STUDENT REPOSITORY SYSTEM

A PROJECT REPORT

Submitted By

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Submitted in partial fulfillment of the Requirements for the Degree of

MASTER OF COMPUTER APPLICATIONS

Under the Supervision of

Ms. Divya Singhal

Assistant Professor

Submitted to

DEPARTMENT OF COMPUTER APPLICATIONS

KIET Group of Institutions, Ghaziabad Uttar Pradesh-201206

(JUNE 2022)

Declaration

We hereby declare that the work presented in this report entitled “STUDENT REPOSITORY SYSTEM", was carried out by us. We have not submitted the matter embodied in this report for the award of any other degree or diploma of any other University or Institute.

We have given due credit to the original authors/sources for all the words, ideas, diagrams, graphics, computer programs, experiments, results, that are not our original contribution. We have used quotation marks to identify verbatim sentences and given credit to the original authors/sources. We affirm that no portion of our work is plagiarized, and the experiments and results reported in the report are not manipulated. In the event of a complaint of plagiarism and the manipulation of the experiments and results, we shall be fully responsible and answerable.

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Name: - VYOM GUPTA

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CERTIFICATE

Certified that **Akash Yadav (2000290140013)**, **Vyom Gupta (2000290140137)**, have carried out the project work having "STUDENT REPOSITORY SYSTEM" for Master of Computer Applications from Dr. A.P.J. Abdul Kalam Technical University (AKTU) (formerly UPTU), Technical University, Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student himself / herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

Date:

Akash Yadav (2000290140013)

Vyom Gupta (2000290140137)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Date:

Ms. Divya Singhal

Assistant Professor

Department of Computer Applications

KIET Group of Institutions, Ghaziabad

Signature of Internal Examiner **Signature of External Examiner**

Dr. Ajay Shrivastava

Head, Department of Computer Applications

KIET Group of Institutions, Ghaziabad

STUDENT REPOSITORY SYSTEM

ABSTRACT

This project is insight into the design and implementation of Student Repository System. Hence to solve this issue we have come up with a web-based student management application where all the teachers can see and manage together all the students of the college on a single platform, thereby helping all the students and teachers to be in constant touch with the faculties and making it possible for them to get their problems solved in an instant. Hence, this web-based application will help students to be check their attendance, marks assignments and for teachers to upload the marks, handle attendance placement through a single application.

ACKNOWLEDGEMENT

Success in life is never attained single handily. My deepest gratitude goes to my supervisor, Ms. Divya Singhal for her guidance, help and encouragement throughout my research work. Their enlightening ideas, comments, and suggestions.

Words are not enough to express my gratitude to Dr. Ajay Kumar Shrivastava, Professor and Head, Department of Computer Applications, for his insightful comments and administrative help at various occasions.

Fortunately, I have many understanding friends, who have helped me a lot on many critical conditions.

Finally, my sincere thanks go to my family members and all those who have directly and indirectly provided me moral support and other kind of help. Without their support, completion of this work would not have been possible in time. They keep my life filled with enjoyment and happiness.

Akash Yadav

Vyom Gupta

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1. Introduction

1.1 Project Description

Student Management System is software which is helpful for students as well as the school authorities. In the current system all the activities are done manually. It is very time consuming and costly. Our Student Management System deals with the various activities related to the students. Mark management Module. In the Software we can register as a user and user has of two types, student and administrator. Administrator has the power to add new user and can edit and delete a user. A student can register as user and can add edit and delete his profile. The administrator can add edit and delete marks for the student. All the users can see the marks.

The system utilizes the powerful database management, data retrieval and data manipulation. This project provides more ease for managing the data than manually maintaining in the documents. The project is useful for saving valuable time and reduces the huge paperwork. It will help educational Institutions like schools and colleges will keep track of their student records like personal details, contact details, marks details, etc. The Internet is rapidly becoming a part of the everyday lives of most people in the world. People perform various activities on the Internet and one of them is storing their data in database where they are interested in. In these data base's they can post the queries and they can retrieve the required data.

Obviously, there is a need of Student Information System software for management of student's data. There are many departments of administration for the maintenance of college information and student databases in any institution. All these departments provide various records regarding students. Most of these track records need to maintain information about the students. This information could be the general details like student name, address, performance, attendance etc or specific information related to departments like collection of data. All the modules in college administration are interdependent. They are maintained manually. So, they need to be automated and centralized as, Information from one module will be needed by other modules

1.2 Project Scope

STUDENT MANAGEMENT SYSTEM is a project with a mission of viewing and manipulating student information of schools in a Web-based environment. Thus, the overall system will consist of a Student Database System and Web Interface. The Student Database System will supply the fundamental database structure of the entire system whereas Web Interface will provide a secure Web interface between the users and the database. The Software aims to create a “paperless office” rather than using a traditional record keeping system. Although this project is presently being designed specifically for Integral Institute of Medical Sciences and Research but there exists the possibility in future to upgrade it to general level. The software will not only help the following levels of user in viewing the information but also each user can alongside update changes within their respective access limits.

- Administrative Level
- User Level
- Management of Institute
- Faculty
- Students
- Department Staff

1.3 Hardware / Software used in Project

Hardware:

1. On Smart Phone
    - Processor should be dual core
    - Processor speed be 1.3 GHz
    - ROM 1 GB
    - RAM 512 MB
    - Android version 5.0 Lollipop and above

2. On Personal Computer
    - Processor should be dual core
    - Processor speed be 1.5 GHz
    - RAM more than 4 GB
    - ROM more than 30 GB

Software:

- Android Studio
- Java Language
- MongoDB
- Python

2. Feasibility Study

Whatever we think need not be feasible. It is wise to think about the feasibility of any problem we undertake. Feasibility is the study of impact, which happens in the organization by the development of a system. The impact can be either positive or negative. When the positives nominate the negatives, then the system is considered feasible. Here the feasibility study can be performed in two ways such as technical feasibility and Economical Feasibility.

2.1 Technical Feasibility

Technical Feasibility determines whether the work for the project can be done with the existing equipment's software technology and available personals technical feasibility is concerned with the specified equipment and software that will satisfy the user requirement this project is feasible on technical remark also as the proposed system is beneficiary in term of having a soundproof system with new technical equipment's install on the system that proposed system can run on any machine supporting window and work on the best software and hardware that had been used while designing the system so it would be visible in all technical term of feasibility.

2.2 Economical Feasibility

With manual system the operation cost of this system is about 60 lacs for annual this cost comprises salary of Swiss 25 people's stationary, building rent, electricity water telephone etc. but with a new system this offering cost comes out to be about 20 lacs for renewal and the new system is economically feasible.

2.3 Operational Feasibility

The new solution is possible in all sense but operationally is not the new system demands the explosion of at least 15 people from the company it creates an environment of joblessness and fear among the employees it can lead to indefinite Strike in the company also, so the management must take corrective action prior in advance to start further proceeding.

2.4 Behavioral Feasibility

Behavioral Feasibility is the measure of how the society is looking towards our project, what is the reaction of people who are going to use this in upcoming future. It includes how strong the reaction of user will be towards the development of new system that involves device use in their daily life for connecting with faculties at college.

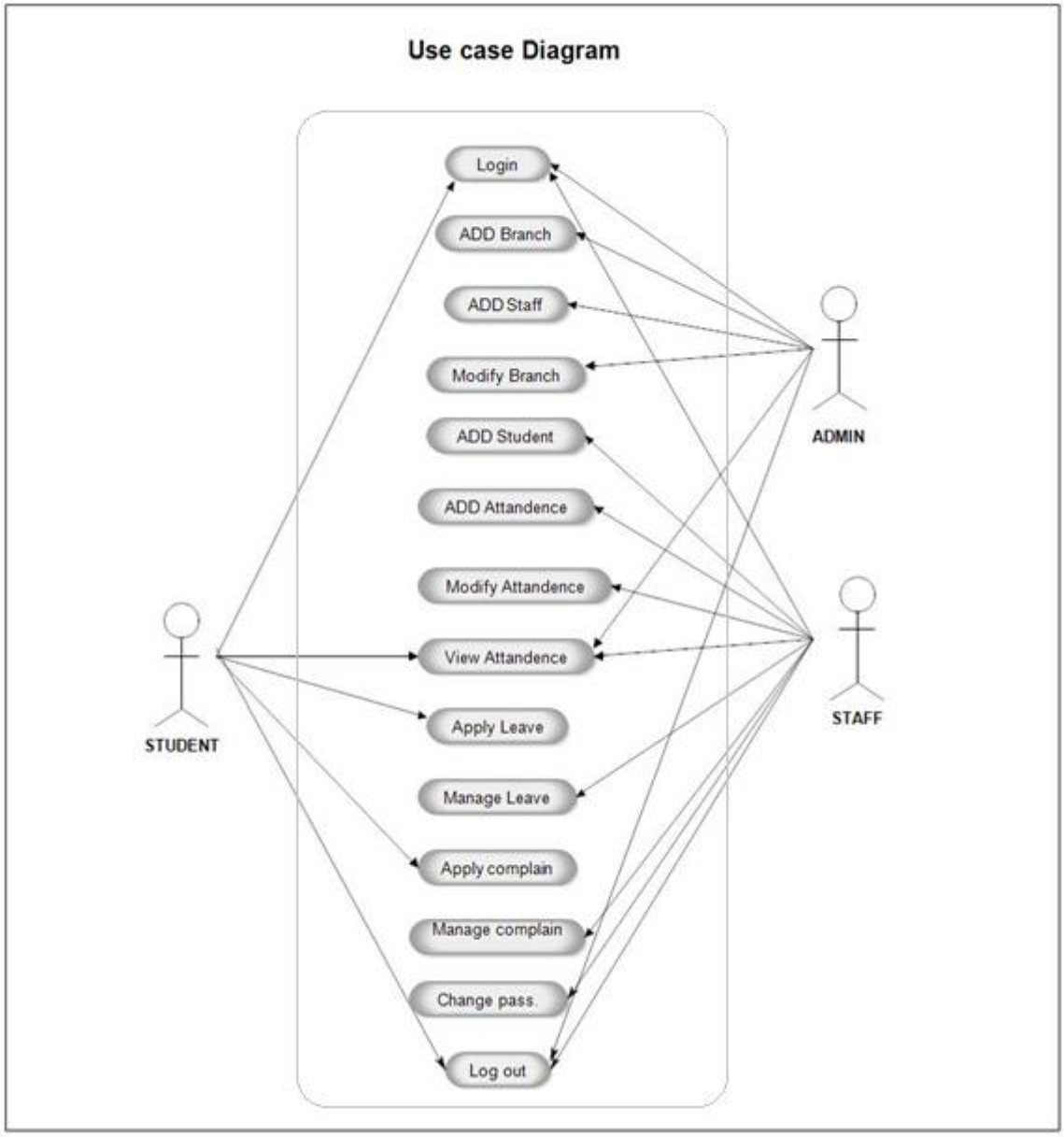
3. Database Design

3.1. Use Case Diagram

A use case diagram at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved. A use case diagram can identify the different types of users of a system and the different use cases and will often be accompanied by other types of diagrams as well.

While a use case itself might drill into a lot of detail about every possibility, a use-case diagram can help provide a higher-level view of the system. It has been

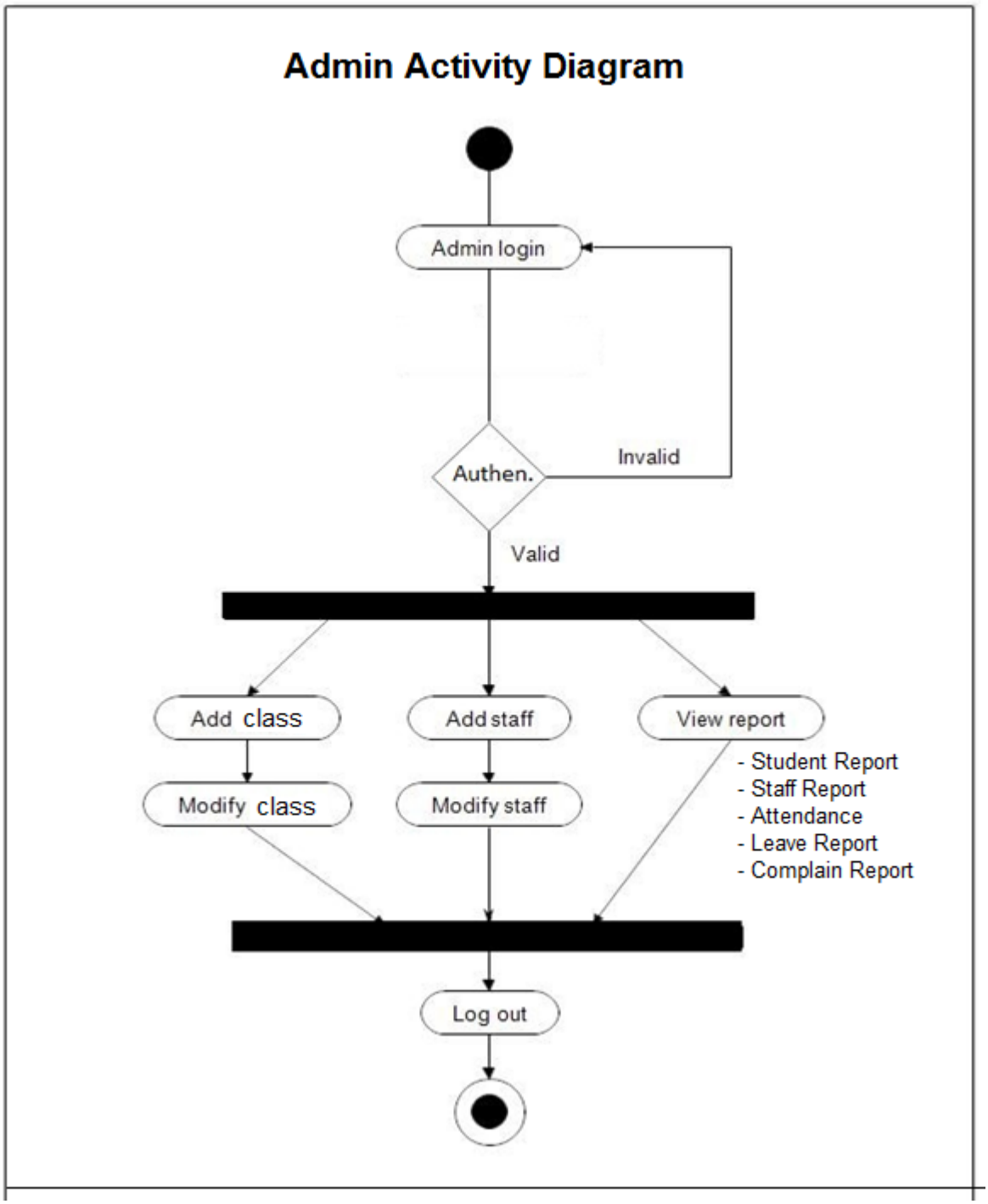
said before that "Use case diagrams are the blueprints for your system". They provide the simplified and graphical representation of what the system must do.



