STUDENT MANAGEMENT SYSTEM

A PROJECT REPORT

Submitted by

JHA SHUBHAMKUMAR (ET23MTCA020)
SHAH RUCHITKUMAR (ET23MTCA060)
SOLANKI KHUSHALKUMAR (ET23MTCA062)

Under the Guidance Of
Prof. Preksha Parmar

In fulfillment for the subject Software Project-1 (MTCA16106)

Master of Computer Application

At

Sarvajanik College Of Engineering & Technology, Surat

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CERTIFICATE

This is to certify that the project entitled "STUDENT MANAGEMENT SYSTEM" has been submitted by JHA SHUBHAMKUMAR (ET23MTCA020), SHAH RUCHITKUMAR (ET23MTCA060), SOLANKI KHUSHALKUMAR (ET23MTCA062) towards fulfillment for the subject Software Project – I (MTCA16106) in 1st Semester of MCA of Sarvajanik University, Surat during the academic year 2023-24.

Guide Name: Prof. Preksha Parmar

Prof. Gayatri Kapadia
Head, M.C.A. Department

(Guides' Signature)

Examiners' Signature:

1._____

2._____

Acknowledgement

We take this opportunity to express our sincere gratitude to all those who helped us in various capacities in undertaking this project and devising the report.

We are honored to express our sense of gratitude to our project guide prof. Preksha Parmar. Her unparalleled knowledge, unwavering moral fiber with her invaluable expertise, provided an extraordinary level of support, guiding us seamlessly through the complexities of this project.

Our sincere thanks are extended to Prof. Gayatri Kapadia, the Head of Department, Master of Computer Application, for providing us all the necessary facilities for the successful completion of our project. Her encouragement and support were crucial in navigating the challenges inherent in our project, and we are truly grateful for her commitment to our academic endeavors.

In addition, we would like to convey our heartfelt appreciation to our friends and contemporaries for their invaluable co-operation and compliance throughout the project.

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JHA SHUBHAMKUMAR
SHAH RUCHITKUMAR
SOLANKI KHUSHALKUMAR

</div>

1. Abstract

The Student Management System is a software project designed to streamline and enhance the efficiency of managing student information within an educational institution. This project aims to provide a robust solution for administrators and teachers to seamlessly handle various aspects of student data, including enrollment, academic records and personal details.

The system is designed with a modular approach, consisting of distinct modules to manage specific functionalities. The Student Data Module handles the creation and maintenance of student and teachers profiles, encompassing personal information and enrollment details. The Academic Records Module manages course details, students, teachers and fee payment records. The User Interface Module ensures a user-friendly experience for all students offering intuitive navigation and functionality. The system incorporates input validation mechanisms to ensure data integrity and system reliability.

This System involves the use of C programming language, with a focus on file handling for database management. This project seeks to provide a scalable and maintainable solution, allowing for future updates and enhancements. The Student Management System aims to optimize the process of managing student information, facilitating efficiency, accuracy, and ease of use within educational institutions.

Moreover, the Student Management System emphasizes adaptability by incorporating a responsive design, making it accessible across various devices to ensures a consistent and user-friendly experience.

The System incorporates advanced security measures to safeguard sensitive student information. User authentication and access control mechanisms are implemented to ensure that only authorized personnel can access specific modules and perform designated actions. This robust security layer helps maintain confidentiality and data privacy, aligning with the highest standards of information security within educational environments.

In conclusion, the Student Management System is not only addresses fundamental data management needs but also enhances the overall educational ecosystem by incorporating advanced security and adaptability features. This holistic approach aims to optimize the efficiency, accuracy, and user experience within educational institutions, contributing to the continual improvement of academic processes and outcomes.

2. Software Specification

Operating System:

➤ The Student Management System is designed to operate smoothly across all major platforms like Windows, macOS and Linux.

➤ Compatibility with diverse operating systems ensures accessibility for a broad user base.

➤ Whether users are on Windows, macOS or Linux the system guarantees a consistent and reliable performance.

Operating system	➤ Microsoft windows 7 or above ➤ Ubuntu 16.04 LTS or above ➤ MacOS 12 or above

Hardware Configuration:

Processor:

➤ The Student Management System is optimized for a minimum Intel Core i3 processor, ensuring responsive performance during runtime.

Processor	Intel i3 or higher

RAM:

➤ A minimum of 4 GB RAM is recommended to provide a smooth and efficient user experience while handling files and processing data.

RAM	4GB or higher

Storage:

➢ The system requires approximately 128 GB of storage space, accommodating the application's executable files and data storage for student and teacher's records.

Storage	128 GB or higher

Development Environment:

➢ The Student Management System is designed to be developed and compiled using the Dev C++, Turbo C or Visual Studio integrated development environments (IDEs).

Development Environment	Dev C++, Turbo C or Visual Studio

Programming Language:

➢ This system is implemented in the C programming language, ensuring compatibility with the compilers provided by Dev C++ or Turbo C.

Programming Language	C OR C++

3. Scope & Objectives

The primary objective of the Student Management System is to store and maintain student and teacher's data efficiently through console-based application. This system aims to achieve operational excellence by providing a centralized platform for managing various activity of school or colleges through this application.

In this system real-time data updation is done into the files. The main goal of the Student Management System is to improve the accuracy and efficiency in the student records management.

The system is developed for Administration Staff, Teacher and Student to maintain records. The Administration Staff is the main user of this system. They can access all the data related to student and teachers and they can manipulate it according to their needs. They can manage course details, teacher's details, student details along with this an additional fee payment facility is also given in this application. In this System Teacher can add or update student marks which will be directly updated and can be viewed in student result section. The role authentication functionality is given in this system in which the teacher can add marks of students of their own department only. Teacher can't access the data of student who belongs to another department.

In the context of the Student Management System, the aim is to provide administration staff with a convenient and straightforward method for maintaining records through the command-line interface. This eliminates the need for maintaining physical files or books with the goal of enhancing accessibility.

The goal of this system is to increase administrative efficiency by simplifying the data maintaining process.

4. Database Design

File System for Data Storage

➢ The Student Management System uses file system for storing and managing student and teacher's data.

File Structure:

Course
Course ID
Course Name
Fees
Subjects [6]

Teacher
Teacher ID
Name
Department
Date of Joining
Salary
Mobile No
Email
Password

Student
Enrollment No
Name
Date of Birth
Department
Mobile No
Address
Email
Password
Fee
Marks [Subjects] [6]

