

JAVA AWT BASED- Student Faculty Networking Platform- SQL CONNECTIVITY USING JDBC

A

Report

Submitted in partial fulfillment of the

Requirements for the award of the Degree

of

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

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BONAFIDE CERTIFICATE

This is to certify that this project report titled '**Student Faculty Networking Platform**' is a project work by M. ROHITH bearing roll no. 1602-19-737-089 who carried out the project under my supervision in the IV semester for the academic year 2020- 2021.

Signature

Internal Examiner

Signature

External Examiner

ABSTRACT

This project is to build an application to manage a student and faculty profile(s) database. It also helps to support the networking of students, faculties and moderators have discussion forums and clubs. It is a student and Faculty Database managed by students and faculties.

It is a networking site for educational institutions, where students and faculties can get to know each other and interact. It will act as guidance for the new students to get to know his/her school better and to get familiarized with faculties and other activities. It would be a one stop site, no need of Facebook or LinkedIn to know about a particular person of your school or to get info about a particular event. People can stay updated of who is doing what like who is attending which seminar, who is doing which project, Assignment etc.

INTRODUCTION

List of Tables:

- subjectdetails
- staffsubjects
- staffdetails
- studentdetails
- studentquery
- assesmentdetails

List of Attributes with their Domain Types:

Subjectdetails

- semester number (10)
- coursename varchar2(15)
- timetable varchar2(1000)
- subject1 varchar2(50)
- subject2 varchar2(50)
- subject3 varchar2(50)
- subject4 varchar2(50)
- subject5 varchar2(50)
- subject6 varchar2(50)
- subject7 varchar2(50)
- subject8 varchar2(50)
- subject9 varchar2(50)
- subject10 varchar2(50)
- subid number (20)

staffsubjects

- subjects varchar2(50)
- course varchar2(50)
- sfid number (20)
- allotid number (20)
- subid number (20)
- semester number (10)

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staffdetails

- userid varchar2(50)
- sfname varchar2(50)
- sfaddress varchar2(100)
- sfid number (20)
- sfqualification varchar2(500)
- sfemail varchar2(20)
- sfmobile number (10)
- password number (20)

studentdetails

- address varchar2(500)
- phone number (10)
- email varchar2(20)
- coursename varchar2(20)
- marks number (10)
- stid number (20)
- sname varchar2(50)
- semester number (10)
- userid varchar2(20)
- password number (20)
- attendance number

studentquery

- qrdate varchar2(200),
- qrid number
- sfid number
- question varchar2(500)
- status varchar2(50)
- answer varchar2(500)
- stid number

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assesmentdetails

- subjectname varchar2(100)
- STID NUMBER,
- ASSESSMENTID NUMBER
- STARTDATE VARCHAR2(200)
- ENDDATE VARCHAR2(200)

AIM AND PRIORITY OF THE PROJECT

To create a Java GUI based Student Faculty Networking System which takes the values like user id, password etc. from the users who wants to login into the system.it stores information about the student query, assignments, staff details, subject details, and student details. These values are to be updated in the database using JDBC connectivity.

ARCHITECTURE AND TECHNOLOGY

Software used:

Java Eclipse, Oracle 11g Database, Java SE version 13, SQL*Plus.

Java AWT:

Java AWT (Abstract Window Toolkit) is an API to develop GUI or window-based applications in java.

Java AWT components are platform-dependent i.e., components are displayed according to the view of operating system. AWT is heavyweight i.e., its components are using the resources of OS.

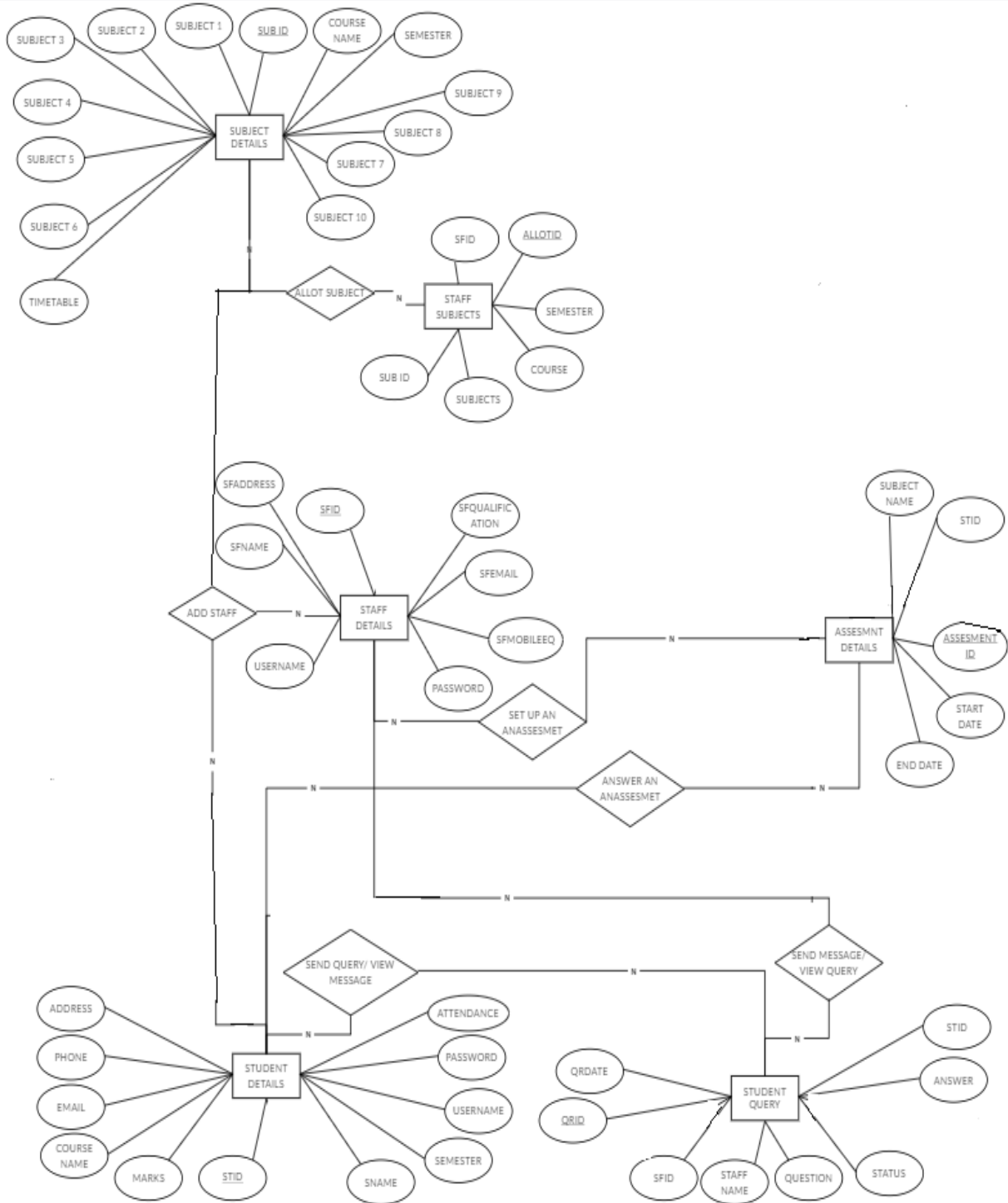
The java.awt package provides classes for AWT API such as TextField, Label, TextArea, RadioButton, CheckBox, Choice, List etc.

SQL:

Structure Query Language (SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySQL, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

DESIGN

Entity relationship diagram



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Mapping Cardinality and Participation Constraints

These tables are created to avoid repetition of values in the main table and manage mainly many –to – many relationships. some attributes are the primary keys of the respective table and some of them should not be null. One faculty can give any number of assignments, so it is also one to many relationships.

Also, every user has at least one id, because that is the purpose of this application therefore, it is a total participation from the subjects.

Database Design:

DDL Commands

```
create table subjectdetails(  
semester number (10) NOT NULL,  
coursename varchar2(15) NOT NULL,  
timetable varchar2(1000) NOT NULL,  
subject1 varchar2(50),  
subject2 varchar2(50),  
subject3 varchar2(50),  
subject4 varchar2(50),  
subject5 varchar2(50),  
subject6 varchar2(50),  
subject7 varchar2(50),  
subject8 varchar2(50),  
subject9 varchar2(50),  
subject10 varchar2(50),  
subid number (20) primary key);
```

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```
SQL> create table subjectdetails(  
2 semester number(10) NOT NULL,  
3 coursename varchar2(15) NOT NULL,  
4 timetable varchar2(1000) NOT NULL,  
5 subject1 varchar2(50),  
6 subject2 varchar2(50),  
7 subject3 varchar2(50),  
8 subject4 varchar2(50),  
9 subject5 varchar2(50),  
10 subject6 varchar2(50),  
11 subject7 varchar2(50),  
12 subject8 varchar2(50),  
13 subject9 varchar2(50),  
14 subject10 varchar2(50),  
15 subid number(20) primary key);
```

Table created.

```
SQL> desc subjectdetails;
```

Name	Null?	Type
SEMESTER	NOT NULL	NUMBER(10)
COURSENAME	NOT NULL	VARCHAR2(15)
TIMETABLE	NOT NULL	VARCHAR2(1000)
SUBJECT1		VARCHAR2(50)
SUBJECT2		VARCHAR2(50)
SUBJECT3		VARCHAR2(50)
SUBJECT4		VARCHAR2(50)
SUBJECT5		VARCHAR2(50)
SUBJECT6		VARCHAR2(50)
SUBJECT7		VARCHAR2(50)
SUBJECT8		VARCHAR2(50)
SUBJECT9		VARCHAR2(50)
SUBJECT10		VARCHAR2(50)
SUBID	NOT NULL	NUMBER(20)

```
create table staffsubjects(  
subjects varchar2(50),  
course varchar2(50),  
sfid number(20) NOT NULL,  
allotid number(20) primary key,  
subid number(20) references subjectdetails(subid),  
semester number(10));
```

```
SQL> create table staffsubjects(  
2 subjects varchar2(50),  
3 course varchar2(50),  
4 sfid number(20) NOT NULL,  
5 allotid number(20) primary key,  
6 subid number(20) references subjectdetails(subid),  
7 semester number(10));
```

Table created.

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alter table staffsubjects add foreign key(sfid) references staffdetails;

```
SQL> alter table staffsubjects add foreign key(sfid) references staffdetails;
```

Table altered.

```
SQL> desc staffsubjects;
```

Name	Null?	Type
SUBJECTS		VARCHAR2(50)
COURSE		VARCHAR2(50)
SFID	NOT NULL	NUMBER(20)
ALLOTID	NOT NULL	NUMBER(20)
SUBID		NUMBER(20)
SEMESTER		NUMBER(10)

```
create table staffdetails(  
username varchar2(50),  
sfname varchar2(50),  
sfaddress varchar2(100),  
sfid number (20) primary key,  
sfqualification varchar2(500),  
sfemail varchar2(20),  
sfmobile number (10),  
password number (20));
```

```
SQL> create table staffdetails(  
2 username varchar2(50),  
3 sfname varchar2(50),  
4 sfaddress varchar2(100),  
5 sfid number(20) primary key,  
6 sfqualification varchar2(500),  
7 sfemail varchar2(20),  
8 sfmobile number(10),  
9 password number(20));
```

Table created.

```
SQL> desc staffdetails;
```

Name	Null?	Type
USERNAME		VARCHAR2(50)
SFNAME		VARCHAR2(50)
SFADDRESS		VARCHAR2(100)
SFID	NOT NULL	NUMBER(20)
SFQUALIFICATION		VARCHAR2(500)
SFEMAIL		VARCHAR2(20)
SFMOBILE		NUMBER(10)
PASSWORD		NUMBER(20)

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```
create table studentdetails(  
address varchar2(500) NOT NULL,  
phone number (10) NOT NULL,  
email varchar2(20),  
coursename varchar2(20) NOT NULL,  
marks number (10),  
stid number (20) primary key,  
sname varchar2(50) NOT NULL,  
semester number (10) NOT NULL,  
username varchar2(20) NOT NULL,  
password number (20) NOT NULL,  
attendance number);
```

```
SQL> create table studentdetails(  
2 address varchar2(500) NOT NULL,  
3 phone number(10) NOT NULL,  
4 email varchar2(20),  
5 coursename varchar2(20) NOT NULL,  
6 marks number(10),  
7 stid number(20) primary key,  
8 sname varchar2(50) NOT NULL,  
9 semester number(10) NOT NULL,  
10 username varchar2(20) NOT NULL,  
11 password number(20) NOT NULL,  
12 attendance number);
```

Table created.

```
SQL> desc studentdetails;
```

Name	Null?	Type
ADDRESS	NOT NULL	VARCHAR2(500)
PHONE	NOT NULL	NUMBER(10)
EMAIL		VARCHAR2(20)
COURSENAME	NOT NULL	VARCHAR2(20)
MARKS		NUMBER(10)
STID	NOT NULL	NUMBER(20)
SNAME	NOT NULL	VARCHAR2(50)
SEMESTER	NOT NULL	NUMBER(10)
USERNAME	NOT NULL	VARCHAR2(20)
PASSWORD	NOT NULL	NUMBER(20)
ATTENDANCE		NUMBER

```
create table studentquery(  
qrdate varchar2(200),  
qrid number not null,  
sfid number references staffdetails(sfid),  
question varchar2(500),
```

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```
status varchar2(50),
answer varchar2(500),
stid number references studentdetails(stid));
```

```
SQL> create table studentquery(
  2  qrdate varchar2(200),
  3  qrid number not null,
  4  sfid number references staffdetails(sfid),
  5  question varchar2(500),
  6  status varchar2(50),
  7  answer varchar2(500),
  8  stid number references studentdetails(stid));
```

Table created.

```
SQL> desc studentquery;
```

Name	Null?	Type
QRDATE		VARCHAR2(200)
QRID	NOT NULL	NUMBER
SFID		NUMBER
QUESTION		VARCHAR2(500)
STATUS		VARCHAR2(50)
ANSWER		VARCHAR2(500)
STID		NUMBER

```
create table assesmentdetails(
subjectname varchar2(100) NOT NULL,
STID NUMBER,
ASSESSMENTID NUMBER NOT NULL,
STARTDATE VARCHAR2(200) NOT NULL,
ENDDATE VARCHAR2(200) NOT NULL);
```

```
SQL> create table assesmentdetails(
  2  subjectname varchar2(100) NOT NULL,
  3  STID NUMBER,
  4  ASSESSMENTID NUMBER NOT NULL,
  5  STARTDATE VARCHAR2(200) NOT NULL,
  6  ENDDATE VARCHAR2(200) NOT NULL);
```

Table created.

