SECTION – K21QT
SUBJECT -CSE310
TOPIC – UNIVERSITY MANAGEMENT SYSTEM
SUBJECT TEACHER – BHIMASEN MOHARANA SIR
COLLEGE – LOVELY PROFESSIONAL UNIVERSITY

TEAM MEMBERS FOR PROJECT ARE –

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CHAPTER 1

INTRODUCTION

1.1 Overview:

UNIVERSITY MANAGEMENT SYSTEM (UMS) is a flagship product of Easy Solution which covers all aspects of Universities, Colleges or Schools. UMS covers every minute aspects of a universities work flow and integrates all processes with user friendly interface. With hundreds of satisfied customers UMS is first choice of several state, governments/semi-government universities and institutions. UMS is an outcome of hard work done by our expert technical team in supervision of several renowned educationists which includes Controller of examination, faculties. UMS is a rare combination of experience and precision. UMS streamline path of information flow in organization by taking care of following departments:

- Fee Department
- Examination Department
- Attendance
- Faculty information portal
- Student information portal

1.2 Purpose:

- Drive operational efficiency.
- Self-service systems with simple to use with little or no training.
- Elimination of duplicate data entry processes.
- Integrated with Online Application workflow with unified data model.
- Monitoring and decision support system.
- Automation of all the Academic / Examination / Administration operations.
- Ease and accuracy of reporting.

1.3 Scope:

This project deals with the various functioning in College management process. The main idea is to implement a proper process to system. In our existing system contains a many operations registration, student search, fees, attendance, exam records, performance of the student etc. All these activity takeout manually by administrator.

CHAPTER 2

REQUIREMENT SPECIFICATIONS

2.1 Hardware Requirements :

Processor Brand	: Intel
Processor Type	: Core i5
Processor Speed	: 2 GHz
Processor Count	: 1
RAM Size	: 4 GB
Memory Technology	: DDR3
Computer Memory Type	: DDR3 SDRAM
Hard Drive Size	: 160 GB

2.2 Software Requirements :

Operating system	: Windows 11
Application server	: JAVA (NetBeans)
Front end	: JAVA
Connectivity	: JDBC Driver
Database connectivity	: WAMP (MYSQL Console)

CHAPTER 3

TOOL DESCRIPTION

3.1 Overview of Front End

An important issue for the development of a project is the selection of suitable front-end and back-end. When we decided to develop the project we went through an extensive study to determine the most suitable platform that suits the needs of the organization as well as helps in development of the project.

The aspects of our study included the following factors.

Front-end selection:

1. It must have a graphical user interface that assists employees that are not from IT background.
2. Scalability and extensibility.
3. Flexibility.
4. Robustness.
5. According to the organization requirement and the culture.
6. Must provide excellent reporting features with good printing support.
7. Platform independent.
8. Easy to debug and maintain.
9. Event driven programming facility.
10. Front end must support some popular back end like MySQL.

3.1.1 About Java:

Java is a general-purpose, class-based, object-oriented programming language designed for having lesser implementation dependencies. It is a computing platform for application development. Java is fast, secure, and reliable, therefore. It is widely used for developing Java applications in laptops, data centers, game consoles, scientific supercomputers, cell phones, etc.

Here are some important Java applications:

- It is used for developing Android Apps
- Helps you to create Enterprise Software
- Wide range of Mobile java Applications
- Scientific Computing Applications
- Use for Big Data Analytics
- Java Programming of Hardware devices
- Used for Server-Side Technologies like Apache, JBoss, GlassFish, etc.

3.2 Overview of Back End

Back End Selection:

1. Multiple user support.
2. Efficient data handling.
3. Provide inherent features for security.
4. Efficient data retrieval and maintenance.
5. Stored procedures.
6. Popularity.
7. Operating System compatible.
8. Easy to install.
9. Various drivers must be available.
10. Easy to implant with the Front-end.

According to above stated features we selected MySQL as the backend.

The technical feasibility is frequently the most difficult area encountered at this stage. It is essential that the process of analysis and definition be conducted in parallel with an assessment to technical feasibility. It centers on the existing computer system (hardware, software etc.) and to what extent it can support the proposed system.

3.2.1 About SQL:

SQL is Structured Query Language, which is a computer language for storing, manipulating and retrieving data stored in a relational database.

SQL is the standard language for Relational Database System. All the Relational Database Management Systems (RDMS) like MySQL, MS Access, Oracle, Sybase, Informix, Postgres and SQL Server use SQL as their standard database language.

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons.[1]

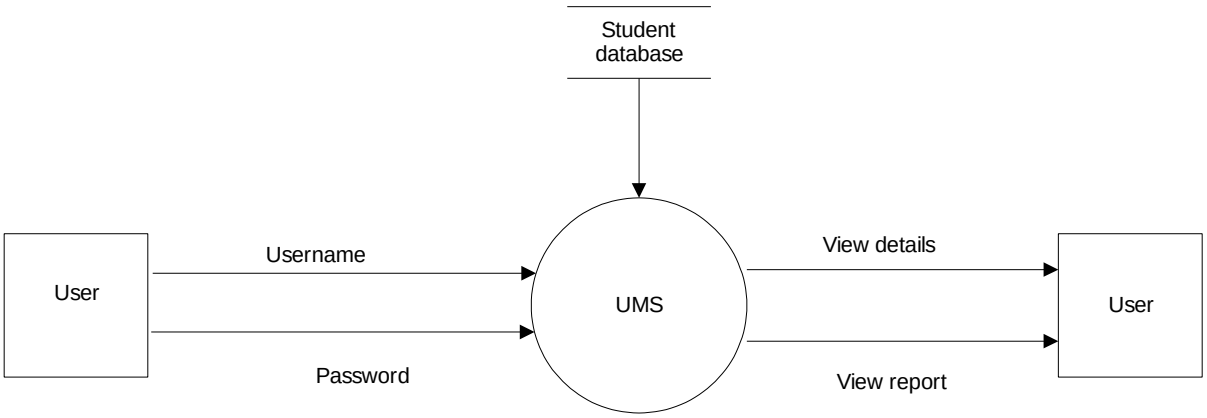
MySQL is released under an open-source license. So you have nothing to pay to use it. MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages. MySQL uses a standard form of the well-known SQL data language. MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.

MySQL works very quickly and works well even with large data sets. MySQL is very friendly to PHP, the most appreciated language for web development. MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).

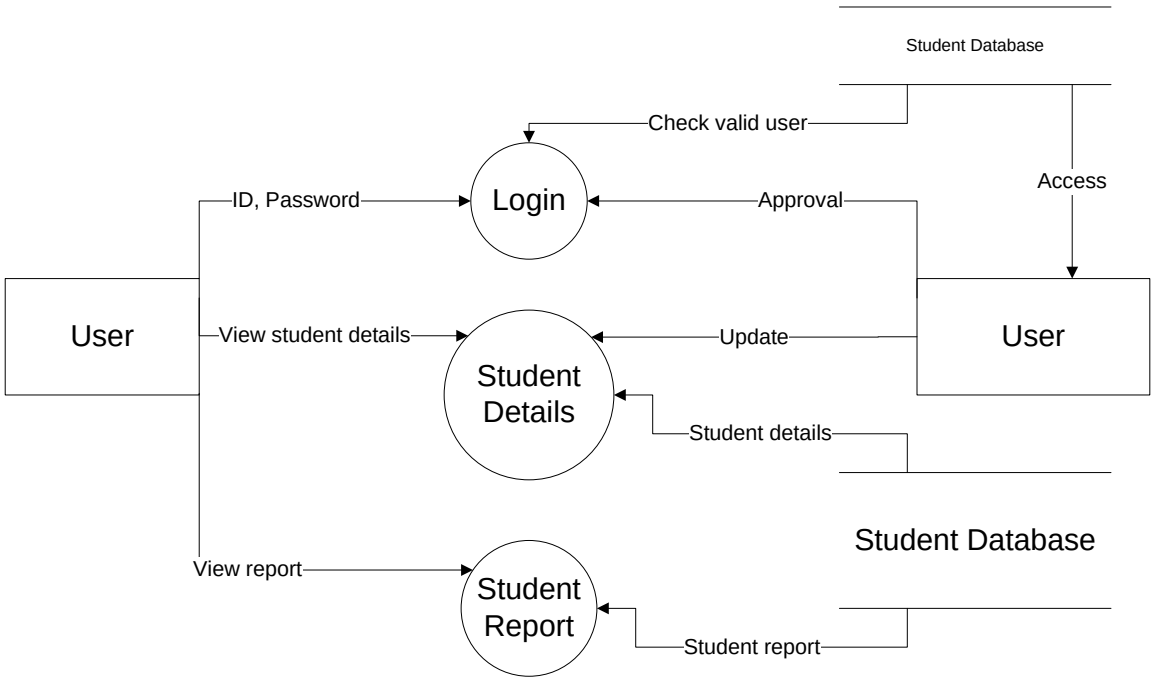
Also, they are using different dialects, such as −

- Oracle using PL/SQL,.
- SQL is widely popular because it offers the following advantages −
- Allows users to access data in the database management systems.
- Allows users to describe the data.relational
- Allows users to define the data in a database and manipulate that data.
- Allows to embed within other languages using SQL modules, libraries & pre-compilers.
- Allows users to create and drop databases and tables.
- Allows users to create view, stored procedure, functions in a database.
- Allows users to set permissions on tables, procedures and views.