4.1 Use Case Diagram
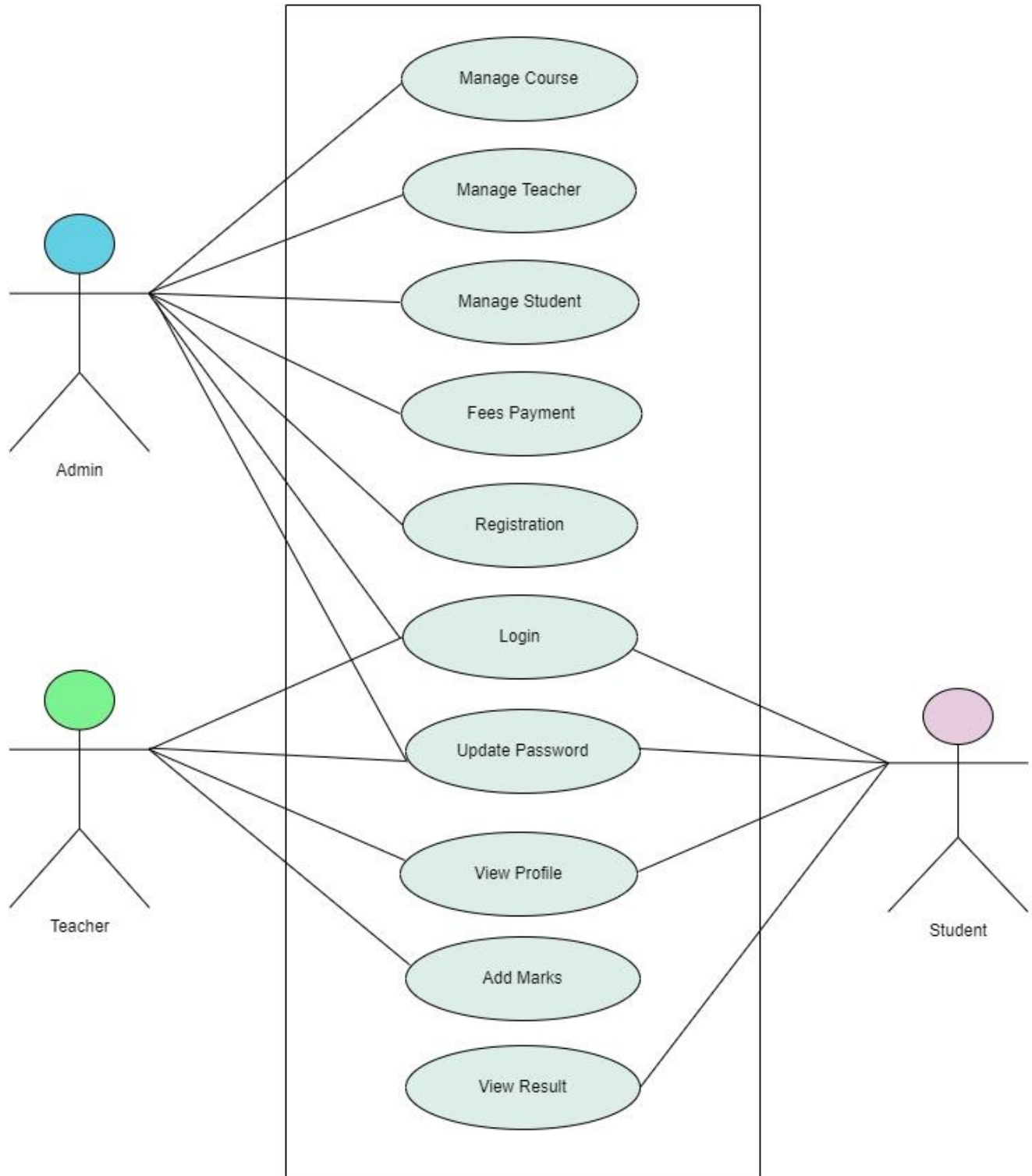
4.2 Activity Diagram

➢ **ADMIN**

➢ TEACHER

```
                    ●
                    │
                    ▼
              ┌──────────┐
              │  LOGIN   │◄──────────┐
              └──────────┘           │
                    │            INVALID
                    ▼                │
                   ╱ ╲               │
                  ╱   ╲              │
             AUTHENTICATION ─────────┘
                  ╲   ╱
                   ╲ ╱
                    │
                  VALID
                    │
                    ▼
          ┌──────────────────┐
          │ TEACHER DASHBOARD│
          └──────────────────┘
                    │