```
SQL> desc assesmentdetails;
```

Name	Null?	Type
SUBJECTNAME	NOT NULL	VARCHAR2(100)
STID		NUMBER
ASSESSMENTID	NOT NULL	NUMBER
STARTDATE	NOT NULL	VARCHAR2(200)
ENDDATE	NOT NULL	VARCHAR2(200)

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DML Commands

1.insert into subjectdetails

values(&semester,&coursename,&timetable,&subject1,&subject2,&subject3,&subject4,'&subject5',&subject6,&subject7,&subject8,&subject9,&subject10,&subid);

```
SQL> insert into subjectdetails values(&semester,&coursename,&timetable,&subject1,&subject2,&subject3,&subject4,&subject5,&subject6,&subject7,&subject8',
'&subject9','&subject10',&subid);
Enter value for semester: 1
Enter value for coursename: BTECH
Enter value for timetable: yet to release
Enter value for subject1: Maths
Enter value for subject2: SPOD
Enter value for subject3: ENGLISH
Enter value for subject4: DS
Enter value for subject5: BEE
Enter value for subject6: BEE LAB
Enter value for subject7: C
Enter value for subject8: C LAB
Enter value for subject9: DS LAB
Enter value for subject10: ED
Enter value for subid: 1
old 1: insert into subjectdetails values(&semester,&coursename,&timetable,&subject1,&subject2,&subject3,&subject4,&subject5,&subject6,&subject7','&subject
t8','&subject9','&subject10',&subid)
new 1: insert into subjectdetails values(1,'BTECH','yet to release','Maths','SPOD','ENGLISH','DS','BEE','BEE LAB','C','C LAB','DS LAB','ED',1)

1 row created.
```

```
SQL> insert into subjectdetails values(&semester,&coursename,&timetable,&subject1,&subject2,&subject3,&subject4,&subject5,&subject6,&subject7,&subject8',
'&subject9','&subject10',&subid);
Enter value for semester: 1
Enter value for coursename: M.TECH
Enter value for timetable: YET TO RELEASE
Enter value for subject1: DS
Enter value for subject2: DS LAB
Enter value for subject3: JAVA
Enter value for subject4: JAVA LAB
Enter value for subject5: DBMS
Enter value for subject6: DBMS LAB
Enter value for subject7: PYTHON
Enter value for subject8: PYTHON LAB
Enter value for subject9: ML
Enter value for subject10: ML LAB
Enter value for subid: 2
old 1: insert into subjectdetails values(&semester,&coursename,&timetable,&subject1,&subject2,&subject3,&subject4,&subject5,&subject6,&subject7','&subject
t8','&subject9','&subject10',&subid)
new 1: insert into subjectdetails values(1,'M.TECH','YET TO RELEASE','DS','DS LAB','JAVA','JAVA LAB','DBMS','DBMS LAB','PYTHON','PYTHON LAB','ML','ML LAB',2)

1 row created.
```

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```
SQL> insert into subjectdetails values(&semester,&coursename,&timetable,&subject1,&subject2,&subject3,&subject4,&subject5,&subject6,&subject7,&subject8,&subject9,&subject10,&subid);
Enter value for semester: 1
Enter value for coursename: PHD
Enter value for timetable: GIVEN
Enter value for subject1: PE1
Enter value for subject2: PE2
Enter value for subject3: PE3
Enter value for subject4: PE4
Enter value for subject5: PE5
Enter value for subject6: PE6
Enter value for subject7: PE7
Enter value for subject8: PE8
Enter value for subject9: PE9
Enter value for subject10: PE10
Enter value for subid: 3
old 1: insert into subjectdetails values(&semester,&coursename,&timetable,&subject1,&subject2,&subject3,&subject4,&subject5,&subject6,&subject7,&subject8,&subject9,&subject10,&subid)
new 1: insert into subjectdetails values(1,'PHD','GIVEN','PE1','PE2','PE3','PE4','PE5','PE6','PE7','PE8','PE9','PE10',3)

1 row created.
```

2. insert into staffsubjects values('&subjects','&course',&sfid,&allotid,&subid,&semester);

```
SQL> insert into staffsubjects values('&subjects','&course',&sfid,&allotid,&subid,&semester);
Enter value for subjects: maths spod ds
Enter value for course: BTECH
Enter value for sfid: 1
Enter value for allotid: 1
Enter value for subid: 1
Enter value for semester: 1
old 1: insert into staffsubjects values('&subjects','&course',&sfid,&allotid,&subid,&semester)
new 1: insert into staffsubjects values('maths spod ds','BTECH',1,1,1,1)

1 row created.

SQL> insert into staffsubjects values('&subjects','&course',&sfid,&allotid,&subid,&semester);
Enter value for subjects: JAVA PYTHON ML
Enter value for course: M.TECH
Enter value for sfid: 2
Enter value for allotid: 2
Enter value for subid: 2
Enter value for semester: 1
old 1: insert into staffsubjects values('&subjects','&course',&sfid,&allotid,&subid,&semester)
new 1: insert into staffsubjects values('JAVA PYTHON ML','M.TECH',2,2,2,1)

1 row created.
```

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1 row created.

```
SQL> insert into staffsubjects values('&subjects','&course',&sfid,&allotid,&subid,&semester);
```

Enter value for subjects: PE1 PE2 PE3

Enter value for course: PHD

Enter value for sfid: 3

Enter value for allotid: 3

Enter value for subid: 3

Enter value for semester: 1

```
old 1: insert into staffsubjects values('&subjects','&course',&sfid,&allotid,&subid,&semester)
```

```
new 1: insert into staffsubjects values('PE1 PE2 PE3','PHD',3,3,3,1)
```

1 row created.

```
SQL> select * from staffsubjects;
```

SUBJECTS

COURSE		SFID	ALLOTID
SUBID	SEMESTER		
maths spod ds			
BTECH		1	1
1	1		
JAVA PYTHON ML			
M.TECH		2	2
2	1		

SUBID	SEMESTER		
maths spod ds			
BTECH		1	1
1	1		
JAVA PYTHON ML			
M.TECH		2	2
2	1		

SUBJECTS

COURSE		SFID	ALLOTID
SUBID	SEMESTER		
PE1 PE2 PE3			
PHD		3	3
3	1		

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3. insert into staffdetails

```
values('&username','&sfname','&sfaddress',&sfid,'&sfqualification','&sfemail',&sfmobile,&password);
```

```
SQL> insert into staffdetails values('&username','&sfname','&sfaddress',&sfid,'&sfqualification','&sfemail',&sfmobile,&password);
Enter value for username: ABC
Enter value for sfname: chunk
Enter value for sfaddress: plot-63,hyd
Enter value for sfid: 1
Enter value for sfqualification: M.TECH,PHD in cse
Enter value for sfemail: chunk.ofia@gmail.com
Enter value for sfmobile: 8897857199
Enter value for password: 123
old 1: insert into staffdetails values('&username','&sfname','&sfaddress',&sfid,'&sfqualification','&sfemail',&sfmobile,&password)
new 1: insert into staffdetails values('ABC','chunk','plot-63,hyd',1,'M.TECH,PHD in cse','chunk.ofia@gmail.com',8897857199,123)

1 row created.
```

```
SQL> insert into staffdetails values('&username','&sfname','&sfaddress',&sfid,'&sfqualification','&sfemail',&sfmobile,&password);
Enter value for username: DEF
Enter value for sfname: loree
Enter value for sfaddress: plot-91,WD
Enter value for sfid: 2
Enter value for sfqualification: M.TECH
Enter value for sfemail: loree.kiko@gmail.com
Enter value for sfmobile: 9440235450
Enter value for password: 456
old 1: insert into staffdetails values('&username','&sfname','&sfaddress',&sfid,'&sfqualification','&sfemail',&sfmobile,&password)
new 1: insert into staffdetails values('DEF','loree','plot-91,WD',2,'M.TECH ','loree.kiko@gmail.com',9440235450,456)

1 row created.
```

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```
SQL> insert into staffdetails values('&username','&sfname','&sfaddress','&sfid','&sfqualification','&sfemail','&sfmobile','&password');
Enter value for username: GHI
Enter value for sfname: martha
Enter value for sfaddress: plot no-099,TS
Enter value for sfid: 3
Enter value for sfqualification: M.TECH
Enter value for sfemail: martha.eba@gamil.com
Enter value for sfmobile: 7893174770
Enter value for password: 789
old 1: insert into staffdetails values('&username','&sfname','&sfaddress','&sfid','&sfqualification','&sfemail','&sfmobile','&password')
new 1: insert into staffdetails values('GHI','martha','plot no-099,TS',3,'M.TECH','martha.eba@gamil.com',7893174770,789)

1 row created.
```

4. insert into studentdetails

values('&address','&phone','&email','&coursename','&marks','&stid','&sname','&semester','&username','&password','&attendance');

```
SQL> insert into studentdetails values('&address','&phone','&email','&coursename','&marks','&stid','&sname','&semester','&username','&password','&attendance');
Enter value for address: plot-45,NLG
Enter value for phone: 9898989898
Enter value for email: rohith.mi@gamil.com
Enter value for coursename: BTECH
Enter value for marks: 100
Enter value for stid: 1
Enter value for sname: ROHITH
Enter value for semester: 1
Enter value for username: ABC
Enter value for password: 123
Enter value for attendance: 100
old 1: insert into studentdetails values('&address','&phone','&email','&coursename','&marks','&stid','&sname','&semester','&username','&password','&attendance')
new 1: insert into studentdetails values('plot-45,NLG',9898989898,'rohith.mi@gamil.com','BTECH',100,1,'ROHITH',1,'ABC',123,100)

1 row created.
```

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```
SQL> insert into studentdetails values('&address',&phone,&email','&coursename',&marks,&stdid,&sname',&semester','&username',&password,&attendance);
Enter value for address: plot-50,HYD
Enter value for phone: 4545454545
Enter value for email: varun,gr@gmail.com
Enter value for course name: BTECH
Enter value for marks: 99
Enter value for stdid: 2
Enter value for sname: VARUN
Enter value for semester: 1
Enter value for username: DEF
Enter value for password: 456
Enter value for attendance: 100
old 1: insert into studentdetails values('&address',&phone,&email','&coursename',&marks,&stdid,&sname',&semester','&username',&password,&attendance)
new 1: insert into studentdetails values('plot-50,HYD',4545454545,'varun,gr@gmail.com','BTECH',99,2,'VARUN',1,'DEF',456,100)

1 row created.
```

```
SQL> insert into studentdetails values('&address',&phone,&email','&coursename',&marks,&stdid,&sname',&semester','&username',&password,&attendance);
Enter value for address: plot-60,vizag
Enter value for phone: 1212121212
Enter value for email: sank.mir@gmail.com
Enter value for course name: BTECH
Enter value for marks: 98
Enter value for stdid: 3
Enter value for sname: RAM
Enter value for semester: 1
Enter value for username: GHI
Enter value for password: 789
Enter value for attendance: 100
old 1: insert into studentdetails values('&address',&phone,&email','&coursename',&marks,&stdid,&sname',&semester','&username',&password,&attendance)
new 1: insert into studentdetails values('plot-60,vizag',1212121212,'sank.mir@gmail.com','BTECH',98,3,'RAM',1,'GHI',789,100)

1 row created.
```

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5. insert into assesmentdetails

values('&subjectname',&stid,&assesmentid,'&startdate','&enddate');

```
SQL> insert into assesmentdetails values('&subjectname',&stid,&assesmentid,'&startdate','&enddate');
Enter value for subjectname: DS
Enter value for stid: 1
Enter value for assesmentid: 1
Enter value for startdate: 08-MAY-2021
Enter value for enddate: 18-MAY-2021
old 1: insert into assesmentdetails values('&subjectname',&stid,&assesmentid,'&startdate','&enddate')
new 1: insert into assesmentdetails values('DS',1,1,'08-MAY-2021','18-MAY-2021')
```

1 row created.

```
SQL> insert into assesmentdetails values('&subjectname',&stid,&assesmentid,'&startdate','&enddate');
Enter value for subjectname: DS
Enter value for stid: 2
Enter value for assesmentid: 2
Enter value for startdate: 08-MAY-2021
Enter value for enddate: 18-MAY-2021
old 1: insert into assesmentdetails values('&subjectname',&stid,&assesmentid,'&startdate','&enddate')
new 1: insert into assesmentdetails values('DS',2,2,'08-MAY-2021','18-MAY-2021')
```

1 row created.

```
SQL> insert into assesmentdetails values('&subjectname',&stid,&assesmentid,'&startdate','&enddate');
Enter value for subjectname: DS
Enter value for stid: 3
Enter value for assesmentid: 3
Enter value for startdate: 08-MAY-2021
Enter value for enddate: 18-MAY-2021
old 1: insert into assesmentdetails values('&subjectname',&stid,&assesmentid,'&startdate','&enddate')
new 1: insert into assesmentdetails values('DS',3,3,'08-MAY-2021','18-MAY-2021')
```

1 row created.

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```
SQL> select * from assesmentdetails;
```

```
SUBJECTNAME
```

```
-----  
      STID ASSEMENTID
```

```
-----  
STARTDATE
```

```
-----  
ENDDATE
```

```
-----  
DS
```

```
      1      1  
08-MAY-2021  
18-MAY-2021
```

```
SUBJECTNAME
```

```
-----  
      STID ASSEMENTID
```

```
-----  
STARTDATE
```

```
-----  
ENDDATE
```

```
-----  
DS
```

```
      2      2  
08-MAY-2021  
18-MAY-2021
```

```
SUBJECTNAME
```

```
-----  
      STID ASSEMENTID
```

```
-----  
STARTDATE
```

```
-----  
ENDDATE
```

```
-----  
DS
```

```
      3      3  
08-MAY-2021
```

```
SUBJECTNAME
```

```
-----  
      STID ASSEMENTID
```

```
-----  
STARTDATE
```

```
-----  
ENDDATE
```

```
-----  
DS
```

```
      3      3  
08-MAY-2021  
18-MAY-2021
```

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STUDENT FACULTY NETWORKING PLATFORM

6. insert into studentquery values('&qrcode',&qrid,&sfid,'&question','&status','&answer',&stid);

```
SQL> insert into studentquery values('&qrcode',&qrid,&sfid,'&question','&status','&answer',&stid);
Enter value for qrcode: 5-may-2021
Enter value for qrid: 2
Enter value for sfid: 2
Enter value for question: some questions are not clearly mentioned
Enter value for status: answered
Enter value for answer: check once again the document
Enter value for stid: 2
old 1: insert into studentquery values('&qrcode',&qrid,&sfid,'&question','&status','&answer',&stid)
new 1: insert into studentquery values('5-may-2021',2,2,'some questions are not clearly mentioned','answered','check once again the document',2)

1 row created.
```

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IMPLEMENTATION

Front end programs and its connectivity

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
public void connectToDB()
{
    try {

        Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");

        statement=con.createStatement();
        statement.executeUpdate("commit");

    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

STUDENT FACULTY NETWORKING PLATFORM

Subjectdetails:

```
package sfnp;
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.Label;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.*;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class subjectdetails{
    /**
     *
     */
    private static final long serialVersionUID = 1L;
    private JButton insertButton,deleteButton,updateButton,viewButton;
    private JPanel p1,p2,p3,p;
    private JLabel
    lblsemester,lblloursename,lblltimetable,lbllsubject1,lbllsubject2,lbllsubject3,lbllsubject4,lb
    lsubject5,lbllsubject6,lbllsubject7,lbllsubject8,lbllsubject9,lbllsubject10,lbllsubid;
    private JTextField
    txtsemester,txtcoursename,txttimetable,txtsubject1,txtsubject2,txtsubject3,txtsubject4,tx
    tsubject5,txtsubject6,txtsubject7,txtsubject8,txtsubject9,txtsubject10,txtsubid;

    private List MIDList;
    Connection con;ResultSet rs;
    Statement statement;
    private JFrame frame;
    private JMenuItem insert,delete,update,view;
    public subjectdetails(JPanel p,JFrame frame,JMenuItem insert,JMenuItem
    delete,JMenuItem update,JMenuItem view)
    {

        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
        catch (Exception e)
        {

```

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```
        System.err.println("Unable to find and load driver");
        System.exit(1);
    }
    connectToDB();

    this.frame=frame;
    this.insert=insert;
    this.delete=delete;
    this.update=update;
    this.view=view;

    lblsemester=new JLabel("Semester");
    lblcoursename=new JLabel("Course Name");
    lbltimetable=new JLabel("Time Table");
    lblsubject1=new JLabel("Subject-1");
    lblsubject2=new JLabel("Subject-2");
    lblsubject3=new JLabel("Subject-3");
    lblsubject4=new JLabel("Subject-4");
    lblsubject5=new JLabel("Subject-5");
    lblsubject6=new JLabel("Subject-6");
    lblsubject7=new JLabel("Subject-7");
    lblsubject8=new JLabel("Subject-8");
    lblsubject9=new JLabel("Subject-9");
    lblsubject10=new JLabel("Subject-10");
    lblsubid=new JLabel("Subject id");

    txtsemester=new JTextField(10);
    txtcoursename=new JTextField(15);
    txttimetable=new JTextField(1000);
    txtsubject1=new JTextField(50);
    txtsubject2=new JTextField(50);
    txtsubject3=new JTextField(50);
    txtsubject4=new JTextField(50);
    txtsubject5=new JTextField(50);
    txtsubject6=new JTextField(50);
    txtsubject7=new JTextField(50);
    txtsubject8=new JTextField(50);
    txtsubject9=new JTextField(50);
    txtsubject10=new JTextField(50);
    txtsubid=new JTextField(20);

    this.p=p;

}

    public void connectToDB()
{
    try {

        Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");
```

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STUDENT FACULTY NETWORKING PLATFORM

```
statement=con.createStatement();
statement.executeUpdate("commit");

}
catch (SQLException connectException)
{
    System.out.println(connectException.getMessage());
    System.out.println(connectException.getSQLState());
    System.out.println(connectException.getErrorCode());
    System.exit(1);
}
}

private void displaySQLErrors(SQLException e)
{
    JOptionPane.showMessageDialog(p,"\\nSQLException: " + e.getMessage() +
    "\\n"+"SQLState:      " + e.getSQLState() + "\\n"+"VendorError:  " + e.getErrorCode() +
    "\\n");

}

public void loadMedIDs() {
    try {
        MIDList.removeAll();
        rs=statement.executeQuery("select subid from subjectdetails");
        while(rs.next()) {
            MIDList.add(rs.getString("subid"));
        }
    }
    catch(SQLException e) {
        displaySQLErrors(e);
    }
}

public void buildGUI() {

    insert.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            insertButton=new JButton("Submit");
            txtsemester.setText(null);
            txtcoursename.setText(null);
            txttimetable.setText(null);
            txtsubject1.setText(null);
            txtsubject2.setText(null);
            txtsubject3.setText(null);
            txtsubject4.setText(null);
            txtsubject5.setText(null);
            txtsubject6.setText(null);
            txtsubject7.setText(null);
        }
    });
}
```

