```java
1    /*
2    Oracle Orphan Hospital
3    A project on Hospital management System using Java and Mysql.
4
5    Oracle Orphan Hospital , an example of how effectively Java and mysql can be used to
     create a hospital management system,
6    which can be very easily used and enhanced using java in the long run.
7
8    Oracle Academy Core Java Project(Winter 2016)- IT090(NIIT IDcard number)
9
10   This project is made by
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12   Techno india Salt lake 1st year.
13    */
14   import java.io.*;                    //importing required libraries
15   import java.sql.*;
16   import java.util.*;
17   import java.time.LocalDateTime;
18   import java.text.DateFormat;
19   import java.text.SimpleDateFormat;
20   import java.time.LocalDateTime;
21   import java.time.format.DateTimeFormatter;
22   import java.util.Calendar;
23   import java.util.Date;
24
25   public class oohosp          //class file of this project(parent class)
26   {
27
28
29       public void homepage() throws IOException          //homepage method
30       {
31           System.out.println("           Oracle Orphan Hospital");
32           System.out.println("           ------------------------");
33           System.out.println("Welcome Visitor!");
34           System.out.println("Please choose any one of the options by pressing the
             number.");
35           System.out.println("1.Patient's portal- Register or view previous
             appointments.");
36           System.out.println("2.Emergency");
37           System.out.println("3.About Us");
38           System.out.println("4.Doctor's portal");
39           BufferedReader in= new BufferedReader(new InputStreamReader(System.in));
             //Getting input through commandline
40           int homeoption=Integer.parseInt(in.readLine());
             //Storing the string as an Integer
41
42           switch(homeoption)                          //Switch case on input by the user
43           {
44               case 1:
45               { oohosp app = new oohosp();         //creating object of the parent class
46                 app.appointment();                  //calling the appointment method
47               }
48               break;
49               case 2:
50               { System.out.println("Please call on these numbers");
51                 System.out.println("Oracle Orphan Hospital Toll free number xxxx xxxx
                 xxxx ");
52                 System.out.println("All India Child helpline number xxxx xxxx xxxx ");
53                 System.out.println("All India Women helpline number xxxx xxxx xxxx ");
54               }
55               break;
56               case 3:
57               {
58               System.out.println("Oracle Orphan Hospital , is non profit organisation
                 which heals and takes care of");
59                 System.out.println("those orphans who are stranded, and are not able to
                 cure themselves, free of cost.");
60                 System.out.println("So next time you see an orphan asking for money or
                 ill. Do drop a call, so that we");
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                System.out.println("can help the needy. Come join the Revolution. Help
                    the needy, He will help you. Always.");
                System.out.println("We at OOH will try our best to save our fellow
                    citizens, the future of this world. ");
                System.out.println("This Hospital is 24 hours open. Do not hesitate to
                    reach us, your one sensitive call can help millions.");
            }
            break;
            case 4:
            { oohosp docp= new oohosp();
              docp.doctorsportal();
            }

            break;
            default:
            {
                System.out.println("To continue you must press a valid option");
            }
        }
        }

    public void appointment() throws IOException        //appointment method
    {

        System.out.println("Please select one option");
        System.out.println("1.Old Patients");
        System.out.println("2.New Patients");
        BufferedReader in= new BufferedReader(new InputStreamReader(System.in));
        int app=Integer.parseInt(in.readLine());


        switch(app)                                     //switch case on app(user input)
        {
            case 1:
            {
                oohosp oldo = new oohosp();              //creating object oldo of
                parent class
                oldo.oldpatients();                      //calling oldpatients method
                on oldo
            }
            break;

            case 2:
            {
                oohosp newo = new oohosp();        //creating object newo
                newo.newpatients();                //calling newpatients method on object
                newo
            }
            break;
            default:
            {
                System.out.println("To continue you must press a valid option");
            }
        }
    }

    public void doctorsportal() throws IOException     //doctorsportal method
    {
        System.out.println("Please choose any one of the options by pressing the
        number.");
        System.out.println("1.Register New");
        System.out.println("2.Login with your UniqueID");
