

STUDENT MANAGEMENT SYSTEM

A PROJECT REPORT

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

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Date: 22/12/2023

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.

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

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.

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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.

JHA SHUBHAMKUMAR _____

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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.

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	<ul style="list-style-type: none">➤ Microsoft windows 7 or above➤ Ubuntu 16.04 LTS or above➤ MacOS 12 or above
Processor	<ul style="list-style-type: none">➤ Intel i3 or higher
RAM	<ul style="list-style-type: none">➤ 4GB or higher
Storage	<ul style="list-style-type: none">➤ 128 GB or higher
Development Environment	<ul style="list-style-type: none">➤ Dev C++, Turbo C or Visual Studio
Programming Language	<ul style="list-style-type: none">➤ 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.

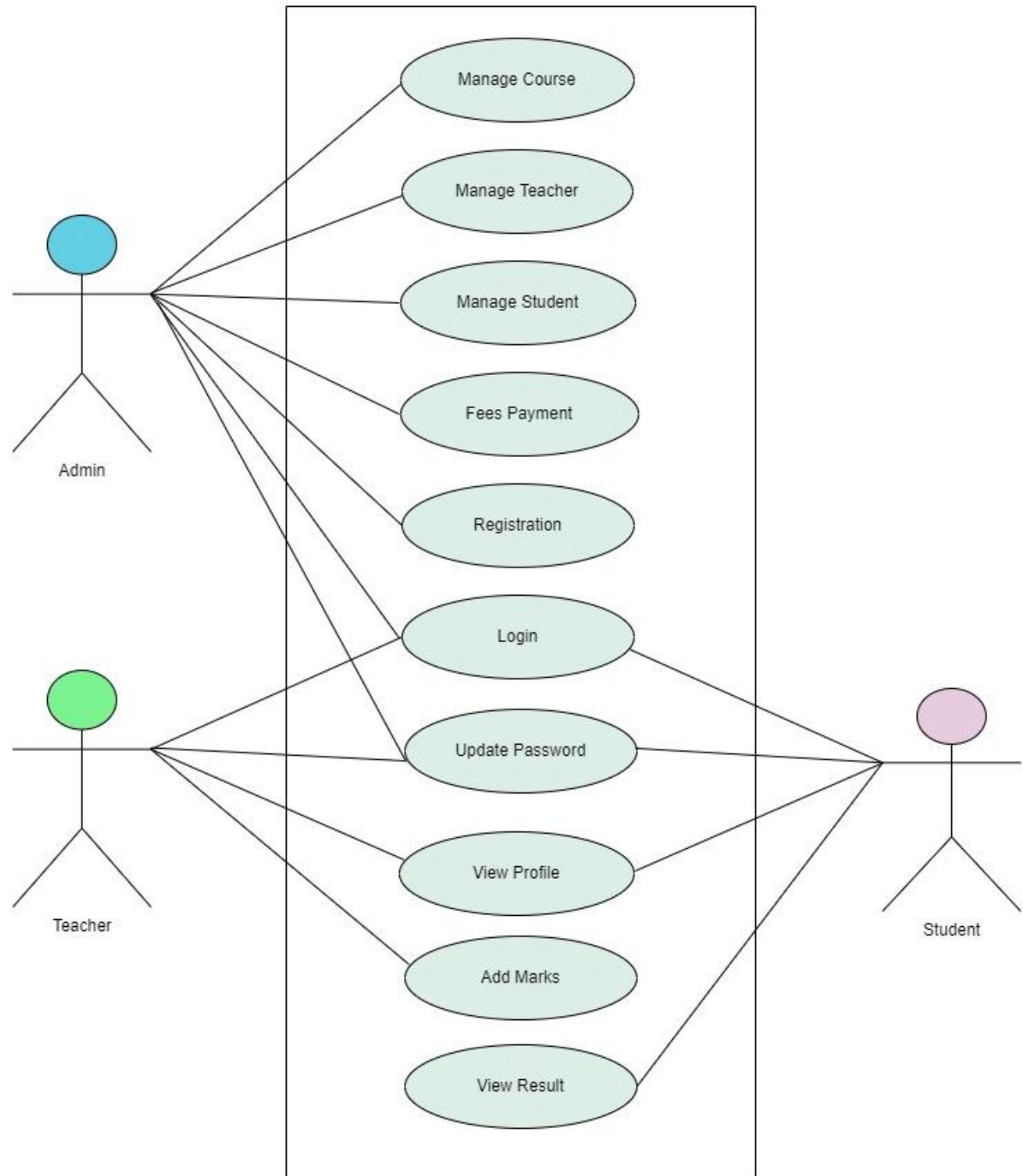
In this system real-time data updation is done into the files. The main goal of the Student Management System is to improve the accuracy and efficiency in the student records management.