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STUDENT FACULTY NETWORKING PLATFORM

```
txtsubject8.setText(null);  
txtsubject9.setText(null);  
txtsubject10.setText(null);  
txtsubid.setText(null);
```

```
p.removeAll();  
frame.invalidate();  
frame.validate();  
frame.repaint();
```

```
p1=new JPanel();
```

```
p1.setLayout(new GridLayout(13,2));  
p1.add(lblsemester);  
p1.add(txtsemester);  
p1.add(lblcoursename);  
p1.add(txtcoursename);  
p1.add(lbltimetable);  
p1.add(txttimetable);  
p1.add(lblsubject1);  
p1.add(txtsubject1);  
p1.add(lblsubject2);  
p1.add(txtsubject2);  
p1.add(lblsubject3);  
p1.add(txtsubject3);  
p1.add(lblsubject4);  
p1.add(txtsubject4);  
p1.add(lblsubject5);  
p1.add(txtsubject5);  
p1.add(lblsubject6);  
p1.add(txtsubject6);  
p1.add(lblsubject7);  
p1.add(txtsubject7);  
p1.add(lblsubject8);  
p1.add(txtsubject8);  
p1.add(lblsubject9);  
p1.add(txtsubject9);  
p1.add(lblsubject10);  
p1.add(txtsubject10);  
p1.add(lblsubid);  
p1.add(txtsubid);
```

```
p3=new JPanel(new FlowLayout());  
p3.add(insertButton);  
//p1.add(txtf1);  
p3.setBackground(Color.yellow);  
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
p1.setBackground(Color.pink) ;
```

```
p2 = new JPanel(new FlowLayout());
```

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STUDENT FACULTY NETWORKING PLATFORM

```
MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(1000,1000);
frame.validate();

insertButton.addActionListener(new ActionListener() {
    @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            try {
                String query="INSERT INTO subjectdetails
VALUES("+txtsemester.getText()+","+"+txtcoursename.getText()+","+"+txttimetable.getText()+
"+"+txtsubject1.getText()+","+"+txtsubject2.getText()+","+"+txtsubject3.getText()+","+"+
txtsubject4.getText()+","+"+txtsubject5.getText()+","+"+txtsubject6.getText()+","+"+txts
ubject7.getText()+","+"+txtsubject8.getText()+","+"+txtsubject9.getText()+","+"+txtsubjec
t10.getText()+","+"+txtsubid.getText()+")";

                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");loadMedIDs();

            }
            catch(SQLException insertException){
                displaySQLErrors(insertException);
            }

        }

    });

}
});

delete.addActionListener(new ActionListener() {

    @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            deleteButton=new JButton("delete");

            txtsemester.setText(null);
```

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STUDENT FACULTY NETWORKING PLATFORM

```
txtcoursename.setText(null);
txttimetable.setText(null);
txtsubject1.setText(null);
txtsubject2.setText(null);
txtsubject3.setText(null);
txtsubject4.setText(null);
txtsubject5.setText(null);
txtsubject6.setText(null);
txtsubject7.setText(null);
txtsubject8.setText(null);
txtsubject9.setText(null);
txtsubject10.setText(null);
txtsubid.setText(null);

p.removeAll();
frame.invalidate();
frame.validate();
frame.repaint();

p1=new JPanel();

p1.setLayout(new GridLayout(13,2));
p1.add(lblsemester);
p1.add(txtsemester);
p1.add(lblcoursename);
p1.add(txtcoursename);
p1.add(lbltimetable);
p1.add(txttimetable);
p1.add(lblsubject1);
p1.add(txtsubject1);
p1.add(lblsubject2);
p1.add(txtsubject2);
p1.add(lblsubject3);
p1.add(txtsubject3);
p1.add(lblsubject4);
p1.add(txtsubject4);
p1.add(lblsubject5);
p1.add(txtsubject5);
p1.add(lblsubject6);
p1.add(txtsubject6);
p1.add(lblsubject7);
p1.add(txtsubject7);
p1.add(lblsubject8);
p1.add(txtsubject8);
p1.add(lblsubject9);
p1.add(txtsubject9);
p1.add(lblsubject10);
p1.add(txtsubject10);
p1.add(lblsubid);
p1.add(txtsubid);

p3=new JPanel(new FlowLayout());
p3.add(deleteButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
```

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```
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

// p1.setBounds(100,100,500,300);

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);
p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select *
from subjectdetails");
            while (rs.next())
            {
                if
(rs.getString("subid").equals(MIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {

txtsemester.setText(rs.getString("semester"));

txtcoursename.setText(rs.getString("coursename"));

txttimetable.setText(rs.getString("timetable"));

txtsubject1.setText(rs.getString("subject1"));

txtsubject2.setText(rs.getString("subject2"));

txtsubject3.setText(rs.getString("subject3"));

txtsubject4.setText(rs.getString("subject4"));

txtsubject5.setText(rs.getString("subject5"));

txtsubject6.setText(rs.getString("subject6"));

txtsubject7.setText(rs.getString("subject7"));
```

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STUDENT FACULTY NETWORKING PLATFORM

```
txtsubject8.setText(rs.getString("subject8"));
txtsubject9.setText(rs.getString("subject9"));
txtsubject10.setText(rs.getString("subject10"));
txtsubid.setText(rs.getString("subid"));
    }
    } catch (SQLException selectException)
    {
        displaySQLErrors(selectException);
    }
    });

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

deleteButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
    try {

        int a=JOptionPane.showConfirmDialog(p,"Are you sure want
to delete:");

        if(a==JOptionPane.YES_OPTION){
            String query="DELETE FROM subjectdetails WHERE
subid="+MIDList.getSelectedItemAt();

            int i=statement.executeUpdate(query);
            JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loadMedIDs();
        }

    } catch(SQLException deleteException){
        displaySQLErrors(deleteException);
    }

    });

}
});

update.addActionListener(new ActionListener() {

    @Override
```

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STUDENT FACULTY NETWORKING PLATFORM

```
public void actionPerformed(ActionEvent arg0) {
    // TODO Auto-generated method stub
    JButton updateButton = new JButton("Modify");
    txtsemester.setText(null);
    txtcoursename.setText(null);
    txttimetable.setText(null);
    txtsubject1.setText(null);
    txtsubject2.setText(null);
    txtsubject3.setText(null);
    txtsubject4.setText(null);
    txtsubject5.setText(null);
    txtsubject6.setText(null);
    txtsubject7.setText(null);
    txtsubject8.setText(null);
    txtsubject9.setText(null);
    txtsubject10.setText(null);
    txtsubid.setText(null);

    p.removeAll();
    frame.invalidate();
    frame.validate();
    frame.repaint();

    p1=new JPanel();

    p1.setLayout(new GridLayout(13,2));
    p1.add(lblsemester);
    p1.add(txtsemester);
    p1.add(lblcoursename);
    p1.add(txtcoursename);
    p1.add(lbltimetable);
    p1.add(txttimetable);
    p1.add(lblsubject1);
    p1.add(txtsubject1);
    p1.add(lblsubject2);
    p1.add(txtsubject2);
    p1.add(lblsubject3);
    p1.add(txtsubject3);
    p1.add(lblsubject4);
    p1.add(txtsubject4);
    p1.add(lblsubject5);
    p1.add(txtsubject5);
    p1.add(lblsubject6);
    p1.add(txtsubject6);
    p1.add(lblsubject7);
    p1.add(txtsubject7);
    p1.add(lblsubject8);
    p1.add(txtsubject8);
    p1.add(lblsubject9);
    p1.add(txtsubject9);
    p1.add(lblsubject10);
    p1.add(txtsubject10);
    p1.add(lblsubid);
    p1.add(txtsubid);
}
```

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STUDENT FACULTY NETWORKING PLATFORM

```
p3=new JPanel(new FlowLayout());
p3.add(updateButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select *
from subjectdetails");

            while (rs.next())
            {
                if
(rs.getString("subid").equals(MIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {

txtsemester.setText(rs.getString("semester"));

txtcoursename.setText(rs.getString("coursename"));

txttimetable.setText(rs.getString("timetable"));

txtsubject1.setText(rs.getString("subject1"));

txtsubject2.setText(rs.getString("subject2"));

txtsubject3.setText(rs.getString("subject3"));

txtsubject4.setText(rs.getString("subject4"));

txtsubject5.setText(rs.getString("subject5"));

txtsubject6.setText(rs.getString("subject6"));

txtsubject7.setText(rs.getString("subject7"));

txtsubject8.setText(rs.getString("subject8"));
```

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```
txtsubject9.setText(rs.getString("subject9"));

txtsubject10.setText(rs.getString("subject10"));

txtsubid.setText(rs.getString("subid"));
    }
}
catch (SQLException selectException)
{
    displaySQLErrors(selectException);
}
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            int
a=JOptionPane.showConfirmDialog(p,"Are you sure want to update:");
            if(a==JOptionPane.YES_OPTION){
                String query="update subjectdetails
set
semester="+txtsemester.getText()+" ,coursename='"+txtcoursename.getText()+"',timetable='"+
txttimetable.getText()+"',subject1='"+txtsubject1.getText()+"',subject2='"+txtsubject2.ge
tText()+"',subject3='"+txtsubject3.getText()+"',subject4='"+txtsubject4.getText()+"',subj
ect5='"+txtsubject5.getText()+"',subject6='"+txtsubject6.getText()+"',subject7='"+txtsubj
ect7.getText()+"',subject8='"+txtsubject8.getText()+"',subject9='"+txtsubject9.getText()+"
',subject10='"+txtsubject10.getText()+"',subid="+txtsubid.getText()+" WHERE
subid="+MIDList.getSelectedItem();

            int

i=statement.executeUpdate(query);

            JOptionPane.showMessageDialog(p,"\nupdated "+i+" rows succesfully");loadMedIDs();
        }

    }
catch(SQLException deleteException){
    displaySQLErrors(deleteException);
}

}
```

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STUDENT FACULTY NETWORKING PLATFORM

```
        });
    }
});

view.addActionListener(new ActionListener(){

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        Label view1=new Label("Subject view");
        //view1.setAlignment(Label.CENTER);
        Font myFont = new Font("Serif",Font.BOLD,50);
        view1.setFont((myFont));
        viewButton=new JButton("View");
        p1=new JPanel();
        p2=new JPanel();
        p1.add(view1);
        p2.add(viewButton);p1.setBackground(Color.cyan)
;p2.setBackground(Color.yellow) ;
        p.add(p1);p.add(p2); p.setLayout(new FlowLayout());
        frame.add(p);
        frame.setSize(800,800);
        frame.validate();
        viewButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                JFrame f;

                JTable j;

                f = new JFrame();

                f.setTitle("Subject details");

                DefaultTableModel model = new
DefaultTableModel();

                j = new JTable(model);
                model.addColumn("semester");
                model.addColumn("coursename");
                model.addColumn("timetable");
                model.addColumn("subject1");
                model.addColumn("subject2");
                model.addColumn("subject3");
                model.addColumn("subject4");
                model.addColumn("subject5");
                model.addColumn("subject6");
                model.addColumn("subject7");
```

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STUDENT FACULTY NETWORKING PLATFORM

```
model.addColumn("subject8");
model.addColumn("subject9");
model.addColumn("subject10");
model.addColumn("subid");

try {

    rs=statement.executeQuery("select * from subjectdetails");
                                while(rs.next()) {
                                    model.addRow(new
Object[] {rs.getString("semester"),
rs.getString("coursename"),rs.getString("timetable"),rs.getString("subject1"),rs.getStrin
g("subject2"),rs.getString("subject3"),rs.getString("subject4"),rs.getString("subject5"),
rs.getString("subject6"),rs.getString("subject7"),rs.getString("subject8"),rs.getString("
subject9"),rs.getString("subject10"),rs.getString("subid")});
                                }
                                }
                                catch(SQLException viewException) {

displaySQLExceptions(viewException);

                                }
                                j.setEnabled(false);
j.setBounds(30, 40, 300, 300);

JScrollPane sp = new JScrollPane(j);
f.add(sp);

f.setSize(800, 400);

f.setVisible(true);

}

});

}

}
```

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STUDENT FACULTY NETWORKING PLATFORM

Staffsubjects:

```
package sfnp;
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.Label;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class staffsubjects
{
    /**
     *
     */
    private static final long serialVersionUID = 1L;
    private JButton insertButton,deleteButton,updateButton,viewButton;
    private JPanel p1,p2,p3,p;
    private JLabel lblsubjects,lblcourse,lblsfid,lbllallotid,lblsubid,blsemester;
    private JTextField txtsubjects,txtcourse,txtsfid,txtallotid,txtsubid,txtsemester;

    private List MIDList;
    Connection con;ResultSet rs;
    Statement statement;
    private JFrame frame;
    private JMenuItem insert,delete,update,view;
    public staffsubjects(JPanel p,JFrame frame,JMenuItem insert,JMenuItem delete,JMenuItem
    update,JMenuItem view)
    {

        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
    }
}
```

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```
        catch (Exception e)
        {
            System.err.println("Unable to find and load driver");
            System.exit(1);
        }
        connectToDB();

        this.frame=frame;
        this.insert=insert;
        this.delete=delete;
        this.update=update;
        this.view=view;

        lblsubjects=new JLabel("Subjects");
        lblcourse=new JLabel("Course");
        lblsfid=new JLabel("Sfid");
        lblallotid=new JLabel("Allot id");
        lblsubid=new JLabel("Subject id");
        lblsemester=new JLabel("Semester");

        txtsubjects=new JTextField(50);
        txtcourse=new JTextField(50);
        txtsfid=new JTextField(20);
        txtallotid=new JTextField(20);
        txtsubid=new JTextField(20);
        txtsemester=new JTextField(10);

        this.p=p;
    }

    public void connectToDB()
    {
        try {

            Connection con=DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");

            statement=con.createStatement();
            statement.executeUpdate("commit");

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
            System.exit(1);
        }
    }

    private void displaySQLErrors(SQLException e)
```

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```
{
    JOptionPane.showMessageDialog(p, "\nSQLException: " + e.getMessage() +
"\n"+"SQLState:      " + e.getSQLState() + "\n"+"VendorError:  " + e.getErrorCode() +
"\n");
}
public void loadMedIDs() {
    try {
        MIDList.removeAll();
        rs=statement.executeQuery("select subid from staffsubjects");
        while(rs.next()) {
            MIDList.add(rs.getString("subid"));
        }
    }
    catch(SQLException e) {
        displaySQLErrors(e);
    }
}

public void buildGUI() {

    insert.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            insertButton=new JButton("Submit");
            txtsubjects.setText(null);
            txtcourse.setText(null);
            txtsfid.setText(null);
            txtallotid.setText(null);
            txtsubid.setText(null);
            txtsemester.setText(null);

            p.removeAll();
            frame.invalidate();
            frame.validate();
            frame.repaint();

            p1=new JPanel();

            p1.setLayout(new GridLayout(6,2));
            p1.add(lblsubjects);
            p1.add(txtsubjects);
            p1.add(lblcourse);
            p1.add(txtcourse);
            p1.add(lblsfid);
            p1.add(txtsfid);
            p1.add(lblallotid);
            p1.add(txtallotid);
            p1.add(lblsubid);
```

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```
p1.add(txtsubid);
p1.add(lblsemester);
p1.add(txtsemester);

p3=new JPanel(new FlowLayout());
p3.add(insertButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

insertButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
    }
})

try {
    String query="INSERT INTO staffsubjects
VALUES('"+txtsubjects.getText()+"', '"+txtcourse.getText()+"', '"+txtsfid.getText()+"', '"+txt
allotid.getText()+"', '"+txtsubid.getText()+"', '"+txtsemester.getText()+"')";

    int i=statement.executeUpdate(query);
    JOptionPane.showMessageDialog(p, "\ninserted "+i+" rows
succesfully");loadMedIDs();

}
catch(SQLException insertException){
    displaySQLErrors(insertException);
}

}
```

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```
        });  
    }  
});  
  
delete.addActionListener(new ActionListener() {  
    @Override  
    public void actionPerformed(ActionEvent arg0) {  
        // TODO Auto-generated method stub  
        deleteButton=new JButton("delete");  
        txtsubjects.setText(null);  
        txtcourse.setText(null);  
        txtsfid.setText(null);  
        txtallotid.setText(null);  
        txtsubid.setText(null);  
        txtsemester.setText(null);  
  
        p.removeAll();  
        frame.invalidate();  
        frame.validate();  
        frame.repaint();  
  
        p1=new JPanel();  
  
        p1.setLayout(new GridLayout(6,2));  
        p1.add(lblsubjects);  
        p1.add(txtsubjects);  
        p1.add(lblcourse);  
        p1.add(txtcourse);  
        p1.add(lblsfid);  
        p1.add(txtsfid);  
        p1.add(lblallotid);  
        p1.add(txtallotid);  
        p1.add(lblsubid);  
        p1.add(txtsubid);  
        p1.add(lblsemester);  
        p1.add(txtsemester);  
  
        p3=new JPanel(new FlowLayout());  
        p3.add(deleteButton);  
        //p1.add(txtf1);  
        p3.setBackground(Color.yellow);  
        p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
        p1.setBackground(Color.pink) ;  
  
        // p1.setBounds(100,100,500,300);  
  
        p2 = new JPanel(new FlowLayout());
```