    ┌───────────┬───┴────────┬──────────────┐
    ▼           ▼            ▼              ▼
┌────────┐ ┌──────────┐ ┌──────────┐ ┌──────────────┐
│  VIEW  │ │   ADD    │ │  UPDATE  │ │    UPDATE    │
│PROFILE │ │ STUDENT  │ │ STUDENT  │ │LOGIN PASSWORD│
│        │ │  MARKS   │ │  MARKS   │ │              │
└────────┘ └──────────┘ └──────────┘ └──────────────┘
    │           │            │              │
    └───────────┴────┬───────┴──────────────┘
                     ▼
               ┌──────────┐
               │  LOGOUT  │
               └──────────┘
                     │
                     ▼
                    ◉
```
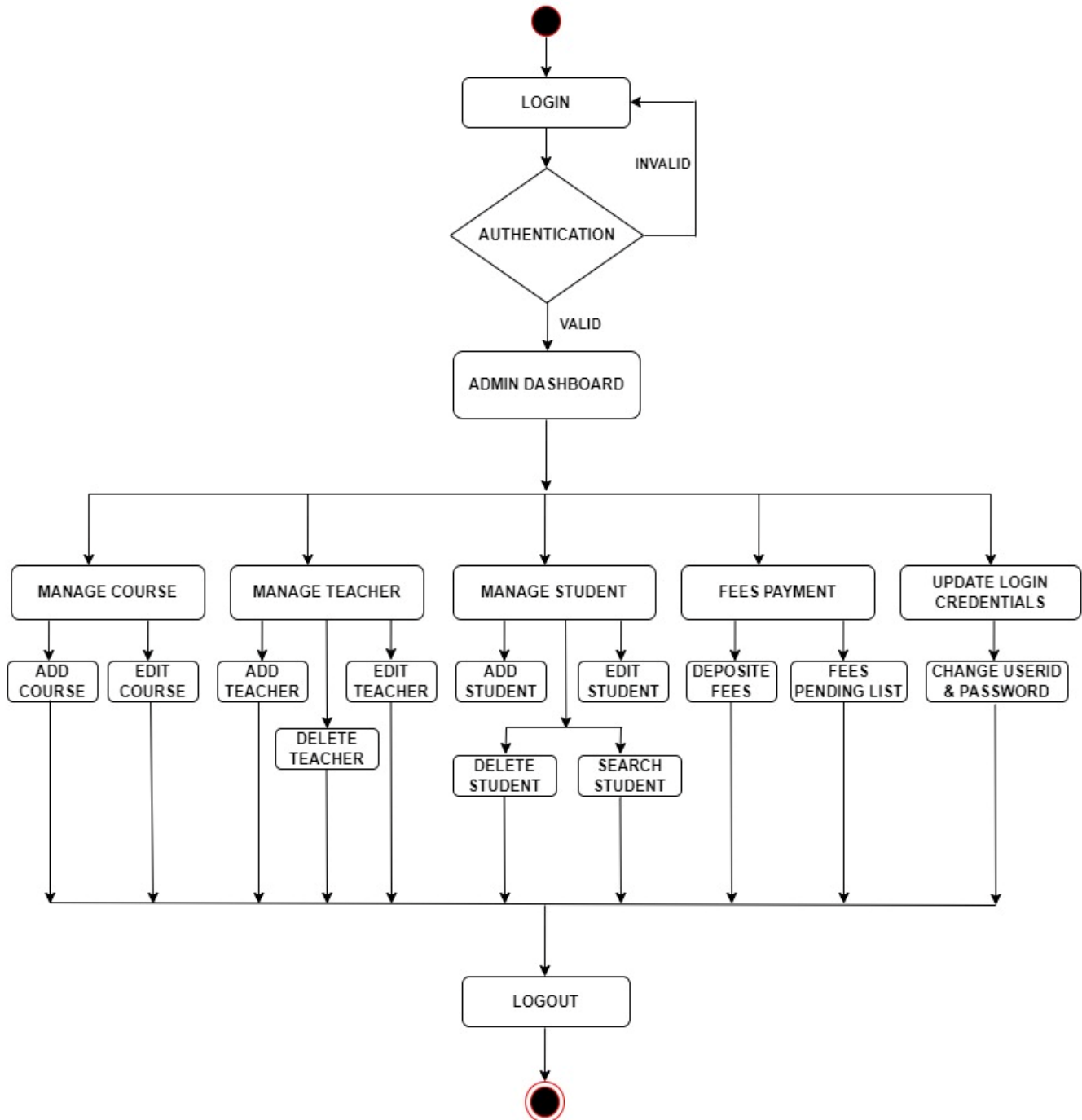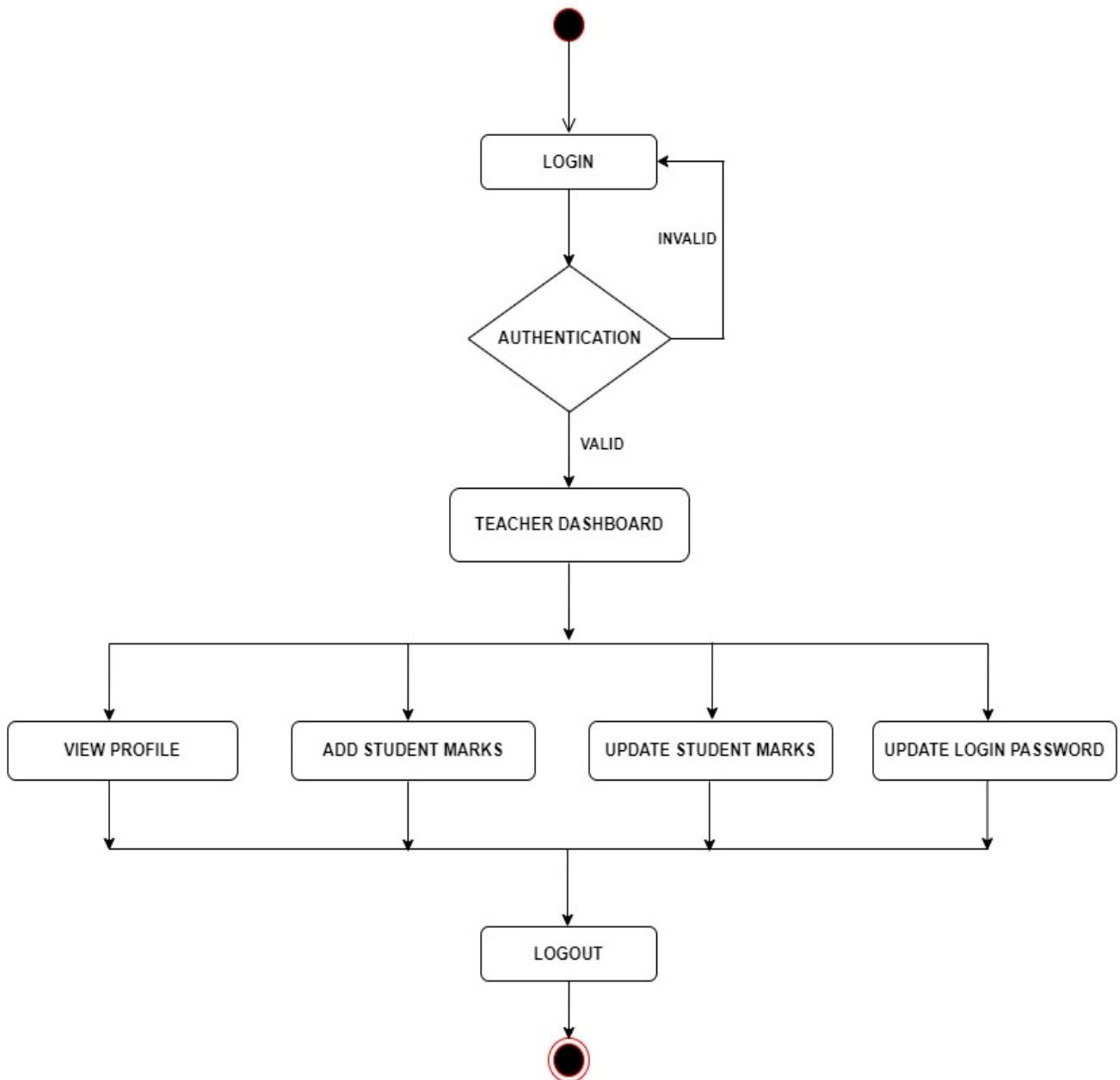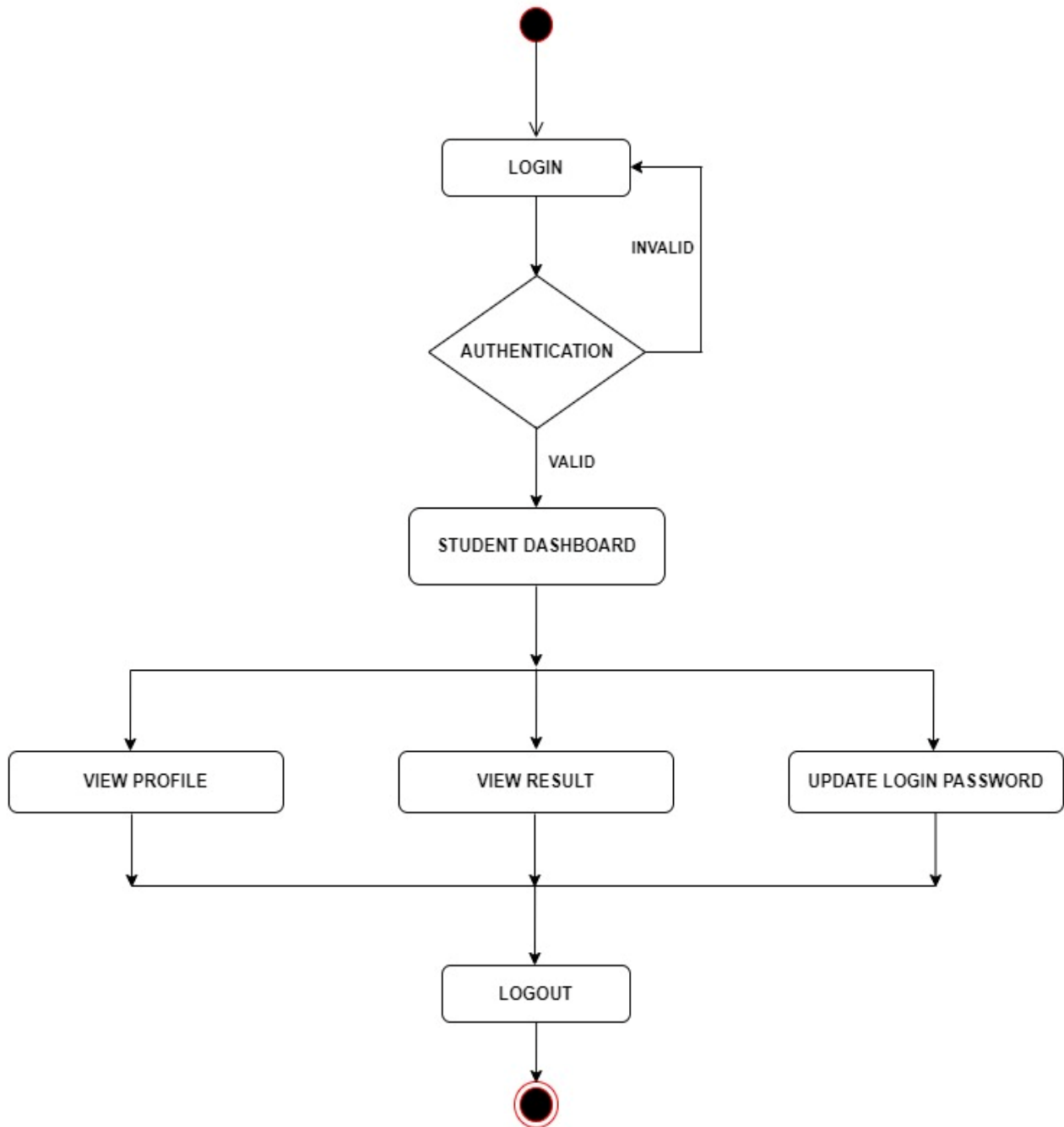
➢ **STUDENT**