3.2 Activity Diagrams

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modelling Language, activity diagrams are intended to model both computational and organizational processes (i.e., workflows), as well as the data flows intersecting with the related activities. Although activity diagrams primarily show the overall flow of control, they can also include elements showing the flow of data between activities through one or more data stores Activity diagrams can be regarded as a form of a structured flowchart combined with a traditional data flow diagram. Typical flowchart techniques lack constructs for expressing concurrency. However, the join and split symbols in activity diagrams only resolve this for simple cases; the meaning of the model is not clear when they are arbitrarily combined with decisions or loops.

3.2.1 Admin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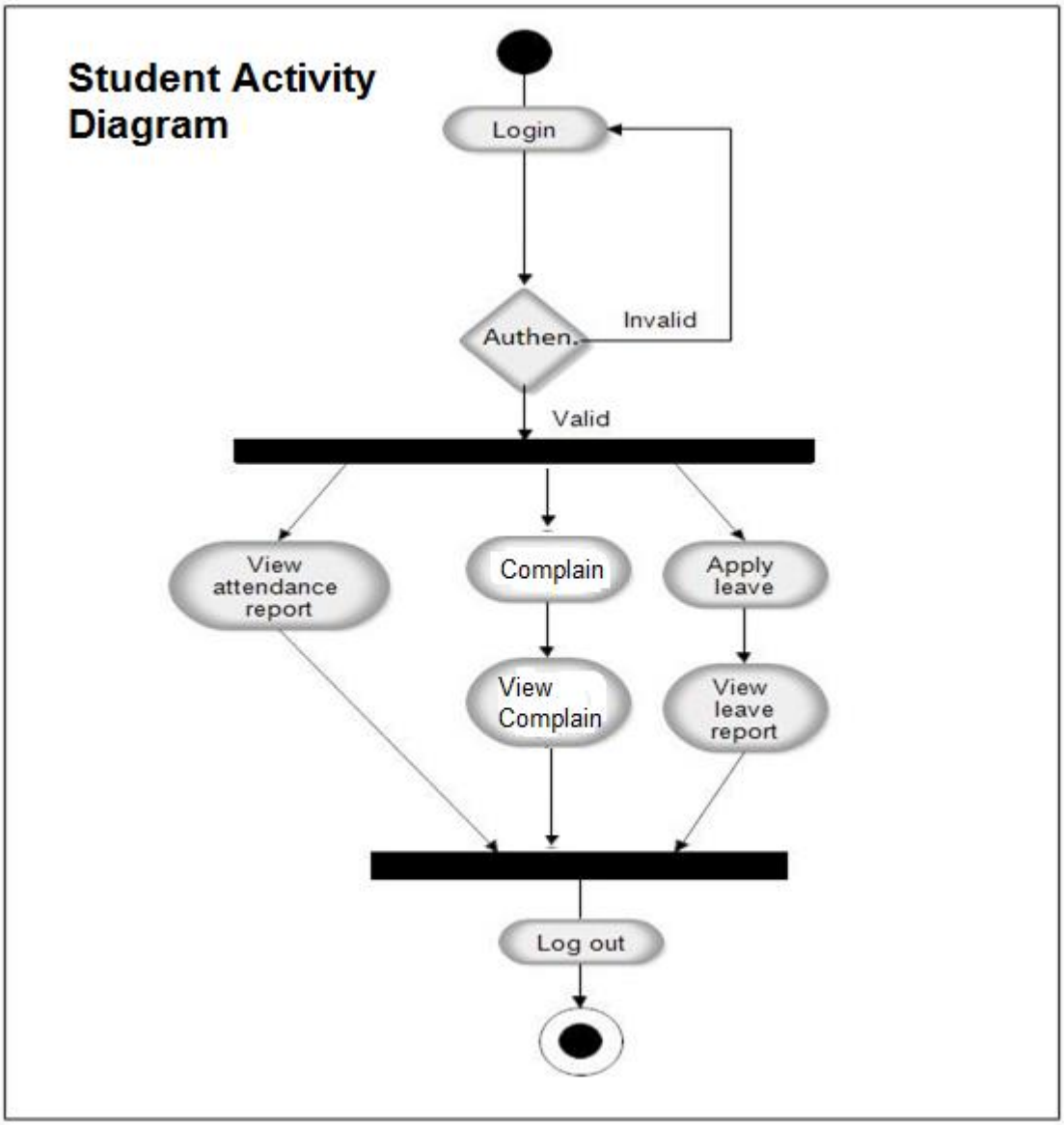
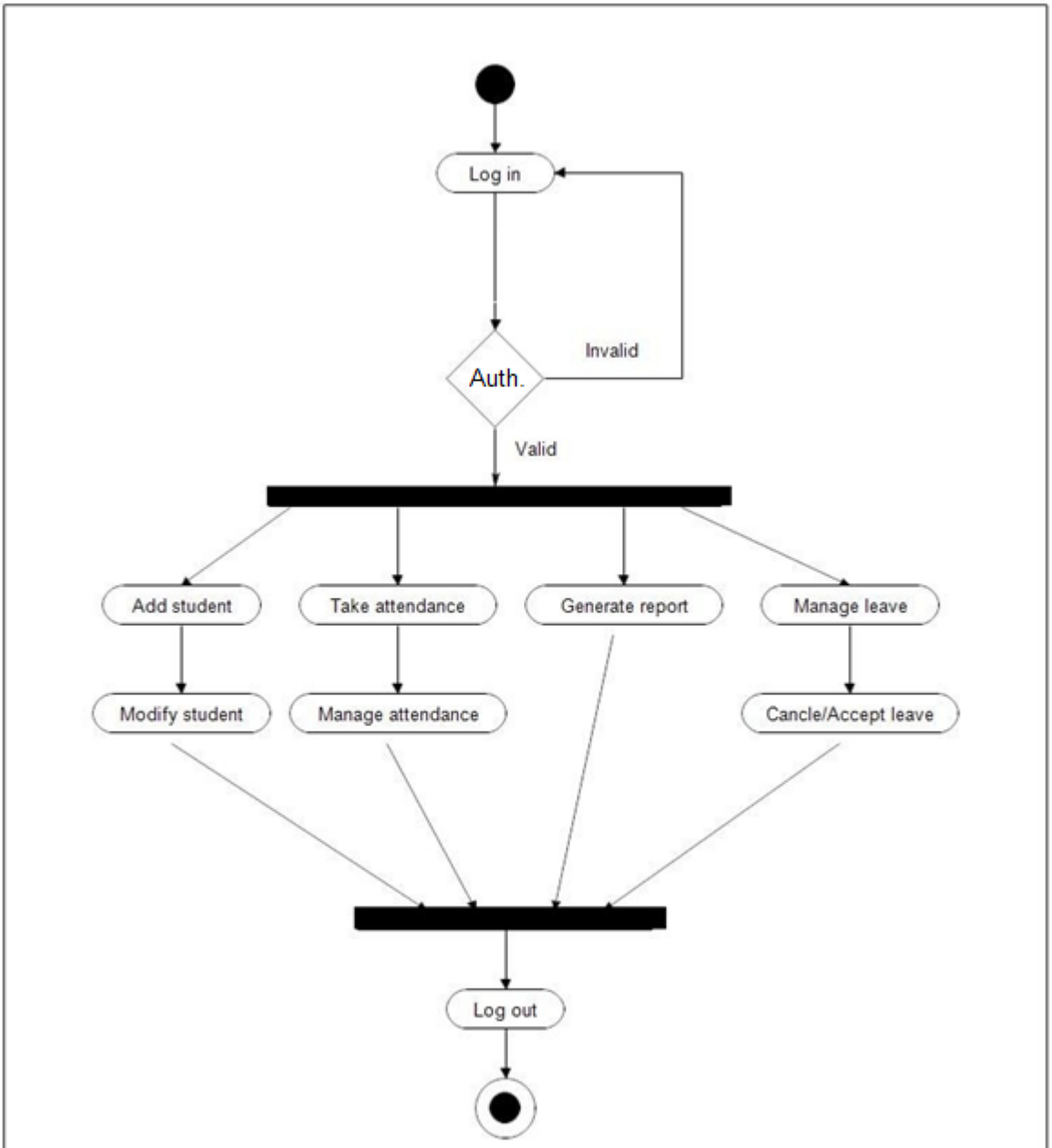
Authen.
Invalid
Valid
Add class
Add staff
View report
Modify class
Modify staff
- Student Report
- Staff Report
- Attendance
- Leave Report
- Complain Report
Log out

3.2.2 Student


Student Activity Diagram
Login
Authen.
Invalid
Valid
View attendance report
Complain
Apply leave
View Complain
View leave report
Log out

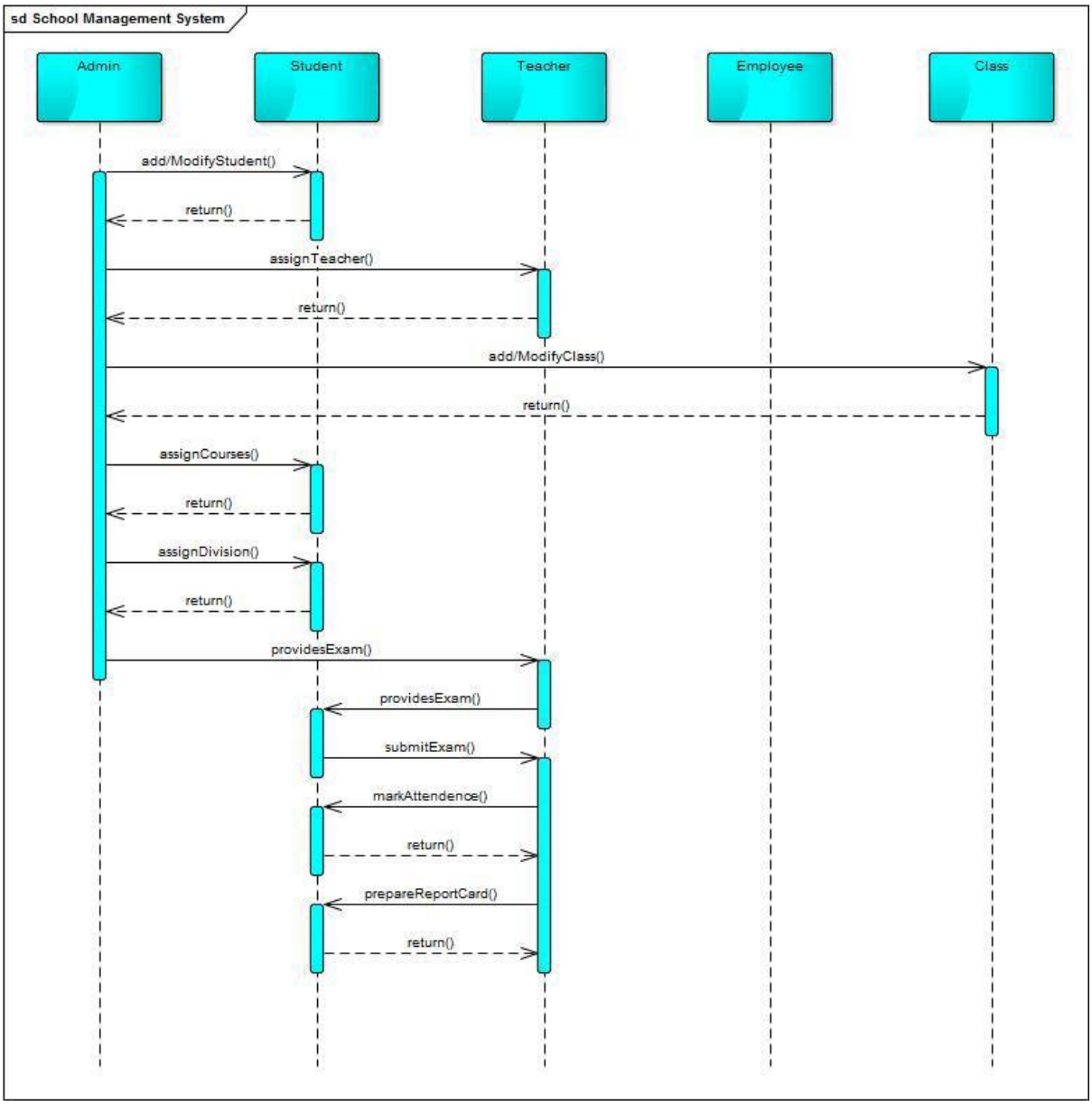
3.2.1 Staff



Staff Activity Diagram

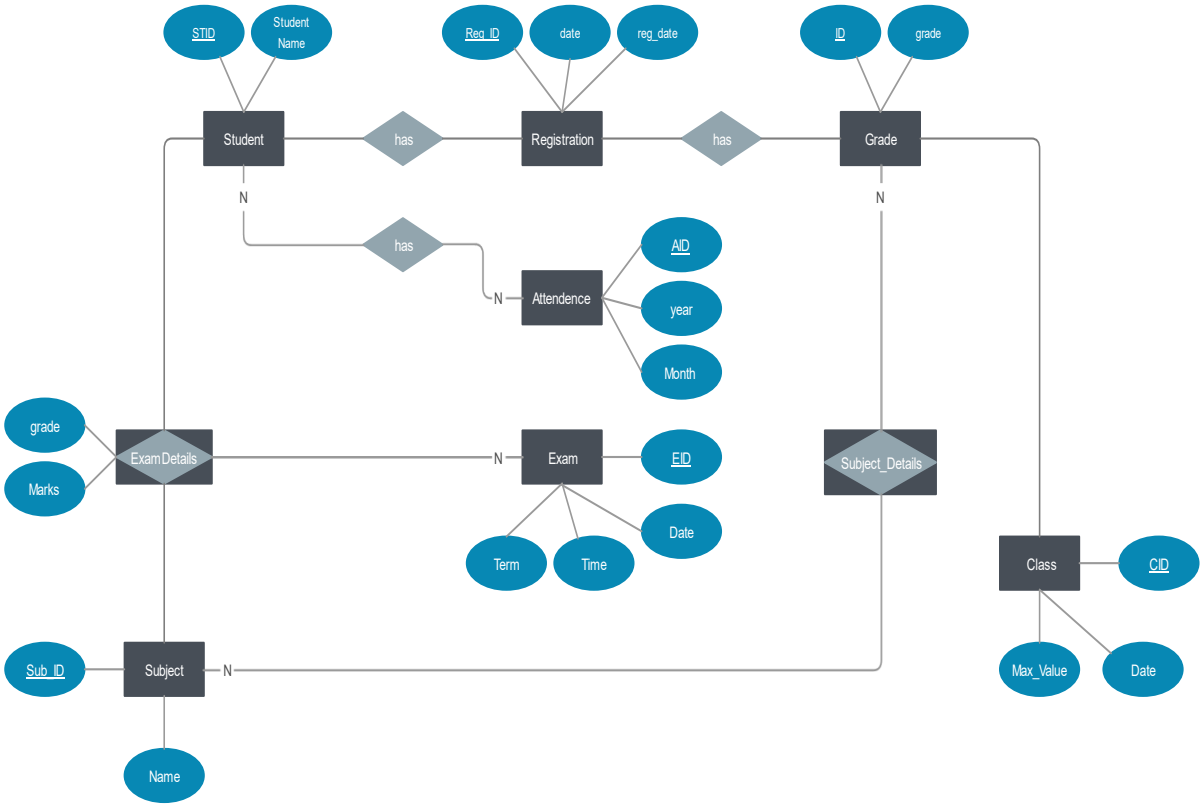
3.3. Sequence Diagram

A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagrams are typically associated with use case realizations in the Logical View of the system under development. Sequence diagrams are sometimes called event diagrams or event scenarios.