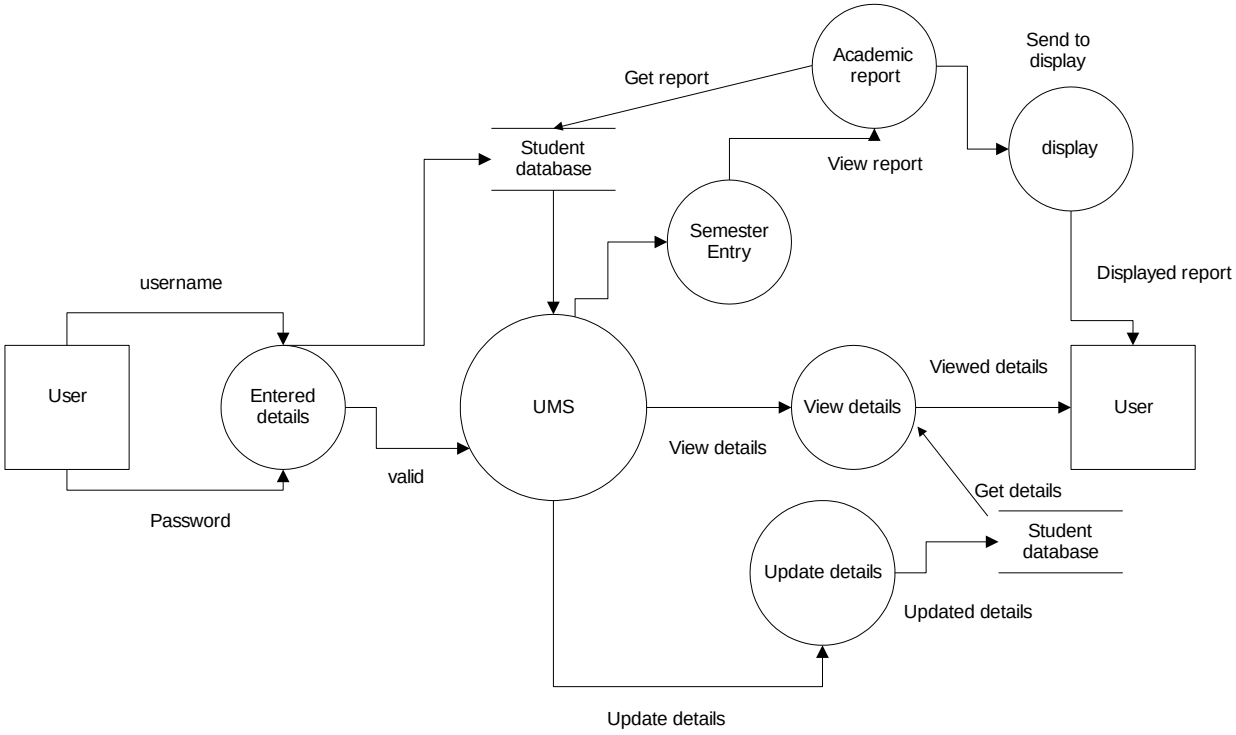
Level 0 Data Flow Diagram



Level 1 Data Flow Diagram



Level 2 Data Flow Diagram



CHAPTER 4

REQUIREMENT ANALYSIS

4.1 E-R DIAGRAM:

ER Diagram: ER Diagram is a high-level conceptual data model diagram. Entity-Relation model is based on the notion of real-world entities and the relationship between them. ER modelling helps you to analyse data requirements systematically to produce a well-designed database.

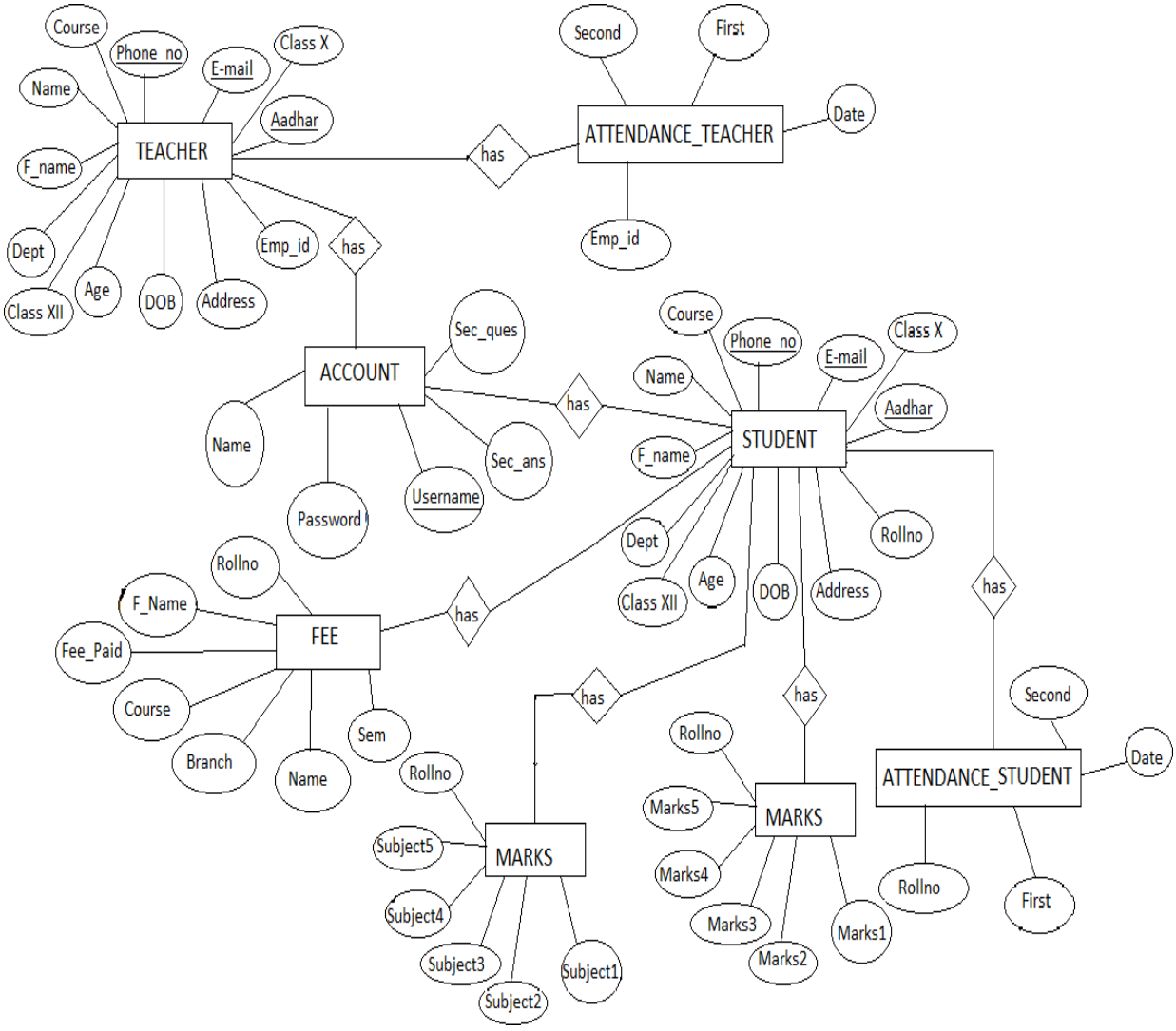


Figure 4.1: ER Diagram for Smartphone Management Arena

4.2 SCHEMA DIAGRAM:

Schema diagram A schema diagram is the skeleton structure that represents the logical view of the entire database. It contains a descriptive detail of the database.