4.3 ER Diagram
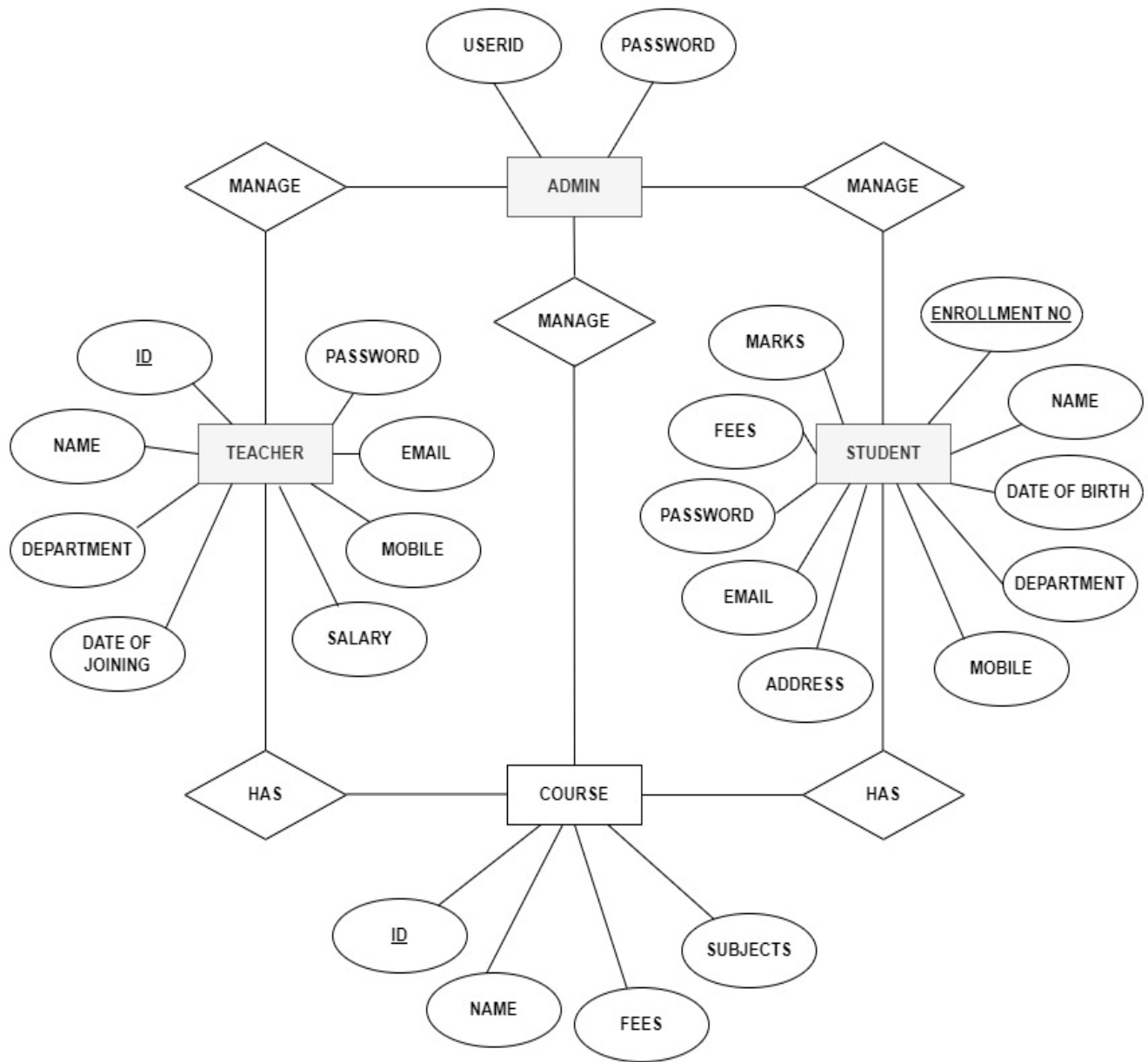
5. System Design

In the system design phase of the Student Management System (SMS), our focus is on crafting a robust architecture that seamlessly integrates various modules to fulfill the diverse requirements of educational institutions. The design is structured to optimize efficiency, ensure data integrity, provide a user-friendly experience, and allow for scalability.

The Student Module forms the foundational element for managing student information, encompassing vital personal details, enrollment information, and contact details. In lieu of a relational database model, the system adopts a file-based approach in C programming. The file handling mechanism is thorough implemented to efficiently organize and manage student data, allowing for quick retrieval and modification as needed. This design choice aligns with the project's goals of simplicity and resource efficiency, providing an effective means of storing and accessing student information within the system.

The Admin Module is designed to handle course-related information, student enrollments, marksheet, and fee payments. The system facilitates the dynamic recording of academic data while ensuring accuracy and consistency. This module contributes to a comprehensive academic profile for each student.

The User Interface Module is engineered to provide a user-friendly experience for administrators, teachers, and students. By incorporating responsive design principles, the system ensures accessibility across various devices. Robust user authentication and access control mechanisms are integrated to safeguard sensitive information, allowing authorized personnel to perform specific actions.

Ensuring data integrity and system reliability is paramount. Input validation mechanisms are implemented to validate user inputs and prevent data inconsistencies. Error handling strategies are also embedded to address unforeseen issues promptly, maintaining a stable and dependable system.

The choice of the C programming language aligns with our goal of efficiency and versatility. Leveraging file handling for database management ensures an effective implementation that balances performance with simplicity. The system design emphasizes scalability, allowing for seamless expansion to accommodate future data growth and evolving educational needs. This modular and scalable design sets the foundation for a maintainable system that can be easily updated and enhanced in response to changing requirements.

In summary, the system design for the Student Management System integrates key modules aiming to optimize functionality, user experience, and reliability.

