          //p1.selectDB("A906");
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//pl.app.prl.display();
          /***********Select and Display test**********/
          //Patient p1;
          //p1 = new Patient();
          //p1.selectDB("A900");
          //p1.display();
          /*************Insert test***********/
          //Patient p2;
          //p2 = new Patient();
          //p2.insertDB("A912", "4323", "Shawn", "Embry", "Woodstock", "ShawnEmbry@mail.com", "CareSource");
          /****************************/
          //Patient p3 = new Patient();
          //p3.selectDB("A912");
          //p3.setPatientLastName("Jones");
          //p3.setPatientFirstName("Shawn");
          //p3.setPatientPassword("1234");
          //p3.updateDB();
          //p3.display();
          /*********Delete test**********/
          //Patient p4 = new Patient();
//p4.selectDB("A912");
          //p4.deleteDB();
//End of Patients Class
```