

ASSIGNMENT 3

JAVA SPRING BOOT

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CODE:

```
package fat; import
java.sql.Connection; import
java.sql.DriverManager; import
java.sql.PreparedStatement; import
java.sql.ResultSet; import
java.sql.SQLException; import
java.util.Scanner;

public class thd {
    public static void main(String[] args) {
        int login, user_login, event = 0;
        Scanner sc = new Scanner(System.in);          try
        {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
            DriverManager.getConnection("jdbc:mysql://localhost:3306/s
            tu", "root", "somu@123");
            System.out.println("Enter 1 for user login");
            System.out.println("Enter 2 for admin login");
            login = sc.nextInt();          if (login == 1) {
                System.out.println("Enter 1 for new record
                entry");
                System.out.println("Enter 2 for user
                updation");
                event = sc.nextInt();
            if (event == 1) {
                System.out.println("Enter user id");
```

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        String a = sc.next();
System.out.println("Enter user name");
        String b = sc.next();
        System.out.println("Enter user age");
int c = sc.nextInt();
        System.out.println("Enter user phone
number");
        long d = sc.nextLong();

        String sql = "INSERT INTO students
(id, name, age, phonenumber) VALUES (?, ?, ?, ?)";
PreparedStatement statement = conn.prepareStatement(sql);
        statement.setString(1, a);
statement.setString(2, b);
statement.setInt(3, c);
statement.setLong(4, d);

        int rowsInserted =
statement.executeUpdate();
        if (rowsInserted > 0) {
            System.out.println("A new record
has been inserted successfully.");
        }

        statement.close();
    } else {
        System.out.println("Enter the user id
to update");

        String id = sc.next();
        System.out.println("Enter new user
name");

        String name = sc.next();
        System.out.println("Enter new user
age");

        int age = sc.nextInt();
        System.out.println("Enter new user
phone number");

        long phoneNumber = sc.nextLong();

```

```

        String sql = "UPDATE students SET
name=?, age=?, phonenumber=? WHERE id=?";
PreparedStatement statement = conn.prepareStatement(sql);
        statement.setString(1, name);
statement.setInt(2, age);
statement.setLong(3, phoneNumber);
statement.setString(4, id);

        int rowsUpdated =
statement.executeUpdate();
        if (rowsUpdated > 0) {
            System.out.println("User details
have been updated successfully.");
        } else {
            System.out.println("No user found
with the provided ID.");
        }

    }
} else if (login == 2) {

    // Operations for admin login
    System.out.println("Enter 1 to show the all
records");
    System.out.println("Enter 2 to drop
records");
    int f=sc.nextInt();
    if(f==1) {
        String sql = ("SELECT *FROM students");
        PreparedStatement statement = conn.prepareStatement(sql);
        ResultSet resultSet =
statement.executeQuery();

        while (resultSet.next()) {
            String id =
resultSet.getString("id");
            String name =
resultSet.getString("name");

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        int age = resultSet.getInt("age");
        long phoneNumber = resultSet.getLong("phonenumber");

        System.out.println("ID: " + id +
            ", Name: " + name + ", Age: " + age + ", Phone Number: " +
            phoneNumber);
    }
    else {
        String sql = "DROP TABLE students";
        PreparedStatement statement = conn.prepareStatement(sql);
        statement.executeUpdate();

        System.out.println("The table
        'students' has been dropped.");