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.

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

4. Database Design

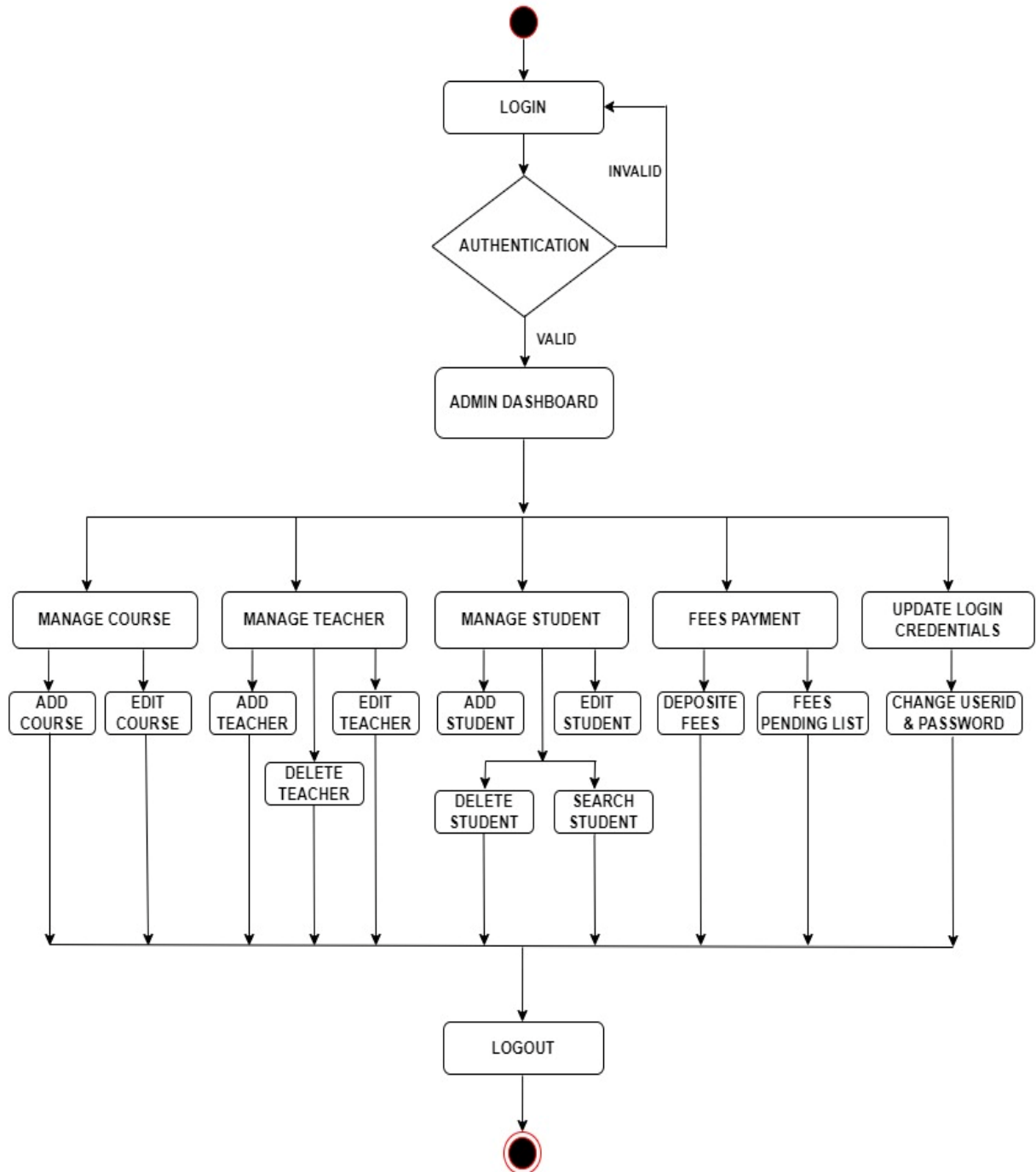
4.1 Use Case Diagram



[Fig. 4.1 Use Case Diagram]