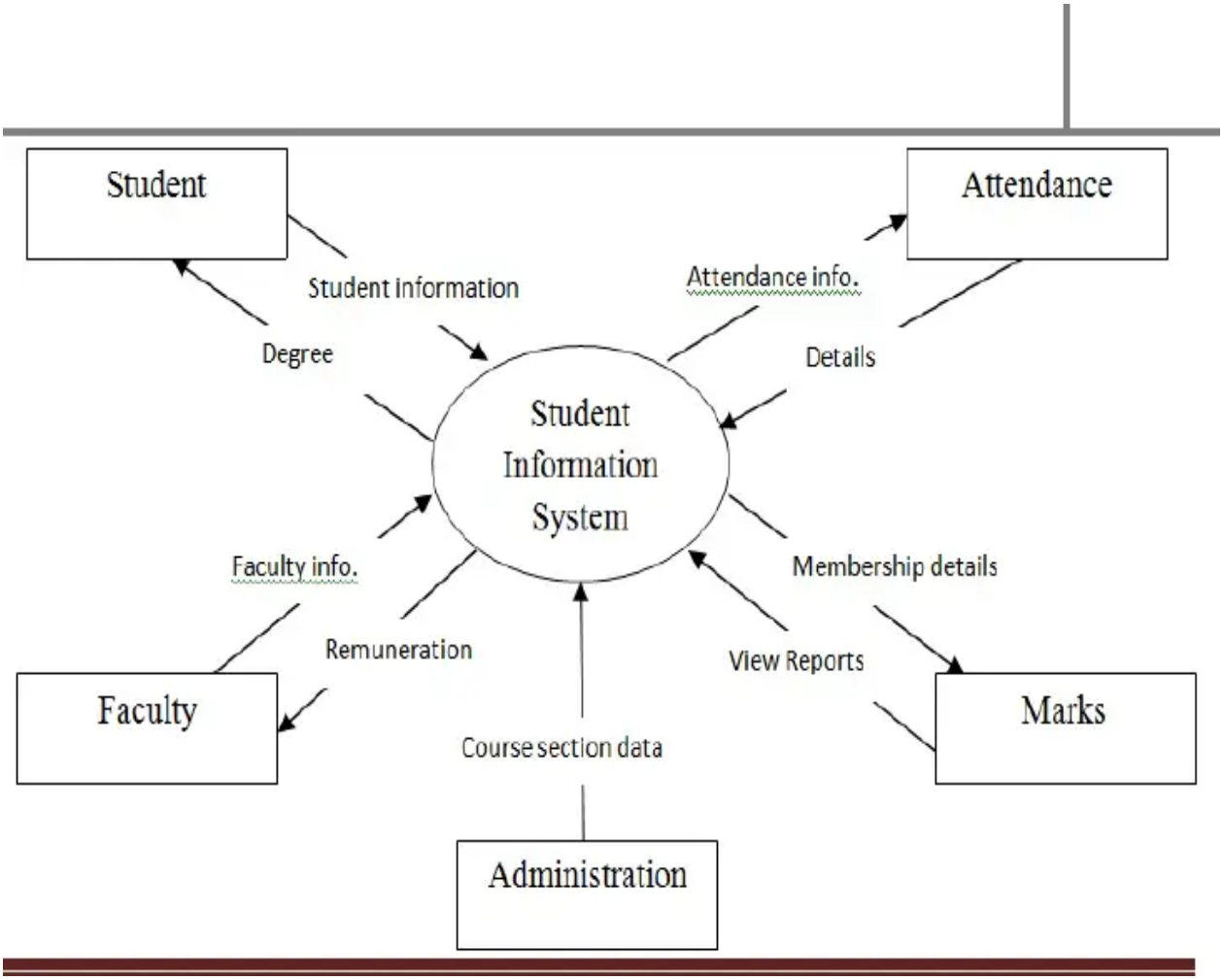


3.4 Entity Diagram

An entity–relationship model is usually the result of systematic analysis to define and describe what is important to process in an area of a business. It does not define the business processes; it only presents a business data schema in graphical form. It is usually drawn in a graphical form as boxes (entities) that are connected by lines (relationships) which express the associations and dependencies between entities. An ER model can also be expressed in a verbal form, for example: one building may be divided into zero or more apartments, but one apartment can only be in one.



3.5 Flowchart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Attendance info.
Degree
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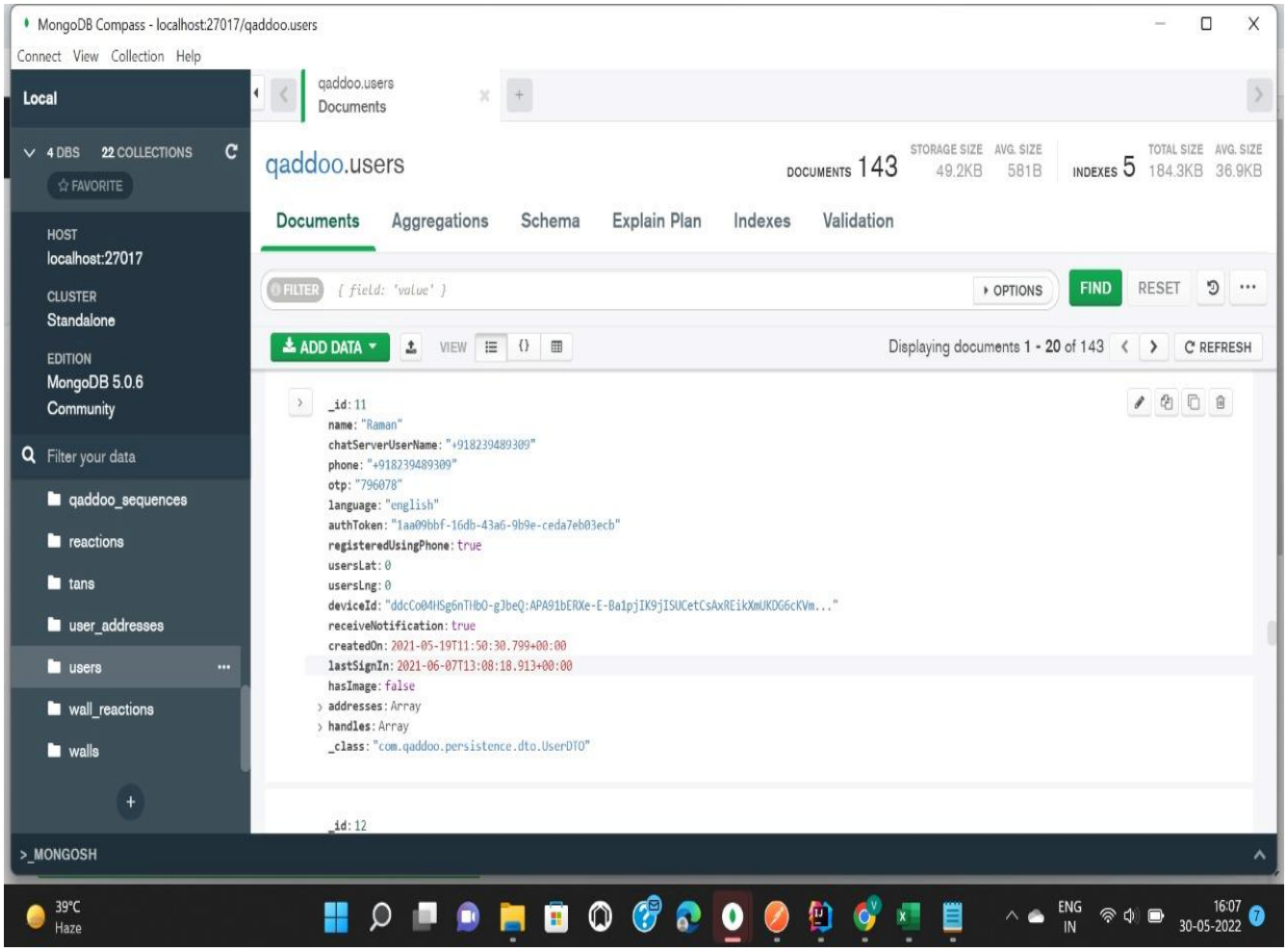
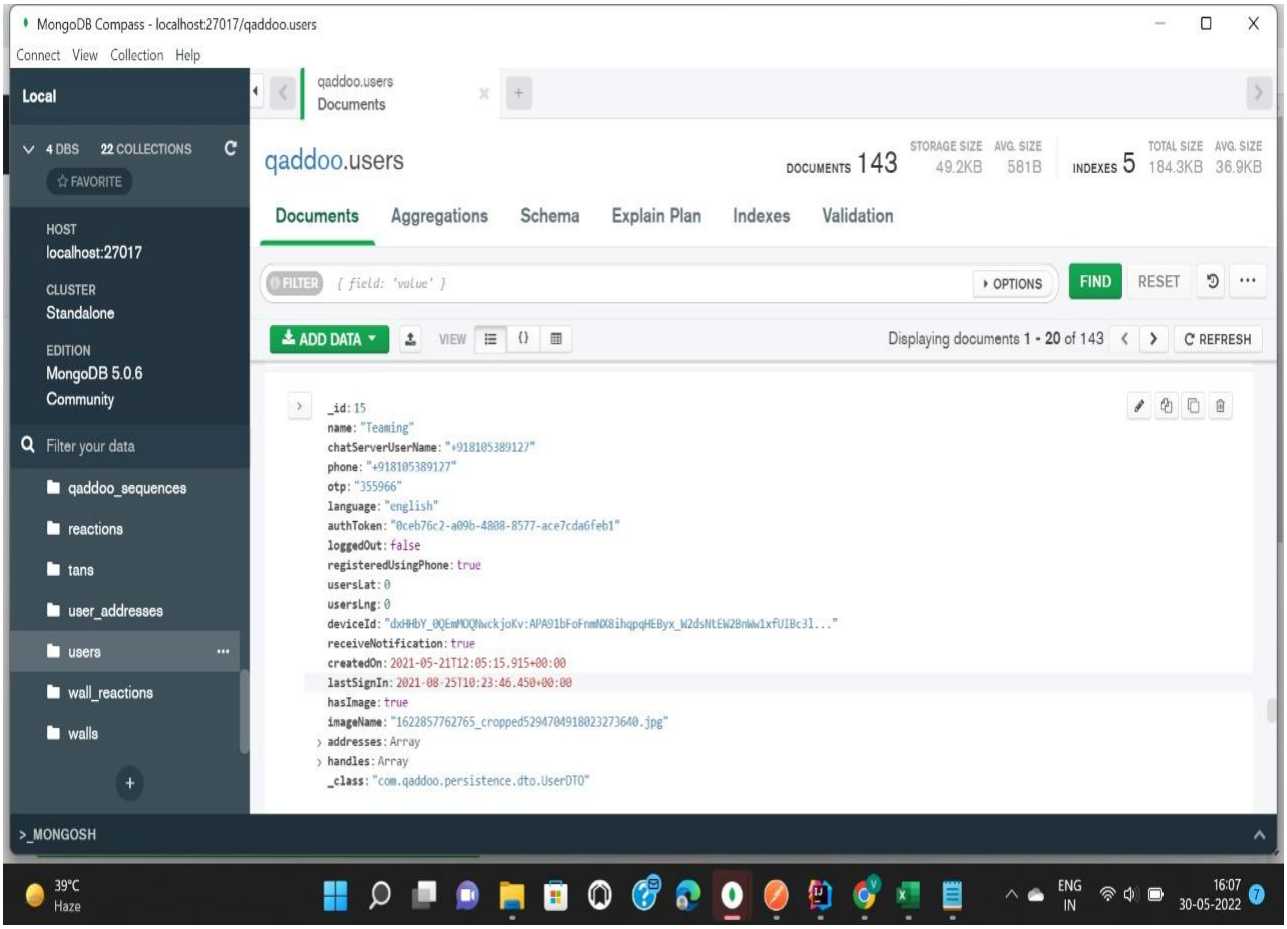
Student Information System
Faculty info.
Membership details
Remuneration
View Reports
Faculty
Marks
Course section data
Administration