5.1 Screenshot

Welcome Page

```
================================================================
=============== STUDENT MANAGEMENT SYSTEM    ================
================================================================



        +--------------------------------------+
        |                 MENU                 |
        +--------------------------------------+
        |    Option         |    Login As      |
        +--------------------------------------+
        |      1            |    Admin         |
        |      2            |    Teacher       |
        |      3            |    Student       |
        |      4            |    Exit          |
        +--------------------------------------+


    Please select your role from above : 1
```

Admin Login

```
================================================================
=============== STUDENT MANAGEMENT SYSTEM    ================
================================================================



        +----------------------------+
        |        ADMIN LOGIN         |
        +----------------------------+



    Enter Username : admin

    Enter Password : ***
```
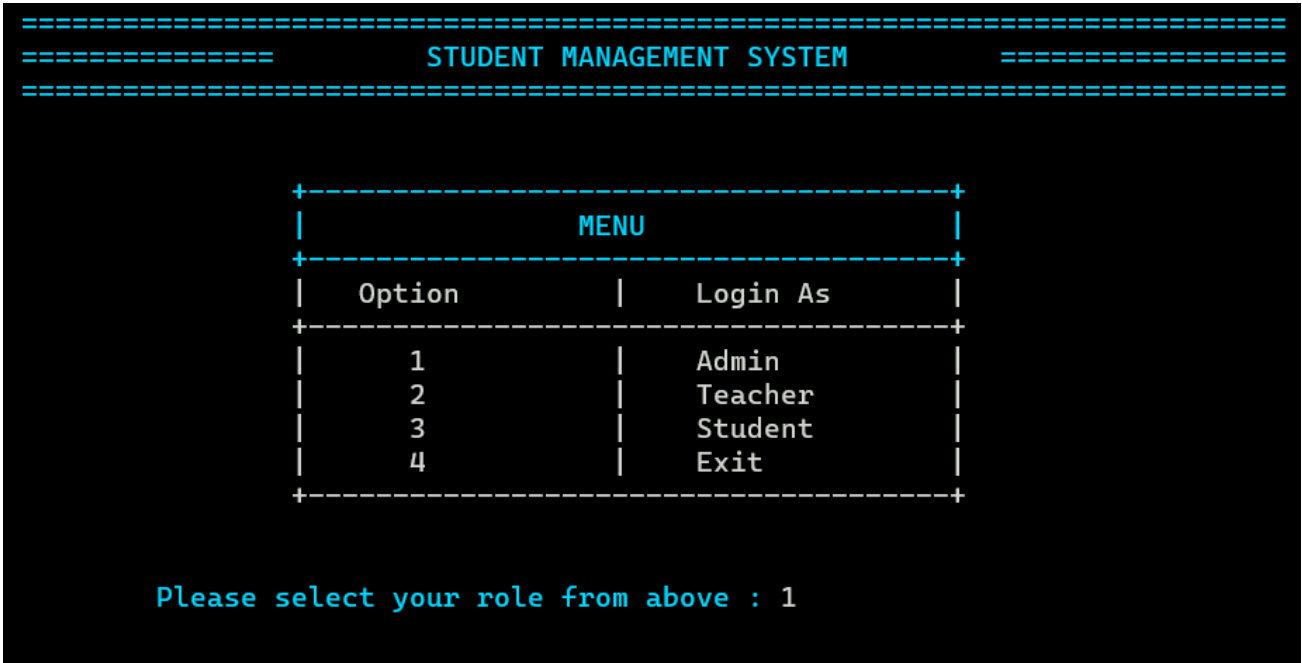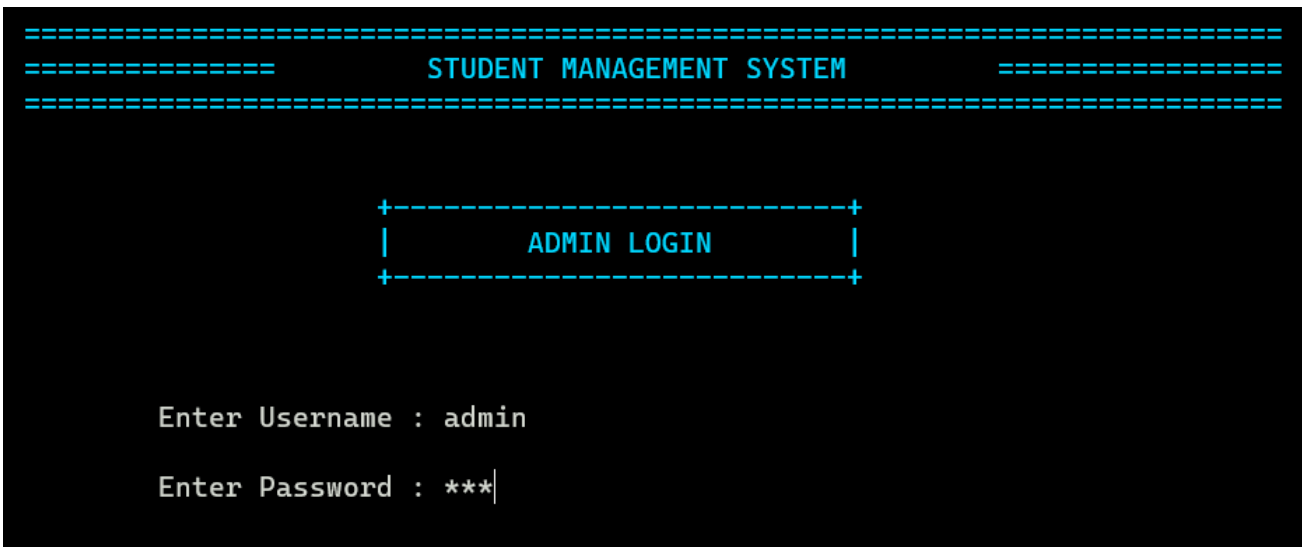
Admin Dashboard

```
=========================================================================
===============        STUDENT MANAGEMENT SYSTEM       ================
=========================================================================


            +------------------------------------+
            |           ADMIN DASHBOARD          |
            +------------------------------------+
            |  No. |        Options              |
            +------------------------------------+
            |   1  | Add New Course             |
            |   2  | Edit Course Details        |
            |   3  | List of Courses            |
            |   4  | Add New Teacher            |
            |   5  | Edit Teacher Details       |
            |   6  | List of Teachers           |
            |   7  | Delete Teacher Details     |
            |   8  | Add New Student            |
            |   9  | Edit Student Details       |
            |  10  | Search Student Details     |
            |  11  | List of Students           |
            |  12  | Delete Student Details     |
            |  13  | Fees Payment               |
            |  14  | Fees Pending List          |
            |  15  | Update Userid & Password   |
            |  16  | Exit                       |
            +------------------------------------+

        Enter your choice : 1
```

Add New Course

```
=========================================================================
===============        STUDENT MANAGEMENT SYSTEM       ================
=========================================================================


              +--------------------------+
              |      Add New Course      |
              +--------------------------+


 Enter Course Name  : MCA

 Enter Fees(in Rs.) : 96000

 Enter Name of 6 Subjects

 Subject 1 : DATA STRUCTURE

 Subject 2 : JAVA TECHNOLOGY

 Subject 3 : PYTHON

 Subject 4 : MATHEMATICS

 Subject 5 : AGILE METHOLOGY

 Subject 6 : PROJECT
```

Course Added

```
------------------------------------------------------------

        Course ID          :        1

        Course Name        :        MCA


        Course Fees        :        96000

        Subjects
        -------------

        Subject 1          :        DATA STRUCTURE
        Subject 2          :        JAVA TECHNOLOGY
        Subject 3          :        PYTHON
        Subject 4          :        MATHEMATICS
        Subject 5          :        AGILE METHOLOGY
        Subject 6          :        PROJECT


------------------------------------------------------------

 Course added successfully !!
```