        System.out.println("3.Available for Emergency Services");
        BufferedReader in= new BufferedReader(new InputStreamReader(System.in));
        int docs=Integer.parseInt(in.readLine());

        switch(docs)                           //switch case on variable docs(user input)
        {
            case 1:
```

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123            {
124                oohosp newdoc= new oohosp();            //creating object of the
                   parentclass
125                newdoc.newdocportal();                  // calling the newdocportal
                   method on newdoc object
126
127            }
128            break;
129            case 2:
130            {
131                oohosp olddoc= new oohosp();            //creating object olddoc of
                   parentclass
132                olddoc.olddocportal();                  //calling method olddocpotal on
                   object olddoc
133            }
134            break;
135            case 3:
136            {
137                System.out.println(" Please visit the homepage to get the emergency
                   numbers");
138            }
139            break;
140            default:
141            {
142                System.out.println("To continue you must press a valid option");
143            }
144        }
145    }
146
147
148    public void olddocportal() throws IOException      //olddocportal method
149    {
150            System.out.println("Please select anyone of the below by pressing the
               number");
151            System.out.println("1.See your Details");
152            System.out.println("2.See Patients Details");
153            BufferedReader asw1= new BufferedReader(new InputStreamReader(System.in));
154                int docch=Integer.parseInt(asw1.readLine());
155
156                switch(docch)                    //switch case on docch(user input)
157                {
158                    case 1:
159                    {
160                        try
161                        {
162
                                Class.forName("com.mysql.jdbc.Driver");
                                                                //calling the
                                driver to connect the mysql database
163                                Connection
                                doc1=DriverManager.getConnection("jdbc:mysql://localhost:3306
                                /doctors","root","kaushik");      //connecting the database
                                with java using username and password with databse patients
164                                System.out.println("Please Enter UniqueIDNumber");
165                                BufferedReader as1= new BufferedReader(new
                                InputStreamReader(System.in));
166                                int doid=Integer.parseInt(as1.readLine());
167                                Statement stmtd1=doc1.createStatement();   //creating
                                ststement inside doc1 connection
168                                String sqld1;
169                                sqld1="select* from doctorsdirectory where
                                UniqueIDNumber='"+doid+"'"; //Mysql commands query
170                                ResultSet rsd1=stmtd1.executeQuery(sqld1); //method used to
                                execute query
171                            while(rsd1.next())
172                                System.out.println("Dr."+rsd1.getString(1)+" ,a
                                "+rsd1.getString(5)+" ,who is "+rsd1.getInt(2)+" years old
                                has "+rsd1.getString(3)+" number "+rsd1.getInt(4)+" has
                                registered as a doctor with OOH on "+rsd1.getString(8)+" He
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                                is "+rsd1.getString(6)+" in "+rsd1.getString(7));
173                            doc1.close();    //connection closed
174                        }
175                        catch(Exception e)    //Exception handling for mysqql exceptions
176                        {
177                        System.out.println(e);
178                        }
179                    }
180                    break;
181                    case 2:
182                    {
183                        try
184                        {
185                            Class.forName("com.mysql.jdbc.Driver");
186                            Connection
                            doc2=DriverManager.getConnection("jdbc:mysql://localhost:3306
                            /patients","root","kaushik"); //connecting the databse
                            patients
187                            System.out.println("Please Enter Unique PatientsIDNumber");
188                            Statement stmtd2=doc2.createStatement();
189                            String sqld2;
190                            sqld2="select* from patientsdirectory";
191                            ResultSet rsd2=stmtd2.executeQuery(sqld2);
192                        while(rsd2.next())
193                            System.out.println("Patient "+rsd2.getString(1)+" ,a
                            "+rsd2.getString(5)+" ,who is "+rsd2.getInt(2)+" years old
                            has "+rsd2.getString(3)+" number "+rsd2.getInt(4)+" has