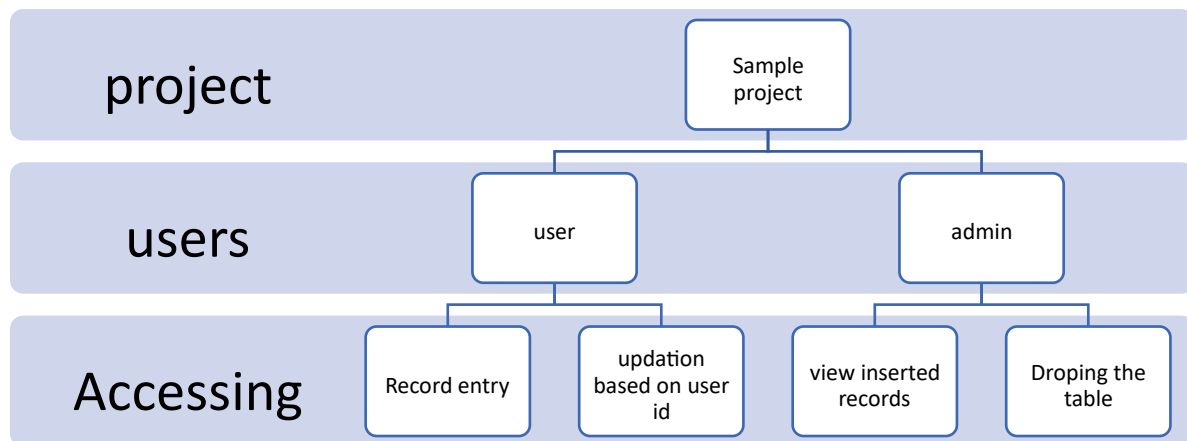
    }

    } else {
        System.out.println(" Invalid login option");
    }

    conn.close();
} catch (ClassNotFoundException e) {
    System.out.println("Error occurred while loading the
    driver: " + e.getMessage());
} catch (SQLException e) {
    System.out.println("Error occurred while
    connecting to the database: " + e.getMessage());
}
}
}

```

Designed Architecture:

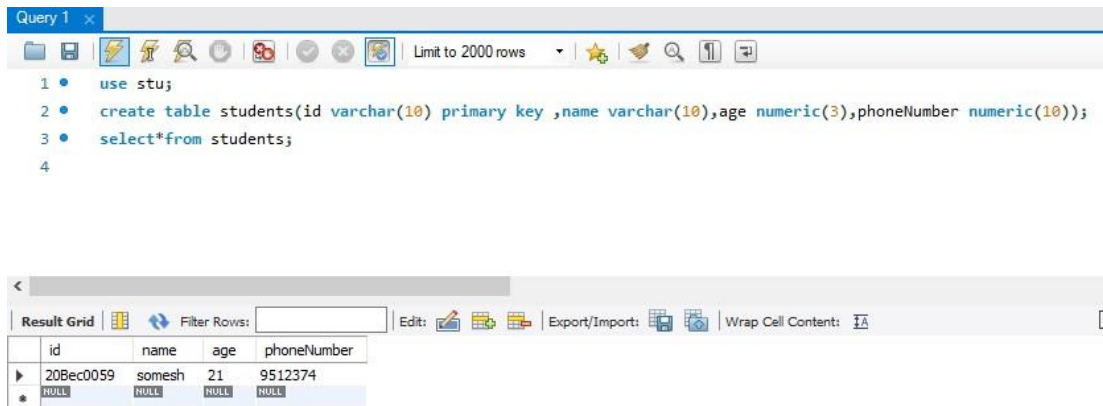


Output samples:

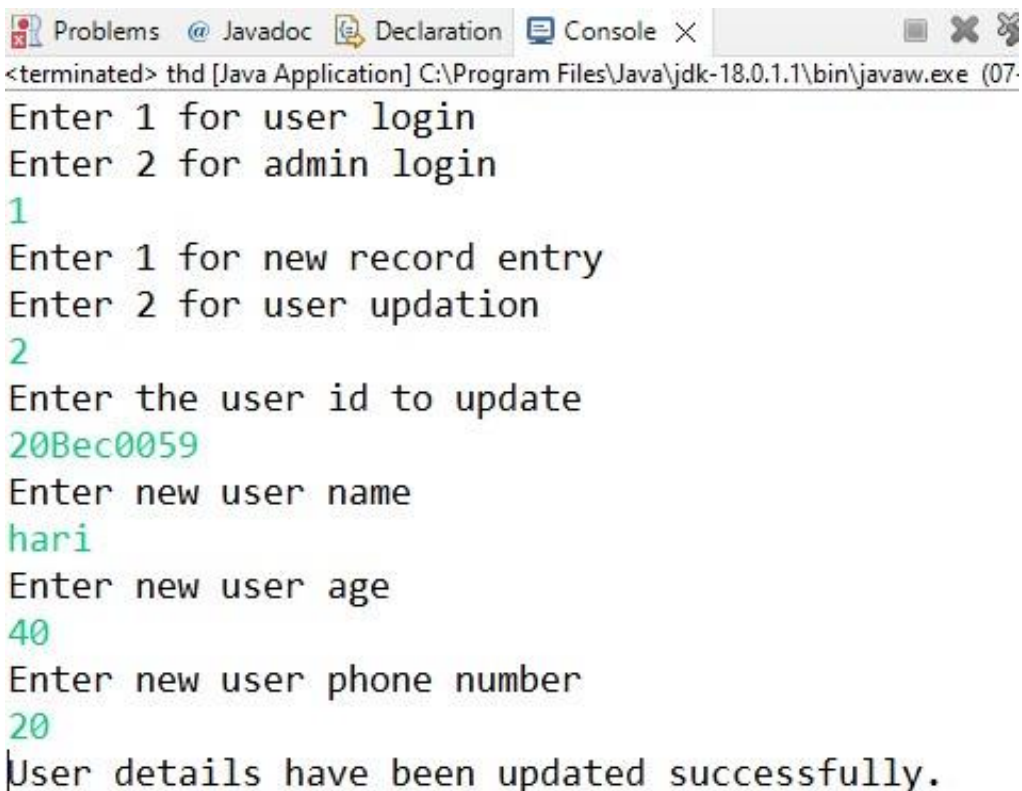
1 a)user record entry: Java console