3.6 Database Tables

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qaddoo.users
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Explain Plan
Indexes
Validation
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FIND
RESET
ADD DATA
VIEW
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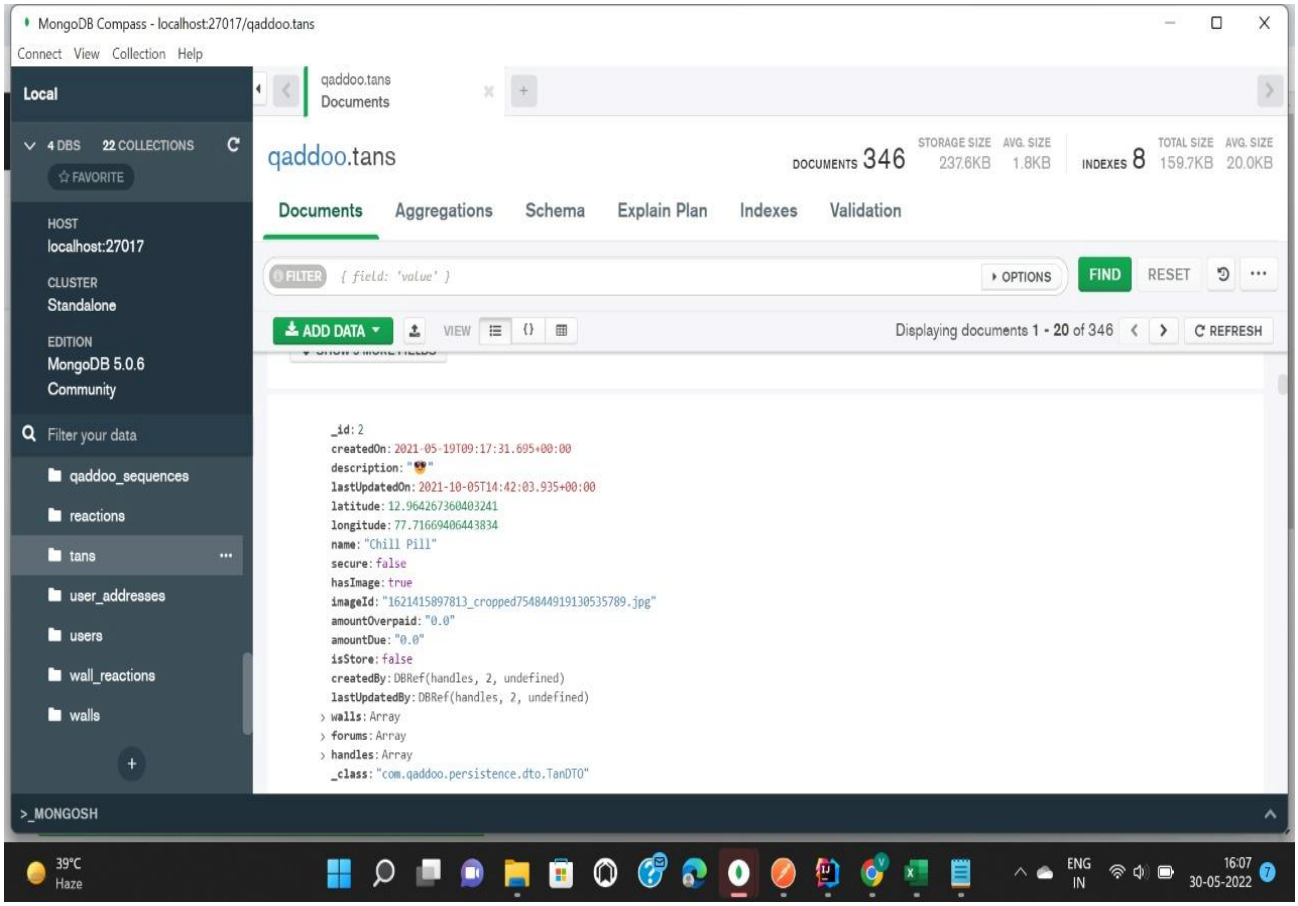
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STORAGE SIZE 237.6KB
AVG. SIZE 1.8KB
INDEXES 8
TOTAL SIZE 159.7KB
AVG. SIZE 20.0KB
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Validation
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OPTIONS
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ADD DATA
VIEW
Displaying documents 1 - 20 of 346
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longitude: 77.71669406443834