                            registered an appointment for "+rsd2.getString(7)+" on
                            "+rsd2.getString(6)+" for "+rsd2.getString(8));
194                            doc2.close();
195                        }
196                        catch(Exception e)                    //exception handling (mysql)
197                        {
198                            System.out.println(e);
199                        }
200                    }
201                    break;
202                    default:
203                        {
204                        System.out.println("To continue you must press a valid option");
205                        }

207                }
208        }


211    public void newdocportal() throws IOException        //new docportal method
212    {
213            try
214            {
215            Class.forName("com.mysql.jdbc.Driver");                //driver for
                connection called
216            Connection
                doc3=DriverManager.getConnection("jdbc:mysql://localhost:3306/doctors","r
                oot","kaushik"); //new connection esablished with database doctors
217
218            System.out.println("Please your Name");    //taking inputs to feef
                into mysql table
219            BufferedReader p1= new BufferedReader(new InputStreamReader(System.in));
220            String dname=p1.readLine();
221
222            System.out.println("Please Enter your age");
223            BufferedReader p2= new BufferedReader(new InputStreamReader(System.in));
224            int dage=Integer.parseInt(p2.readLine());
225
226            System.out.println("Unique ID
                Type(VoterID/Passport/AadharCard/DrivingLicence)");
227            BufferedReader p3= new BufferedReader(new InputStreamReader(System.in));
228            String did=p3.readLine();
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229
230                     System.out.println("Enter UniqueID number(Less than or equal to 11
                        digits)");
231                     BufferedReader p4= new BufferedReader(new InputStreamReader(System.in));
232                     int didn=Integer.parseInt(p4.readLine());
233
234                     System.out.println("Enter your gender(M/F/O)");
235                     BufferedReader p5= new BufferedReader(new InputStreamReader(System.in));
236                     String genderd=p5.readLine();
237
238                     DateTimeFormatter dtf1 = DateTimeFormatter.ofPattern("yyyy-MM-dd
                        HH:mm:ss");   //object dtf1 defined
239                     LocalDateTime now = LocalDateTime.now();    //gives local time of the
                        computer
240
241
242                     System.out.println("Enter the field you want to specialise in");
243                     BufferedReader p6= new BufferedReader(new InputStreamReader(System.in));
244                     String special=p6.readLine();
245
246                     System.out.println("Enter your highest Qualification");
247                     BufferedReader p13=new BufferedReader(new InputStreamReader(System.in));
248                     String qual=p13.readLine();
249
250                     Statement stmtd3=doc3.createStatement();  //statement created under doc
                        3 connection
251                     String sqld3;
252                     sqld3="insert into doctorsdirectory
                        values('"+dname+"','"+dage+"','"+did+"',"+didn+"','"+genderd+"','"+qual+"'
                        ,'"+special+"','"+dtf1.format(now)+"')";
253                     stmtd3.executeUpdate(sqld3);  //executeupdate method to update the data
                        in the mysql database
254
255                     System.out.println("Succesfully registered details"); //confirmation of
                        successful entries
256                     System.out.println("Welcome Dr. "+dname+" You have successfully
                        registered on "+dtf1.format(now)+".Please get yourself verified before
                        practising.");
257                     doc3.close();  //connection closed
258                     }
259             catch(Exception f)   //exception handled
260                     {
261                     System.out.println(f);
262                     }
263     }
264
265     public void oldpatients() throws IOException    //oldpatients method defined
266     {
267             try
268             {
269             Class.forName("com.mysql.jdbc.Driver");  //driver called to connect
270             Connection
                pat1=DriverManager.getConnection("jdbc:mysql://localhost:3306/patients","
                root","kaushik");        //new connection defined with patients database
271             System.out.println("Please Enter Unique PatientsIDNumber");
272             BufferedReader as= new BufferedReader(new InputStreamReader(System.in));
273             int paid=Integer.parseInt(as.readLine());
274             Statement stmtp1=pat1.createStatement(); //statement create in the
                connection
275             String sqlp1;
276             sqlp1="select* from patientsdirectory where
                PatientsIDNumber='"+paid+"'";    //query to get the desired result
277             ResultSet rsp1=stmtp1.executeQuery(sqlp1);
278         while(rsp1.next())
279             System.out.println("Patient "+rsp1.getString(1)+" ,a