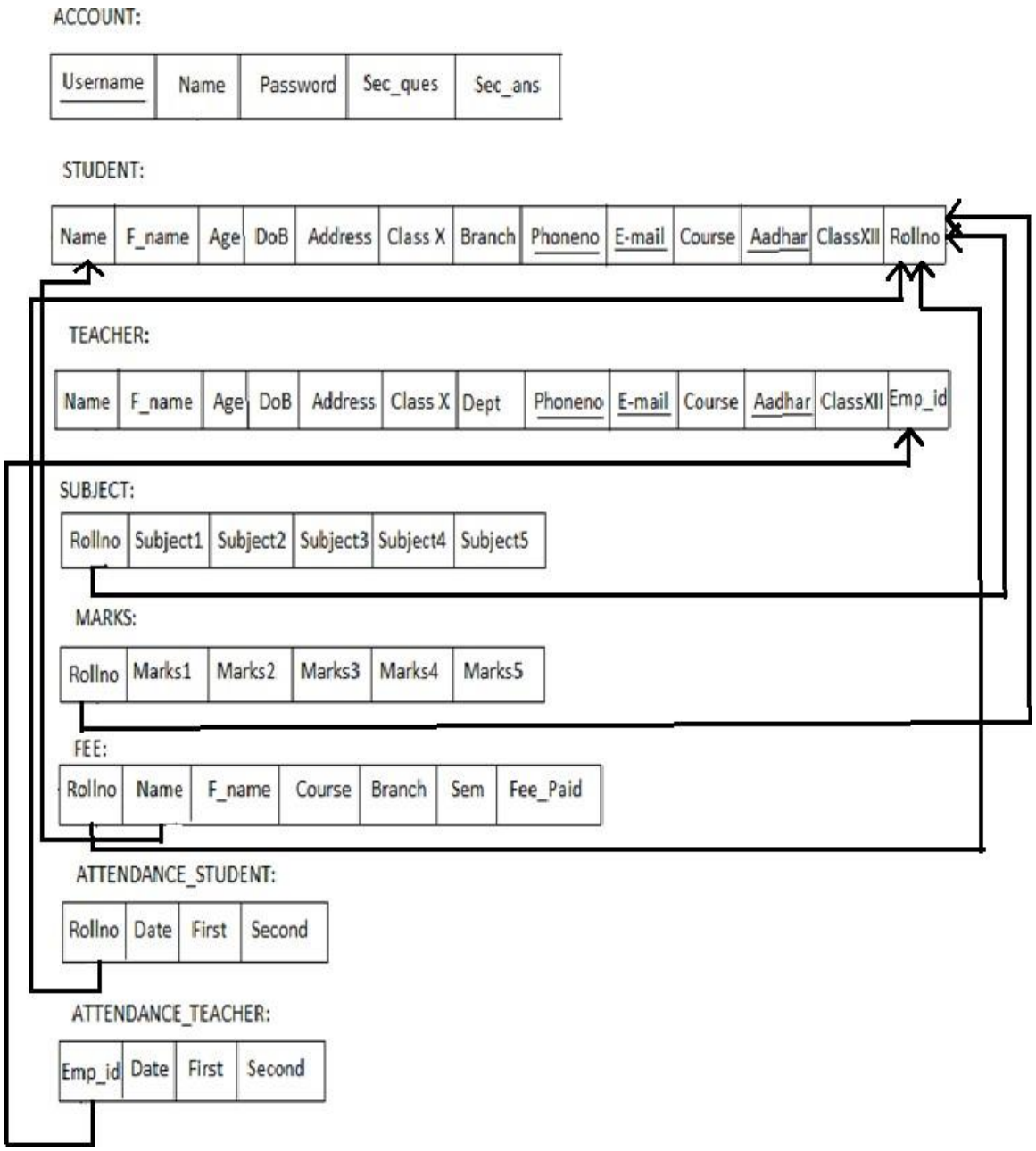


Figure 4.2: Schema Diagram for Smartphone Management System

CHAPTER 5

TABLE DESCRIPTION

5.1 Database Design

ACCOUNT TABLE

Account Table: Account table consists of five attributes which are Username, Name, Password, Sec_ques, Sec_ans.Username is used as Primary key.

Desc account;

```
mysql> desc account;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| username | varchar(30) | NO   | PRI | NULL    |       |
| name     | varchar(40) | YES  |     | NULL    |       |
| password | varchar(30) | YES  |     | NULL    |       |
| sec_ques | varchar(100)| YES  |     | NULL    |       |
| sec_ans  | varchar(50) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

Fig 5.1 Account table description

STUDENT TABLE

Student table : Student table is used to add the details of new student like Name,phoneno.,DoB,course,Branch etc...Phoneno. ,E-mail and Aadhar are used as Primary key.

Desc student;

```
mysql> desc student;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| name          | varchar(20) | YES  |     | NULL    |       |
| fathers_name  | varchar(20) | YES  |     | NULL    |       |
| age           | varchar(5)  | YES  |     | NULL    |       |
| dob           | varchar(20) | YES  |     | NULL    |       |
| address       | varchar(30) | YES  |     | NULL    |       |
| phone         | varchar(15) | NO   | PRI | NULL    |       |
| email         | varchar(25) | NO   | PRI | NULL    |       |
| class_x       | varchar(10) | YES  |     | NULL    |       |
| class_xii     | varchar(10) | YES  |     | NULL    |       |
| aadhar        | varchar(15) | NO   | PRI | NULL    |       |
| rollno        | varchar(15) | YES  |     | NULL    |       |
| course        | varchar(10) | YES  |     | NULL    |       |
| branch        | varchar(20) | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
13 rows in set (0.00 sec)
```

Fig 5.2 Student table description.

TEACHER TABLE

Teacher table: Teacher table is used to add the details of new student like Name, phoneno.,DoB, course,Branch etc...Phoneno. ,E-mail and Aadhar are used as Primary key.

Desc teacher;

```
mysql> desc teacher;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| name         | varchar(20) | YES  |     | NULL    |       |
| fathers_name | varchar(20) | YES  |     | NULL    |       |
| age          | varchar(5)  | YES  |     | NULL    |       |
| dob          | varchar(20) | YES  |     | NULL    |       |
| address      | varchar(30) | YES  |     | NULL    |       |
| phone        | varchar(15) | NO   | PRI | NULL    |       |
| email        | varchar(25) | NO   | PRI | NULL    |       |
| class_x      | varchar(10) | YES  |     | NULL    |       |
| class_xii    | varchar(10) | YES  |     | NULL    |       |
| aadhar       | varchar(15) | NO   | PRI | NULL    |       |
| course       | varchar(10) | YES  |     | NULL    |       |
| emp_id       | varchar(15) | YES  |     | NULL    |       |
| dept         | varchar(20) | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
13 rows in set (0.00 sec)
```

Fig 5.3 Teacher table description

ATTENDANCE_STUDENT TABLE

Attendance_Student Table: Attendance_Student table is used to mark the attendance of the student day to day which as attributes like rollno,name,first and second half.

Desc attendance_student;

```
mysql> desc attendance_student;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| rollno | varchar(20) | YES  |     | NULL    |       |
| Date   | varchar(30) | YES  |     | NULL    |       |
| first  | varchar(10) | YES  |     | NULL    |       |
| second | varchar(10) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
4 rows in set (0.04 sec)
```

Fig 5.4 Attendance_Student table description.

ATTENDANCE_TEACHER TABLE

Attendance_Teachertable : Attendance_Teacher table is used to mark the attendance of the teacher day to day which as attributes like emp_id,name,first and second half.

Desc attendance_teacher;

```
mysql> desc attendance_teacher;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| emp_id | varchar(20) | YES  |     | NULL    |       |
| Date   | varchar(30) | YES  |     | NULL    |       |
| first  | varchar(10) | YES  |     | NULL    |       |
| second | varchar(10) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

Fig 5.5 Attendance_Teacher table description.

SUBJECT TABLE

Subject table : Subject table is used to add the subjects of the student in that particular sem with the attributes like rollno and five subjects.

Desc Subject;

```
mysql> desc subject;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| rollno   | varchar(25) | YES  |     | NULL    |       |
| subject1 | varchar(30) | YES  |     | NULL    |       |
| subject2 | varchar(30) | YES  |     | NULL    |       |
| subject3 | varchar(30) | YES  |     | NULL    |       |
| subject4 | varchar(30) | YES  |     | NULL    |       |
| subject5 | varchar(30) | YES  |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
6 rows in set (0.02 sec)
```

Fig 5.6 Subject table description.

MARKS TABLE

Marks table : Marks table is used to add the marks of the particular subjects of the student in a particular sem and the attributes used are rollno and five subject marks.

Desc Marks;

```
mysql> desc marks;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| rollno | varchar(15) | YES  |     | NULL    |       |
| marks1 | varchar(20) | YES  |     | NULL    |       |
| marks2 | varchar(20) | YES  |     | NULL    |       |
| marks3 | varchar(20) | YES  |     | NULL    |       |
| marks4 | varchar(20) | YES  |     | NULL    |       |
| marks5 | varchar(20) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
6 rows in set (0.03 sec)
```

Fig 5.7 Marks table description.

FEE TABLE

Fee table:fee table is used to pay the fee dues of the student for that particular sem and the attributes used like rollno, name, fathersname, course, branch, sem and fee_paid.

Desc Fee;

```
mysql> desc fee;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| rollno       | varchar(20) | YES  |     | NULL    |       |
| name         | varchar(25) | YES  |     | NULL    |       |
| fathers_name | varchar(25) | YES  |     | NULL    |       |
| course       | varchar(10) | YES  |     | NULL    |       |
| branch       | varchar(20) | YES  |     | NULL    |       |
| semester     | varchar(10) | YES  |     | NULL    |       |
| fee_paid     | varchar(15) | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
7 rows in set (0.02 sec)
```

Fig 5.8 Fee table description.

CHAPTER 6

TABLE WITH VALUES

6.1 Output design:

Account table : Account table consists of five attributes which will be retrived from user when the user signsup/logs in.