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```
MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);
p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
staffsubjects");

            while (rs.next())
            {
                if
(rs.getString("subid").equals(MIDList.getSelectedItem()))
                    break;
            }
            if (!rs.isAfterLast())
            {

                txtsubjects.setText(rs.getString("subjects"));

                txtcourse.setText(rs.getString("course"));

                txtsfid.setText(rs.getString("sfid"));

                txtallotid.setText(rs.getString("allotid"));

                txtsubid.setText(rs.getString("subid"));

                txtsemester.setText(rs.getString("semester"));

            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

deleteButton.addActionListener(new ActionListener() {
```

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```
        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub

            try {

                int a=JOptionPane.showConfirmDialog(p,"Are you sure want to
delete:");

                if(a==JOptionPane.YES_OPTION){
                    String query="DELETE FROM staffsubjects WHERE
subid="+MIDList.getSelectedItem();

                    int i=statement.executeUpdate(query);
                    JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loadMedIDs();
                }

                catch(SQLException deleteException){
                    displaySQLErrors(deleteException);
                }

            }

        });

    });

    update.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            JButton updateButton = new JButton("Modify");
            txtsubjects.setText(null);
            txtcourse.setText(null);
            txtsfid.setText(null);
            txtallotid.setText(null);
            txtsubid.setText(null);
            txtsemester.setText(null);

            p.removeAll();
            frame.invalidate();
            frame.validate();
            frame.repaint();

            p1=new JPanel();

            p1.setLayout(new GridLayout(6,2));
            p1.add(lblsubjects);
            p1.add(txtsubjects);
            p1.add(lblcourse);
            p1.add(txtcourse);
            p1.add(lblsfid);
```

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```
p1.add(txtsfid);
p1.add(lblallotid);
p1.add(txtallotid);
p1.add(lblsubid);
p1.add(txtsubid);
p1.add(lblsemester);
p1.add(txtsemester);
p3=new JPanel(new FlowLayout());
p3.add(updateButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
staffsubjects");

            while (rs.next())
            {
                if
(rs.getString("subid").equals(MIDList.getSelectedItem()))
                    break;
            }
            if (!rs.isAfterLast())
            {

                txtsubjects.setText(rs.getString("subjects"));

                txtcourse.setText(rs.getString("course"));

                txtsfid.setText(rs.getString("sfid"));

                txtallotid.setText(rs.getString("allotid"));

                txtsubid.setText(rs.getString("subid"));

                txtsemester.setText(rs.getString("semester"));

            }
        }
    }
}
```

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```
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            int a=JOptionPane.showConfirmDialog(p,"Are
            you sure want to update:");
            if(a==JOptionPane.YES_OPTION){
                String query="update staffsubjects set
subjects='"+txtsubjects.getText()+"',course='"+txtcourse.getText()+"',sfid='"+txtsfid.get
Text()+"',allotid='"+txtallotid.getText()+"',subid='"+txtsubid.getText()+"',semester='"+txtsem
ester.getText()+" WHERE subid="+MIDList.getSelectedItem();

                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\nupdated
                "+i+" rows succesfully");loadMedIDs();
            }

        }
        catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }
    }
});

});

}
});

view.addActionListener(new ActionListener(){

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();
    }
});
```

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```
Label view1=new Label("View Staff Subject");
//view1.setAlignment(Label.CENTER);
Font myFont = new Font("Serif",Font.BOLD,50);
view1.setFont((myFont));
viewButton=new JButton("View");
p1=new JPanel();
p2=new JPanel();
p1.add(view1);
p2.add(viewButton);p1.setBackground(Color.cyan)
;p2.setBackground(Color.yellow) ;
p.add(p1);p.add(p2); p.setLayout(new FlowLayout());
frame.add(p);
frame.setSize(800,800);
frame.validate();
viewButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        JFrame f;

        JTable j;

        f = new JFrame();

        f.setTitle("Staff Subjects");

        DefaultTableModel model = new
DefaultTableModel();

        j = new JTable(model);
        model.addColumn("subjects");
        model.addColumn("course");
        model.addColumn("sfid");
        model.addColumn("allotid");
        model.addColumn("subid");
        model.addColumn("semester");

        try {

            rs=statement.executeQuery("select *
from staffsubjects");

            while(rs.next()) {
                model.addRow(new
Object[]{rs.getString("subjects"),
rs.getString("course"),rs.getString("sfid"),rs.getString("allotid"),rs.getString("subid"
),rs.getString("semester")});
            }
        }
        catch(SQLException viewException) {
            displaySQLErrors(viewException);
        }
        j.setEnabled(false);
    }
}
```

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```
j.setBounds(30, 40, 300, 300);

JScrollPane sp = new JScrollPane(j);
f.add(sp);

f.setSize(800, 400);

f.setVisible(true);

}

});

}

});

}
```

Staffdetails:

```
package sfnp;
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.Label;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.*;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
```

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```
public class staffdetails
{
    /**
     *
     */
    private static final long serialVersionUID = 1L;
    private JButton insertButton,deleteButton,updateButton,viewButton;
    private JPanel p1,p2,p3,p;
    private JLabel lblusername,blbsfname,blbsfaddress,blbsfid,blbsfqualification,blbsfemail,blbsfmobile,blbpassword;
    private JTextField
txtusername,txtsfname,txtsfaddress,txtsfid,txtsfqualification,txtsfemail,txtsfmobile,txtpassword;

    private List MIDList;
    Connection con;ResultSet rs;
    Statement statement;
    private JFrame frame;
    private JMenuItem insert,delete,update,view;
    public staffdetails(JPanel p,JFrame frame,JMenuItem insert,JMenuItem delete,JMenuItem update,JMenuItem
view)
    {

        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
        catch (Exception e)
        {
            System.err.println("Unable to find and load driver");
            System.exit(1);
        }
        connectToDB();

        this.frame=frame;
        this.insert=insert;
        this.delete=delete;
        this.update=update;
        this.view=view;

        lblusername=new JLabel("User id");
        blbsfname=new JLabel("Staff Name");
        blbsfaddress=new JLabel("Staff Address");
        blbsfid=new JLabel("Staff id");
        blbsfqualification=new JLabel("Staff Qualification");
        blbsfemail=new JLabel("staff email");
        blbsfmobile=new JLabel("Staff Mobile");
        blbpassword=new JLabel("Password");

        txtusername=new JTextField(50);
        txtsfname=new JTextField(50);
        txtsfaddress=new JTextField(100);
        txtsfid=new JTextField(20);
        txtsfqualification =new JTextField(500);
        txtsfemail=new JTextField(20);
        txtsfmobile=new JTextField(10);
        txtpassword=new JTextField(20);
    }
}
```

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```
        this.p=p;

    }

    public void connectToDB()
    {
        try {

            Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");

            statement=con.createStatement();
            statement.executeUpdate("commit");

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
            System.exit(1);
        }
    }
    private void displaySQLErrors(SQLException e)
    {
        JOptionPane.showMessageDialog(p,"\nSQLException: " + e.getMessage() + "\n"+"SQLState: " +
        e.getSQLState() + "\n"+"VendorError: " + e.getErrorCode() + "\n");

    }
    public void loadMedIDs() {
        try {
            MIDList.removeAll();
            rs=statement.executeQuery("select sfid from staffdetails");
            while(rs.next()) {
                MIDList.add(rs.getString("sfid"));
            }
        }
        catch(SQLException e) {
            displaySQLErrors(e);
        }
    }

    public void buildGUI() {

        insert.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
```

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```
insertButton=new JButton("Submit");
txtusername.setText(null);
txtsfname.setText(null);
txtsfaddress.setText(null);
txtsfid.setText(null);
txtsfqualification.setText(null);
txtsfemail.setText(null);
txtsfmobile.setText(null);
txtpassword.setText(null);
```

```
p.removeAll();
frame.invalidate();
frame.validate();
frame.repaint();
```

```
p1=new JPanel();
```

```
p1.setLayout(new GridLayout(8,2));
p1.add(lblusername);
p1.add(txtusername);
p1.add(lblsfname);
p1.add(txtsfname);
p1.add(lblsfaddress);
p1.add(txtsfaddress);
p1.add(lblsfid);
p1.add(txtsfid);
p1.add(lblsfqualification);
p1.add(txtsfqualification);
p1.add(lblsfemail);
p1.add(txtsfemail);
p1.add(lblsfmobile);
p1.add(txtsfmobile);
p1.add(lblpassword);
p1.add(txtpassword);
```

```
p3=new JPanel(new FlowLayout());
p3.add(insertButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;
```

```
p2 = new JPanel(new FlowLayout());
```

```
MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;
```

```
p2.setBounds(450,150,350,180);
```

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```
p. add(p1);p.add(p3);
p. add(p2);

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

insertButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {
            String query="INSERT INTO staffdetails
VALUES('"+txtusername.getText()+"','"+txtsfname.getText()+"','"+txtsfaddress.getText()+"','"+txtsfid.getText()+"','"+txts
fqualification.getText()+"','"+txtsfemail.getText()+"','"+txtsfmobile.getText()+"','"+txtpassword.getText()+"')";

            int i=statement.executeUpdate(query);
            JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");loadMedIDs();

        }
        catch(SQLException insertException){
            displaySQLErrors(insertException);
        }

    }

});

delete.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        deleteButton=new JButton("delete");
        txtusername.setText(null);
        txtsfname.setText(null);
        txtsfaddress.setText(null);
        txtsfid.setText(null);
        txtsfqualification.setText(null);
        txtsfemail.setText(null);
        txtsfmobile.setText(null);
        txtpassword.setText(null);

        p.removeAll();
        frame.invalidate();
```

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```
frame.validate();  
frame.repaint();
```

```
p1=new JPanel();
```

```
p1.setLayout(new GridLayout(8,2));  
p1.add(lblusername);  
p1.add(txtusername);  
p1.add(lblsfname);  
p1.add(txtsfname);  
p1.add(lblsfaddress);  
p1.add(txtsfaddress);  
p1.add(lblsfid);  
p1.add(txtsfid);  
p1.add(lblsfqualification);  
p1.add(txtsfqualification);  
p1.add(lblsfemail);  
p1.add(txtsfemail);  
p1.add(lblsfmobile);  
p1.add(txtsfmobile);  
p1.add(lblpassword);  
p1.add(txtpassword);
```

```
p3=new JPanel(new FlowLayout());  
p3.add(deleteButton);  
//p1.add(txtf1);  
p3.setBackground(Color.yellow);  
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
p1.setBackground(Color.pink) ;
```

```
// p1.setBounds(100,100,500,300);
```

```
p2 = new JPanel(new FlowLayout());
```

```
MIDList=new List(10);  
loadMedIDs();  
p2.add(MIDList);p2.setBackground(Color.cyan) ;
```

```
p2.setBounds(450,150,350,180);
```

```
p. add(p1);  
p.add(p3);  
p. add(p2);
```

```
MIDList.addItemListener(new ItemListener()  
{
```

```
    public void itemStateChanged(ItemEvent e)  
    {
```

```
        try  
        {
```

```
            rs=statement.executeQuery("select * from
```

```
staffdetails");
```

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```
(rs.getString("sfid").equals(MIDList.getSelectedItem()))

while (rs.next())
{
    if
        break;
}
if (!rs.isAfterLast())
{

txtusername.setText(rs.getString("username"));

txtsfname.setText(rs.getString("sfname"));

txtsfaddress.setText(rs.getString("sfaddress"));

txtsfid.setText(rs.getString("sfid"));

txtsfqualification.setText(rs.getString("sfqualification"));

txtsfemail.setText(rs.getString("sfemail"));

txtsfmobile.setText(rs.getString("sfmobile"));

txtpassword.setText(rs.getString("password"));

}
}
catch (SQLException selectException)
{
    displaySQLErrors(selectException);
}
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

deleteButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
try {

int a=JOptionPane.showConfirmDialog(p,"Are you sure want to delete:");
if(a==JOptionPane.YES_OPTION){
String query="DELETE FROM staffdetails WHERE

sfid="+MIDList.getSelectedItem();

int i=statement.executeUpdate(query);
JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows

succesfully");loadMedIDs();

}

}

}
```

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```
        catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }

    }

    });

}
});

update.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        JButton updateButton = new JButton("Modify");
        txtusername.setText(null);
        txtsfname.setText(null);
        txtsfaddress.setText(null);
        txtsfid.setText(null);
        txtsfqualification.setText(null);
        txtsfemail.setText(null);
        txtsfmobile.setText(null);
        txtpassword.setText(null);

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        p1=new JPanel();

        p1.setLayout(new GridLayout(8,2));
        p1.add(lblusername);
        p1.add(txtusername);
        p1.add(lblsfname);
        p1.add(txtsfname);
        p1.add(lblsfaddress);
        p1.add(txtsfaddress);
        p1.add(lblsfid);
        p1.add(txtsfid);
        p1.add(lblsfqualification);
        p1.add(txtsfqualification);
        p1.add(lblsfemail);
        p1.add(txtsfemail);
        p1.add(lblsfmobile);
        p1.add(txtsfmobile);
        p1.add(lblpassword);
        p1.add(txtpassword);

        p3=new JPanel(new FlowLayout());
        p3.add(updateButton);
        //p1.add(txtf1);
        p3.setBackground(Color.yellow);
```

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```
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
staffdetails");

            while (rs.next())
            {
                if
(rs.getString("sfid").equals(MIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {

                txtusername.setText(rs.getString("username"));

                txtsfname.setText(rs.getString("sfname"));

                txtsfaddress.setText(rs.getString("sfaddress"));

                txtsfid.setText(rs.getString("sfid"));

                txtsfqualification.setText(rs.getString("sfqualification"));

                txtsfemail.setText(rs.getString("sfemail"));

                txtsfmobile.setText(rs.getString("sfmobile"));

                txtpassword.setText(rs.getString("password"));

            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());
```

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```
frame.add(p);
frame.setSize(800,800);
frame.validate();

updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            int a=JOptionPane.showConfirmDialog(p,"Are
you sure want to update:");

            if(a==JOptionPane.YES_OPTION){
                String query="update staffdetails set
username='"+txtusername.getText()+"',sfname='"+txtsfname.getText()+"',sfaddress='"+txtsfaddress.getText()+"',sfid='"+t
xtsfid.getText()+"',sfqualification='"+txtsfqualification.getText()+"',sfemail='"+txtsfemail.getText()+"',sfmobile='"+txtsfm
obile.getText()+"',password='"+txtpassword.getText()+" WHERE sfid="+MIDList.getSelectedItem();

                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\nupdated
"+i+" rows succesfully");loadMedIDs();

            }

        } catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }

    }

});

});

view.addActionListener(new ActionListener(){

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        Label view1=new Label("View Staff Details");
        //view1.setAlignment(Label.CENTER);
        Font myFont = new Font("Serif",Font.BOLD,50);
        view1.setFont((myFont));
        viewButton=new JButton("View");
        p1=new JPanel();
        p2=new JPanel();
        p1.add(view1);
        p2.add(viewButton);p1.setBackground(Color.cyan) ;p2.setBackground(Color.yellow)
```

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```
;

p.add(p1);p.add(p2); p.setLayout(new FlowLayout());
frame.add(p);
frame.setSize(800,800);
frame.validate();
viewButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        JFrame f;

        JTable j;

        f = new JFrame();

        f.setTitle("Staff details");

        DefaultTableModel model = new DefaultTableModel();
        j = new JTable(model);
        model.addColumn("username");
        model.addColumn("sfname");
        model.addColumn("sfaddress");
        model.addColumn("sfid");
        model.addColumn("sfqualification");
        model.addColumn("sfemail");
        model.addColumn("sfmobile");
        model.addColumn("password");

        try {

            rs=statement.executeQuery("select *
from staffdetails");

            while(rs.next())
            {
                model.addRow(new
Object[] {rs.getString("username"),
rs.getString("sfname"),rs.getString("sfaddress"),rs.getString("sfid"),rs.getString("sfqualification"),rs.getString("sfemail"),
rs.getString("sfmobile"),rs.getString("password")});
            }
        }
        catch(SQLException viewException) {
            displaySQLErrors(viewException);
        }
        j.setEnabled(false);
        j.setBounds(30, 40, 300, 300);

        JScrollPane sp = new JScrollPane(j);
        f.add(sp);

        f.setSize(800, 400);

        f.setVisible(true);
```