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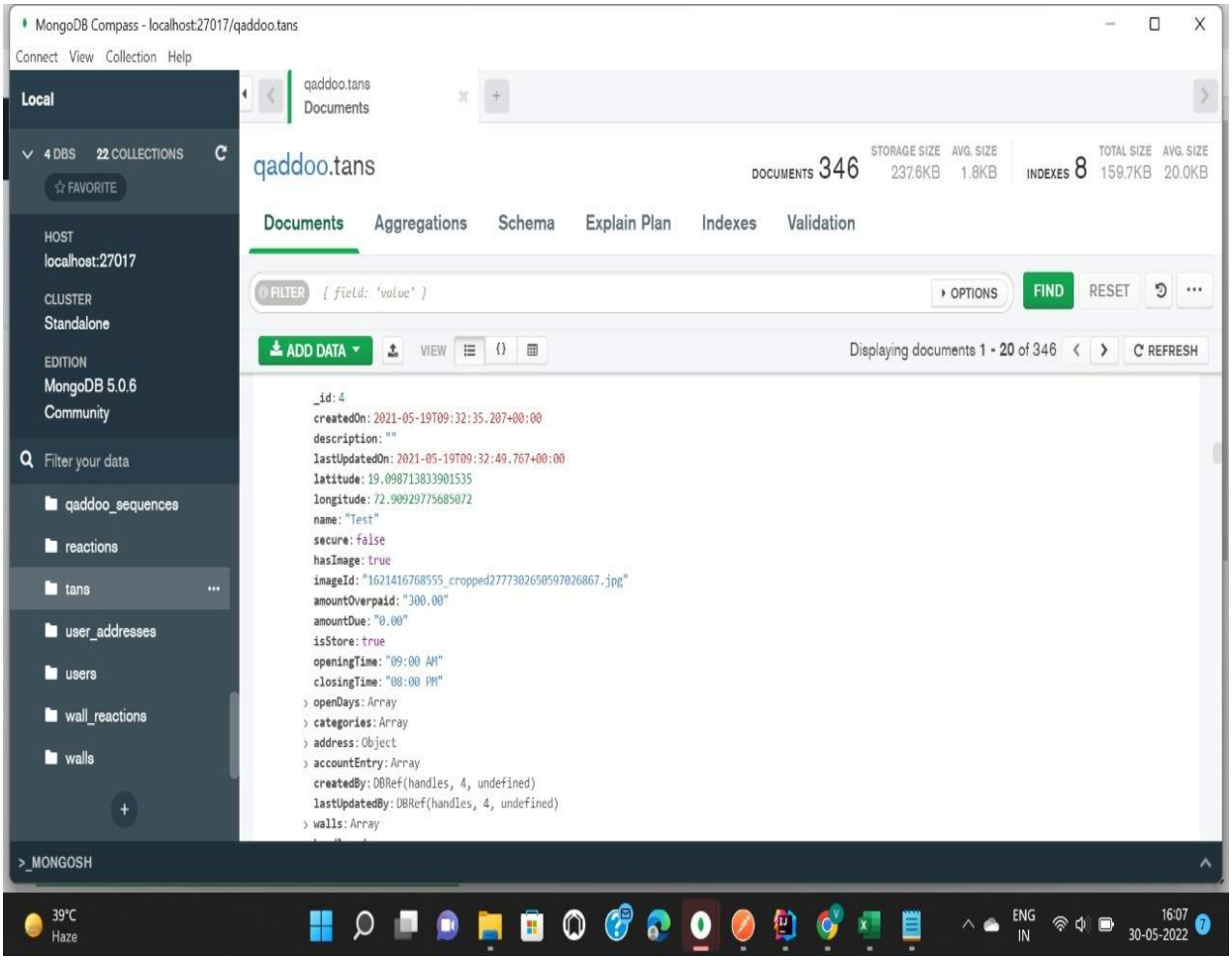
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Displaying documents 1 - 20 of 346
REFRESH
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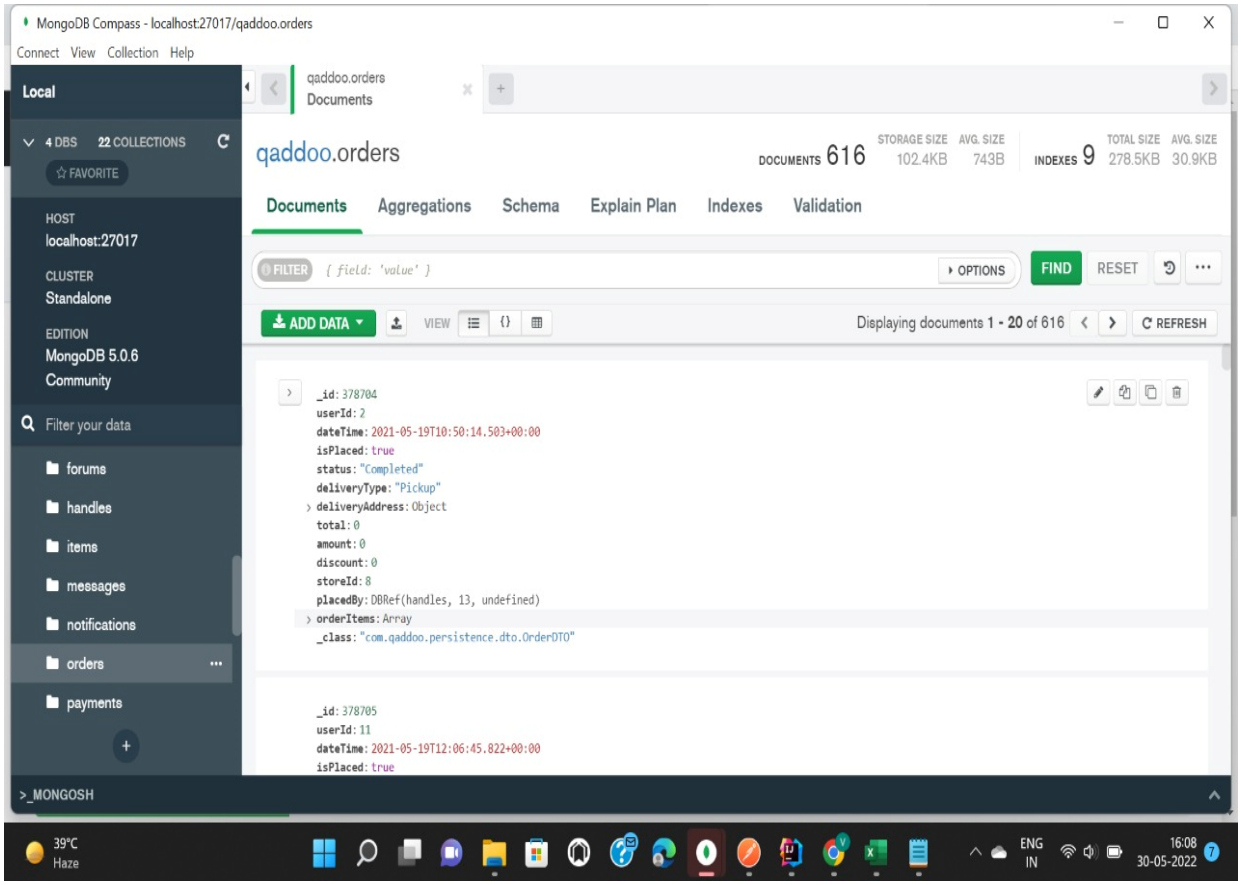
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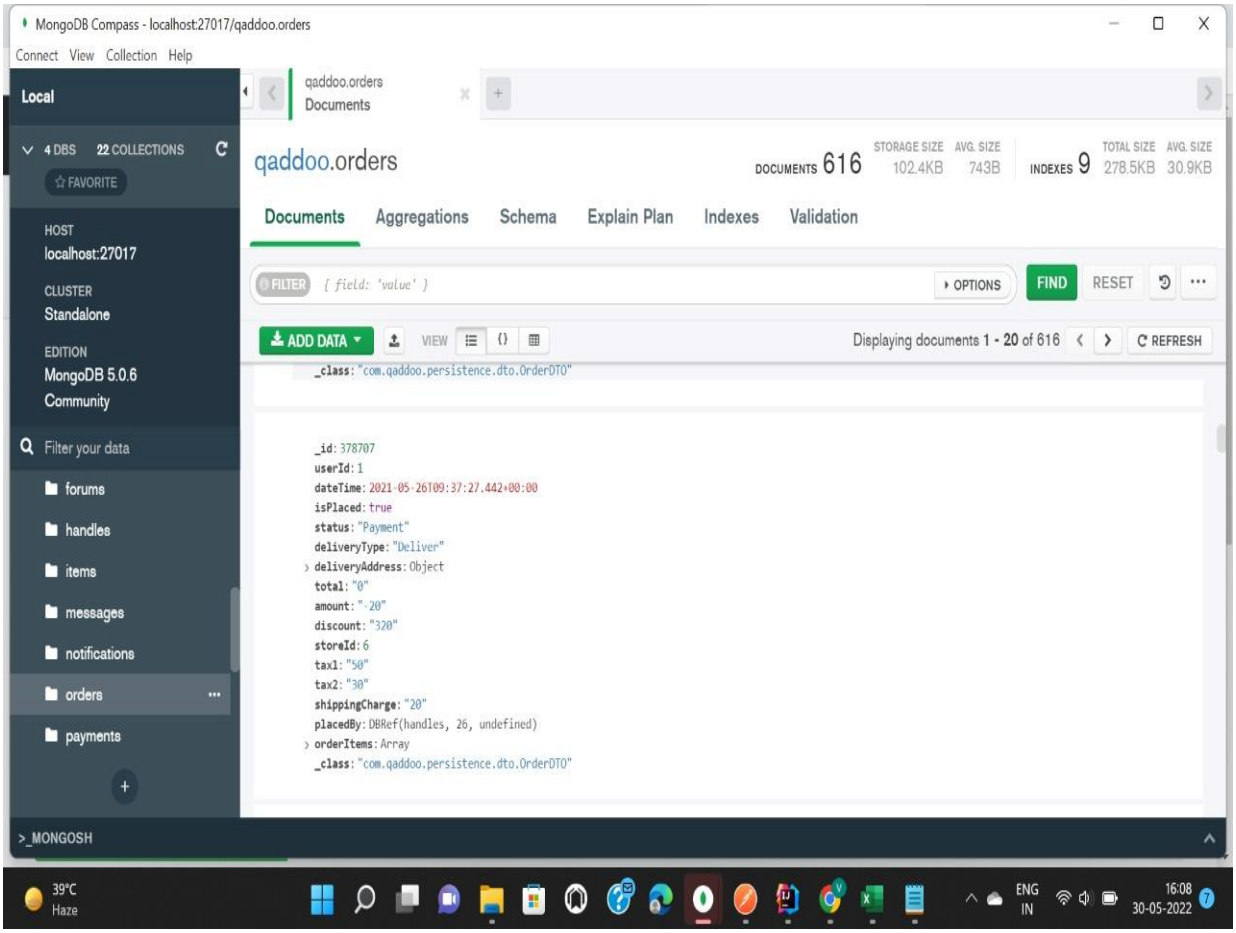
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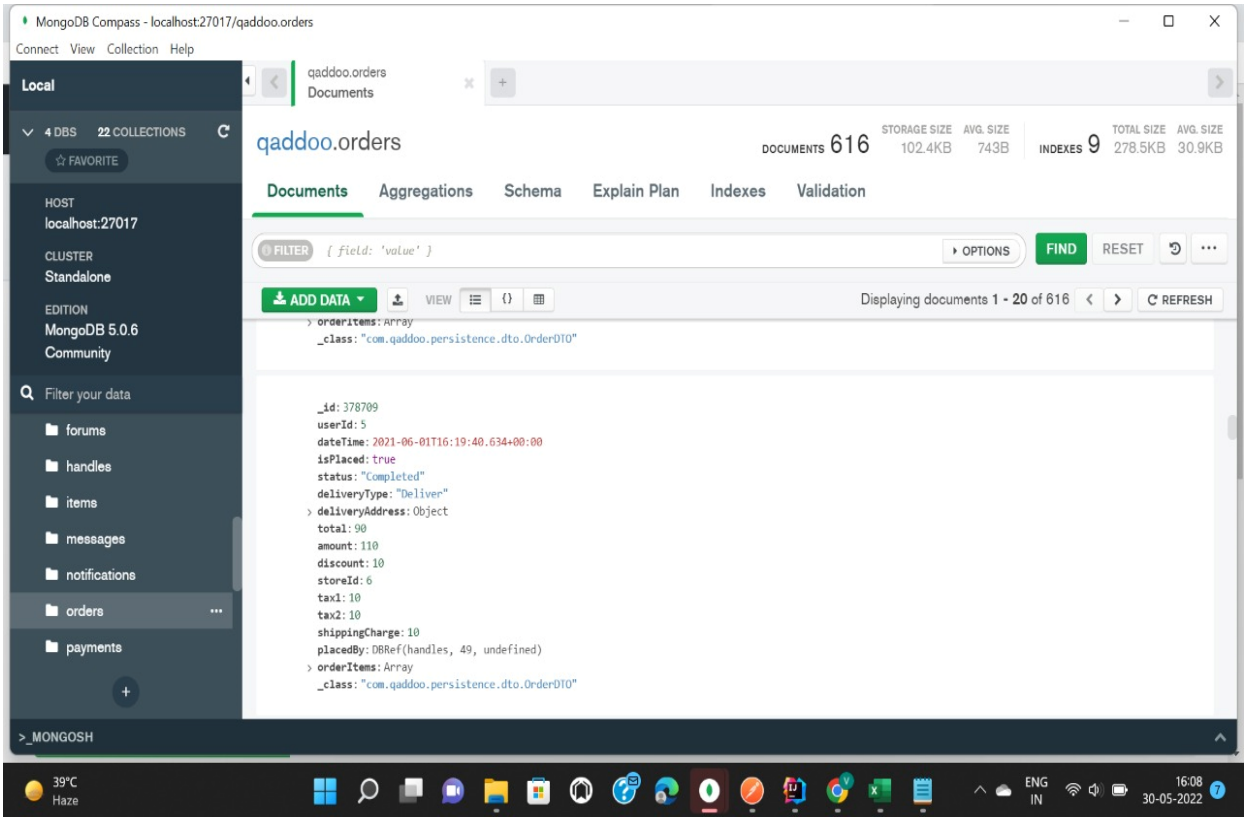
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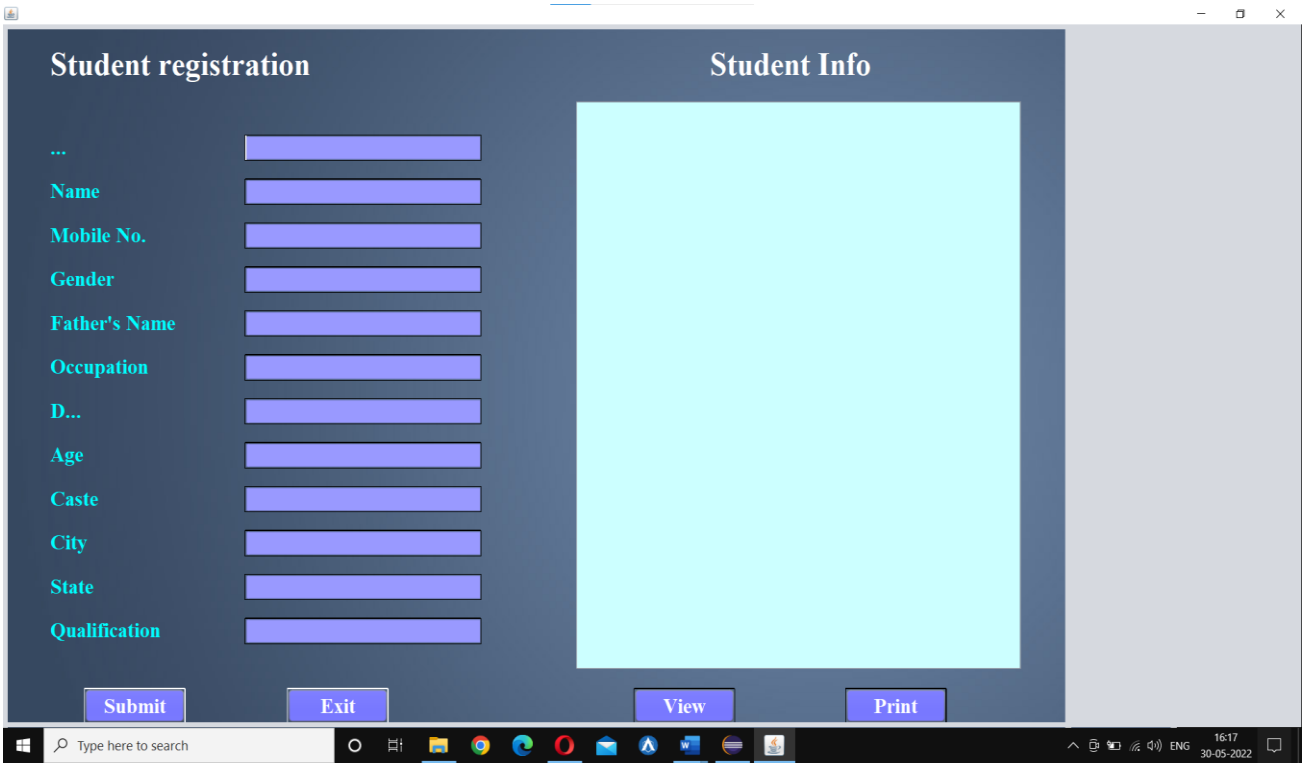
status: "Completed"
deliveryType: "Deliver"
deliveryAddress: Object
total: 90
amount: 110
discount: 10
storeId: 6
tax1: 10
tax2: 10
shippingCharge: 10
placedBy: DBRef(handles, 49, undefined)
orderItems: Array
_class: "com.qaddoo.persistence.dto.OrderDTO"
>_MONGOSH
39°C
Haze
ENG
IN
16:08
30-05-2022

