USER CLASS:

```
package org.model;

public class User {
	private String username;
	private String password;

	public String getUsername() {
		return username;
	}

	public void setUsername(String username) {
		this.username = username;
	}

	public String getPassword() {
		return password;
	}

	public void setPassword(String password) {
		this.password = password;
	}

	public User(String username, String password) {
		super();
		this.username = username;
		this.password = password;
	}

	public User() {
		super();
	}

}
```

DB CLASS

```
package org.util;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class Db {
	public static Connection getConn() throws ClassNotFoundException,
SQLException {
		if (connection == null) {
			Class.forName("com.mysql.jdbc.Driver");
			connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root", " ");
		}
		return connection;
	}

	private static Connection connection = null;

}
```

DETAILS CLASS

```
package org.model;

public class Details {
	private Integer id;
	private String firstname;
	private String lastname;
	private double phono;

	public Integer getId() {
		return id;
	}

	public void setId(Integer id) {
		this.id = id;
	}

	public String getFirstname() {
		return firstname;
	}

	public void setFirstname(String firstname) {
		this.firstname = firstname;
	}

	public String getLastname() {
		return lastname;
	}

	public void setLastname(String lastname) {
		this.lastname = lastname;
	}

	public double getPhono() {
		return phono;
	}

	public void setPhono(double phono) {
		this.phono = phono;
	}

	public Details(Integer id, String firstname,String
lastname,double phono) {
		super();
		this.id = id;
		this.firstname =firstname;
		this.lastname = lastname;
		this.phono=phono;
	}

	public Details() {
		super();
	}
```

```
}
```

AUTHENTICATION CLASS

```
package org.main;

import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import org.model.User;
import org.util.Db;

public class Authentication {
	public static boolean check(User user) throws ClassNotFoundException,
SQLException {
		boolean status = false;
		Connection con = Db.getConn();
		Statement stmt = con.createStatement();
		ResultSet rs = stmt.executeQuery("select * from user_details"
				+ " where username='" + user.getUsername()
				+ "' and password='" + user.getPassword() + "'");
		if(rs.next()) {
			status = true;
		}
		rs.close();
		stmt.close();
		return status;
	}
}
```

DBDEAILS CLASS

```
package org.main;

import java.sql.Connection;
import java.sql.SQLException;
import java.sql.Statement;

import org.model.Details;
import org.util.Db;

public class Dbdetails {
	public static void delete(Integer id) throws ClassNotFoundException,
SQLException {
```

```
            Connection con = Db.getConn();
            Statement stmt = con.createStatement();
            String query = "delete from phone_tbl where id = " + id;
            int count = stmt.executeUpdate(query);
            if(count > 0)
                  System.out.println("Item removed");
            else
                  System.out.println("Item Not found with this id #" + id);
            stmt.close();
      }
      public static void insert(Details details) throws
ClassNotFoundException, SQLException {
            Connection con = Db.getConn();
            Statement stmt = con.createStatement();
            String query = "insert into phone_tbl values(" + details.getId()
+ ", '" + details.getFirstname() + "', " + details.getLastname()+ "', " +
details.getPhono()
                        +")";
            stmt.executeUpdate(query);
            System.out.println("Values Inserted");
            stmt.close();
      }
}
```

SOLUTION CLASS

```
package org.main;

import java.io.BufferedReader;
import java.io.Console;
import java.io.IOException;
import java.io.InputStreamReader;
import java.sql.SQLException;

import org.model.Details;
import org.model.User;

public class Solution {

      public static void main(String[] args) throws IOException {
            BufferedReader cons = new BufferedReader(new
InputStreamReader(System.in));
            System.out.print("Username :");
            String username = cons.readLine();
            System.out.print("Password :");
            String password = cons.readLine();
            User user = new User(username, password);
            try {
                  if (Authentication.check(user)) {
                        System.out.println("Login Success");
                        boolean flag = false;
                        while (true) {
                              System.out.print("1.Create 2.Retrieve 3.Update
4.Delete 5.View All\n Choice:");
```

```
                                    switch (Integer.parseInt(cons.readLine())) {
                                    case 1:
                                          Details details = new Details();

      details.setId(Integer.parseInt(cons.readLine()));
                                          details.setLastname(cons.readLine());
                                          details.setFirstname(cons.readLine());

      details.setPhono(Double.parseDouble(cons.readLine()));
                                          Dbdetails.insert(details);
                                          break;
                                    case 4:
                                          Integer id =
Integer.parseInt(cons.readLine());
                                          Dbdetails.delete(id);
                                          break;
                                    default:
                                          flag = true;
                                          break;
                                    }
                                    if(flag)
                                          break;
                              }
                        } else {
                              System.out.println("Invalid Login Details");
                        }
                  } catch (ClassNotFoundException | SQLException e) {
                        e.printStackTrace();
                  }
      }

}
```