Select * from account;

Table 1.1 Account table

```
mysql> select * from account;
+----------+-------+----------+-------------------------+---------+
| username | name  | password | sec_ques                | sec_ans |
+----------+-------+----------+-------------------------+---------+
| raja     | RAJA  | 12345    | Your Lucky Number?      | 9900    |
| gopi     | Gopi  | gopi123  | Your NickName?          | gopi    |
| vikas    | VIKAS | sai12    | Your child SuperHero?   | ntr     |
| mohan    | MOHAN | mogan    | Your childhood Name ?   | mogan   |
| akash    | AKASH | 67890    | Your Lucky Number?      | 9       |
+----------+-------+----------+-------------------------+---------+
5 rows in set (0.00 sec)
```

Student table: Student table is used to add the details of new student like Name,phoneno.,DoB,course,Branch etc...Phoneno.E-mail and Aadhar are used as Primary key.

Select * from student;

Table 1.2 Student table

```
mysql> select * from student;
+-------+-------------+-----+-----------+----------+-----------+----------------------+--------+----------+-------------+---------+--------+-----------------
---+
| name  | fathers_name | age | dob       | address  | phone     | email                | class_x | class_xii | aadhar      | rollno  | course | branch
   |
+-------+-------------+-----+-----------+----------+-----------+----------------------+--------+----------+-------------+---------+--------+-----------------
---+
| Vikas | Sai         | 22  | 02/03/1998 | Bangalore | 9869869576 | vikasvicky11@gmail.com | 84     | 77       | 229876589745 | 15331807 | M.Tech | Electronics
   |
| Raja  | Srinu       | 21  | 29/05/1999 | Bangalore | 9897969984 | raja123@gmail.com      | 88     | 82       | 676476486745 | 15335115 | M.Tech | Mechanical
   |
| Gopi  | Krishna     | 20  | 03/10/2000 | Kolar     | 7869687696 | gopi11@gmail.com       | 82     | 78       | 885787588758 | 1533842  | B.Tech | Computer Science
   |
| Akash | Kumar       | 20  | 22/08/2000 | Mangalore | 7879696896 | akash1122@gmail.com    | 84     | 81       | 906895709687 | 15339828 | B.Tech | Civil
   |
| Mohan | Mogesh      | 19  | 18/02/2001 | Bangalore | 7869869665 | mogan11@gmail.com      | 82     | 79       | 987689786988 | 15333481 | BCom   | Professional Deg
ree |
+-------+-------------+-----+-----------+----------+-----------+----------------------+--------+----------+-------------+---------+--------+-----------------
---+
5 rows in set (0.00 sec)
```

Teacher table : Teacher table is used to add the details of new student like Name,phoneno.,DoB,course,Branch etc...Phoneno. ,E-mail and Aadhar are used as Primary key.

Select * from teacher;

Table 1.3 Teacher table

```
mysql> select * from teacher;
+-----------+-------------+-----+-----------+----------+-----------+-------------------+---------+----------+-------------+--------+---------+-------------
------+
| name      | fathers_name | age | dob       | address  | phone     | email             | class_x | class_xii | aadhar      | course | emp_id  | dept
      |
+-----------+-------------+-----+-----------+----------+-----------+-------------------+---------+----------+-------------+--------+---------+-------------
------+
| Lakshmi   | Venkatesh    | 45  | 04/05/1975 | Bangalore | 7897658656 | lakshmi12@gmail.com | 83      | 78       | 756876487594 | Msc    | 1016569 | Computer Scien
ce    |
| Prakash   | Kumarswamy   | 54  | 21/03/1966 | Bangalore | 9867976976 | prakash11@gmail.com | 84      | 81       | 979477658798 | M.Tech | 1013079 | Mechanical
      |
| Naveen.B.M | Bhaskar     | 38  | 26/11/1982 | Bangalore | 8978987687 | naveen123@gmail.com | 87      | 77       | 896596796798 | MBA    | 1012340 | Others
      |
| Mahesh.G  | Ganesh       | 41  | 16/09/1979 | Mangalore | 7897869876 | maheshg11@gmail.com | 78      | 68       | 456736753857 | MCA    | 1014233 | Others
      |
| Rakesh    | Chandrasekhar | 36 | 11/06/1984 | Mysore    | 8876659766 | rakesh121@gmail.com | 88      | 87       | 337659876007 | BCom   | 1012307 | Professional D
egree |
+-----------+-------------+-----+-----------+----------+-----------+-------------------+---------+----------+-------------+--------+---------+-------------
------+
5 rows in set (0.00 sec)
```

Attendance_Student table : Attendance_Student table is used to mark the attendance of the student day to day which as attributes like rollno,name,first and second half.

Select * from attendance_student;

Table 1.4 Attendance_student table

```
mysql> select * from attendance_student;
+----------+-------------------------------+---------+---------+
| rollno   | Date                          | first   | second  |
+----------+-------------------------------+---------+---------+
| 15331807 | Thu Jan 14 16:12:03 IST 2021 | Present | Present |
| 15335115 | Thu Jan 14 16:12:15 IST 2021 | Present | Absent  |
| 1533842  | Thu Jan 14 16:12:27 IST 2021 | Absent  | Present |
| 15339828 | Thu Jan 14 16:12:41 IST 2021 | Absent  | Absent  |
| 15333481 | Thu Jan 14 16:13:00 IST 2021 | Leave   | Leave   |
+----------+-------------------------------+---------+---------+
5 rows in set (0.00 sec)
```

Attendance_Teacher table : Attendance_Teachertable is used to mark the attendance of the teacher day to day which as attributes like emp_id,name,first and second half.

Select * fromattendance_teacher;

Table 1.5 Attendance_teacher table

```
mysql> select * from attendance_teacher;
+---------+------------------------------+---------+---------+
| emp_id  | Date                         | first   | second  |
+---------+------------------------------+---------+---------+
| 1016569 | Thu Jan 14 15:45:45 IST 2021 | Present | Present |
| 1013079 | Thu Jan 14 15:46:00 IST 2021 | Absent  | Present |
| 1012340 | Thu Jan 14 15:46:15 IST 2021 | Present | Absent  |
| 1014233 | Thu Jan 14 15:46:32 IST 2021 | Absent  | Absent  |
| 1012307 | Thu Jan 14 15:46:47 IST 2021 | Leave   | Leave   |
+---------+------------------------------+---------+---------+
5 rows in set (0.00 sec)
```

Subject table : Subject table is used to add thesubjects of the student in that particular sem with the attributes like rollno and five subjects.

Select * from Subject;

Table 1.6 Subject table

```
mysql> select * from subject;
+---------+-----------------+---------------------+---------------+---------------------+------------+
| rollno  | subject1        | subject2            | subject3      | subject4            | subject5   |
+---------+-----------------+---------------------+---------------+---------------------+------------+
| 15331807| Devices         | Signals             | System        | Numericals          | Circuits   |
| 15335115| Mathematics     | Statics and Dynamics| Solid mechanics| Material engineering| Composites |
| 1533842 | Computer networks| Database management| Python        | Unix                | ATC        |
| 15339828| Building materials| Strength of materials| Structures | Contuction project  | Steel design|
| 15333481| Accounts        | Economics           | Statistics    | Management          | Finance    |
+---------+-----------------+---------------------+---------------+---------------------+------------+
5 rows in set (0.00 sec)
```

Marks table : Markstable is used to add the marks of the particular subjects of the student in a particular sem and the attributes used are rollno and five subject marks.

Select * from Marks;

Table 1.7 Marks table

```
mysql> select * from marks;
+----------+--------+--------+--------+--------+--------+
| rollno   | marks1 | marks2 | marks3 | marks4 | marks5 |
+----------+--------+--------+--------+--------+--------+
| 15331807 | 78     | 82     | 79     | 76     | 85     |
| 15335115 | 78     | 83     | 88     | 79     | 80     |
| 1533842  | 77     | 68     | 76     | 68     | 70     |
| 15339828 | 60     | 68     | 65     | 73     | 75     |
| 15333481 | 78     | 72     | 70     | 69     | 74     |
+----------+--------+--------+--------+--------+--------+
5 rows in set (0.00 sec)
```

Fee table :fee table is used to pay the fee dues of the student for that particular sem and the attributes used like rollno, name, fathersname, course, branch, sem and fee_paid.