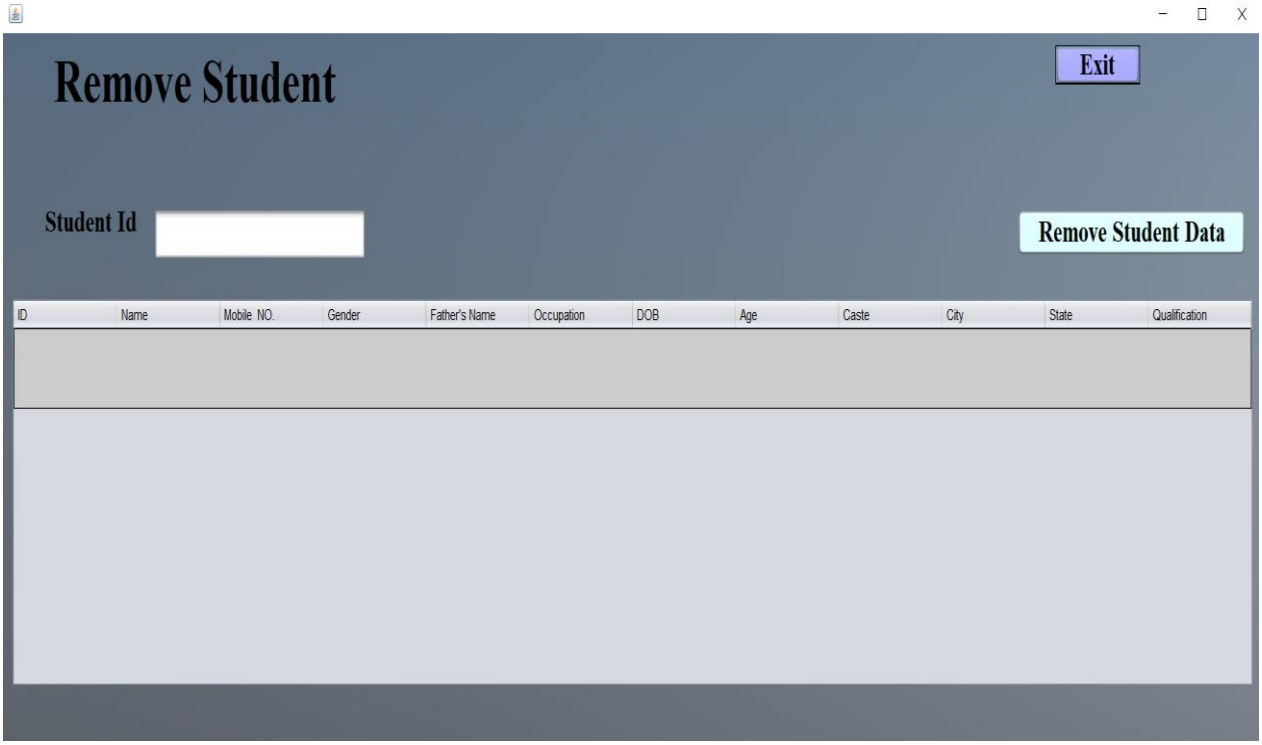
4 Layouts

4.1 Home Page

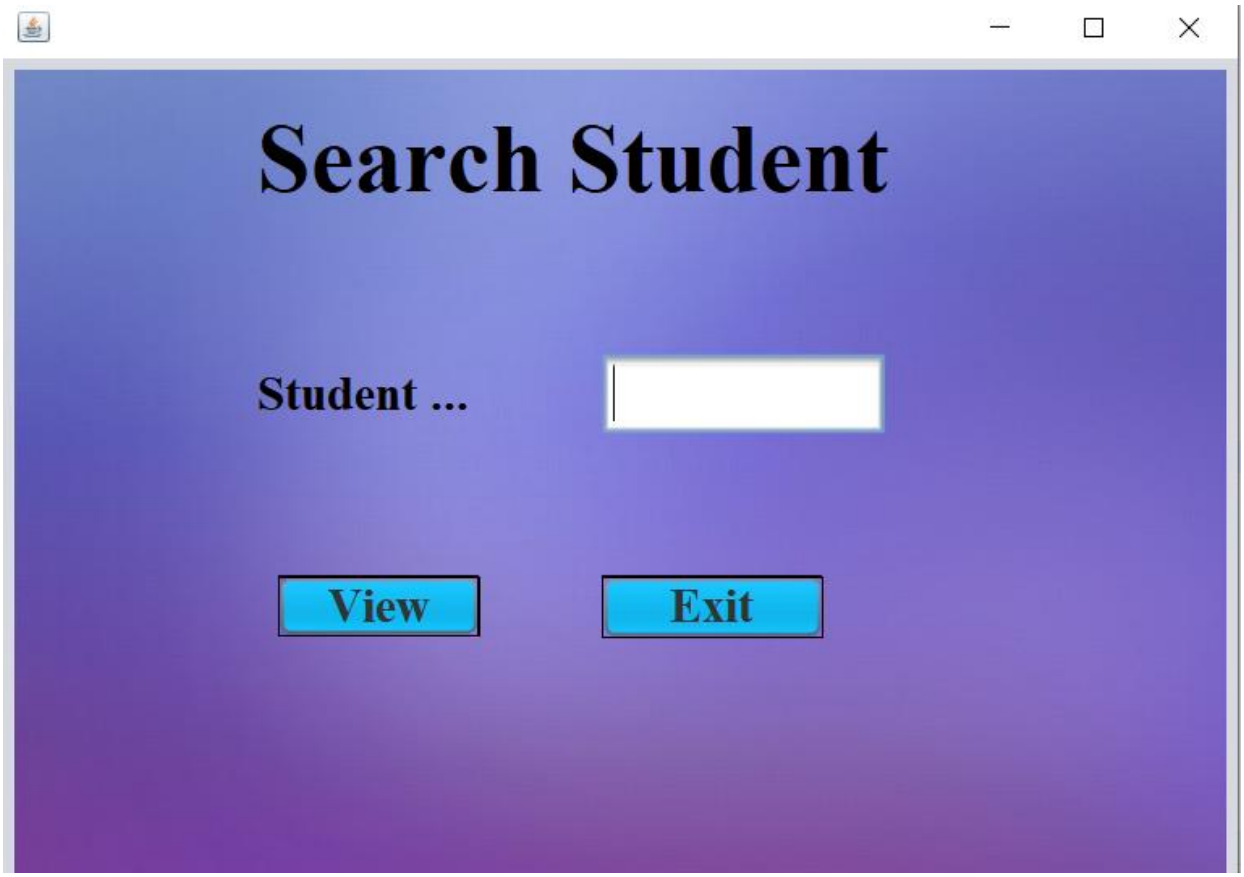
4.2 Add Student Data



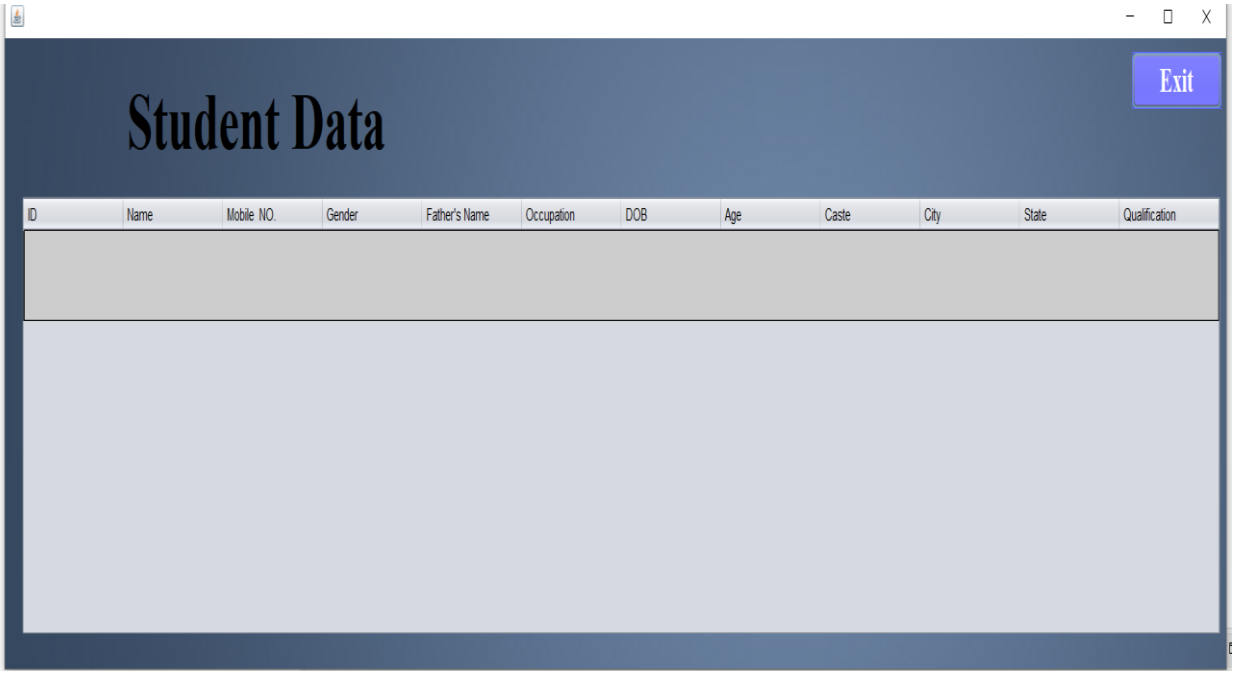
4.3 Remove Student Data



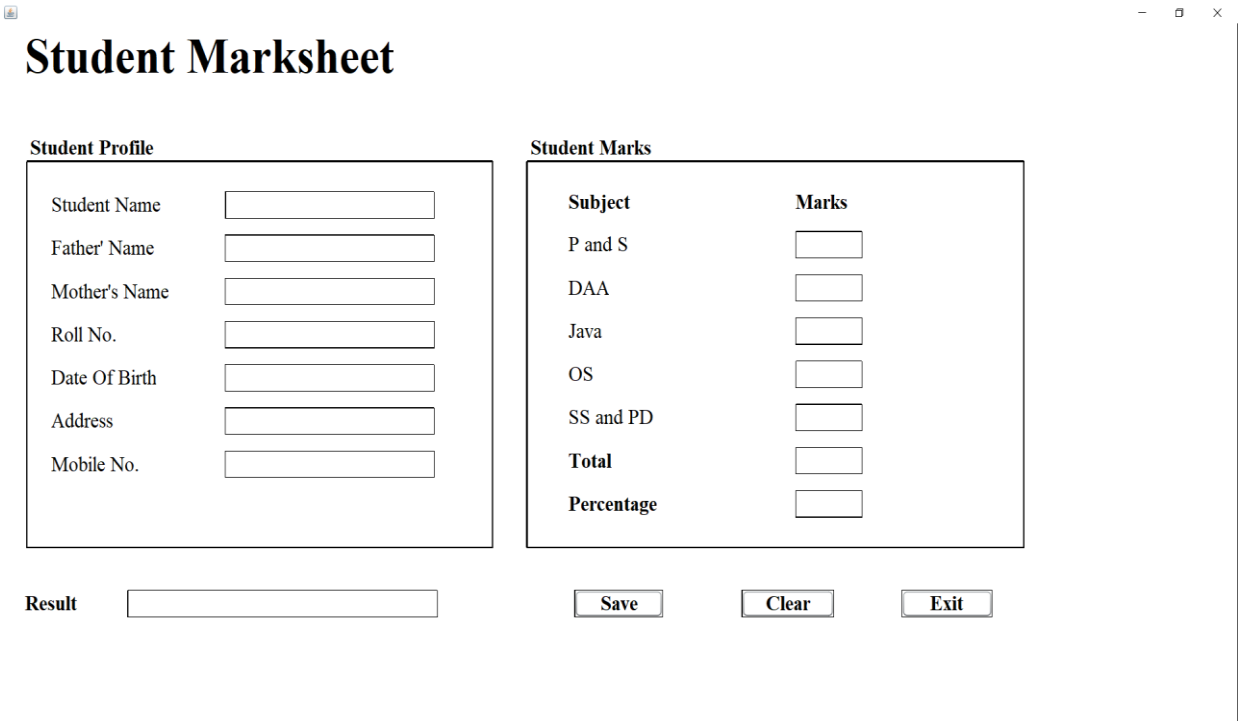
4.4 Search Student Data



4.5 View Student Data



4.6 View Student Marksheet



5 Coding

5.1 Admin

```
import javax.swing.JDialog;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Ashu
 */
public class Admin extends javax.swing.JFrame {

    /**
     * Creates new form Admin
     */
    public Admin() {
        initComponents();
        setLocationRelativeTo(null);
    }
```

```
    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jButton6 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jPanel1.setLayout(null);
```

```
        jLabel2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/adminlogin.png"))); //
NOI18N

        jPanel1.add(jLabel2);

        jLabel2.setBounds(0, 0, 1010, 290);


        jButton1.setBackground(new java.awt.Color(153, 204, 255));

        jButton1.setFont(new java.awt.Font("Times New Roman", 1, 30)); //
NOI18N

        jButton1.setForeground(new java.awt.Color(255, 255, 255));

        jButton1.setText("View Student Data");

        jButton1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 51, 204)));

        jButton1.addActionListener(new java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                jButton1ActionPerformed(evt);

            }

        });

        jPanel1.add(jButton1);

        jButton1.setBounds(500, 440, 340, 80);


        jButton2.setBackground(new java.awt.Color(153, 204, 255));

        jButton2.setFont(new java.awt.Font("Times New Roman", 1, 30)); //
NOI18N

        jButton2.setForeground(new java.awt.Color(255, 255, 255));

        jButton2.setText("Remove Student Data");

        jButton2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 51, 204)));

        jButton2.addActionListener(new java.awt.event.ActionListener() {
```

```
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    jPanel1.add(jButton2);
    jButton2.setBounds(90, 440, 350, 80);

    jButton3.setBackground(new java.awt.Color(153, 204, 255));
    jButton3.setFont(new java.awt.Font("Times New Roman", 1, 30)); // NOI18N
    jButton3.setForeground(new java.awt.Color(255, 255, 255));
    jButton3.setText("Search student Data");
    jButton3.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 51, 204)));
    jButton3.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton3ActionPerformed(evt);
        }
    });
    jPanel1.add(jButton3);
    jButton3.setBounds(90, 560, 350, 80);

    jButton4.setBackground(new java.awt.Color(153, 204, 255));
    jButton4.setFont(new java.awt.Font("Times New Roman", 1, 30)); // NOI18N
    jButton4.setForeground(new java.awt.Color(255, 255, 255));
    jButton4.setText("Create Mark Sheet");
    jButton4.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 51, 204)));
```

```
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton4ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton4);
        jButton4.setBounds(500, 320, 340, 80);

        jButton5.setBackground(new java.awt.Color(153, 204, 255));
        jButton5.setFont(new java.awt.Font("Times New Roman", 1, 30)); // NOI18N
        jButton5.setForeground(new java.awt.Color(255, 255, 255));
        jButton5.setText("Add Student Data");
        jButton5.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 51, 204)));
        jButton5.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton5ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton5);
        jButton5.setBounds(90, 320, 350, 80);

        jButton6.setBackground(new java.awt.Color(153, 204, 255));
        jButton6.setFont(new java.awt.Font("Times New Roman", 1, 30)); // NOI18N
        jButton6.setForeground(new java.awt.Color(255, 255, 255));
        jButton6.setText("Exit");
```

```
        jButton6.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 51, 204)));
        jButton6.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton6ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton6);
        jButton6.setBounds(500, 560, 340, 80);


        jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/secure.jpg"))); // NOI18N
        jLabel1.setText("jLabel1");
        jPanel1.add(jLabel1);
        jLabel1.setBounds(0, 0, 1500, 710);


        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 1502, Short.MAX_VALUE)
                .addContainerGap())
        );
        layout.setVerticalGroup(
```

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 709, Short.MAX_VALUE)
                .addContainerGap())
        );


        pack();
    }// </editor-fold>//GEN-END:initComponents


    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton6ActionPerformed
        JDialog.setDefaultLookAndFeelDecorated(true);
      int response = JOptionPane.showConfirmDialog(null,"Do you want to
EXIT?",  "Confirm" ,
                JOptionPane.YES_NO_OPTION,
JOptionPane.QUESTION_MESSAGE);
      if(response == JOptionPane.YES_NO_OPTION){
        setVisible(false);
        AdminLogin al = new AdminLogin();
        al.setVisible(true);
      }
    }//GEN-LAST:event_jButton6ActionPerformed


    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton5ActionPerformed
     setVisible(false);
```

```
        StudentForm sf = new StudentForm ();
        sf.setVisible(true);
    }//GEN-LAST:event_jButton5ActionPerformed

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton1ActionPerformed
        setVisible(false);
        ViewStudentData vs = new ViewStudentData ();
        vs.setVisible(true);
    }//GEN-LAST:event_jButton1ActionPerformed

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton4ActionPerformed
        setVisible(false);
        StudentMarkSheet sms =new StudentMarkSheet();
        sms.setVisible(true);
    }//GEN-LAST:event_jButton4ActionPerformed

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton2ActionPerformed
        setVisible(false);
        RemoveStudent rs =new RemoveStudent();
        rs.setVisible(true);
    }//GEN-LAST:event_jButton2ActionPerformed

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt)
{//GEN-FIRST:event_jButton3ActionPerformed
        setVisible(false);
        SearchStudent ss =new SearchStudent();
```

```
        ss.setVisible(true);
    }//GEN-LAST:event_jButton3ActionPerformed


    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Admin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
```

```
java.util.logging.Logger.getLogger(Admin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Admin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Admin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(() -> {
            new Admin().setVisible(true);
        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JButton jButton6;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
```

```
    private javax.swing.JPanel jPanel1;
    // End of variables declaration//GEN-END:variables
}
```

5.2 Admin Login

```
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JDialog;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Ashu
 */
```

```
public class AdminLogin extends javax.swing.JFrame {

    /**
     * Creates new form AdminLogin
     */
    public AdminLogin() {
        initComponents();
        setLocationRelativeTo(null);

    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        user = new javax.swing.JTextField();
        pass = new javax.swing.JPasswordField();
```

```
        jButton1 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jPanel1.setLayout(null);

        jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
        jLabel2.setForeground(new java.awt.Color(204, 255, 204));
        jLabel2.setText("Admin Login");
        jPanel1.add(jLabel2);
        jLabel2.setBounds(130, 10, 290, 60);

        jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(51, 51, 51));
        jLabel3.setText("Username");
        jPanel1.add(jLabel3);
        jLabel3.setBounds(80, 150, 120, 50);

        jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel4.setForeground(new java.awt.Color(51, 51, 51));
        jLabel4.setText("Password");
        jPanel1.add(jLabel4);
        jLabel4.setBounds(80, 200, 120, 50);
```

```
        jPanel1.add(user);
        user.setBounds(230, 160, 190, 30);
        jPanel1.add(pass);
        pass.setBounds(230, 210, 190, 30);

        jButton1.setBackground(new java.awt.Color(255, 255, 255));
        jButton1.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton1.setText("Login");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton1);
        jButton1.setBounds(130, 310, 110, 30);

        jButton3.setBackground(new java.awt.Color(255, 255, 255));
        jButton3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton3.setText("Exit");
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton3);
        jButton3.setBounds(280, 310, 110, 30);
```

```
        jLabel1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/book-with-green-board-
background_1150-3837.jpg"))); // NOI18N
        jLabel1.setText("jLabel1");
        jPanel1.add(jLabel1);
        jLabel1.setBounds(0, -10, 538, 438);


        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 539, Short.MAX_VALUE)
                .addContainerGap())
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 419, Short.MAX_VALUE)
                .addContainerGap())
        );
```

```
        pack();
    }// </editor-fold>//GEN-END:initComponents


    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed
     try{
Class.forName("com.mysql.jdbc.Driver");
Connection con =DriverManager.getConnection("jdbc:mysql://localhost:3306/Student","root","");
String sql = "SELECT * FROM  admin WHERE Username = ? AND Password = ?";
PreparedStatement pst = con.prepareStatement(sql);
pst.setString(1, user.getText());
pst.setString(2, pass.getText());
ResultSet rs = pst.executeQuery();
if(rs.next()){
    JOptionPane.showMessageDialog(null, "Login Successfully....");
        setVisible(false);
        Admin a = new Admin();
        a.setVisible(true);
}
else{
JOptionPane.showMessageDialog(null, "Login Failed....");
}
}
catch(HeadlessException | ClassNotFoundException | SQLException e){
JOptionPane.showMessageDialog(null, e);
}
```

```
    }//GEN-LAST:event_jButton1ActionPerformed


    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton3ActionPerformed
    JDialog.setDefaultLookAndFeelDecorated(true);
        int response = JOptionPane.showConfirmDialog(null,"Do you want to EXIT?",  "Confirm" ,
                JOptionPane.YES_NO_OPTION,
    JOptionPane.QUESTION_MESSAGE);
        if(response == JOptionPane.YES_NO_OPTION){
         setVisible(false);
         UserLogin ul = new UserLogin();
         ul.setVisible(true);
    }//GEN-LAST:event_jButton3ActionPerformed
    }
    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
```

```
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(AdminLogin.class.getName()).log(java.util.
logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(AdminLogin.class.getName()).log(java.util.
logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(AdminLogin.class.getName()).log(java.util.
logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(AdminLogin.class.getName()).log(java.util.
logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>