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```
        }  
  
        });  
  
    }  
  
});  
  
}
```

Studentdetails:

```
package sfnp;  
  
import java.awt.BorderLayout;  
import java.awt.Color;  
import java.awt.FlowLayout;  
import java.awt.Font;  
import java.awt.GridLayout;  
import java.awt.Label;  
import java.awt.List;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.awt.event.ItemEvent;  
import java.awt.event.ItemListener;  
import java.sql.*;  
  
import javax.swing.JButton;  
import javax.swing.JFrame;  
import javax.swing.JLabel;  
import javax.swing.JMenuItem;  
import javax.swing.JOptionPane;  
import javax.swing.JPanel;  
import javax.swing.JScrollPane;  
import javax.swing.JTable;  
import javax.swing.JTextField;  
import javax.swing.table.DefaultTableModel;  
  
public class studentdetails{  
    /**  
     *  
     */  
    private static final long serialVersionUID = 1L;  
    private JButton insertButton,deleteButton,updateButton,viewButton;  
    private JPanel p1,p2,p3,p;  
    private JLabel  
    lbladdress,lblphone,lblemail,lbldcourse,lbldmarks,lbldstid,lbldlname,lbldsemester,lbldusername,lbldpassword,lbldattendance;  
    private JTextField
```

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txtaddress,txtphone,txtemail,txtcoursename,txtmarks,txtstid,txtsname,txtsemester,txtusername,txtpassword,txtattendance;

```
private List MIDList;
Connection con;ResultSet rs;
Statement statement;
private JFrame frame;
private JMenuItem insert,delete,update,view;
public studentdetails(JPanel p,JFrame frame,JMenuItem insert,JMenuItem delete,JMenuItem update,JMenuItem
view)
{
    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
    }
    catch (Exception e)
    {
        System.err.println("Unable to find and load driver");
        System.exit(1);
    }
    connectToDB();

    this.frame=frame;
    this.insert=insert;
    this.delete=delete;
    this.update=update;
    this.view=view;

    lbladdress=new JLabel("Student Address");
    lblphone=new JLabel("Phone Number");
    lblemail=new JLabel("eamil");
    lblcoursename=new JLabel("Course Name");
    lblmarks=new JLabel("Marks");
    lblstid=new JLabel("Student id");
    lblsname=new JLabel("Student Name");
    lblsemester=new JLabel("Semester");
    lblusername=new JLabel("User id");
    lblpassword=new JLabel("Pass word");
    lblattendance=new JLabel("Attendance");

    txtaddress=new JTextField(500);
    txtphone=new JTextField(10);
    txtemail=new JTextField(20);
    txtcoursename=new JTextField(20);
    txtmarks=new JTextField(10);
    txtstid=new JTextField(20);
    txtsname=new JTextField(50);
    txtsemester=new JTextField(10);
    txtusername=new JTextField(20);
    txtpassword=new JTextField(20);
    txtattendance=new JTextField(50);

    this.p=p;
```

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```
    }

    public void connectToDB()
    {
        try {

            Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");

            statement=con.createStatement();
            statement.executeUpdate("commit");

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
            System.exit(1);
        }
    }

    private void displaySQLExceptions(SQLException e)
    {
        JOptionPane.showMessageDialog(p,"\nSQLException: " + e.getMessage() + "\n"+"SQLState: " +
        e.getSQLState() + "\n"+"VendorError: " + e.getErrorCode() + "\n");

    }

    public void loadMedIDs() {
        try {
            MIDList.removeAll();
            rs=statement.executeQuery("select stid from studentdetails");
            while(rs.next()) {
                MIDList.add(rs.getString("stid"));
            }
        }
        catch(SQLException e) {
            displaySQLExceptions(e);
        }
    }

    public void buildGUI() {

        insert.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                insertButton=new JButton("Submit");
                txtaddress.setText(null);
            }
        });
    }
}
```

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```
txtphone.setText(null);  
txtemail.setText(null);  
txtcoursename.setText(null);  
txtmarks.setText(null);  
txtstid.setText(null);  
txtsname.setText(null);  
txtsemester.setText(null);  
txtusername.setText(null);  
txtpassword.setText(null);  
txtattendance.setText(null);
```

```
p.removeAll();  
frame.invalidate();  
frame.validate();  
frame.repaint();
```

```
p1=new JPanel();
```

```
p1.setLayout(new GridLayout(11,2));  
p1.add(lbladdress);  
p1.add(txtaddress);  
p1.add(lblphone);  
p1.add(txtphone);  
p1.add(lblemail);  
p1.add(txtemail);  
p1.add(lblcoursename);  
p1.add(txtcoursename);  
p1.add(lblmarks);  
p1.add(txtmarks);  
p1.add(lblstid);  
p1.add(txtstid);  
p1.add(lblsname);  
p1.add(txtsname);  
p1.add(lblsemester);  
p1.add(txtsemester);  
p1.add(lblusername);  
p1.add(txtusername);  
p1.add(lblpassword);  
p1.add(txtpassword);  
p1.add(lblattendance);  
p1.add(txtattendance);
```

```
p3=new JPanel(new FlowLayout());  
p3.add(insertButton);  
//p1.add(txtf1);  
p3.setBackground(Color.yellow);  
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
p1.setBackground(Color.pink);
```

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```
p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(1000,1000);
frame.validate();

insertButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {
            String query="INSERT INTO studentdetails
VALUES("+txtaddress.getText()+",""+txtphone.getText()+",""+txtemail.getText()+",""+txtcoursename.getText()+",""+txt
marks.getText()+",""+txtstdid.getText()+",""+txtsname.getText()+",""+txtsemester.getText()+",""+txtusername.getText()+","
"+txtpassword.getText()+",""+txtattendance.getText()+")";

            int i=statement.executeUpdate(query);
            JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");loadMedIDs();

        }
        catch(SQLException insertException){
            displaySQLErrors(insertException);
        }

    }

});

delete.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        deleteButton=new JButton("delete");
        txtaddress.setText(null);
        txtphone.setText(null);
        txtemail.setText(null);
        txtcoursename.setText(null);
```

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```
txtmarks.setText(null);  
txtstid.setText(null);  
txtsname.setText(null);  
txtsemester.setText(null);  
txtusername.setText(null);  
txtpassword.setText(null);  
txtattendance.setText(null);
```

```
p.removeAll();  
frame.invalidate();  
frame.validate();  
frame.repaint();
```

```
p1=new JPanel();
```

```
p1.setLayout(new GridLayout(11,2));  
p1.add(lbladdress);  
p1.add(txtaddress);  
p1.add(lblphone);  
p1.add(txtphone);  
p1.add(lblemail);  
p1.add(txtemail);  
p1.add(lblcoursename);  
p1.add(txtcoursename);  
p1.add(lblmarks);  
p1.add(txtmarks);  
p1.add(lblstid);  
p1.add(txtstid);  
p1.add(lblsname);  
p1.add(txtsname);  
p1.add(lblsemester);  
p1.add(txtsemester);  
p1.add(lblusername);  
p1.add(txtusername);  
p1.add(lblpassword);  
p1.add(txtpassword);  
p1.add(lblattendance);  
p1.add(txtattendance);
```

```
p3=new JPanel(new FlowLayout());  
p3.add(deleteButton);  
//p1.add(txtf1);  
p3.setBackground(Color.yellow);  
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
p1.setBackground(Color.pink);
```

```
// p1.setBounds(100,100,500,300);
```

```
p2 = new JPanel(new FlowLayout());
```

```
MIDList=new List(10);  
loadMedIDs();
```

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```
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);
p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
studentdetails");

            while (rs.next())
            {
                if
                (rs.getString("stid").equals(MIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {
                txtaddress.setText(rs.getString("address"));

                txtphone.setText(rs.getString("phone"));
                txtemail.setText(rs.getString("email"));

                txtcoursename.setText(rs.getString("coursename"));

                txtmarks.setText(rs.getString("marks"));
                txtstid.setText(rs.getString("stid"));
                txtsname.setText(rs.getString("sname"));

                txtsemester.setText(rs.getString("semester"));

                txtusername.setText(rs.getString("username"));

                txtpassword.setText(rs.getString("password"));

                txtattendance.setText(rs.getString("attendance"));

            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();
```

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```
deleteButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub

        try {

            int a=JOptionPane.showConfirmDialog(p,"Are you sure want to delete:");
            if(a==JOptionPane.YES_OPTION){
                String query="DELETE FROM studentdetails WHERE

stid="+MIDList.getSelectedItemAt();

                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows

succesfully");loadMedIDs();

            }

        }
        catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }

    }

});

update.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        JButton updateButton = new JButton("Modify");
        txtaddress.setText(null);
        txtphone.setText(null);
        txtemail.setText(null);
        txtcoursename.setText(null);
        txtmarks.setText(null);
        txtstid.setText(null);
        txtsname.setText(null);
        txtsemester.setText(null);
        txtusername.setText(null);
        txtpassword.setText(null);
        txtattendance.setText(null);

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        p1=new JPanel();
```

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```
p1.setLayout(new GridLayout(11,2));
p1.add(lbladdress);
p1.add(txtaddress);
p1.add(lblphone);
p1.add(txtphone);
p1.add(lblemail);
p1.add(txtemail);
p1.add(lblcoursename);
p1.add(txtcoursename);
p1.add(lblmarks);
p1.add(txtmarks);
p1.add(lblstid);
p1.add(txtstid);
p1.add(lblsname);
p1.add(txtsname);
p1.add(lblsemester);
p1.add(txtsemester);
p1.add(lblusername);
p1.add(txtusername);
p1.add(lblpassword);
p1.add(txtpassword);
p1.add(lblattendance);
p1.add(txtattendance);
p3=new JPanel(new FlowLayout());
p3.add(updateButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;
```

```
p2 = new JPanel(new FlowLayout());
```

```
MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;
```

```
p2.setBounds(450,150,350,180);
```

```
p. add(p1);p.add(p3);
```

```
p. add(p2);
```

```
MIDList.addItemListener(new ItemListener()
```

```
{
```

```
    public void itemStateChanged(ItemEvent e)
```

```
    {
```

```
        try
```

```
        {
```

```
            rs=statement.executeQuery("select * from
```

```
studentdetails");
```

```
            while (rs.next())
```

```
            {
```

```
                if
```

```
(rs.getString("stid").equals(MIDList.getSelectedItem()))
```

```
                break;
```

```
            }
```

```
            if (!rs.isAfterLast())
```

```
            {
```

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```
txtaddress.setText(rs.getString("address"));

txtphone.setText(rs.getString("phone"));
txtemail.setText(rs.getString("email"));

txtcoursename.setText(rs.getString("coursename"));

txtmarks.setText(rs.getString("marks"));
txtstd.setText(rs.getString("std"));
txtsname.setText(rs.getString("sname"));

txtsemester.setText(rs.getString("semester"));

txtusername.setText(rs.getString("username"));

txtpassword.setText(rs.getString("password"));

txtattendance.setText(rs.getString("attendance"));

        }
    }
    catch (SQLException selectException)
    {
        displaySQLErrors(selectException);
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            int a=JOptionPane.showConfirmDialog(p,"Are
you sure want to update:");

            if(a==JOptionPane.YES_OPTION){
                String query="update studentdetails set
address='"+txtaddress.getText()+"',phone='"+txtphone.getText()+"',email='"+txtemail.getText()+"',coursename='"+txtcour
sename.getText()+"',marks='"+txtmarks.getText()+"',std='"+txtstd.getText()+"',sname='"+txtsname.getText()+"',semester
='"+txtsemester.getText()+"',username='"+txtusername.getText()+"',password='"+txtpassword.getText()+"',attendance='"+t
xtattendance.getText()+" WHERE std='"+MIDList.getSelectedItemAt();

                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\nupdated
"+i+" rows succesfully");loadMedIDs();

            }
        }
        catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }
    }
});
```

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```
        }

    }

    });

}

});

view.addActionListener(new ActionListener(){

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        Label view1=new Label("Students Details view");
        //view1.setAlignment(Label.CENTER);
        Font myFont = new Font("Serif",Font.BOLD,50);
        view1.setFont((myFont));
        viewButton=new JButton("View");
        p1=new JPanel();
        p2=new JPanel();
        p1.add(view1);
        p2.add(viewButton);p1.setBackground(Color.cyan) ;p2.setBackground(Color.yellow)

;

        p.add(p1);p.add(p2); p.setLayout(new FlowLayout());
        frame.add(p);
        frame.setSize(800,800);
        frame.validate();
        viewButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub

                JFrame f;

                JTable j;

                f = new JFrame();

                f.setTitle("Student details");

                DefaultTableModel model = new DefaultTableModel();
                j = new JTable(model);
                model.addColumn("address");
                model.addColumn("phone");
                model.addColumn("email");
                model.addColumn("coursename");
                model.addColumn("marks");
                model.addColumn("stid");
                model.addColumn("sname");
```

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```
model.addColumn("semester");
model.addColumn("username");
model.addColumn("password");
model.addColumn("attendance");

try {

    rs=statement.executeQuery("select *
from studentdetails");

    while(rs.next()) {
        model.addRow(new
Object[] {rs.getString("address"),
rs.getString("phone"),rs.getString("email"),rs.getString("coursename"),rs.getString("marks"),rs.getString("stid"),rs.getStri
ng("sname"),rs.getString("semester"),rs.getString("username"),rs.getString("password"),rs.getString("attendance")});
    }
} catch(SQLException viewException) {
    displaySQLErrors(viewException);
}
j.setEnabled(false);
j.setBounds(30, 40, 300, 300);

JScrollPane sp = new JScrollPane(j);
f.add(sp);

f.setSize(800, 400);

f.setVisible(true);

}

});

}

}
```

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Studentquery:

```
package sfnp;
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.Label;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class studentquery
{
/**
 *
 */
private static final long serialVersionUID = 1L;
private JButton insertButton,deleteButton,updateButton,viewButton;
private JPanel p1,p2,p3,p;
private JLabel lblqrdate,lblqrid,lblsfid,lblquestion,lblstatus,lblanswer,lblstid;
private JTextField txtqrdate,txtqrid,txtsfid,txtquestion,txtstatus,txtanswer,txtstid;

private List MIDList;
Connection con;ResultSet rs;
Statement statement;
private JFrame frame;
private JMenuItem insert,delete,update,view;
public studentquery(JPanel p,JFrame frame,JMenuItem insert,JMenuItem delete,JMenuItem update,JMenuItem view)
{

    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
    }
    catch (Exception e)
    {
```

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```
        System.err.println("Unable to find and load driver");
        System.exit(1);
    }
    connectToDB();

    this.frame=frame;
    this.insert=insert;
    this.delete=delete;
    this.update=update;
    this.view=view;

    lblqrdate=new JLabel("Query Date");
    lblqrid=new JLabel("Query id");
    lblsfid=new JLabel("Staff id");
    lblquestion=new JLabel("Question");
    lblstatus=new JLabel("Status");
    lblanswer=new JLabel("Answer");
    lblstid=new JLabel("Student id");

    txtqrdate=new JTextField(200);
    txtqrid=new JTextField(50);
    txtsfid=new JTextField(20);
    txtquestion=new JTextField(500);
    txtstatus=new JTextField(50);
    txtanswer=new JTextField(500);
    txtstid=new JTextField(10);

    this.p=p;

}

public void connectToDB()
{
    try {

        Connection con=DriverManager.getConnection(
        "jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");

        statement=con.createStatement();
        statement.executeUpdate("commit");

    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}

private void displaySQLErrors(SQLException e)
```

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```
{
    JOptionPane.showMessageDialog(p, "\nSQLException: " + e.getMessage() + "\n" + "SQLState: " +
e.getSQLState() + "\n" + "VendorError: " + e.getErrorCode() + "\n");
}
public void loadMedIDs() {
    try {
        MIDList.removeAll();
        rs=statement.executeQuery("select grid from studentquery");
        while(rs.next()) {
            MIDList.add(rs.getString("grid"));
        }
    }
    catch(SQLException e) {
        displaySQLErrors(e);
    }
}

public void buildGUI() {

    insert.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            insertButton=new JButton("Submit");
            txtqrcode.setText(null);
            txtqrid.setText(null);
            txtsfid.setText(null);
            txtquestion.setText(null);
            txtstatus.setText(null);
            txtanswer.setText(null);
            txtstid.setText(null);

            p.removeAll();
            frame.invalidate();
            frame.validate();
            frame.repaint();

            p1=new JPanel();

            p1.setLayout(new GridLayout(7,2));
            p1.add(lblqrcode);
            p1.add(txtqrcode);
            p1.add(lblqrid);
            p1.add(txtqrid);
            p1.add(lblsfid);
            p1.add(txtsfid);
            p1.add(lblquestion);
            p1.add(txtquestion);
            p1.add(lblstatus);
            p1.add(txtstatus);
        }
    });
}
```

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```
p1.add(lblanswer);
p1.add(txtanswer);
p1.add(lblstid);
p1.add(txtstid);

p3=new JPanel(new FlowLayout());
p3.add(insertButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink);

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan);

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

insertButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
try {
    String query="INSERT INTO studentquery
VALUES('"+txtqrdate.getText()+"','"+txtqrid.getText()+"','"+txtsfid.getText()+"','"+txtquestion.getText()+"','"+txtstatus.get
Text()+"','"+txtanswer.getText()+"','"+txtstid.getText()+"')";

    int i=statement.executeUpdate(query);
    JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");loadMedIDs();

}
catch(SQLException insertException){
    displaySQLErrors(insertException);
}

}
```