Course List

```
              +------------------------+
              |       Course List      |
              +------------------------+

        Course ID          :     1
        Course Name        :     MCA
        Course Fees        :     96000

        Subject 1          :     DATA STRUCTURE
        Subject 2          :     JAVA TECHNOLOGY
        Subject 3          :     PYTHON
        Subject 4          :     MATHEMATICS
        Subject 5          :     AGILE METHOLOGY
        Subject 6          :     PROJECT
------------------------------------------------------------

        Course ID          :     2
        Course Name        :     BCA

        Course Fees        :     35000

        Subject 1          :     WEB DEVELOPMENT
        Subject 2          :     C LANGUAGE
        Subject 3          :     VB .NET
        Subject 4          :     STATISTICS
        Subject 5          :     DATA STRUCTURE
        Subject 6          :     PROJECT
------------------------------------------------------------

 List of Courses As on : 22-12-2023 17:10
```

Add New Teacher

```
                    +---------------------------+
                    |      Add New Teacher      |
                    +---------------------------+
        (1) MCA
        (2) BCA

 Select Course From Above List : 1

 Selected Course   :   MCA

 Teacher's Name    :   MAYANK JAIN

 Email             :   mayank@gmail.com

 Mobile            :   9487545454

 Salary            :   55000


 -----------------------------------------------------------

 Teacher added successfully !!

 Teacher Login ID  :  mayank@gmail.com
 Default Password  :  teacher

 -----------------------------------------------------------
```

Teacher's List

```
                   +---------------------------+
                   |      Teacher's List       |
                   +---------------------------+

    Teacher ID          :     101
    Name                :     MAYANK JAIN

    Department          :     MCA
    Date of Joining     :     22-12-2023
    Mobile No.          :     9487545454
    Email-id            :     mayank@gmail.com
    Password            :     teacher
    Salary              :     55000

  ------------------------------------------------------------

    Teacher ID          :     102
    Name                :     PREKSHA PARMAR

    Department          :     MCA
    Date of Joining     :     22-12-2023
    Mobile No.          :     7845451200
    Email-id            :     preksha@gmail.com
    Password            :     teacher
    Salary              :     50000

  ------------------------------------------------------------

    Teacher ID          :     103
    Name                :     SHUBHAM JHA

    Department          :     BCA

    Date of Joining     :     22-12-2023
    Mobile No.          :     7383988791
    Email-id            :     shubham@gmail.com
    Password            :     teacher
    Salary              :     45000

  ------------------------------------------------------------

 List of Teachers As on : 22-12-2023 17:16
```

Edit Teacher Details

```
                +-------------------------+
                |   Edit Teacher Details  |
                +-------------------------+


Enter Teacher's Id to Update : 104




      +--------------------------------------------------------------+
      |                                                              |
      |      Sorry ! No Teacher details found for above Teacher ID   |
      |                                                              |
      +--------------------------------------------------------------+
```

```
                +-------------------------+
                |   Edit Teacher Details  |
                +-------------------------+


   Enter Teacher's Id to Update : 103


   ---------------------------------------------------------------------
          Teacher ID        :     103
          Name              :     SHUBHAM JHA

          Department        :     BCA

          Date of Joining   :     22-12-2023
          Mobile No.        :     7383988791
          Email-id          :     shubham@gmail.com
          Salary            :     45000

   ---------------------------------------------------------------------
   Enter Teacher's New Name : SHUBHAMKUMAR JHA

   Enter New Salary(in Rs.) : 47000

   Enter New Mobile No.     : 7383988791

   Enter New Email ID       : shubham@gmail.com

    Teacher Details Updated Successfully !!
```

Delete Teacher Details

```
                 +---------------------------+
                 |   Delete Teacher Details  |
                 +---------------------------+

Enter Teacher's ID to Delete : 104

         Teacher ID        :    104
         Name              :    TEST

         Department        :    BCA

         Date of Joining   :    22-12-2023
         Mobile No.        :    4545456512
         Email-id          :    test@gmail.com
         Salary            :    12000


         -------------------------------------------------------

   Do you want to delete this teacher ? (Y/N): y


   Teacher details deleted for Teacher Id  104  .
```

Add New Student

```
                 +---------------------------+
                 |     Add New Student       |
                 +---------------------------+
     (1) MCA
     (2) BCA

 Select Course From Above List : 1

 Selected Course              :   MCA

 Student Name                 :   KHUSHAL  SOLANKI

 Email                        :   khushal@gmail.com

 Mobile                       :   7894512000

 Address                      :   UTRAN  SURAT

 Date of Birth(dd-mm-yyyy)    :   01-01-2003


 -----------------------------------------------------------

 Student added successfully !!

 Student Login ID   :   khushal@gmail.com
 Default Password   :   student

 -----------------------------------------------------------
```

Student List (Course wise)

```
            +---------------------------+
            |        Student List       |
            +---------------------------+


    (1) MCA
    (2) BCA


Select Course From Above List : 1

            Student List


        Enrollment No.    :    230000001
        Name              :    SHUBHAM JHA

        Date of Birth     :    07-10-2003
        Department        :    MCA
        Mobile No.        :    7383988791
        Email-id          :    shubham@gmail.com
        Fees Status       :    Unpaid
        Address           :    DINDOLI SURAT


        ----------------------------------------------------------

        Enrollment No.    :    230000002
        Name              :    KHUSHAL SOLANKI

        Date of Birth     :    01-01-2003
        Department        :    MCA
        Mobile No.        :    7894512000
        Email-id          :    khushal@gmail.com
        Fees Status       :    Unpaid
        Address           :    UTRAN SURAT


        ----------------------------------------------------------

        Enrollment No.    :    230000003
        Name              :    RUCHIT SHAH

        Date of Birth     :    10-12-2004
        Department        :    MCA
        Mobile No.        :    8745125478
        Email-id          :    ruchit@gmail.com
        Fees Status       :    Unpaid
        Address           :    VARACHHA SURAT


        ----------------------------------------------------------

        Total Student  : 3

        List of Students As on : 22-12-2023 17:34
```

Student List (Course wise)

```
                    +---------------------------+
                    |        Student List       |
                    +---------------------------+


        (1) MCA
        (2) BCA


Select Course From Above List : 2

                Student List


            Enrollment No.    :    230000004
            Name              :    RAHUL SINGH

            Date of Birth     :    01-01-2002
            Department        :    BCA

            Mobile No.        :    4875454845
            Email-id          :    rahul@gmail.com
            Fees Status       :    Unpaid
            Address           :    GODADARA SURAT


        ----------------------------------------------------

            Enrollment No.    :    230000005
            Name              :    YOGESH PATIL

            Date of Birth     :    01-10-2005
            Department        :    BCA

            Mobile No.        :    9874545454
            Email-id          :    yogesh@gmail.com
            Fees Status       :    Unpaid
            Address           :    UDHNA SURAT


        ----------------------------------------------------

            Enrollment No.    :    230000006
            Name              :    YASH JAIN

            Date of Birth     :    01-01-2001
            Department        :    BCA

            Mobile No.        :    7845154578
            Email-id          :    yash@gmail.com
            Fees Status       :    Unpaid
            Address           :    VESU SURAT


        ----------------------------------------------------

        Total Student  : 3

        List of Students As on : 22-12-2023 17:38
```