    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new AdminLogin().setVisible(true);
        }
    });
```

```
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPasswordField pass;
    private javax.swing.JTextField user;
    // End of variables declaration//GEN-END:variables
}
```

5.3 New User

```
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.swing.JDialog;
import javax.swing.JOptionPane;

/*
```

```
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Ashu
 */
public class NewUser extends javax.swing.JFrame {

    /**
     * Creates new form NewUser
     */
    public NewUser() {
        initComponents();
        setLocationRelativeTo(null);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
```

```
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        username = new javax.swing.JTextField();
        mailID = new javax.swing.JTextField();
        pass = new javax.swing.JPasswordField();
        conformpass = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel7 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


        jPanel1.setLayout(null);


        jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel3.setForeground(new java.awt.Color(51, 0, 0));
        jLabel3.setText("Usename");
        jPanel1.add(jLabel3);
        jLabel3.setBounds(50, 330, 110, 40);
```

```
jLabel4.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jLabel4.setForeground(new java.awt.Color(51, 0, 0));
jLabel4.setText("Email ID");
jPanel1.add(jLabel4);
jLabel4.setBounds(50, 390, 110, 30);

jLabel5.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jLabel5.setForeground(new java.awt.Color(51, 0, 0));
jLabel5.setText("Password");
jPanel1.add(jLabel5);
jLabel5.setBounds(50, 450, 98, 28);

jLabel6.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
jLabel6.setForeground(new java.awt.Color(51, 0, 0));
jLabel6.setText("Conform Password");
jPanel1.add(jLabel6);
jLabel6.setBounds(50, 490, 210, 60);

username.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
jPanel1.add(username);
username.setBounds(310, 340, 230, 30);

mailID.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
jPanel1.add(mailID);
```

```
        mailID.setBounds(310, 390, 230, 30);


        pass.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        pass.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)));
        pass.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                passActionPerformed(evt);
            }
        });
        jPanel1.add(pass);
        pass.setBounds(310, 450, 230, 30);


        conformpass.setFont(new java.awt.Font("Times New Roman", 1, 24)); //
NOI18N
        conformpass.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)));
        conformpass.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                conformpassActionPerformed(evt);
            }
        });
        jPanel1.add(conformpass);
        conformpass.setBounds(310, 510, 230, 30);


        jButton1.setBackground(new java.awt.Color(204, 255, 255));
        jButton1.setFont(new java.awt.Font("Times New Roman", 1, 24)); //
NOI18N
        jButton1.setForeground(new java.awt.Color(0, 0, 153));
```

```
        jButton1.setText("Sign In");
        jButton1.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)));
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton1);
        jButton1.setBounds(120, 590, 120, 40);


        jButton2.setBackground(new java.awt.Color(204, 255, 255));
        jButton2.setFont(new java.awt.Font("Times New Roman", 1, 24)); //
NOI18N
        jButton2.setForeground(new java.awt.Color(0, 0, 153));
        jButton2.setText("Exit");
        jButton2.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 0, 0)));
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton2);
        jButton2.setBounds(310, 590, 130, 40);


        jLabel7.setFont(new java.awt.Font("Times New Roman", 1, 56)); //
NOI18N
        jLabel7.setForeground(new java.awt.Color(153, 153, 255));
```

```
        jLabel7.setText("Create New Account");
        jPanel1.add(jLabel7);
        jLabel7.setBounds(40, 170, 520, 80);

        jLabel2.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/shutterstock_159503864.jpg")
)); // NOI18N
        jLabel2.setText("jLabel2");
        jPanel1.add(jLabel2);
        jLabel2.setBounds(0, 0, 1000, 740);

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 1002, Short.MAX_VALUE)
                .addContainerGap())
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE, 741, Short.MAX_VALUE)
```

```
            .addContainerGap())
        );

        pack();
    }// </editor-fold>//GEN-END:initComponents

    private void passActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_passActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_passActionPerformed

    private void conformpassActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_conformpassActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_conformpassActionPerformed

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed
        try{
            Class.forName("com.mysql.jdbc.Driver");
            try (Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/Student","root","")) {
                String sql = "INSERT into signupdata ( Username, MailID, Password, ConformPassword) VALUES(?, ?, ?, ?)";
                PreparedStatement pst = con.prepareStatement(sql);
                pst.setString(1, username.getText());
                pst.setString(2, mailID.getText());
                pst.setString(3, pass.getText());
```

```
            pst.setString(4, conformpass.getText());
            pst.executeUpdate();
            JOptionPane.showMessageDialog(null,"Data Submitted Sucessfully.....");
            //setVisible(false);
            //Main ma = new Main();
            //ma.setVisible(true);
        }
      }
      catch( HeadlessException | ClassNotFoundException | SQLException e){
        JOptionPane.showMessageDialog(null, e);
      }
   }//GEN-LAST:event_jButton1ActionPerformed


   private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton2ActionPerformed
      JDialog.setDefaultLookAndFeelDecorated(true);
      int response = JOptionPane.showConfirmDialog(null,"Do you want to EXIT?", "Confirm" ,
        JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE);
      if(response == JOptionPane.YES_NO_OPTION){
        setVisible(false);
        StudLogin sl= new StudLogin();
        sl.setVisible(true);
      }
   }//GEN-LAST:event_jButton2ActionPerformed
```

```
    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(NewUser.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(NewUser.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
```

```
java.util.logging.Logger.getLogger(NewUser.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(NewUser.class.getName()).log(java.util.log
ging.Level.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new NewUser().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JPasswordField conformpass;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JPanel jPanel1;
```

```
    private javax.swing.JTextField mailID;
    private javax.swing.JPasswordField pass;
    private javax.swing.JTextField username;
    // End of variables declaration//GEN-END:variables
}
```

5.4 Remove Student

```
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JDialog;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;


/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
```

```
/**
 *
 * @author Ashu
 */
public class RemoveStudent extends javax.swing.JFrame {
    Connection conn = null;
    PreparedStatement pst = null;
    ResultSet rs = null;
    DefaultTableModel model = new DefaultTableModel();



    /**
     * Creates new form RemoveStudent
     */
    public RemoveStudent() {
        initComponents();
        setLocationRelativeTo(null);
         View();
    }


    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
```

```
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        sid = new javax.swing.JTextField();
        jScrollPane1 = new javax.swing.JScrollPane();
        table = new javax.swing.JTable();
        jButton2 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


        jPanel1.setLayout(null);


        jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
        jLabel2.setText("Remove Student");
        jPanel1.add(jLabel2);
        jLabel2.setBounds(60, 10, 360, 60);


        jButton1.setBackground(new java.awt.Color(153, 153, 255));
        jButton1.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton1.setText("Exit");
```

```
        jButton1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jPanel1.add(jButton1);
        jButton1.setBounds(1245, 10, 100, 31);

        jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel3.setText("Student Id");
        jPanel1.add(jLabel3);
        jLabel3.setBounds(50, 130, 120, 40);

        sid.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jPanel1.add(sid);
        sid.setBounds(179, 140, 250, 40);

        table.setAutoCreateRowSorter(true);
        table.setBackground(new java.awt.Color(204, 204, 204));
        table.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
        table.setFont(new java.awt.Font("Times New Roman", 1, 18)); // NOI18N
        table.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {
```

```
        },
        new String [] {
            "ID", "Name", "Mobile NO.", "Gender", "Father's Name", "Occupation", "DOB", "Age", "Caste", "City", "State", "Qualification"
        }
    ));
    table.setPreferredSize(new java.awt.Dimension(900, 64));
    jScrollPane1.setViewportView(table);

    jPanel1.add(jScrollPane1);
    jScrollPane1.setBounds(10, 210, 1470, 310);

    jButton2.setBackground(new java.awt.Color(204, 255, 255));
    jButton2.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
    jButton2.setText("Remove Student Data");
    jButton2.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton2ActionPerformed(evt);
        }
    });
    jPanel1.add(jButton2);
    jButton2.setBounds(1200, 140, 270, 37);

    jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/atlantic-blurred-background.jpg"))); // NOI18N
    jLabel1.setText("jLabel1");
    jPanel1.add(jLabel1);
```

```
        jLabel1.setBounds(0, 0, 1490, 810);

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 1490, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 565, Short.MAX_VALUE)
        );

        pack();
    }// </editor-fold>//GEN-END:initComponents

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed
        JDialog.setDefaultLookAndFeelDecorated(true);
      int response = JOptionPane.showConfirmDialog(null,"Do you want to EXIT?", "Confirm" ,
              JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE);
      if(response == JOptionPane.YES_NO_OPTION){
        setVisible(false);
```

```
        Admin a = new Admin();
        a.setVisible(true);
       }
   }//GEN-LAST:event_jButton1ActionPerformed


   private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton2ActionPerformed
       // TODO add your handling code here:
        try{
          Class.forName("com.mysql.jdbc.Driver");
           try (Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/Student","root","")) {
               String sql = "DELETE from studentinfo WHERE  ID = ?";
               PreparedStatement pst = con.prepareStatement(sql);
               pst.setString(1, sid.getText());
               pst.execute();
               JOptionPane.showMessageDialog(null,"Given Id is deleted from records.. ");
            }
       }
       catch(HeadlessException | ClassNotFoundException | SQLException e){
          JOptionPane.showMessageDialog(null, e);


       }
   }//GEN-LAST:event_jButton2ActionPerformed
public void View() {
   try{
Class.forName("com.mysql.jdbc.Driver");
```

```
            try (Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/Student","root","")
) {
                String sql ="SELECT * FROM studentinfo";
       pst=con.prepareStatement(sql);
       rs=pst.executeQuery();
       table.setModel(DbUtils.resultSetToTableModel(rs));
       rs.close();
       pst.close();
                }
            catch(Exception e){
              JOptionPane.showMessageDialog(null, e);
            }
    }
                catch(HeadlessException | ClassNotFoundException e){
                 JOptionPane.showMessageDialog(null, e);
                }


}
    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
```

```
        * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
        */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(RemoveStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(RemoveStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(RemoveStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(RemoveStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
```

```
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new RemoveStudent().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTextField sid;
    private javax.swing.JTable table;
    // End of variables declaration//GEN-END:variables
}
```

5.5 Search Student

```
import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JDialog;
import javax.swing.JOptionPane;
import net.proteanit.sql.DbUtils;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Ashu
 */
public class SearchStudent extends javax.swing.JFrame {

    private PreparedStatement pst;
    private ResultSet rs;

    /**
     * Creates new form SearchStudent
     */
    public SearchStudent() {
        initComponents();
        setLocationRelativeTo(null);
```

```
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
    private void initComponents() {

        jLabel10 = new javax.swing.JLabel();
        jPanel2 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        sid = new javax.swing.JTextField();
        jButton2 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();

        jLabel10.setIcon(new javax.swing.ImageIcon(getClass().getResource("/darkblurbg.jpg"))); // NOI18N
        jLabel10.setText("jLabel1");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
```

```
        jPanel2.setLayout(null);

        jLabel2.setFont(new java.awt.Font("Times New Roman", 1, 48)); // NOI18N
        jLabel2.setText("Search Student");
        jPanel2.add(jLabel2);
        jLabel2.setBounds(120, 20, 320, 50);

        jButton1.setBackground(new java.awt.Color(0, 153, 204));
        jButton1.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton1.setForeground(new java.awt.Color(51, 51, 51));
        jButton1.setText("Exit");
        jButton1.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        jPanel2.add(jButton1);
        jButton1.setBounds(290, 250, 110, 31);

        jLabel3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel3.setText("Student ID");
        jPanel2.add(jLabel3);
        jLabel3.setBounds(120, 140, 111, 40);
```

```
        sid.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        sid.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                sidActionPerformed(evt);
            }
        });
        jPanel2.add(sid);
        sid.setBounds(290, 140, 140, 40);


        jButton2.setBackground(new java.awt.Color(0, 153, 204));
        jButton2.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton2.setForeground(new java.awt.Color(51, 51, 51));
        jButton2.setText("View");
        jButton2.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });
        jPanel2.add(jButton2);
        jButton2.setBounds(130, 250, 100, 30);


        jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/istock_000027612852_large-e1416412301908.jpg"))); // NOI18N
        jLabel1.setText("jLabel1");
        jPanel2.add(jLabel1);
```

```
        jLabel1.setBounds(0, 0, 600, 400);

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, 599, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, 399, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );

        pack();
    }// </editor-fold>//GEN-END:initComponents
```

```
  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed

        JDialog.setDefaultLookAndFeelDecorated(true);

    int response = JOptionPane.showConfirmDialog(null,"Do you want to EXIT?",  "Confirm" ,

           JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE);

     if(response == JOptionPane.YES_NO_OPTION){

      setVisible(false);

      Admin a = new Admin();

      a.setVisible(true);

     }

  }//GEN-LAST:event_jButton1ActionPerformed


  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton2ActionPerformed

      // TODO add your handling code here:

        try{

Class.forName("com.mysql.jdbc.Driver");

Connection con =DriverManager.getConnection("jdbc:mysql://localhost:3306/Student","root","");

String sql = "SELECT * FROM  studentinfo WHERE ID=?";

PreparedStatement pst = con.prepareStatement(sql);

pst.setString(1, sid.getText());

ResultSet rs = pst.executeQuery();

while(rs.next()){

      int id = rs.getInt("ID");
```

```
        String Name = rs.getString("Name");
        int Cname = rs.getInt("MobileNo");
        String branch = rs.getString("Gender");
         String roll = rs.getString("FatherName");
        String mob = rs.getString("Occupation");
        int add = rs.getInt("DOB");
        int gm = rs.getInt("Age");
        String gen = rs.getString("Caste");
        // print the results
        String msg = "Name is : "+Name+" \nMobile No. is : "+Cname+" \nGender is : "+branch+" \nFather Name is : "+roll+" \nOccupation is :"+mob+" \nDOB is :"+add+" \nAge is :"+gm+" \nCaste is :"+gen;
        JOptionPane.showMessageDialog(null, msg);
}
}
catch(HeadlessException | ClassNotFoundException | SQLException e){
JOptionPane.showMessageDialog(null, e);
}
    }//GEN-LAST:event_jButton2ActionPerformed


    private void sidActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_sidActionPerformed