Select * from Fee;

Table 1.8 Fee table

```
mysql> select * from fee;
+----------+-------+-------------+--------+------------+----------+----------+
| rollno   | name  | fathers_name | course | branch     | semester | fee_paid |
+----------+-------+-------------+--------+------------+----------+----------+
| 15331807 | Vikas | Sai         | M.Tech | Electronics | 2nd      | 30000    |
| 15335115 | Raja  | Srinu       | M.Tech | Mechanical | 1st      | 40000    |
| 1533842  | Gopi  | Krishna     | B.Tech | CSE        | 5th      | 51000    |
| 15339828 | Akash | Kumar       | B.Tech | Civil      | 6th      | 28000    |
| 15333481 | Mohan | Mogesh      | B.com  | Other      | 3rd      | 30000    |
+----------+-------+-------------+--------+------------+----------+----------+
5 rows in set (0.00 sec)
```

CHAPTER 7

IMPLEMENTATION

Sample code :

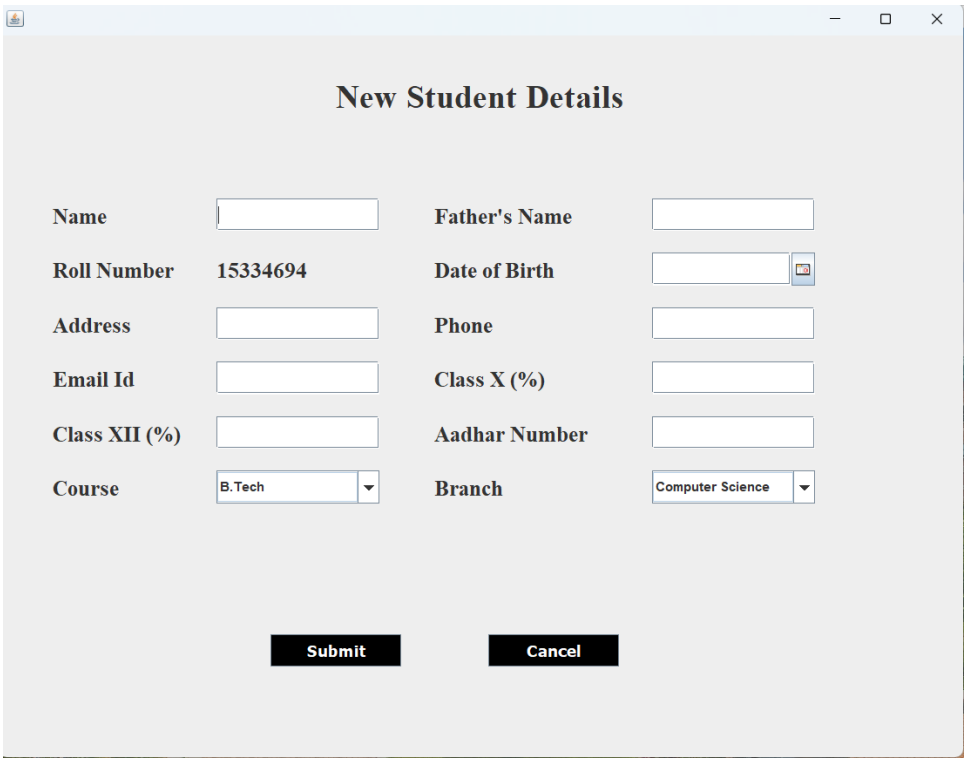
```
Package institution.management.system;

importjava.awt.*;

importjavax.swing.*;

importjava.awt.event.*;

importjava.sql.*;

importinstitution.management.system.Signup;


public class Login extends JFrame implements ActionListener{

        privateJPanel panel;

        privateJTextFieldtextField;

        privateJPasswordFieldpasswordField;

privateJButton b1,b2,b3;

        public Login() {

        setBackground(new Color(169, 169, 169));

setBounds(600, 300, 600, 400);

panel = new JPanel();

        panel.setBackground(new Color(176, 224, 230));

        setContentPane(panel);

        panel.setLayout(null);

        JLabel l1 = new JLabel("Username : ");

        l1.setBounds(124, 89, 95, 24);
```

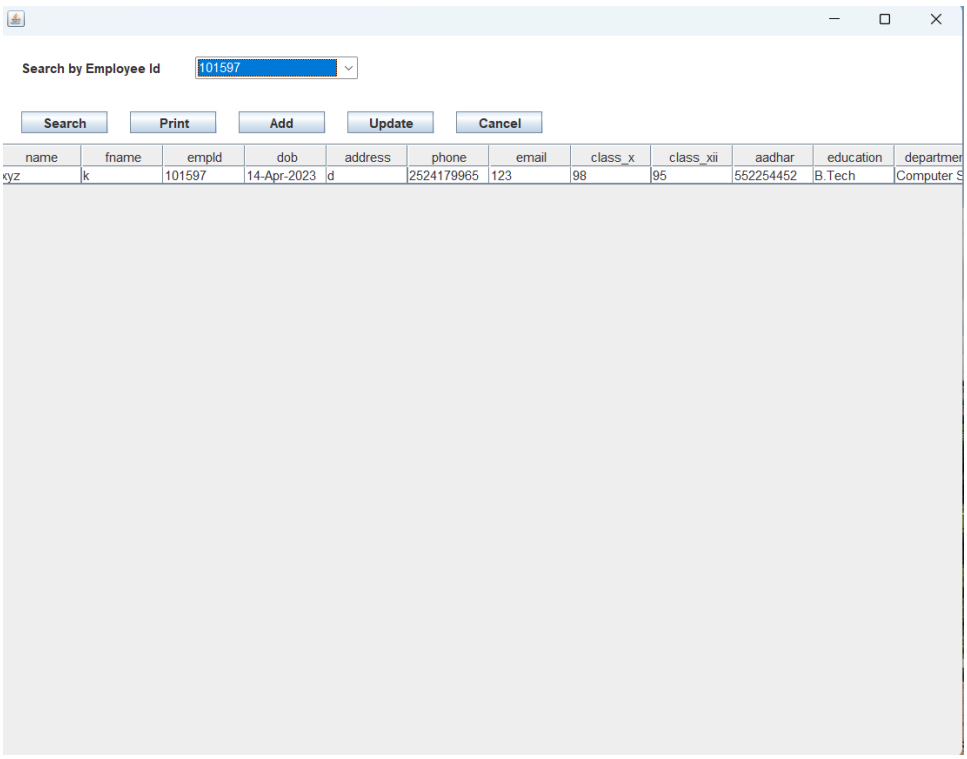
```
panel.add(l1);
        JLabel l2 = new JLabel("Password : ");
        l2.setBounds(124, 124, 95, 24);
        panel.add(l2);
        textField = new JTextField();
        textField.setBounds(210, 93, 157, 20);
        panel.add(textField);
        passwordField = new JPasswordField();
        passwordField.setBounds(210, 128, 157, 20);
        panel.add(passwordField);
        JLabel l3 = new JLabel("");
        l3.setBounds(377, 79, 46, 34);
        panel.add(l3);
        JLabel l4 = new JLabel("");
        l4.setBounds(377, 124, 46, 34);
        panel.add(l3);
        b1 = new JButton("Login");
        b1.addActionListener(this);
        b1.setForeground(new Color(46, 139, 87));
        b1.setBackground(new Color(250, 250, 210));
        b1.setBounds(149, 181, 113, 39);
        panel.add(b1);
b2 = new JButton("SignUp");
        b2.addActionListener(this);
```

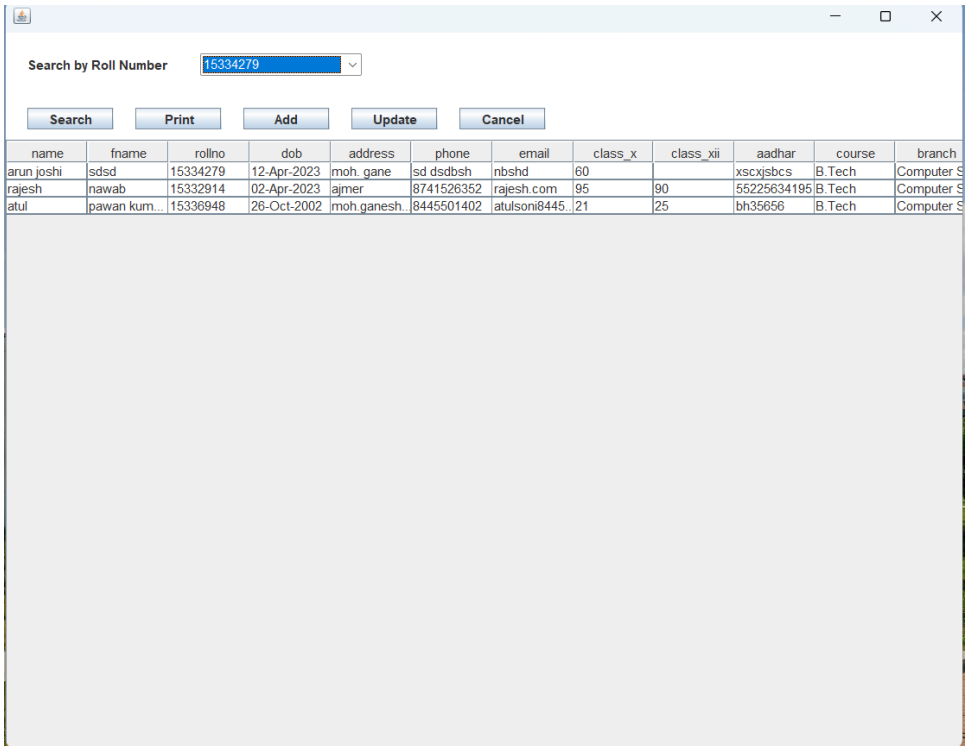
```
        b2.setForeground(new Color(139, 69, 19));
        b2.setBackground(new Color(255, 235, 205));
        b2.setBounds(289, 181, 113, 39);
        panel.add(b2);
        b3 = new JButton("Forgot Password");
        b3.addActionListener(this);
b3.setForeground(new Color(205, 92, 92));
        b3.setBackground(new Color(253, 245, 230));
        b3.setBounds(199, 231, 179, 39);
        panel.add(b3);
        JLabel l5 = new JLabel("Trouble in Login?");
        l5.setFont(new Font("Tahoma", Font.PLAIN, 15));
        l5.setForeground(new Color(255, 0, 0));
        l5.setBounds(70, 240, 130, 20);
        panel.add(l5);
                JPanel panel2 = new JPanel();
                panel2.setBackground(new Color(176, 224, 230));
                panel2.setBounds(24, 40, 434, 263);
                panel.add(panel2);
  }
public void actionPerformed(ActionEventae){
if(ae.getSource() == b1){
            Boolean status = false;
                try {
```