```
Problems @ Javadoc Declaration Console X
<terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (0
Enter 1 for user login
Enter 2 for admin login
1
Enter 1 for new record entry
Enter 2 for user updation
1
Enter user id
20Bec0059
Enter user name
somesh
Enter user age
21
Enter user phone number
9512374
A new record has been inserted successfully.
```

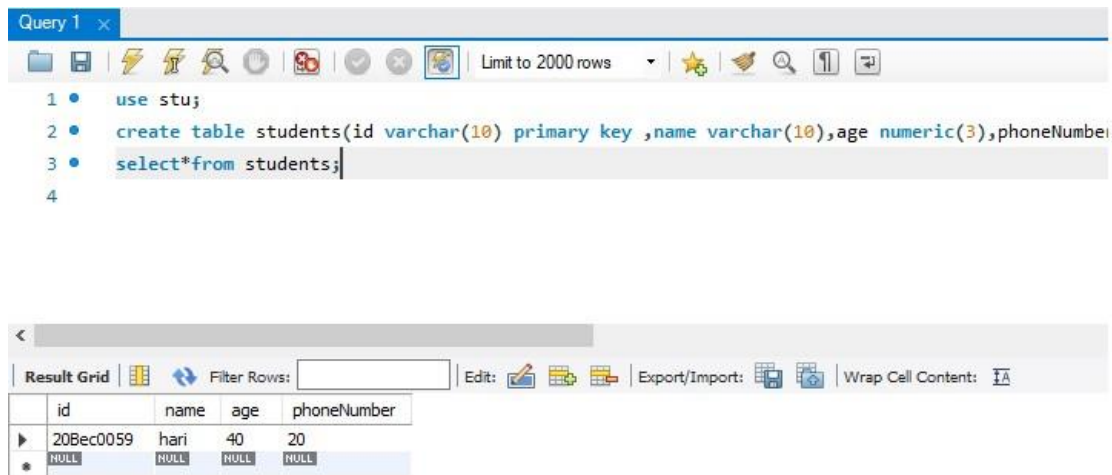
Sql console:



1 b) user updation: Eclipse console



Sql workbench console:



2a)admin viewing inserted records:

For 1 record:

(terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (07-Jun-2023, 7:3

Enter 1 for user login

Enter 2 for admin login

2

Enter 1 to show the all records

Enter 2 to drop records

1

ID: 20Bec0059, Name: hari, Age: 40, Phone Number: 20

For so many records:

Enter 1 for user login

Enter 2 for admin login

2

Enter 1 to show the all records

Enter 2 to drop records

1

ID: 20MIS035, Name: mahesh, Age: 45, Phone Number: 8008221506

ID: 20MIS0374, Name: akula, Age: 20, Phone Number: 954123388

ID: 20MIS045, Name: hari, Age: 45, Phone Number: 8008221506

ID: 20MIS048, Name: raju, Age: 45, Phone Number: 8008221506

2b)Dropping table:



```
<terminated> thd [Java Application] C:\Program Files\Java\jdk-18.0.1.1\bin\javaw.exe (07-Ju
Enter 1 for user login
Enter 2 for admin login
2
Enter 1 to show the all records
Enter 2 to drop records
2
The table 'students' has been dropped.
```

*******Thank you*******