    }//GEN-LAST:event_sidActionPerformed


    /**
     * @param args the command line arguments
     */
```

```
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(SearchStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(SearchStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(SearchStudent.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(SearchStudent.class.getName()).log(java.uti
l.logging.Level.SEVERE, null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new SearchStudent().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JTextField sid;
    // End of variables declaration//GEN-END:variables
}
```

5.6 Student Marksheet

```
import java.awt.event.KeyEvent;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Ashu
 */
public class StudentMarkSheet extends javax.swing.JFrame {

    /**
     * Creates new form StudentMarkSheet
     */
    public StudentMarkSheet() {
        initComponents();
                setLocationRelativeTo(null);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
```

```
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jPanel2 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        txtstud = new javax.swing.JTextField();
        txtfather = new javax.swing.JTextField();
        txtmother = new javax.swing.JTextField();
        txtroll = new javax.swing.JTextField();
        txtdob = new javax.swing.JTextField();
        txtaddress = new javax.swing.JTextField();
        txtmobile = new javax.swing.JTextField();
        jPanel3 = new javax.swing.JPanel();
        jLabel9 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
```

```
        jLabel13 = new javax.swing.JLabel();
        jLabel14 = new javax.swing.JLabel();
        jLabel15 = new javax.swing.JLabel();
        jLabel16 = new javax.swing.JLabel();
        jLabel17 = new javax.swing.JLabel();
        txtpands = new javax.swing.JTextField();
        txtdaa = new javax.swing.JTextField();
        txtjava = new javax.swing.JTextField();
        txtos = new javax.swing.JTextField();
        txtssandpd = new javax.swing.JTextField();
        txttotal = new javax.swing.JTextField();
        txtper = new javax.swing.JTextField();
        jLabel18 = new javax.swing.JLabel();
        txtresult = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setBackground(new java.awt.Color(0, 0, 0));


        jPanel1.setBackground(new java.awt.Color(255, 255, 255));


        jLabel1.setFont(new java.awt.Font("Times New Roman", 1, 56)); // NOI18N
        jLabel1.setText("Student Marksheet");
```

```
jPanel2.setBackground(new java.awt.Color(255, 255, 255));

jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(new
javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 2, true), "Student
Profile", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new
java.awt.Font("Times New Roman", 1, 24))); // NOI18N


jLabel2.setFont(new java.awt.Font("Times New Roman", 0, 24)); //
NOI18N

jLabel2.setText("Student Name");


jLabel3.setFont(new java.awt.Font("Times New Roman", 0, 24)); //
NOI18N

jLabel3.setText("Father' Name");


jLabel4.setFont(new java.awt.Font("Times New Roman", 0, 24)); //
NOI18N

jLabel4.setText("Mother's Name");


jLabel5.setFont(new java.awt.Font("Times New Roman", 0, 24)); //
NOI18N

jLabel5.setText("Date Of Birth");


jLabel6.setFont(new java.awt.Font("Times New Roman", 0, 24)); //
NOI18N

jLabel6.setText("Roll No.");


jLabel7.setFont(new java.awt.Font("Times New Roman", 0, 24)); //
NOI18N

jLabel7.setText("Address");
```

```
        jLabel8.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        jLabel8.setText("Mobile No.");

        txtstud.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtstud.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        txtfather.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtfather.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        txtmother.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtmother.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        txtroll.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtroll.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
        txtroll.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                txtrollActionPerformed(evt);
            }
        });

        txtdob.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtdob.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
```

```
        txtaddress.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtaddress.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        txtmobile.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtmobile.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
        jPanel2.setLayout(jPanel2Layout);
        jPanel2Layout.setHorizontalGroup(
            jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(27, 27, 27)
                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel2)
                    .addComponent(jLabel8)
                    .addComponent(jLabel7)
                    .addComponent(jLabel5)
                    .addComponent(jLabel6)
                    .addComponent(jLabel4)
                    .addComponent(jLabel3))
```

```
            .addGap(70, 70, 70)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(txtfather, javax.swing.GroupLayout.DEFAULT_SIZE, 261, Short.MAX_VALUE)
                .addComponent(txtstud)
                .addComponent(txtmother)
                .addComponent(txtroll)
                .addComponent(txtdob)
                .addComponent(txtaddress)
                .addComponent(txtmobile))
            .addContainerGap(69, Short.MAX_VALUE))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(31, 31, 31)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel2)
                .addComponent(txtstud, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel3)
                .addComponent(txtfather, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel4)
                .addComponent(txtmother, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel6)
                .addComponent(txtroll, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel5)
                .addComponent(txtdob, javax.swing.GroupLayout.PREFERRED_SIZE,
```

```
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

                .addComponent(jLabel7)

                .addComponent(txtaddress,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(18, 18, 18)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)

                .addComponent(jLabel8)

                .addComponent(txtmobile,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

        );


        jPanel3.setBackground(new java.awt.Color(255, 255, 255));

        jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(new
javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 2, true), "Student
Marks",          javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION,          new
java.awt.Font("Times New Roman", 1, 24))); // NOI18N


        jLabel9.setFont(new java.awt.Font("Times New Roman", 1, 24)); //
NOI18N
```

```
        jLabel9.setText("Subject");

        jLabel10.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel10.setText("Marks");

        jLabel11.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        jLabel11.setText("P and S");

        jLabel12.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        jLabel12.setText("Java");

        jLabel13.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        jLabel13.setText("DAA");

        jLabel14.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        jLabel14.setText("OS");

        jLabel15.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        jLabel15.setText("SS and PD");

        jLabel16.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel16.setText("Total");
```

```
        jLabel17.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel17.setText("Percentage");

        txtpands.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtpands.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
        txtpands.addKeyListener(new java.awt.event.KeyAdapter() {
            public void keyTyped(java.awt.event.KeyEvent evt) {
                txtpandsKeyTyped(evt);
            }
        });

        txtdaa.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtdaa.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        txtjava.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtjava.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        txtos.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtos.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        txtssandpd.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtssandpd.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));
```

```
        txttotal.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txttotal.setBorder(new javax.swing.border.LineBorder(new
java.awt.Color(0, 0, 0), 1, true));

        txtper.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtper.setBorder(new javax.swing.border.LineBorder(new
java.awt.Color(0, 0, 0), 1, true));

        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(48, 48, 48)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
                    .addComponent(jLabel9)
                    .addComponent(jLabel11)
                    .addComponent(jLabel13)
                    .addComponent(jLabel12)
                    .addComponent(jLabel14)
                    .addComponent(jLabel15)
                    .addComponent(jLabel16)
                    .addComponent(jLabel17))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
173, Short.MAX_VALUE)


.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING)
                .addComponent(jLabel10)
                .addComponent(txtpands,
javax.swing.GroupLayout.PREFERRED_SIZE,                    83,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtper,
javax.swing.GroupLayout.PREFERRED_SIZE,                    83,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txttotal,
javax.swing.GroupLayout.PREFERRED_SIZE,                    83,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtssandpd,
javax.swing.GroupLayout.PREFERRED_SIZE,                    83,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtos,
javax.swing.GroupLayout.PREFERRED_SIZE,                    83,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtjava,
javax.swing.GroupLayout.PREFERRED_SIZE,                    83,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(txtdaa,
javax.swing.GroupLayout.PREFERRED_SIZE,                    83,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(198, 198, 198))
        );
        jPanel3Layout.setVerticalGroup(


jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
```

```
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addGap(29, 29, 29)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel9)
                .addComponent(jLabel10))
            .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel11)
                .addComponent(txtpands,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel13)
                .addComponent(txtdaa,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(jLabel12)
                .addComponent(txtjava,
javax.swing.GroupLayout.PREFERRED_SIZE,
```

```
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)
                .addComponent(jLabel14)
                .addComponent(txtos,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)
                .addComponent(jLabel15)
                .addComponent(txtssandpd,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)
                .addComponent(jLabel16)
                .addComponent(txttotal,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)
```

```
                .addComponent(jLabel17)
                .addComponent(txtper,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addContainerGap(31, Short.MAX_VALUE))
        );

        jLabel18.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jLabel18.setText("Result");

        txtresult.setFont(new java.awt.Font("Times New Roman", 0, 24)); // NOI18N
        txtresult.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(0, 0, 0), 1, true));

        jButton1.setBackground(new java.awt.Color(255, 255, 255));
        jButton1.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton1.setText("Save");
        jButton1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton2.setBackground(new java.awt.Color(255, 255, 255));
```

```
        jButton2.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton2.setText("Clear");
        jButton2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton2ActionPerformed(evt);
            }
        });

        jButton3.setBackground(new java.awt.Color(255, 255, 255));
        jButton3.setFont(new java.awt.Font("Times New Roman", 1, 24)); // NOI18N
        jButton3.setText("Exit");
        jButton3.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
        jButton3.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton3ActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
        jPanel1.setLayout(jPanel1Layout);
        jPanel1Layout.setHorizontalGroup(
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(27, 27, 27)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1)
                .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addComponent(jLabel18)
                            .addGap(63, 63, 63)
                            .addComponent(txtresult, javax.swing.GroupLayout.PREFERRED_SIZE, 386, javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(37, 37, 37)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()
                            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 110, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                    .addGap(98, 98, 98)
                    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE,                    115,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(84, 84, 84)
                    .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE,                    113,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(42, 42, 42)))))
            .addContainerGap(26, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1)
            .addGap(56, 56, 56)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.LEADING, false)
                .addComponent(jPanel3,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jPanel2,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGap(45, 45, 45)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Align
ment.BASELINE)
```

```
                .addComponent(jLabel18)
                .addComponent(txtresult,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(jButton1)
                .addComponent(jButton2)
                .addComponent(jButton3))
            .addContainerGap(43, Short.MAX_VALUE))
        );

        javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1,  javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1,  javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );

        pack();
    }// </editor-fold>//GEN-END:initComponents
```

```
    private void txtrollActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_txtrollActionPerformed
        // TODO add your handling code here:
    }//GEN-LAST:event_txtrollActionPerformed


    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton2ActionPerformed
        // TODO add your handling code here:
        txtstud.setText("");
        txtfather.setText("");
         txtmother.setText("");
          txtroll.setText("");
           txtdob.setText("");
          txtaddress.setText("");
         txtmobile.setText("");
          txtpands.setText("");
           txtdaa.setText("");
            txtos.setText("");
             txtjava.setText("");
              txtssandpd.setText("");
               txttotal.setText("");
                txtper.setText("");
                 txtresult.setText("");
    }//GEN-LAST:event_jButton2ActionPerformed


    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton3ActionPerformed
        // TODO add your handling code here:
```

```
        setVisible(false);
        Admin ad = new Admin();
        ad.setVisible(true);
    }//GEN-LAST:event_jButton3ActionPerformed


    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed
        // TODO add your handling code here:
        int a = Integer.parseInt(  txtpands.getText());
        int b = Integer.parseInt(txtdaa.getText());
        int c = Integer.parseInt(txtjava.getText());
        int d = Integer.parseInt(txtos.getText());
        int e = Integer.parseInt(txtssandpd.getText());
        int t = a+b+c+d+e;
        txttotal.setText(""+t);
        int p = (t*100)/500;
        txtper.setText(""+p+"%");
        if(p>=60 && p<=100)
        {
           txtresult.setText("PASS IN FIRST CLASS");
        }
        else if(p>=50 && p<=59)
        {
            txtresult.setText("PASS IN SECOND CLASS");
        }
         else if(p>=40 && p<=49)
        {
            txtresult.setText("PASS IN SECOND CLASS");
```

```
        }
        else
        {
            txtresult.setText("FAIL");
        }


    }//GEN-LAST:event_jButton1ActionPerformed


    private void txtpandsKeyTyped(java.awt.event.KeyEvent evt) {//GEN-FIRST:event_txtpandsKeyTyped
        // TODO add your handling code here:


    }//GEN-LAST:event_txtpandsKeyTyped


    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
```

```
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(StudentMarkSheet.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(StudentMarkSheet.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(StudentMarkSheet.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(StudentMarkSheet.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
    }
    //</editor-fold>


    /* Create and display the form */
    java.awt.EventQueue.invokeLater(() -> {
        new StudentMarkSheet().setVisible(true);
    });
```

```
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel14;
private javax.swing.JLabel jLabel15;
private javax.swing.JLabel jLabel16;
private javax.swing.JLabel jLabel17;
private javax.swing.JLabel jLabel18;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
```

```
    private javax.swing.JTextField txtaddress;
    private javax.swing.JTextField txtdaa;
    private javax.swing.JTextField txtdob;
    private javax.swing.JTextField txtfather;
    private javax.swing.JTextField txtjava;
    private javax.swing.JTextField txtmobile;
    private javax.swing.JTextField txtmother;
    private javax.swing.JTextField txtos;
    private javax.swing.JTextField txtpands;
    private javax.swing.JTextField txtper;
    private javax.swing.JTextField txtresult;
    private javax.swing.JTextField txtroll;
    private javax.swing.JTextField txtssandpd;
    private javax.swing.JTextField txtstud;
    private javax.swing.JTextField txttotal;
    // End of variables declaration//GEN-END:variables
}
```

6. Testing

Software Testing is evaluation of the software against requirements gathered from users and system specifications. Testing is conducted at the phase level in software development life cycle or at module level in program code. Software testing comprises of Validation and Verification.

- Unit Testing

While coding, the programmer performs some tests on that unit of program to know if it is error free. Testing is performed under white-box testing approach. Unit testing helps developers decide that individual units of the program are working as per requirement and are error free.

- Integration Testing

Even if the units of software are working fine individually, there is a need to find out if the units if integrated together would also work without errors. For example, argument passes and data updating etc.

- System Testing

The software is compiled as product and then it is tested. This can be accomplished using one or more of the following tests:

- Functionality testing

Tests all functionalities of the software against the requirement.

- Performance testing

This test proves how efficient the software is. It tests the effectiveness and average time taken by the software to do desired task. Performance testing is done

by means of load testing and stress testing where the software is put under high user and data load under various environment conditions.

- Acceptance Testing

When the software is ready to hand over to the customer it must go through last phase of testing where it is tested for user-interaction and response. This is important because even if the software matches all user requirements and if user does not like the way it appears or works, it may be rejected.

- Alpha testing

The team of developer themselves perform alpha testing by using the system as if it is being used in work environment. They try to find out how user would react to some action in software and how the system should respond to inputs.

- Beta testing

After the software is tested internally, it is handed over to the users to use it under their production environment only for testing purpose. This is not yet the delivered product. Developers expect that users at this stage will bring minute problems, which were skipped to attend.

7. Bibliography

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