                "+rsp1.getString(5)+" ,who is "+rsp1.getInt(2)+" years old has
                "+rsp1.getString(3)+" number "+rsp1.getInt(4)+" has registered an
                appointment for "+rsp1.getString(7)+" on "+rsp1.getString(6)+" for
                "+rsp1.getString(8));
```

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280                              pat1.close();  //connection closed
281                              }
282                      catch(Exception e)              //exception handled
283                              {
284                              System.out.println(e);
285                              }
286              }
287
288       public void newpatients()      //newpatients method defined
289        {
290                      try
291                              {
292                              Class.forName("com.mysql.jdbc.Driver");       //driver called to
                                connect mysql with java
293                              Connection
                                pat2=DriverManager.getConnection("jdbc:mysql://localhost:3306/patients","
                                root","kaushik");   //connection established with the databse patients
294
295                              System.out.println("Please Enter Name of the patient");
296                              BufferedReader p1= new BufferedReader(new
                                InputStreamReader(System.in));  //taking inputs to feed in the database
297                              String pname=p1.readLine();
298
299                              System.out.println("Please Enter Age of the Patient");
300                              BufferedReader p2= new BufferedReader(new InputStreamReader(System.in));
301                              int page=Integer.parseInt(p2.readLine());
302
303                              System.out.println("Unique ID Type of the
                                patient(VoterID/Passport/Aadhar Card/Driving Licence)");
304                              BufferedReader p3= new BufferedReader(new InputStreamReader(System.in));
305                              String pid=p3.readLine();
306
307                              System.out.println("Enter UniqueID number(Less than or equal to 11
                                digits)");
308                              BufferedReader p4= new BufferedReader(new InputStreamReader(System.in));
309                              int pidn=Integer.parseInt(p4.readLine());
310
311                              System.out.println("Enter Gender of the patient in one letter
                                only(M/F/O)");
312                              BufferedReader p5= new BufferedReader(new InputStreamReader(System.in));
313                              String gender=p5.readLine();
314
315                              DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy-MM-dd
                                HH:mm:ss"); //object dtf for date timeformatting
316                              LocalDateTime now = LocalDateTime.now();
                                //Local time method
317                              //System.out.println(dtf.format(now)); //2016/11/16 12:08:43
318
319                              System.out.println("Enter Desired Appointment Date in YYYY-MM-DD
                                hh:mm:ss format as asked");
320                              BufferedReader p6= new BufferedReader(new InputStreamReader(System.in));
321                              String adate=p6.readLine();
322
323                              System.out.println("Please Input below your need for appointment(keep
                                it short)");
324                              BufferedReader p13=new BufferedReader(new InputStreamReader(System.in));
325                              String bproblem=p13.readLine();
326
327                              Statement stmtp2=pat2.createStatement();   //statement created under
                                the connection
328                              String sqlp2;
329                              sqlp2="insert into patientsdirectory
                                values('"+pname+"','"+page+"','"+pid+"',"+pidn+",'"+gender+"','"+dtf.form
                                at(now)+"','"+adate+"','"+bproblem+"')";  //patientsdirectory table
                                modified
330                              stmtp2.executeUpdate(sqlp2);
331
332                              System.out.println("Succesfully registered details");  //confirmation
                                on registration
```

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333                    System.out.println("Hey "+pname+" You have appointment on "+adate+" Use
                       your uniqueID to know details in the old patients option." );
334                    pat2.close();  //connection closed
335                    }
336              catch(Exception f)        //Exception handled
337                    {
338                    System.out.println(f);
339                    }
340        }
341     public static void main(String args[]) throws IOException        //main function
342        {
343
344                oohosp home = new oohosp();                //home object created under
                    parent class
345                home.homepage();                          // homepage method called
346
347
348        }
349
350   }
351
352
353
354
```