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```
        });  
    }  
});  
  
delete.addActionListener(new ActionListener() {  
  
    @Override  
    public void actionPerformed(ActionEvent arg0) {  
        // TODO Auto-generated method stub  
        deleteButton=new JButton("delete");  
        txtqrcode.setText(null);  
        txtqrid.setText(null);  
        txtsfid.setText(null);  
        txtquestion.setText(null);  
        txtstatus.setText(null);  
        txtanswer.setText(null);  
        txtstid.setText(null);  
  
        p.removeAll();  
        frame.invalidate();  
        frame.validate();  
        frame.repaint();  
  
        p1=new JPanel();  
  
        p1.setLayout(new GridLayout(7,2));  
        p1.add(lblqrcode);  
        p1.add(txtqrcode);  
        p1.add(lblqrid);  
        p1.add(txtqrid);  
        p1.add(lblsfid);  
        p1.add(txtsfid);  
        p1.add(lblquestion);  
        p1.add(txtquestion);  
        p1.add(lblstatus);  
        p1.add(txtstatus);  
        p1.add(lblanswer);  
        p1.add(txtanswer);  
        p1.add(lblstid);  
        p1.add(txtstid);  
  
        p3=new JPanel(new FlowLayout());  
        p3.add(deleteButton);  
        //p1.add(txtf1);  
        p3.setBackground(Color.yellow);  
        p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
        p1.setBackground(Color.pink) ;  
  
        // p1.setBounds(100,100,500,300);
```

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```
p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);
p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from studentquery");
            while (rs.next())
            {
                if
                (rs.getString("qrid").equals(MIDList.getSelectedItem()))
                {
                    break;
                }
                if (!rs.isAfterLast())
                {
                    txtqrcode.setText(rs.getString("qrcode"));
                    txtqrid.setText(rs.getString("qrid"));
                    txtsfid.setText(rs.getString("sfid"));
                    txtquestion.setText(rs.getString("question"));
                    txtstatus.setText(rs.getString("status"));
                    txtanswer.setText(rs.getString("answer"));
                    txtstid.setText(rs.getString("stid"));
                }
            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

deleteButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
    }
});

int a=JOptionPane.showConfirmDialog(p,"Are you sure want to delete:");
```

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```
        if(a==JOptionPane.YES_OPTION){
            String query="DELETE FROM studentquery WHERE
grid="+MIDList.getSelectedItemAt();

            int i=statement.executeUpdate(query);
            JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loadMedIDs();
        }

    }
    catch(SQLException deleteException){
        displaySQLErrors(deleteException);
    }

}

});

}
});

update.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        JButton updateButton = new JButton("Modify");
        txtqrcode.setText(null);
        txtqgrid.setText(null);
        txtsfid.setText(null);
        txtquestion.setText(null);
        txtstatus.setText(null);
        txtanswer.setText(null);
        txtstid.setText(null);

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        p1=new JPanel();

        p1.setLayout(new GridLayout(7,2));
        p1.add(lblqrcode);
        p1.add(txtqrcode);
        p1.add(lblqgrid);
        p1.add(txtqgrid);
        p1.add(lblsfid);
        p1.add(txtsfid);
        p1.add(lblquestion);
        p1.add(txtquestion);
        p1.add(lblstatus);
        p1.add(txtstatus);
        p1.add(lblanswer);
```

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```
p1.add(txtanswer);
p1.add(lblstid);
p1.add(txtstid);

p3=new JPanel(new FlowLayout());
p3.add(updateButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from studentquery");
            while (rs.next())
            {
                if
                (rs.getString("qrid").equals(MIDList.getSelectedItem()))
                {
                    break;
                }
                if (!rs.isAfterLast())
                {
                    txtqrcode.setText(rs.getString("qrcode"));
                    txtqrid.setText(rs.getString("qrid"));
                    txtsfid.setText(rs.getString("sfid"));
                    txtquestion.setText(rs.getString("question"));
                    txtstatus.setText(rs.getString("status"));
                    txtanswer.setText(rs.getString("answer"));
                    txtstid.setText(rs.getString("stid"));
                }
            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
```

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```
frame.setSize(800,800);
frame.validate();

updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            int a=JOptionPane.showConfirmDialog(p,"Are you sure
want to update:");

            if(a==JOptionPane.YES_OPTION){
                String query="update studentquery set
qrdate='"+txtqrdate.getText()+"',qrid='"+txtqrid.getText()+"',sfid='"+txtsfid.getText()+"',question='"+txtquestion.getText()
+ "',status='"+txtstatus.getText()+"',answer='"+txtanswer.getText()+"',stid='"+txtstid.getText()+" WHERE
qrid="+MIDList.getSelectedIndex();

                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\nupdated "+i+"
rows succesfully");loadMedIDs();

            }

        } catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }

    }

});

}

});

view.addActionListener(new ActionListener(){

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        Label view1=new Label("View Students Query's");
        //view1.setAlignment(Label.CENTER);
        Font myFont = new Font("Serif",Font.BOLD,50);
        view1.setFont(myFont);
        viewButton=new JButton("View");
        p1=new JPanel();
        p2=new JPanel();
        p1.add(view1);
        p2.add(viewButton);p1.setBackground(Color.cyan) ;p2.setBackground(Color.yellow) ;
        p.add(p1);p.add(p2); p.setLayout(new FlowLayout());
```

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```
frame.add(p);
frame.setSize(800,800);
frame.validate();
viewButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        JFrame f;

        JTable j;

        f = new JFrame();

        f.setTitle("Student Query's");

        DefaultTableModel model = new DefaultTableModel();
        j = new JTable(model);
        model.addColumn("qrdate");
        model.addColumn("qrid");
        model.addColumn("sfid");
        model.addColumn("question");
        model.addColumn("status");
        model.addColumn("answer");
        model.addColumn("stid");

        try {

            rs=statement.executeQuery("select * from
studentquery");

            while(rs.next()) {
                model.addRow(new
Object[] {rs.getString("qrdate"),
rs.getString("qrid"),rs.getString("sfid"),rs.getString("question"),rs.getString("status"),rs.getString("answer"),rs.getString("
stid")});
            }
        } catch(SQLException viewException) {
            displaySQLErrors(viewException);
        }
        j.setEnabled(false);
        j.setBounds(30, 40, 300, 300);

        JScrollPane sp = new JScrollPane(j);
        f.add(sp);

        f.setSize(800, 400);

        f.setVisible(true);

    }
}
```

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```
        });  
  
    }  
  
});  
  
}  
  
}
```

Assesmentdetails:

```
package sfnp;  
import java.awt.BorderLayout;  
import java.awt.Color;  
import java.awt.FlowLayout;  
import java.awt.Font;  
import java.awt.GridLayout;  
import java.awt.Label;  
import java.awt.List;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.awt.event.ItemEvent;  
import java.awt.event.ItemListener;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.sql.Statement;  
  
import javax.swing.JButton;  
import javax.swing.JFrame;  
import javax.swing.JLabel;  
import javax.swing.JMenuItem;  
import javax.swing.JOptionPane;  
import javax.swing.JPanel;  
import javax.swing.JScrollPane;  
import javax.swing.JTable;  
import javax.swing.JTextField;  
import javax.swing.table.DefaultTableModel;  
public class assesmentdetails  
{  
    /**  
    *  
    */  
    private static final long serialVersionUID = 1L;  
    private JButton insertButton,deleteButton,updateButton,viewButton;
```

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```
private JPanel p1,p2,p3,p;
private JLabel lblsubjectname,lblstid,lblassesmentid,lblstartdate,lblenddate;
private JTextField txtsubjectname,txtstid,txtassesmentid,txtstartdate,txtenddate;

private List MIDList;
Connection con;ResultSet rs;
Statement statement;
private JFrame frame;
private JMenuItem insert,delete,update,view;
public assesmentdetails(JPanel p,JFrame frame,JMenuItem insert,JMenuItem delete,JMenuItem update,JMenuItem
view)
{

    try
    {
        Class.forName("oracle.jdbc.driver.OracleDriver");
    }
    catch (Exception e)
    {
        System.err.println("Unable to find and load driver");
        System.exit(1);
    }
    connectToDB();

    this.frame=frame;
    this.insert=insert;
    this.delete=delete;
    this.update=update;
    this.view=view;

    lblsubjectname=new JLabel("Subject Name");
    lblstid=new JLabel("Student id");
    lblassesmentid=new JLabel("Assesment id");
    lblstartdate=new JLabel("Start Date");
    lblenddate=new JLabel("End Date");

    txtsubjectname=new JTextField(100);
    txtstid=new JTextField(50);
    txtassesmentid=new JTextField(20);
    txtstartdate=new JTextField(500);
    txtenddate=new JTextField(500);

    this.p=p;

}

public void connectToDB()
{
    try {
```

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```
Connection con=DriverManager.getConnection(
"jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");

statement=con.createStatement();
statement.executeUpdate("commit");

}
catch (SQLException connectException)
{
    System.out.println(connectException.getMessage());
    System.out.println(connectException.getSQLState());
    System.out.println(connectException.getErrorCode());
    System.exit(1);
}
}
private void displaySQLErrors(SQLException e)
{
    JOptionPane.showMessageDialog(p,"\nSQLException: " + e.getMessage() + "\n"+"SQLState:  " +
e.getSQLState() + "\n"+"VendorError:  " + e.getErrorCode() + "\n");

}
public void loadMedIDs() {
    try {
        MIDList.removeAll();
        rs=statement.executeQuery("select assesmentid from assesmentdetails");
        while(rs.next()) {
            MIDList.add(rs.getString("assesmentid"));
        }
    }
    catch(SQLException e) {
        displaySQLErrors(e);
    }
}

public void buildGUI() {

    insert.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            insertButton=new JButton("Submit");
            txtsubjectname.setText(null);
            txtstid.setText(null);
            txtassesmentid.setText(null);
            txtstartdate.setText(null);
        }
    });
}
```

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```
txtenddate.setText(null);
```

```
p.removeAll();  
frame.invalidate();  
frame.validate();  
frame.repaint();
```

```
p1=new JPanel();
```

```
p1.setLayout(new GridLayout(5,2));  
p1.add(lblsubjectname);  
p1.add(txtsubjectname);  
p1.add(lblstid);  
p1.add(txtstid);  
p1.add(lblassesmentid);  
p1.add(txtassesmentid);  
p1.add(lblstartdate);  
p1.add(txtstartdate);  
p1.add(lblenddate);  
p1.add(txtenddate);
```

```
p3=new JPanel(new FlowLayout());  
p3.add(insertButton);  
//p1.add(txtf1);  
p3.setBackground(Color.yellow);  
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
p1.setBackground(Color.pink) ;
```

```
p2 = new JPanel(new FlowLayout());
```

```
MIDList=new List(10);  
loadMedIDs();  
p2.add(MIDList);p2.setBackground(Color.cyan) ;
```

```
p2.setBounds(450,150,350,180);
```

```
p. add(p1);p.add(p3);  
p. add(p2);
```

```
p.setLayout(new BorderLayout());
```

```
frame.add(p);
```

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```
        frame.setSize(800,800);
        frame.validate();

        insertButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub

                try {
                    String query="INSERT INTO assesmentdetails
VALUES('"+txtsubjectname.getText()+"','"+txtstid.getText()+"','"+txtassesmentid.getText()+"','"+txtstartdate.getText()+"','"+
txtenddate.getText()+"')";

                    int i=statement.executeUpdate(query);
                    JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");loadMedIDs();

                }
                catch(SQLException insertException){
                    displaySQLErrors(insertException);
                }

            }

        });

        delete.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                deleteButton=new JButton("delete");
                txtsubjectname.setText(null);
                txtstid.setText(null);
                txtassesmentid.setText(null);
                txtstartdate.setText(null);
                txtenddate.setText(null);

                p.removeAll();
                frame.invalidate();
                frame.validate();
                frame.repaint();

                p1=new JPanel();

                p1.setLayout(new GridLayout(5,2));
                p1.add(lblsubjectname);
```

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```
p1.add(txtsubjectname);
p1.add(lblstid);
p1.add(txtstid);
p1.add(lblassesmentid);
p1.add(txtassesmentid);
p1.add(lblstartdate);
p1.add(txtstartdate);
p1.add(lblenddate);
p1.add(txtenddate);

p3=new JPanel(new FlowLayout());
p3.add(deleteButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

// p1.setBounds(100,100,500,300);

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);
p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
assesmentdetails");

            while (rs.next())
            {
                if
(rs.getString("assesmentid").equals(MIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {
```

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```
txtsubjectname.setText(rs.getString("subjectname"));
txtstdid.setText(rs.getString("stdid"));

txtassesmentid.setText(rs.getString("assesmentid"));
txtstartdate.setText(rs.getString("startdate"));
txtenddate.setText(rs.getString("enddate"));

        }
    }
    catch (SQLException selectException)
    {
        displaySQLErrors(selectException);
    }
}

});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

deleteButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
    try {

        int a=JOptionPane.showConfirmDialog(p,"Are you sure want to delete:");
        if(a==JOptionPane.YES_OPTION){
            String query="DELETE FROM assesmentdetails WHERE
assesmentid="+MIDList.getSelectedItemId();

            int i=statement.executeUpdate(query);
            JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loadMedIDs();

        }

    }
    catch(SQLException deleteException){
        displaySQLErrors(deleteException);
    }
}

});

}
});

update.addActionListener(new ActionListener() {
```

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```
@Override
public void actionPerformed(ActionEvent arg0) {
    // TODO Auto-generated method stub
    JButton updateButton = new JButton("Modify");
    txtsubjectname.setText(null);
    txtstid.setText(null);
    txtassesmentid.setText(null);
    txtstartdate.setText(null);
    txtenddate.setText(null);

    p.removeAll();
    frame.invalidate();
    frame.validate();
    frame.repaint();

    p1=new JPanel();

    p1.setLayout(new GridLayout(5,2));
    p1.add(lblsubjectname);
    p1.add(txtsubjectname);
    p1.add(lblstid);
    p1.add(txtstid);
    p1.add(lblassesmentid);
    p1.add(txtassesmentid);
    p1.add(lblstartdate);
    p1.add(txtstartdate);
    p1.add(lblenddate);
    p1.add(txtenddate);

    p3=new JPanel(new FlowLayout());
    p3.add(updateButton);
    //p1.add(txtf1);
    p3.setBackground(Color.yellow);
    p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
    p1.setBackground(Color.pink) ;

    p2 = new JPanel(new FlowLayout());

    MIDList=new List(10);
    loadMedIDs();
    p2.add(MIDList);p2.setBackground(Color.cyan) ;

    p2.setBounds(450,150,350,180);

    p. add(p1);p.add(p3);
    p. add(p2);
    MIDList.addItemListener(new ItemListener()
    {
        public void itemStateChanged(ItemEvent e)
```

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```
{
    try
    {
        rs=statement.executeQuery("select * from
assesmentdetails");

        while (rs.next())
        {
            if
(rs.getString("assesmentid").equals(MIDList.getSelectedItem()))
                break;
        }
        if (!rs.isAfterLast())
        {

            txtsubjectname.setText(rs.getString("subjectname"));

            txtstid.setText(rs.getString("stid"));

            txtassesmentid.setText(rs.getString("assesmentid"));

            txtstartdate.setText(rs.getString("startdate"));
            txtenddate.setText(rs.getString("enddate"));

        }
    }
    catch (SQLException selectException)
    {
        displaySQLErrors(selectException);
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            int a=JOptionPane.showConfirmDialog(p,"Are you sure
want to update:");

            if(a==JOptionPane.YES_OPTION){
                String query="update assesmentdetails set
subjectname='"+txtsubjectname.getText()+"',stid='"+txtstid.getText()+"',assesmentid='"+txtassesmentid.getText()+"',start
date='"+txtstartdate.getText()+"',enddate='"+txtenddate.getText()+"' WHERE assesmentid='"+MIDList.getSelectedItem();