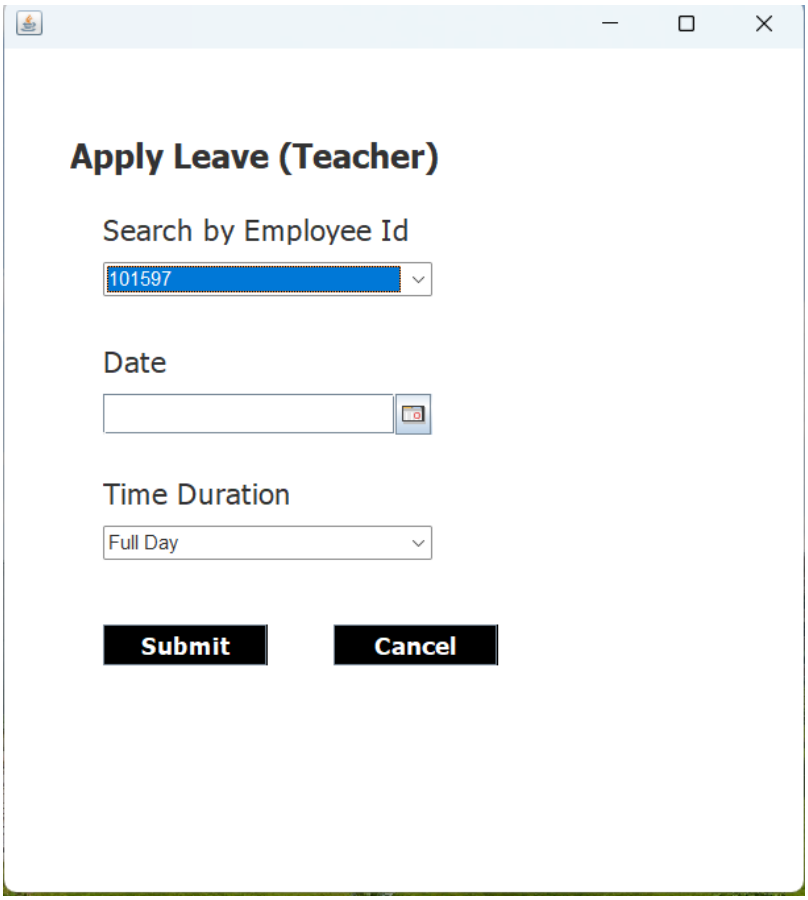
```
conn con = new conn();
                String sql = "select * from account where username=? and password=?";
PreparedStatementst = con.c.prepareStatement(sql);
st.setString(1, textField.getText());
st.setString(2, passwordField.getText());
ResultSetrs = st.executeQuery();
if (rs.next()) {
this.setVisible(false);
new Loading().setVisible(true);
                } else
                        JOptionPane.showMessageDialog(null, "Invalid Login...!.");
                    } catch (Exception e2) {
e2.printStackTrace();}     }
if(ae.getSource() == b2){
setVisible(false);
                    Signup su = new Signup();
                    su.setVisible(true);}
if(ae.getSource() == b3){
setVisible(false);
                    ForgotPassword forgot = new ForgotPassword();
                    forgot.setVisible(true);}
        }
            public static void main(String[] args) {
                new Login().setVisible(true);       }                }
```

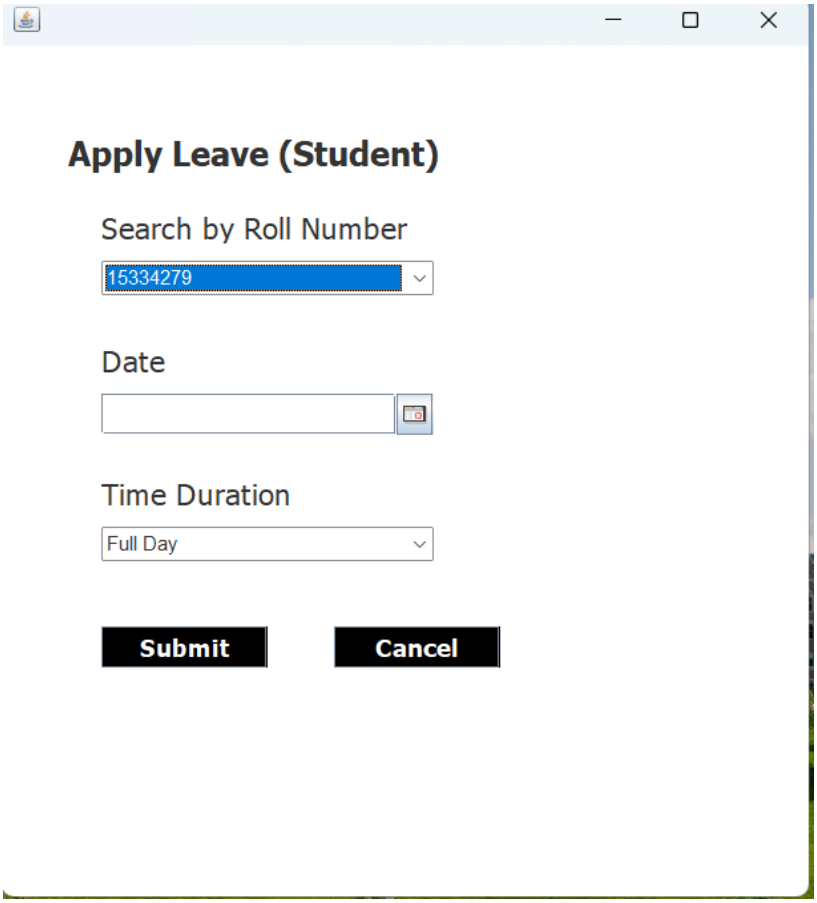
OUTPUT

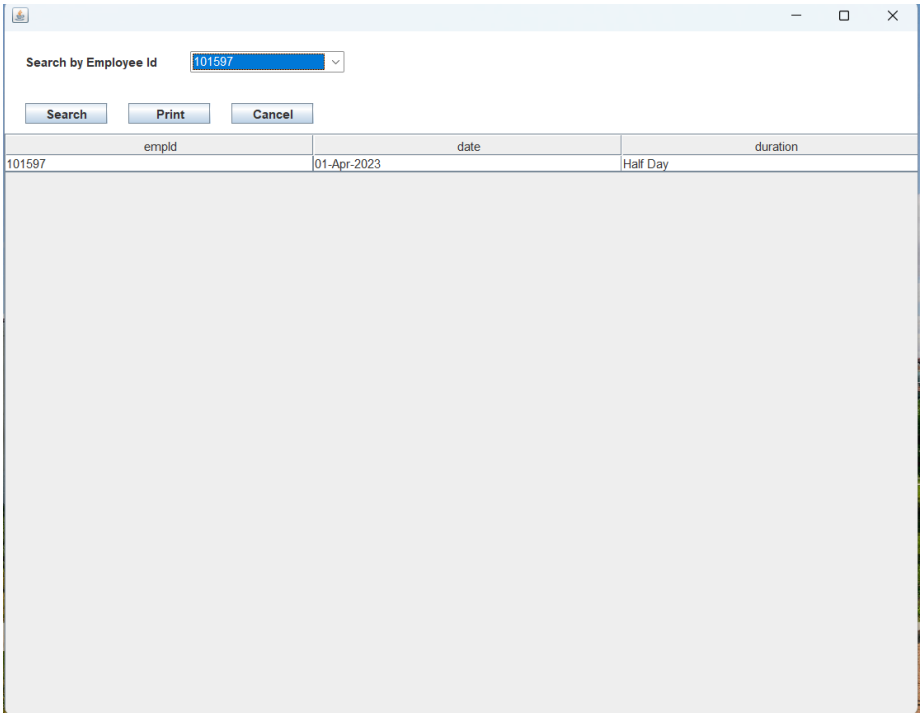

New Student Details
Name
Father's Name
Roll Number
15334694
Date of Birth
Address
Phone
Email Id
Class X (%)
Class XII (%)
Aadhar Number
Course
B.Tech
Branch
Computer Science
Submit
Cancel