Edit Student Detail

```
                  +--------------------------------+
                  |      Edit Student Detail       |
                  +--------------------------------+


     Enter Enrollment No. : 230000001

              Enrollment No.    :    230000001
              Name              :    SHUBHAM JHA

              Date of Birth     :    07-10-2003
              Department        :    MCA
              Mobile No.        :    7383988791
              Email-id          :    shubham@gmail.com
              Fees Status       :    Unpaid
              Address           :    DINDOLI SURAT


              -----------------------------------------------------------
   -----------------------------------------------------------------------
   Enter Student's Updated Name : SHUBHAM KUMAR

   Enter New Mobile No.     : 7383988791

   Enter New Email ID       : shubham@gmail.com

   New Address              : DINDOLI SURAT GJ

     Student Details Updated Successfully !!
 Press any key for return to main menu... |
```

```
                 +-------------------------------+
                 |      Edit Student Detail      |
                 +-------------------------------+


     Enter Enrollment No. : 23000006




        +----------------------------------------------------------+
        |                                                          |
        |    Sorry ! No Student details found for above Enrollment No    |
        |                                                          |
        +----------------------------------------------------------+



 Press any key for return to main menu... |
```

Search Student By Enrollment No.

```
                           +------------------------------------+
                           |       Search Student Details       |
                           +------------------------------------+

           (1)  Search By Enrollment No.
           (2)  Search By Student Name

      Select Option From Above : 1


     Enter Enrollment No : 230000001

               Enrollment No.      :     230000001
               Name                :     SHUBHAM KUMAR

               Date of Birth       :     07-10-2003
               Department          :     MCA
               Mobile No.          :     7383988791
               Email-id            :     shubham@gmail.com
               Password            :     student
               Fees Status         :     Unpaid
               Address             :     DINDOLI SURAT GJ


               -----------------------------------------------------------

Press any key for return to main menu... |
```

Search Student By Name

```
                          +------------------------------------+
                          |       Search Student Details       |
                          +------------------------------------+

           (1)  Search By Enrollment No.
           (2)  Search By Student Name

      Select Option From Above : 2


     Enter Student Name : SHUBHAM KUMAR

               Enrollment No.      :     230000001
               Name                :     SHUBHAM KUMAR
               Date of Birth       :     07-10-2003
               Department          :     MCA
               Mobile No.          :     7383988791
               Email-id            :     shubham@gmail.com
               Password            :     student
               Fees Status         :     Unpaid
               Address             :     DINDOLI SURAT GJ


               -----------------------------------------------------------

Press any key for return to main menu... |
```

Delete Student Detail

```
                    +----------------------------+
                    |   Delete Student Details   |
                    +----------------------------+


     Enter Enrollment No. : 230000006

               Enrollment No.     :    230000006
               Name               :    YASH JAIN

               Date of Birth      :    01-01-2001
               Department         :    BCA

               Mobile No.         :    7845154578
               Email-id           :    yash@gmail.com
               Fees Status        :    Unpaid
               Address            :    VESU SURAT


          ---------------------------------------------------------------
      Do you want to delete this Student ? (Y/N): y


      Student details deleted with Enrollment No.  230000006  .
Press any key for return to main menu... |
```

```
                    +----------------------------+
                    |   Delete Student Details   |
                    +----------------------------+


     Enter Enrollment No. : 230000009



        +----------------------------------------------------------------+
        |                                                                |
        |   Sorry ! No Student details found for above Enrollment No.    |
        |                                                                |
        +----------------------------------------------------------------+



  Press any key for return to main menu...
```

Fees Payment

```
                    +----------------------------+
                    |        Fees Payment        |
                    +----------------------------+


       Enter Enrollment No. : 230000001


       ------------------------------------------------------------------
                  Enrollment No.   :     230000001
                  Name             :     SHUBHAM KUMAR

                  Department       :     MCA
                  Fees Status      :     Unpaid

       ------------------------------------------------------------------
          Do You Want to Deposite Fees for Above Student ? (Y/N): Y

         Fees Deposited Successfully !!

   Press any key for return to main menu... |
```

```
                    +----------------------------+
                    |        Fees Payment        |
                    +----------------------------+


       Enter Enrollment No. : 230000001


       ------------------------------------------------------------------
                  Enrollment No.   :     230000001
                  Name             :     SHUBHAM KUMAR

                  Department       :     MCA
                  Fees Status      :     Paid

       ------------------------------------------------------------------
          Fees Already Paid

   Press any key for return to main menu... |
```

Fees Pending List (Course wise)

```
                              +------------------------------+
                              |       Fees Pending List      |
                              +------------------------------+
            (1) MCA
            (2) BCA


        Select Course From Above List : 1

        --------------------------------------------------------------
        Enrollment No            Name
        --------------------------------------------------------------

          230000002              KHUSHAL SOLANKI

          230000003              RUCHIT SHAH

          230000007              NARENDRA MODI


        --------------------------------------------------------------
        Total Students : 3


  Press any key for return to main menu...
```

```
                              +------------------------------+
                              |       Fees Pending List      |
                              +------------------------------+
            (1) MCA
            (2) BCA


        Select Course From Above List : 2

        --------------------------------------------------------------
        Enrollment No            Name
        --------------------------------------------------------------

          230000004              RAHUL SINGH

          230000005              YOGESH PATIL


        --------------------------------------------------------------
        Total Students : 2

  Press any key for return to main menu... |
```

Update Admin Credentials

```
================================================================================
==============            STUDENT MANAGEMENT SYSTEM           ================
================================================================================



                 +-----------------------------------+
                 |        UPDATE ADMIN CREDENTIALS     |
                 +-----------------------------------+


 Enter new username: admin

 Enter new password: ********


  Admin account updated successfully! Press any key to continue...
```

Teacher Login

```
================================================================================
==============            STUDENT MANAGEMENT SYSTEM           ================
================================================================================



                 +-----------------------------+
                 |        TEACHER LOGIN          |
                 +-----------------------------+



      Enter Email-id : mayank@gmail.com

      Enter Password : *******
```

Teacher Dashboard

```
========================================================================
=============          STUDENT MANAGEMENT SYSTEM          ===============
========================================================================


Welcome,  MAYANK JAIN

                +-------------------------------+
                |        TEACHER DASHBOARD      |
                +-------------------------------+
                | No. |       Options           |
                +-------------------------------+
                |  1  |   View Profile          |
                |  2  |   Add Student Marks     |
                |  3  |   Change Password       |
                |  4  |   Exit                  |
                +-------------------------------+

Please enter your choice : 1
```

Teacher Profile

```
========================================================================
=============          STUDENT MANAGEMENT SYSTEM          ===============
========================================================================


                    +-----------------+
                    |     PROFILE     |
                    +-----------------+

Welcome,  MAYANK JAIN


        ID                 :    101

        Name               :    MAYANK JAIN


        Department         :    MCA
        Date of Joining    :    22-12-2023

        Mobile No.         :    9487545454

        Email-id           :    mayank@gmail.com

        Salary             :    55000


        --------------------------------------------------------
Press any key for return to main menu...
```