                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\nupdated "+i+"
rows succesfully");loadMedIDs();
```

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```
        }

        }
        catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }
    }

    });

}
});

view.addActionListener(new ActionListener(){

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        Label view1=new Label("Assesments view");
        //view1.setAlignment(Label.CENTER);
        Font myFont = new Font("Serif",Font.BOLD,50);
        view1.setFont((myFont));
        viewButton=new JButton("View");
        p1=new JPanel();
        p2=new JPanel();
        p1.add(view1);
        p2.add(viewButton);p1.setBackground(Color.cyan) ;p2.setBackground(Color.yellow) ;
        p.add(p1);p.add(p2); p.setLayout(new FlowLayout());
        frame.add(p);
        frame.setSize(800,800);
        frame.validate();
        viewButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub

                JFrame f;

                JTable j;

                f = new JFrame();

                f.setTitle("Assesment Details");
```

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```
DefaultTableModel model = new DefaultTableModel();
j = new JTable(model);
model.addColumn("subjectname");
model.addColumn("stid");
model.addColumn("assesmentid");
model.addColumn("startdate");
model.addColumn("enddate");

try {

    rs=statement.executeQuery("select * from
assesmentdetails");

    while(rs.next()) {
        model.addRow(new
Object[]{rs.getString("subjectname"),
rs.getString("stid"),rs.getString("assesmentid"),rs.getString("startdate"),rs.getString("enddate")});
    }
}
catch(SQLException viewException) {
    displaySQLErrors(viewException);
}
j.setEnabled(false);
j.setBounds(30, 40, 300, 300);

JScrollPane sp = new JScrollPane(j);
f.add(sp);

f.setSize(800, 400);

f.setVisible(true);

}

});

}

});

}
```

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Login:

```
package sfnp;
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.Label;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenuitem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class login
{
    /**
     *
     */
    private static final long serialVersionUID = 1L;
    private JButton insertButton,deleteButton,updateButton,viewButton;
    private JPanel p1,p2,p3,p;
    private JLabel lbluser_id,lblpassword,lblusercategory;
    private JTextField txtuser_id,txtpassword,txtusercategory;

    private List MIDList;
    Connection con;ResultSet rs;
    Statement statement;
    private JFrame frame;
    private JMenuitem insert,delete,update,view;
    public login(JPanel p,JFrame frame,JMenuitem insert,JMenuitem delete,JMenuitem update,JMenuitem view)
    {

        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
        catch (Exception e)
```

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```
{
    System.err.println("Unable to find and load driver");
    System.exit(1);
}
connectToDB();

this.frame=frame;
this.insert=insert;
this.delete=delete;
this.update=update;
this.view=view;

lbluser_id=new JLabel("User id");
lblpassword=new JLabel("Pass word");
lblusercategory=new JLabel("User Category");

txtuser_id=new JTextField(30);
txtpassword=new JTextField(50);
txtusercategory=new JTextField(20);

this.p=p;

}

public void connectToDB()
{
    try {

        Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","rohith","vasavi");

        statement=con.createStatement();
        statement.executeUpdate("commit");

    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}

private void displaySQLErrors(SQLException e)
```

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```
{
    JOptionPane.showMessageDialog(p, "\nSQLException: " + e.getMessage() + "\n" + "SQLState:  " +
e.getSQLState() + "\n" + "VendorError: " + e.getErrorCode() + "\n");

}
public void loadMedIDs() {
    try {
        MIDList.removeAll();
        rs=statement.executeQuery("select user_id from login");
        while(rs.next()) {
            MIDList.add(rs.getString("user_id"));
        }
    }
    catch(SQLException e) {
        displaySQLErrors(e);
    }
}

public void buildGUI() {

    insert.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            insertButton=new JButton("Submit");
            txtuser_id.setText(null);
            txtpassword.setText(null);
            txtusercategory.setText(null);

            p.removeAll();
            frame.invalidate();
            frame.validate();
            frame.repaint();

            p1=new JPanel();

            p1.setLayout(new GridLayout(3,2));
            p1.add(lbluser_id);
            p1.add(txtuser_id);
            p1.add(lblpassword);
            p1.add(txtpassword);
            p1.add(lblusercategory);
            p1.add(txtusercategory);
        }
    });
}
```

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```
p3=new JPanel(new FlowLayout());
p3.add(insertButton);
//p1.add(txtf1);
p3.setBackground(Color.yellow);
p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
p1.setBackground(Color.pink) ;

p2 = new JPanel(new FlowLayout());

MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan) ;

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

insertButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
try {
    String query="INSERT INTO login
VALUES("+txtuser_id.getText()+"','"+txtpassword.getText()+"','"+txtusercategory.getText()+"")";

    int i=statement.executeUpdate(query);
    JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");loadMedIDs();

}
catch(SQLException insertException){
    displaySQLErrors(insertException);
}
}
```

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```
        });  
    }  
    });  
  
    delete.addActionListener(new ActionListener() {  
  
        @Override  
        public void actionPerformed(ActionEvent arg0) {  
            // TODO Auto-generated method stub  
            deleteButton=new JButton("delete");  
            txtuser_id.setText(null);  
            txtpassword.setText(null);  
            txtusercategory.setText(null);  
  
            p.removeAll();  
            frame.invalidate();  
            frame.validate();  
            frame.repaint();  
  
            p1=new JPanel();  
  
            p1.setLayout(new GridLayout(3,2));  
            p1.add(lbluser_id);  
            p1.add(txtuser_id);  
            p1.add(lblpassword);  
            p1.add(txtpassword);  
            p1.add(lblusercategory);  
            p1.add(txtusercategory);  
  
            p3=new JPanel(new FlowLayout());  
            p3.add(deleteButton);  
            //p1.add(txtf1);  
            p3.setBackground(Color.yellow);  
            p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);  
            p1.setBackground(Color.pink) ;  
  
            // p1.setBounds(100,100,500,300);  
  
            p2 = new JPanel(new FlowLayout());  
  
            MIDList=new List(10);  
            loadMedIDs();  
            p2.add(MIDList);p2.setBackground(Color.cyan) ;  
  
            p2.setBounds(450,150,350,180);
```

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```
p.add(p1);
p.add(p3);
p.add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from login");
            while (rs.next())
            {
                if
(rs.getString("user_id").equals(MIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {
                txtuser_id.setText(rs.getString("user_id"));
                txtpassword.setText(rs.getString("password"));

                txtusercategory.setText(rs.getString("usercategory"));

            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

deleteButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
try {

            int a=JOptionPane.showConfirmDialog(p,"Are you sure want to delete:");
            if(a==JOptionPane.YES_OPTION){
                String query="DELETE FROM login WHERE user_id="+MIDList.getSelectedItem();

                int i=statement.executeUpdate(query);
```

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```
        JOptionPane.showMessageDialog(p, "\nDeleted "+i+" rows
succesfully");loadMedIDs();
    }

    }
    catch(SQLException deleteException){
        displaySQLErrors(deleteException);
    }
    }

    });

}
});

update.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        JButton updateButton = new JButton("Modify");
        txtuser_id.setText(null);
        txtpassword.setText(null);
        txtusercategory.setText(null);

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        p1=new JPanel();

        p1.setLayout(new GridLayout(3,2));
        p1.add(lbluser_id);
        p1.add(txtuser_id);
        p1.add(lblpassword);
        p1.add(txtpassword);
        p1.add(lblusercategory);
        p1.add(txtusercategory);

        p3=new JPanel(new FlowLayout());
        p3.add(updateButton);
        //p1.add(txtf1);
        p3.setBackground(Color.yellow);
        p1.setBounds(115,80,300,250);p3.setBounds(200,350,75,35);
        p1.setBackground(Color.pink) ;

        p2 = new JPanel(new FlowLayout());
```

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```
MIDList=new List(10);
loadMedIDs();
p2.add(MIDList);p2.setBackground(Color.cyan );

p2.setBounds(450,150,350,180);

p. add(p1);p.add(p3);
p. add(p2);
MIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from login");
            while (rs.next())
            {
                if
(rs.getString("user_id").equals(MIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {
                txtuser_id.setText(rs.getString("user_id"));
                txtpassword.setText(rs.getString("password"));

                txtusercategory.setText(rs.getString("usercategory"));
            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});

p.setLayout(new BorderLayout());

frame.add(p);
frame.setSize(800,800);
frame.validate();

updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {

            int a=JOptionPane.showConfirmDialog(p,"Are you sure
```

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```
want to update:");

                                                                    if(a==JOptionPane.YES_OPTION){
                                                                    String query="update login set
user_id="+txtuser_id.getText()+" ,password='"+txtpassword.getText()+"',usercategory='"+txtusercategory.getText()+"
WHERE user_id="+MIDList.getSelectedItemId();

                                                                    int i=statement.executeUpdate(query);
                                                                    JOptionPane.showMessageDialog(p,"\\nupdated "+i+"

rows succesfully");loadMedIDs();

                                                                    }

                                                                    }
                                                                    catch(SQLException deleteException){
                                                                    displaySQLErrors(deleteException);
                                                                    }

                                                                    }

                                                                    });

                                                                    }
                                                                    });

view.addActionListener(new ActionListener(){

    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub

        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();

        Label view1=new Label("Login view");
        //view1.setAlignment(Label.CENTER);
        Font myFont = new Font("Serif",Font.BOLD,50);
        view1.setFont((myFont));
        viewButton=new JButton("View");
        p1=new JPanel();
        p2=new JPanel();
        p1.add(view1);
        p2.add(viewButton);p1.setBackground(Color.cyan) ;p2.setBackground(Color.yellow) ;
        p.add(p1);p.add(p2); p.setLayout(new FlowLayout());
        frame.add(p);
        frame.setSize(800,800);
        frame.validate();
        viewButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                JFrame f;
```

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```
        jTable j;  
  
        f = new JFrame();  
  
        f.setTitle("Login Details");  
  
        DefaultTableModel model = new DefaultTableModel();  
        j = new.JTable(model);  
        model.addColumn("user_id");  
        model.addColumn("password");  
        model.addColumn("usercategory");  
  
        try {  
  
            rs=statement.executeQuery("select * from  
login");  
            while(rs.next()) {  
                model.addRow(new  
Object[]{rs.getString("user_id"), rs.getString("password"),rs.getString("usercategory")});  
            }  
        }  
        catch(SQLException viewException) {  
            displaySQLErrors(viewException);  
        }  
        j.setEnabled(false);  
        j.setBounds(30, 40, 300, 300);  
  
        JScrollPane sp = new JScrollPane(j);  
        f.add(sp);  
  
        f.setSize(800, 400);  
  
        f.setVisible(true);  
  
    }  
  
    });
```

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```
    }  
  
    });  
  
}  
  
}
```

Loginpage:

```
package sfnp;
```

```
import java.awt.BorderLayout;  
import java.awt.EventQueue;  
import sfnp.*;  
import java.sql.*;  
import javax.sql.*;  
import javax.swing.*;  
import javax.swing.border.EmptyBorder;  
import javax.swing.event.MenuEvent;  
import javax.swing.event.MenuListener;  
import java.awt.event.ActionListener;  
import java.awt.event.ActionEvent;  
public class loginpage extends JFrame  
{  
    private static final long serialVersionUID = 1L;  
    private JFrame StudentFacultyNetworkingSystem;  
    private JTextField txtuserid;  
    private JPasswordField txtpwd;  
    private JPanel contentPane;  
    static String s;  
    static String str1;  
    public static void main(String[] args)  
    {  
        EventQueue.invokeLater(new Runnable()  
        {  
            public void run()  
            {  
                try  
                {  
                    loginpage window = new loginpage();  
                    window.StudentFacultyNetworkingSystem.setVisible(true);  
                }  
                catch (Exception e)  
                {  
                    e.printStackTrace();  
                }  
            }  
        });  
    }  
    public loginpage() {  
        initialize();  
    }  
    JButton btnLogin;
```

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```
JLabel lblNewLabel_2;
private void initialize()
{
    StudentFacultyNetworkingSystem = new JFrame();
    StudentFacultyNetworkingSystem.setTitle("Student Faculty Networking System");
    StudentFacultyNetworkingSystem.setBounds(400, 400, 450, 300);
    StudentFacultyNetworkingSystem.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    StudentFacultyNetworkingSystem.getContentPane().setLayout(null);
    JMenuBar menuBar = new JMenuBar();
    StudentFacultyNetworkingSystem.setJMenuBar(menuBar);
    JMenu mnNewMenu = new JMenu("Login");
    mnNewMenu.addMenuListener(new MenuListener() {
        public void menuCanceled(MenuEvent e) {
        }
        public void menuDeselected(MenuEvent e) {
        }
        public void menuSelected(MenuEvent e) {
            btnLogin.setVisible(true);
            lblNewLabel_2.setVisible(false);
        }
    });
    menuBar.add(mnNewMenu);
    txtuserid = new JTextField();
    txtuserid.setBounds(198, 47, 96, 20);
    StudentFacultyNetworkingSystem.getContentPane().add(txtuserid);
    txtuserid.setColumns(10);

    JLabel lblNewLabel = new JLabel("Login Id");
    lblNewLabel.setBounds(76, 50, 84, 14);
    StudentFacultyNetworkingSystem.getContentPane().add(lblNewLabel);

    JLabel lblNewLabel_1 = new JLabel("Password");
    lblNewLabel_1.setBounds(76, 88, 84, 14);
    StudentFacultyNetworkingSystem.getContentPane().add(lblNewLabel_1);

    /*lblNewLabel_2 = new JLabel("User Name");
    lblNewLabel_2.setBounds(76, 126, 84, 14);
    StudentFacultyNetworkingSystem.getContentPane().add(lblNewLabel_2);
    lblNewLabel_2.setVisible(false);*/

    btnLogin = new JButton("Login");
    btnLogin.addActionListener(new ActionListener()
    {
        public void actionPerformed(ActionEvent e) {
            boolean isValidUser=false;
            try
            {
                DBconnection connect = new DBconnection();
                Connection con = connect.getConnection();
                Statement stmt=con.createStatement();
                str1=txtuserid.getText();
```

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STUDENT FACULTY NETWORKING PLATFORM

```
String txt = "select usercategory from login where user_id =
"+txtuserid.getText()+" and password ="+"new String(txtpwd.getPassword())+""";
ResultSet rs=stmt.executeQuery(txt);
if(rs.next())
{
    s=rs.getString("usercategory");
    isValidUser = true;
}
rs.close();

}
catch(Exception ex) {
    System.out.println(ex);
}
if(isValidUser) {
    userinterface h=new userinterface();

}
else
{
    JOptionPane.showMessageDialog(null,"Invalid login");
}

}

});
btnLogin.setBounds(150, 160, 89, 23);
StudentFacultyNetworkingSystem.getContentPane().add(btnLogin);
txtpwd = new JPasswordField();
txtpwd.setBounds(198, 85, 96, 20);
StudentFacultyNetworkingSystem.getContentPane().add(txtpwd);
}
}
```

Github links and folder structure:

Link: <https://github.com/MiryalaRohith/DBMS-Project>

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Folder structure:

The screenshot shows a Windows File Explorer window with the address bar displaying the path: This PC > OS (C:) > Users > rohit > eclipse-workspace > student faculty networking platform. The window contains a table of files and folders:

Name	Date modified	Type	Size
.settings	14-Jun-21 08:29 PM	File folder	
bin	18-Jun-21 02:28 PM	File folder	
src	14-Jun-21 08:39 PM	File folder	
.classpath	14-Jun-21 09:15 PM	CLASSPATH File	1 KB
.project	14-Jun-21 08:29 PM	PROJECT File	1 KB