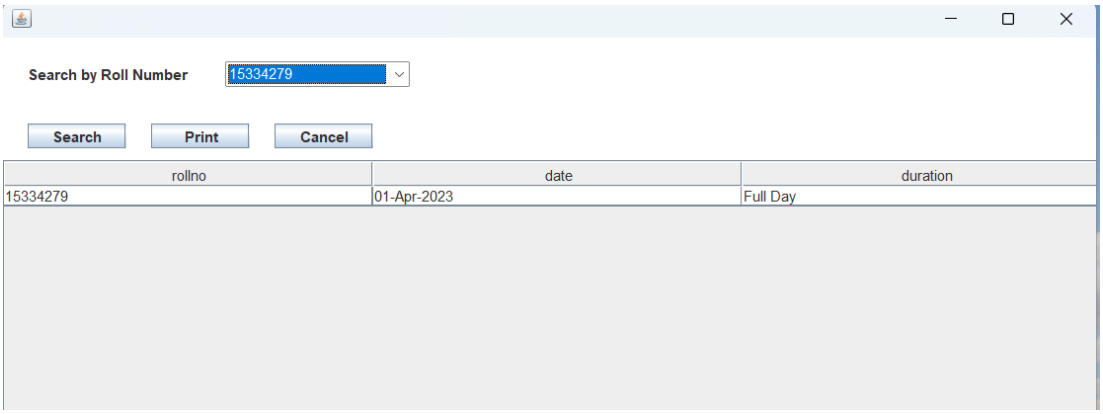

Search by Employee Id
101597
Search
Print
Add
Update
Cancel
name
fname
empId
dob
address
phone
email
class_x
class_xii
aadhar
education
departmer
xyz
k
101597
14-Apr-2023
d
2524179965
123
98
95
552254452
B.Tech
Computer S

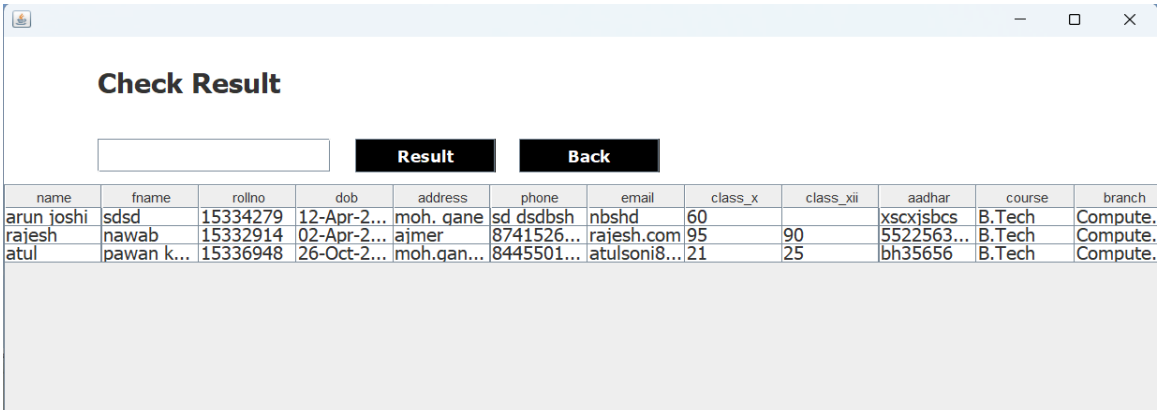

Search by Roll Number
15334279
Search
Print
Add
Update
Cancel
name fname rollno dob address phone email class_x class_xii aadhar course branch
arun joshi sdsd 15334279 12-Apr-2023 moh. gane sd dsdbsh nbshd 60 xscxjsbcs B.Tech Computer S
rajesh nawab 15332914 02-Apr-2023 ajmer 8741526352 rajesh.com 95 90 55225634195 B.Tech Computer S
atul pawan kum... 15336948 26-Oct-2002 moh.ganesh.. 8445501402 atulsoni8445.. 21 25 bh35656 B.Tech Computer S

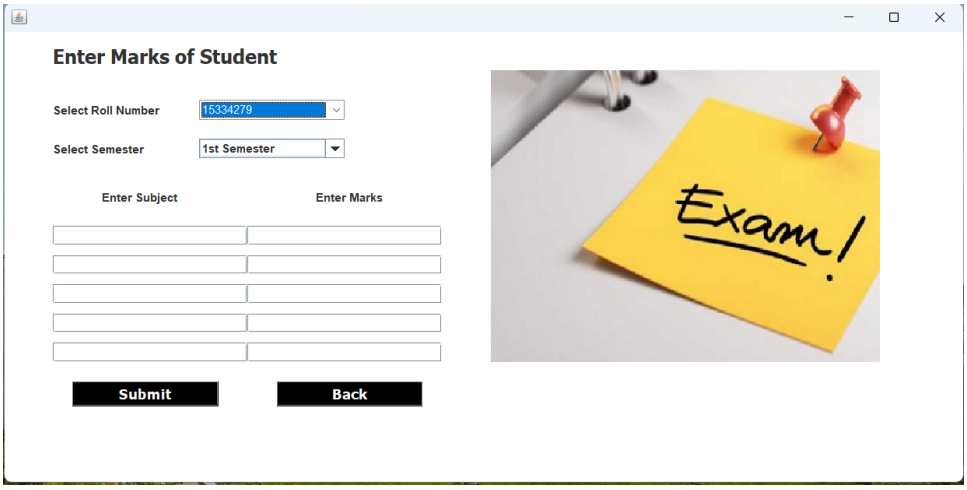

Apply Leave (Teacher)
Search by Employee Id
101597
Date
Time Duration
Full Day
Submit
Cancel

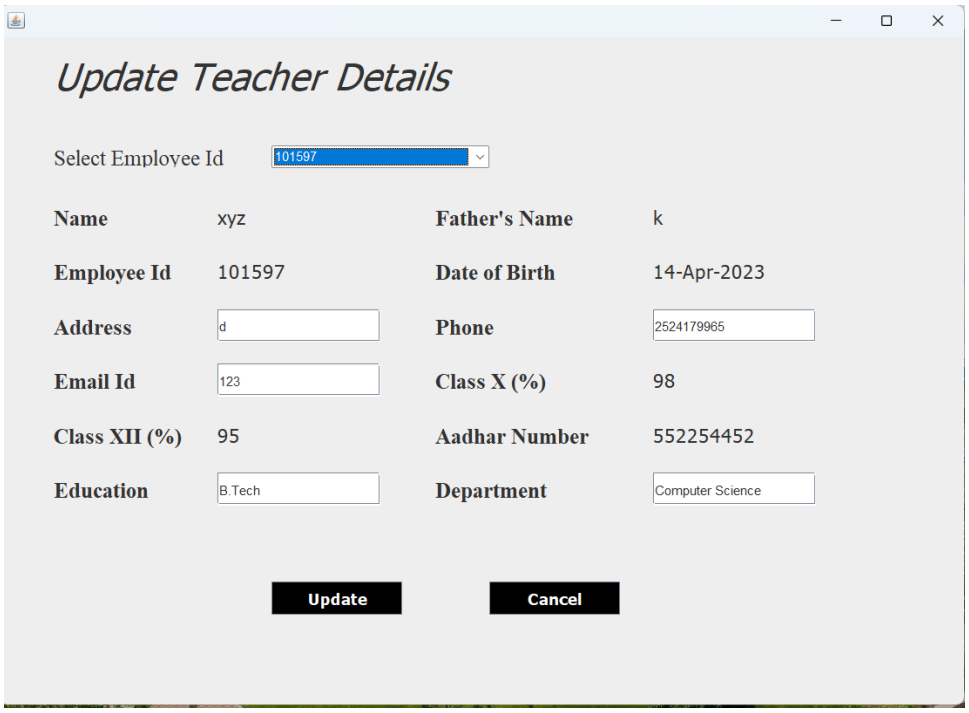

Apply Leave (Student)
Search by Roll Number
15334279
Date
Time Duration
Full Day
Submit
Cancel