Add Student Marks

```
                        +------------------------+
                        |  ADD STUDENT MARKS     |
                        +------------------------+

  Enter Enrollment No : 230000003


  ----------------------------------------------------------------
      Enrollment No.      :      230000003
      Name                :      RUCHIT SHAH
      Department          :      MCA

      ---------------------- MARKS -------------------------
      DATA STRUCTURE                              :   N/A
      JAVA TECHNOLOGY                             :   N/A
      PYTHON                                      :   N/A
      MATHEMATICS                                 :   N/A
      AGILE METHOLOGY                             :   N/A
      PROJECT                                     :   N/A
  ----------------------------------------------------------------

     Do you want to proceed ? (Y/N): y

   Enter Marks for below subjects(out of 100)

   DATA STRUCTURE  :   65

   JAVA TECHNOLOGY  :   62

   PYTHON   :   72

   MATHEMATICS  :   45

   AGILE METHOLOGY  :   81

   PROJECT  :   91

   Marks updated successfully

   Press any key for return to main menu... |
```

Update Student Marks

```
                        +------------------------+
                        |  ADD STUDENT MARKS     |
                        +------------------------+

  Enter Enrollment No : 230000003


  ----------------------------------------------------------------
      Enrollment No.      :      230000003
      Name                :      RUCHIT SHAH
      Department          :      MCA

      ---------------------- MARKS -------------------------
      DATA STRUCTURE                              :   65
      JAVA TECHNOLOGY                             :   62
      PYTHON                                      :   72
      MATHEMATICS                                 :   45
      AGILE METHOLOGY                             :   81
      PROJECT                                     :   91
  ----------------------------------------------------------------

     Do you want to proceed ? (Y/N): n

  Student marks not updated....

  Press any key for return to main menu... |
```

Add Student Marks

```
===============================================================================
=============== STUDENT MANAGEMENT SYSTEM        =================
===============================================================================



                    +----------------------+
                    |   ADD STUDENT MARKS   |
                    +----------------------+

    Enter Enrollment No : 230000004



        +------------------------------------------------------------------+
        |                                                                  |
        |       Sorry ! Above Enrollment No. doesn't exist in your Department |
        |                                                                  |
        +------------------------------------------------------------------+



        Press any key for return to main menu... |
```

➢ Here Teacher can add marks of only that student which belongs to their department.

Change Login Password

```
===============================================================================
=============== STUDENT MANAGEMENT SYSTEM        =================
===============================================================================



                    +----------------------+
                    |    CHANGE PASSWORD    |
                    +----------------------+

    Welcome,  MAYANK JAIN



    Enter new password: *******


    Password Updated Successfully !!


    Press any key for return to main menu... |
```

Student Login

```
================================================================================
===============        STUDENT MANAGEMENT SYSTEM         ================
================================================================================



                 +---------------------------+
                 |       STUDENT LOGIN       |
                 +---------------------------+



        Enter Email-id : shubham@gmail.com

        Enter Password : *******
```

Student Dashboard

```
================================================================================
===============        STUDENT MANAGEMENT SYSTEM         ================
================================================================================



Welcome,   SHUBHAM KUMAR

              +---------------------------------+
              |        STUDENT DASHBOARD        |
              +---------------------------------+
              |  No. |        Options           |
              +---------------------------------+
              |   1  |    View Profile          |
              |   2  |    View Result           |
              |   3  |    Change Password       |
              |   4  |    Exit                  |
              +---------------------------------+

Please enter your choice : 1
```

Student Profile

```
================================================================
================     STUDENT MANAGEMENT SYSTEM     ================
================================================================


                    +-----------------+
                    |     PROFILE     |
                    +-----------------+

    Welcome,  SHUBHAM KUMAR


            Enrollment No.   :     230000001

            Name             :     SHUBHAM KUMAR


            Department       :     MCA

            Date of Birth    :     07-10-2003

            Mobile No.       :     7383988791

            Email-id         :     shubham@gmail.com

            Address          :     DINDOLI SURAT GJ


            ------------------------------------------------------
    Press any key for return to main menu... |
```

Change Login Password

```
================================================================
================     STUDENT MANAGEMENT SYSTEM     ================
================================================================


                    +--------------------+
                    |   CHANGE PASSWORD   |
                    +--------------------+

    Welcome,  SHUBHAM KUMAR



Enter new password: *******


Password Updated Successfully !!


Press any key for return to main menu...
```

View Result

```
==================================================================
==============        STUDENT MANAGEMENT SYSTEM        ================
==================================================================


                    +----------------+
                    |     RESULT     |
                    +----------------+

------------------------------------------------------------------
ENROLLMENT No. :   230000001           COURSE    :  MCA
NAME           :   SHUBHAM KUMAR
DOB            :   07-10-2003

------------------------------------------------------------------
  SUBJECTS                       TOTAL MARKS          OBTAINED MARKS
------------------------------------------------------------------
    DATA STRUCTURE                   100                  75
    JAVA TECHNOLOGY                  100                  82
    PYTHON                           100                  71
    MATHEMATICS                      100                  94
    AGILE METHOLOGY                  100                  65
    PROJECT                          100                  92
------------------------------------------------------------------
    TOTAL                            600                  479
------------------------------------------------------------------
    PERCENTAGE                                          79.83 %
------------------------------------------------------------------

Press any key for return to main menu... |
```

View Result

```
================================================================
==============       STUDENT MANAGEMENT SYSTEM      ==============
================================================================


                  +----------------+
                  |     RESULT     |
                  +----------------+

----------------------------------------------------------------
ENROLLMENT No. :  230000002          COURSE    :  MCA
NAME           :  KHUSHAL SOLANKI
DOB            :  01-01-2003


----------------------------------------------------------------
  SUBJECTS                  TOTAL MARKS          OBTAINED MARKS
----------------------------------------------------------------
    DATA STRUCTURE              100                  N/A
    JAVA TECHNOLOGY             100                  N/A
    PYTHON                      100                  N/A
    MATHEMATICS                 100                  N/A
    AGILE METHOLOGY             100                  N/A
    PROJECT                     100                  N/A
----------------------------------------------------------------
    TOTAL                       600                  N/A
----------------------------------------------------------------
    PERCENTAGE                           RESULT NOT DECLARED
----------------------------------------------------------------

 Press any key for return to main menu... |
```

View Result

```
========================================================================
==============         STUDENT MANAGEMENT SYSTEM        ================
========================================================================



                      +----------------+
                      |     RESULT     |
                      +----------------+


-----------------------------------------------------------------------
ENROLLMENT No. :  230000004           COURSE    :  BCA

NAME          :  RAHUL SINGH
DOB           :  01-01-2002


-----------------------------------------------------------------------
  SUBJECTS                    TOTAL MARKS         OBTAINED MARKS
-----------------------------------------------------------------------
    WEB DEVELOPMENT              100                  12
    C LANGUAGE                   100                  21
    VB .NET                      100                  35
    STATISTICS                   100                  25
    DATA STRUCTURE               100                  38
    PROJECT                      100                  29
-----------------------------------------------------------------------
    TOTAL                        600                 160
-----------------------------------------------------------------------
    PERCENTAGE                                26.67 % [FAIL]
-----------------------------------------------------------------------

Press any key for return to main menu...
```

6. References

- https://www.cprogramming.com/

- https://www.youtube.com/watch?v=ZIe_j8xAkU4

- https://www.geeksforgeeks.org/c-programming-language/

- https://www.w3schools.com/c/index.php