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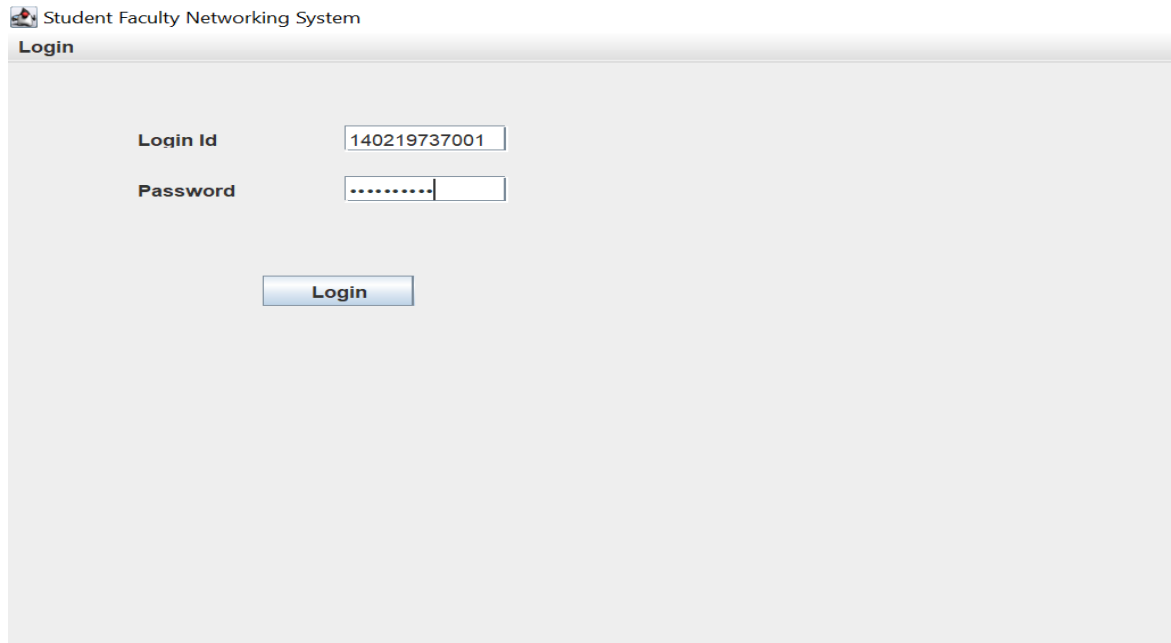
STUDENT FACULTY NETWORKING PLATFORM

This PC > OS (C:) > Users > rohit > eclipse-workspace > student faculty networking platform > src						Search
	Name	Date modified	Type	Size		
s	sfnp	18-Jun-21 01:26 PM	File folder			
s						
:s						
s						
ne (A:)						


This PC > OS (C:) > Users > rohit > eclipse-workspace > student faculty networking platform > src > sfnp						Search sfnp
	Name	Date modified	Type	Size		
is	assessmentdetails	18-Jun-21 08:49 PM	JAVA File	14 KB		
	DBconnection	18-Jun-21 01:09 PM	JAVA File	1 KB		
	login	18-Jun-21 08:53 PM	JAVA File	13 KB		
ts	loginpage	18-Jun-21 05:43 PM	JAVA File	4 KB		
	staffdetails	18-Jun-21 08:56 PM	JAVA File	16 KB		
	staffsubjects	18-Jun-21 08:58 PM	JAVA File	14 KB		
ts	studentdetails	18-Jun-21 09:03 PM	JAVA File	17 KB		
ls	studentquery	18-Jun-21 09:07 PM	JAVA File	14 KB		
	subjectdetails	18-Jun-21 09:09 PM	JAVA File	19 KB		
	userinterface	18-Jun-21 02:49 PM	JAVA File	8 KB		
me (A:)						

TESTING OUTPUTS:

Admin:




The screenshot shows a window titled "Student Faculty Networking System" with a "Login" header. It contains two input fields: "Login Id" with the value "140219737001" and "Password" with masked characters ".....". A "Login" button is positioned below the password field.



The screenshot shows a window titled "Student Faculty Networking Platform" with a navigation bar containing links: "subjectdetails", "staffsubjects", "staffdetails", "studentdetails", "studentquery", "assesmentdetails", and "login". The main content area is a large yellow rectangle with the text "Student Faculty Networking Platform" centered at the top.

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STUDENT FACULTY NETWORKING PLATFORM

 Student Faculty Networking Platform

[subjectdetails](#) [staffsubjects](#) [staffdetails](#) [studentdetails](#) [studentquery](#) [assesmentdetails](#) [login](#)

User id

160219737003

Pass word

789

User Category

Student

160219737001

160219737002


150219737001

150219737002

150219737003

140219737001

Submit

 Student Faculty Networking Platform

[subjectdetails](#) [staffsubjects](#) [staffdetails](#) [studentdetails](#) [studentquery](#) [assesmentdetails](#) [login](#)

User id

160219737003

Pass word

789

User Category

Student

160219737001

160219737002

150219737001

150219737002

150219737003

140219737001

Submit

Message

inserted 1 rows succesfully

OK

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails login

User id

160219737003

Pass word

101112

User Category

Student

Modify

160219737001

160219737002

150219737001

150219737002

150219737003

140219737001

160219737003

Message

updated 1 rows succesfully

OK

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails login

Login view

View

STUDENT FACULTY NETWORKING PLATFORM

Login Details

user_id	password	usercategory
160219737001	123	Student
160219737002	456	Student
150219737001	123	Staff
150219737002	456	Staff
150219737003	678	Staff
140219737001	7893174770	Admin
160219737003	101112	Student

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails login

User id

160219737003

Pass word

101112

User Category

delete

160219737001

160219737002

150219737001

150219737002

150219737003

140219737001

160219737003

Message

Deleted 1 rows succesfully

OK

STUDENT FACULTY NETWORKING PLATFORM

Login Details		
user_id	password	usercategory
160219737001	123	Student
160219737002	456	Student
150219737001	123	Staff
150219737002	456	Staff
150219737003	678	Staff
140219737001	7893174770	Admin

Student Faculty Networking Platform


[subjectdetails](#) [staffsubjects](#) [staffdetails](#) [studentdetails](#) [studentquery](#) [assesmentdetails](#) [login](#)

User id	4
Staff Name	Prasad
Staff Address	Plot-61,Nagole,HYD,TS
Staff id	4
Staff Qualification	M.Tech,PhD in ML
staff email	prasad.1@gmail.com
Staff Mobile	7884456778
Password	101112

Submit

1
2
3

Message

 inserted 1 rows succesfully

OK

Name: M. ROHITH

Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails

staffsubjects

staffdetails

studentdetails

studentquery

assesmentdetails

login

View Staff Details

View

username	sfanme	sfaddress	sfid	sfqualification	sfemail	sfmobile	password
150219737001	chunk	plot-63,hyd	1	M.TECH,PHD i...	chunk.ofia@gm...	8897857199	123
150219737002	lore	plot-91,WD	2	M.TECH	lore.kiko@gm...	9440235450	456
150219737003	martha	plot no-099,TS	3	M.TECH	martha.eba@g...	7893174770	789
4	Prasad	Plot-61,Nagole,...	4	M.Tech,PhD in ...	prasad.1@gma...	7884456778	101112

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails

staffsubjects

staffdetails

studentdetails

studentquery

assesmentdetails

login

User id

Staff Name

Staff Address

Staff id

Staff Qualification

staff email

Staff Mobile

Password

150219737004

Prasad

Plot-61,Nagole,HYD,TS

4

M.Tech,PhD in ML

prasad.1@gmail.com

7884456778

1

2

3

150219737004

Modify

Message

updated 1 rows succesfully

OK

Staff details							
username	sfanme	sfaddress	sfid	sfqualification	sfemail	sfmobile	password
150219737001	chunk	plot-63,hyd	1	M.TECH,PHD i...	chunk.ofia@gm...	8897857199	123
150219737002	lore	plot-91,WD	2	M.TECH	lore.kiko@gm...	9440235450	456
150219737003	martha	plot no-099,TS	3	M.TECH	martha.eba@g...	7893174770	789
150219737004	Prasad	Plot-61,Nagole,...	4	M.Tech,PhD in ...	prasad.1@gma...	7884456778	101112

Name: M. ROHITH
Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails

staffsubjects

staffdetails

studentdetails

studentquery

assesmentdetails

login

User id

Staff Name

Staff Address

Staff id

Staff Qualification

staff email

Staff Mobile

Password

150219737004

Prasad

Plot-61,Nagole,HYD,TS

4

M.Tech,PhD in ML

prasad.1@gmail.com

7884456778

1

2

3

4

delete

Message

Deleted 1 rows succesfully

OK

username	sfanme	sfaddress	sfid	sfqualification	sfemail	sfmobile	password
150219737001	chunk	plot-63,hyd	1	M.TECH,PHD i...	chunk.ofia@gm...	8897857199	123
150219737002	lore	plot-91,WD	2	M.TECH	lore.kiko@gm...	9440235450	456
150219737003	martha	plot no-099,TS	3	M.TECH	martha.eba@g...	7893174770	789

Name: M. ROHITH
Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

 Student Faculty Networking System

Login

Login Id

140219737002

Password

.....

Login


Message



Invalid login

OK

Student:

 Student Faculty Networking System

Login

Login Id

160219737001

Password


...

Login

Name: M. ROHITH

Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

 Student Faculty Networking Platform

subjectdetails


staffsubjects

studentdetails

studentquery

assesmentdetails

Student Faculty Networking Platform

<div><div> Assesment Details</div><div><div></div><div></div><div></div></div></div>				
subjectname	stid	assesmentid	startdate	enddate
PE3	3	3	18-Jun-2021	28-Jun-2021
PE1	1	1	17-Jun-2021	27-Jun-2021
PE2	2	2	18-Jun-2021	27-Jun-2021

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails staffsubjects studentdetails studentquery assesmentdetails

Query Date	19-Jun-2021
Query id	3
Staff id	3
Question	Assignmet-1 Not yet given
Status	-
Answer	-
Student id	1

Submit

Message

inserted 1 rows succesfully

OK

Student Faculty Networking Platform

subjectdetails staffsubjects studentdetails studentquery assesmentdetails

View Students Query's

View

Name: M. ROHITH
Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM



Student Query's



qrdate	qid	sfid	question	status	answer	stid
19-Jun-2021	3	3	Assignmet-1 Not y...	-	-	1
18-Jun-2021	2	2	Assignmets-1 DS ...	Answered	Check Once agai...	2
17-Jun-2021	1	1	Assignment-3 Has...	Answered	Will be given soon.	1



Student Faculty Networking Platform



[subjectdetails](#) [staffsubjects](#) [studentdetails](#) [studentquery](#) [assesmentdetails](#)

Students Details view

View

Name: M. ROHITH

Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Student details

address	phone	email	coursename	marks	stid	sname	semester	username	password	attendance
plot-45,NLG	9898989898	rohith.mi@...	BTECH	100	1	ROHITH	1	16021973...	123	100
plot-50,HYD	4545454545	varun.gr@...	BTECH	99	2	VARUN	1	16021973...	456	100

Student Faculty Networking Platform

subjectdetails staffsubjects studentdetails studentquery assesmentdetails

View Staff Subject

View

Name: M. ROHITH
Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Staff Subjects

subjects	course	sfid	allotid	subid	semester
maths spod ds	BTECH	1	1	1	1
JAVA PYTHON ML	M.TECH	2	2	2	1
PE1 PE2 PE3	PHD	3	3	3	1


Student Faculty Networking Platform

subjectdetails staffsubjects studentdetails studentquery assesmentdetails

Subject view

View

STUDENT FACULTY NETWORKING PLATFORM

 Subject details


—

□

×

semester	coursen...	timetable	subject1	subject2	subject3	subject4	subject5	subject6	subject7	subject8	subject9	subject10	subid
1	PHD	GIVEN	PE1	PE2	PE3	PE4	PE5	PE6	PE7	PE8	PE9	ML	3
1	BTECH	yet to re...	maths	SPOD	ENGLISH	DS	BEE	BEE LAB	C	C LAB	DS LAB	ED	1
1	M.TECH	YET T...	DA	DS LAB	JAVA	JAVA LAB	DBMS	DBMS ...	PYTHON	PYTHO...	ML	ML LAB	2

Staff:

 Student Faculty Networking System

Login

Login Id

150219737001

Password

...

Login

Name: M. ROHITH
Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails

Student Faculty Networking Platform

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails

Subject Name	OE
Student id	2
Assesment id	2
Start Date	19-Jun-2021
End Date	29-Jun-2021

3
1

Message
inserted 1 rows succesfully
OK

Submit

STUDENT FACULTY NETWORKING PLATFORM

Assesment Details				
subjectname	stdid	assesmentid	startdate	enddate
PE3	3	3	18-Jun-2021	28-Jun-2021
OE	2	2	19-Jun-2021	29-Jun-2021
PE1	1	1	17-Jun-2021	27-Jun-2021

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails

Subject Name

Student id

Assesment id

Start Date

End Date

OE

2

2

25-Jun-2021

28-Jun-2021

3

2

1

Modify

Message

i

updated 1 rows succesfully

OK

Name: M. ROHITH

Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails

Subject Name

OE

Student id

2

Assesment id

2

Start Date

25-Jun-2021

End Date

28-Jun-2021

delete

3

2

1

Message

Deleted 1 rows succesfully

OK

Assesment Details				
subjectname	stid	assesmentid	startdate	enddate
PE3	3	3	18-Jun-2021	28-Jun-2021
PE1	1	1	17-Jun-2021	27-Jun-2021

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails

Query Date

19-Jun-2021

Query id

3

Staff id

3

Question

Assignmet-1 Not yet given

Status

Answered

Answer

Will be given soon

Student id

3
2
1

Modify

Message

i

updated 1 rows succesfully

OK

Student Query's

qrdate	qrid	sfid	question	status	answer	stid
19-Jun-2021	3	3	Assignmet-1 Not y...	Answered	Will be given soon	1
18-Jun-2021	2	2	Assignmets-1 DS ...	Answered	Check Once agai...	2
17-Jun-2021	1	1	Assignment-3 Has...	Answered	Will be given soon.	1

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails

staffsubjects

staffdetails

studentdetails

studentquery

assesmentdetails

Semester	1	Course Name
PHD	Time Table	GIVEN
Subject-1	PE1	Subject-2
PE2	Subject-3	PE3
Subject-4	PE4	Subject-5
PE5	Subject-6	PE6
Subject-7	PE7	Subject-8
PE8	Subject-9	AI
Subject-10	ML	Subject id
3		

1
2
3

Message

updated 1 rows succesfully

OK

Modify

Student Faculty Networking Platform

subjectdetails

staffsubjects

staffdetails

studentdetails

studentquery

assesmentdetails

Student Address	plot-50,HYD
Phone Number	4545454545
eamil	varun.gr@gmail.com
Course Name	BTECH
Marks	100
Student id	2
Student Name	VARUN
Semester	1
User id	160219737002
Pass word	456
Attendance	

1
2

Message

updated 1 rows succesfully

OK

Modify

Name: M. ROHITH
Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails

Student Address	plot-50,HYD
Phone Number	4545454545
eamil	varun.gr@gmail.com
Course Name	BTECH
Marks	100
Student id	2
Student Name	VARUN
Semester	1
User id	160219737002
Pass word	
Attendance	

Select an Option

Are you sure want to Quit Student Faculty Networking Platform:

Yes No Cancel

Student Faculty Networking Platform

subjectdetails staffsubjects staffdetails studentdetails studentquery assesmentdetails

Student Address	plot-50,HYD
Phone Number	4545454545
eamil	varun.gr@gmail.com
Course Name	BTECH
Marks	100
Student id	2
Student Name	VARUN
Semester	1
User id	160219737002
Pass word	
Attendance	

Quit

Thank you!
Exiting Student Faculty Networking Platform

OK

Name: M. ROHITH

Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

Database Outputs:

Before:

```
SQL> select * from assesmentdetails;
```

```
SUBJECTNAME
-----
      STID ASSESSMENTID
-----
STARTDATE
-----
ENDDATE
-----
DS
      1          1
08-MAY-2021
18-MAY-2021

SUBJECTNAME
-----
      STID ASSESSMENTID
-----
STARTDATE
-----
ENDDATE
-----
DS
      2          2
08-MAY-2021
18-MAY-2021

SUBJECTNAME
-----
      STID ASSESSMENTID
-----
STARTDATE
-----
ENDDATE
-----
DS
      3          3
08-MAY-2021
```

```
SUBJECTNAME
-----
      STID ASSESSMENTID
-----
STARTDATE
-----
ENDDATE
-----
DS
      3          3
08-MAY-2021
18-MAY-2021
```

Name: M. ROHITH

Roll No:1602-19-737-089.

STUDENT FACULTY NETWORKING PLATFORM

After:

```
SQL> select * from assesmentdetails;
```

```
SUBJECTNAME
```

```
-----  
STID ASSESMENTID
```

```
-----  
STARTDATE
```

```
-----  
ENDDATE
```

```
-----  
PE3
```

```
3 3  
18-Jun-2021  
28-Jun-2021
```

```
SUBJECTNAME
```

```
-----  
STID ASSESMENTID
```

```
-----  
STARTDATE
```

```
-----  
ENDDATE
```

```
-----  
PE1
```

```
1 1  
17-Jun-2021  
27-Jun-2021
```

DISCUSSION AND FUTURE WORK:

So far, this project has helped us assign assignments to students by staff and students will be able to view assignments their marks, and due dates. In future we try to include an option which allows students to know their mistakes in their assignments and staff can highlight the mistakes by students in their respective submissions.

REFERENCES:

1. Abraham Silberschatz, Henry F Korth, S. Sudarshan, Database System Concepts, 6th Edition, McGraw-Hill International Edition, 2010.
2. https://docs.oracle.com/cd/E11882_01/server.112/e40540/intro.htm#CNCPT001

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Roll No:1602-19-737-089.