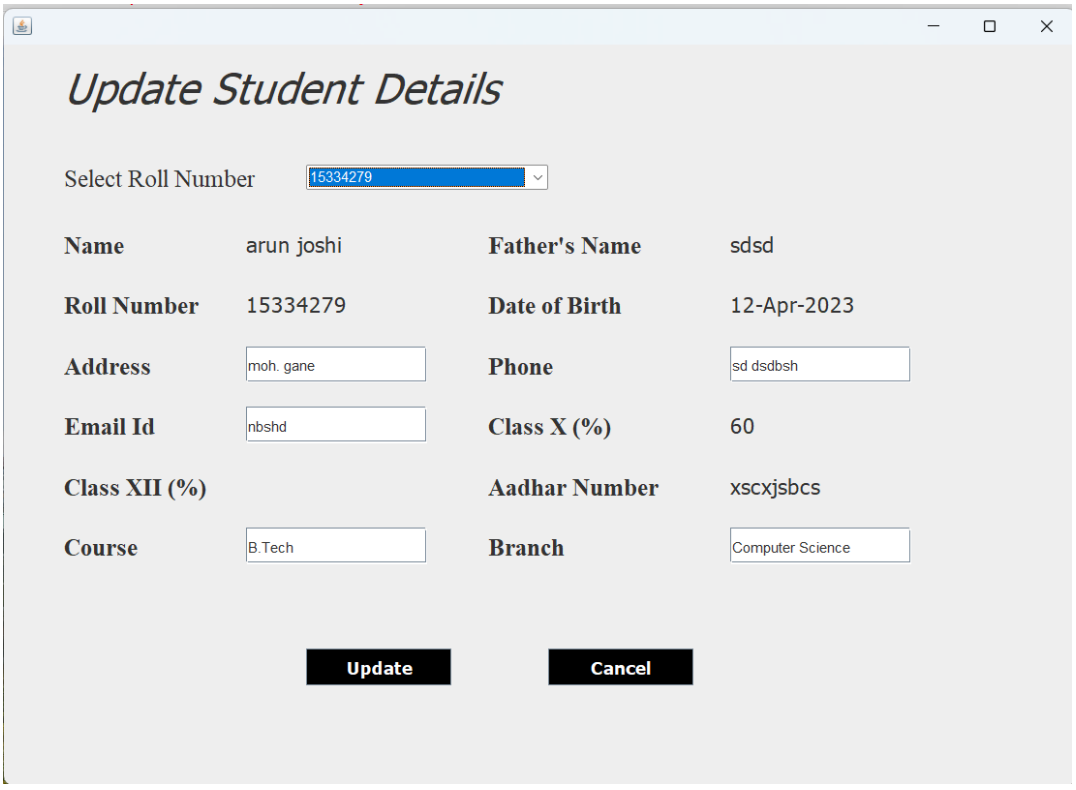

Search by Employee Id
101597
Search
Print
Cancel
empId
date
duration
101597
01-Apr-2023
Half Day

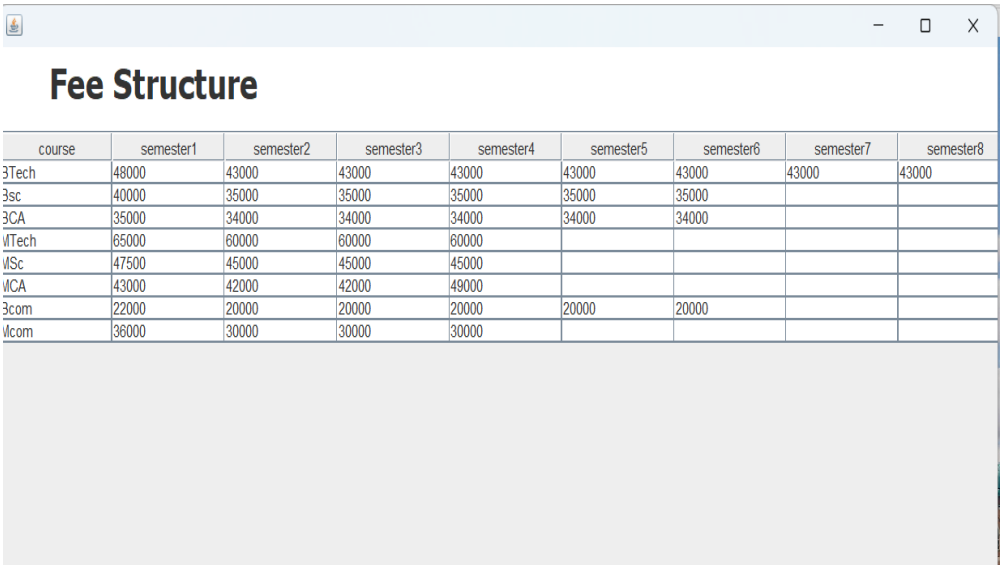

Search by Roll Number
15334279
Search
Print
Cancel
rollno
date
duration
15334279
01-Apr-2023
Full Day

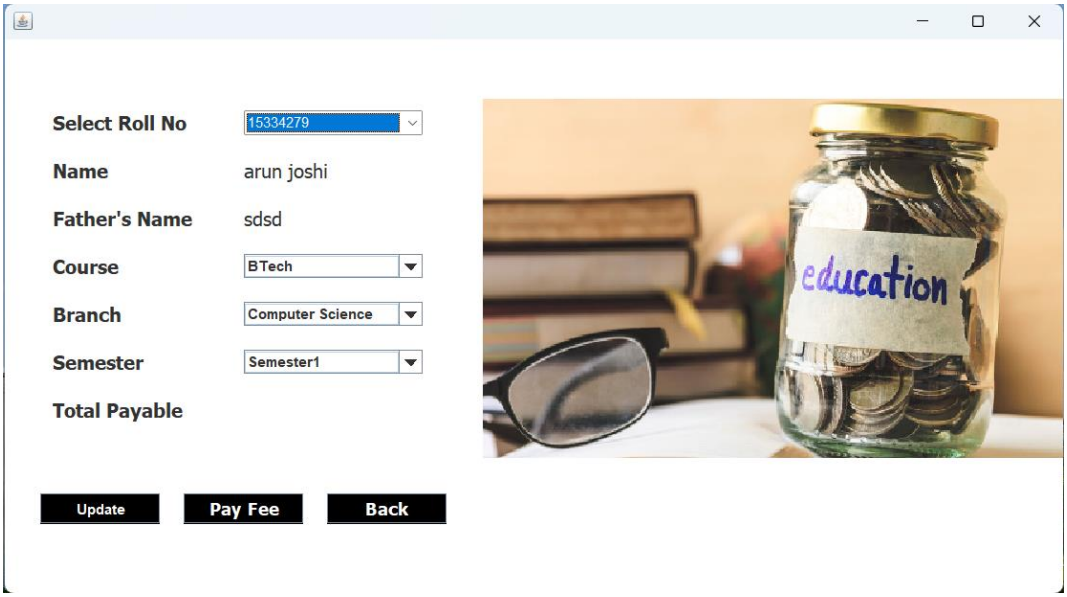

Check Result
Result
Back
name
fname
rollno
dob
address
phone
email
class_x
class_xii
aadhar
course
branch
arun joshi
sdsd
15334279
12-Apr-2...
moh. qane
sd dsdbsh
nbshd
60
xscxjsbcs
B.Tech
Compute.
rajesh
nawab
15332914
02-Apr-2...
ajmer
8741526...
rajesh.com
95
90
5522563...
B.Tech
Compute.
atul
pawan k...
15336948
26-Oct-2...
moh.qan...
8445501...
atulsoni8...
21
25
bh35656
B.Tech
Compute.


Enter Marks of Student
Select Roll Number
15334279
Select Semester
1st Semester
Enter Subject
Enter Marks
Submit
Back
Exam!


Update Teacher Details
Select Employee Id
101597
Name
xyz
Father's Name
k
Employee Id
101597
Date of Birth
14-Apr-2023
Address
d
Phone
2524179965
Email Id
123
Class X (%)
98
Class XII (%)
95
Aadhar Number
552254452
Education
B.Tech
Department
Computer Science
Update
Cancel


Update Student Details
Select Roll Number
15334279
Name
arun joshi
Father's Name
sdsd
Roll Number
15334279
Date of Birth
12-Apr-2023
Address
moh. gane
Phone
sd dsdbsh
Email Id
nbshd
Class X (%)
60
Class XII (%)
Aadhar Number
xscxjsbcs
Course
B.Tech
Branch
Computer Science
Update
Cancel


Fee Structure
course semester1 semester2 semester3 semester4 semester5 semester6 semester7 semester8
BTech 48000 43000 43000 43000 43000 43000 43000 43000
Bsc 40000 35000 35000 35000 35000 35000
BCA 35000 34000 34000 34000 34000 34000
MTech 65000 60000 60000 60000
MSc 47500 45000 45000 45000
MCA 43000 42000 42000 49000
Bcom 22000 20000 20000 20000 20000 20000
Mcom 36000 30000 30000 30000


Select Roll No
15334279
Name
arun joshi
Father's Name
sdsd
Course
BTech
Branch
Computer Science
Semester
Semester1
Total Payable
education
Update
Pay Fee
Back

CONCLUSION

The project entitled as **University Management System** is the system that deals with the issues related to a particular institution.

This project is successfully implemented with all the features mentioned in system requirements specification.

The application provides appropriate information to users according to the chosen service.

The project is designed keeping in view the day to day problems faced by a college.

Deployment of our application will certainly help the college to reduce unnecessary wastage of time in personally going to each department for some information.

Awareness and right information about any college is essential for both the development of student as well as faculty. So this serves the right purpose in achieving the desire requirement of both the communities.

Roles and Responsibilities

1. Sanjay Kumar Nayak (12115352)

   Module: Student leave & leave detail, Student fee form.

2. Subham kumar (12115171)

   Module: Add student, Add teacher, Examination detail.

3. Atul Soni (12115448)

   Module: Conn(database connectivity), splash, mysql(workwench).