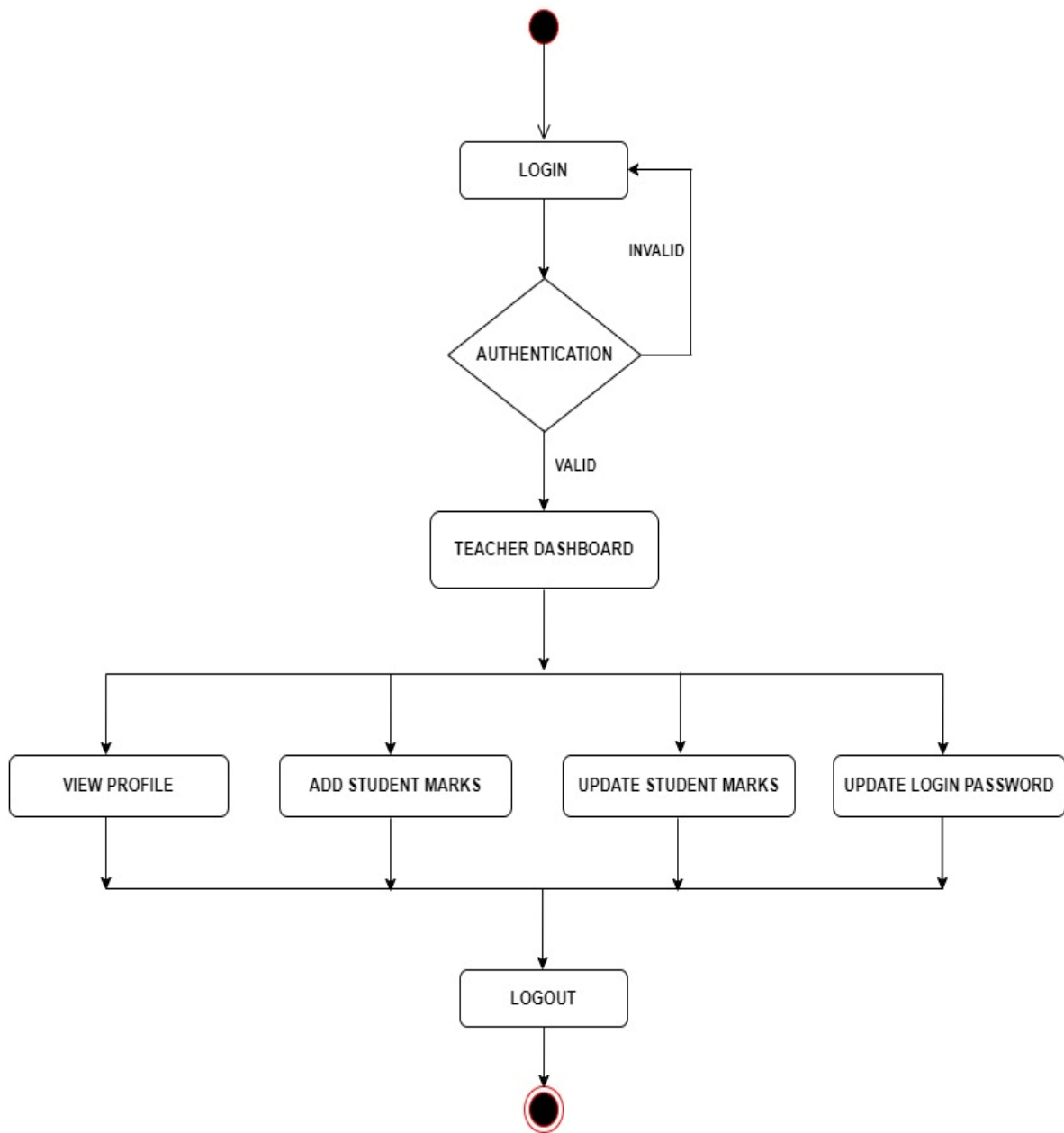
4.2 Activity Diagram

➤ ADMIN



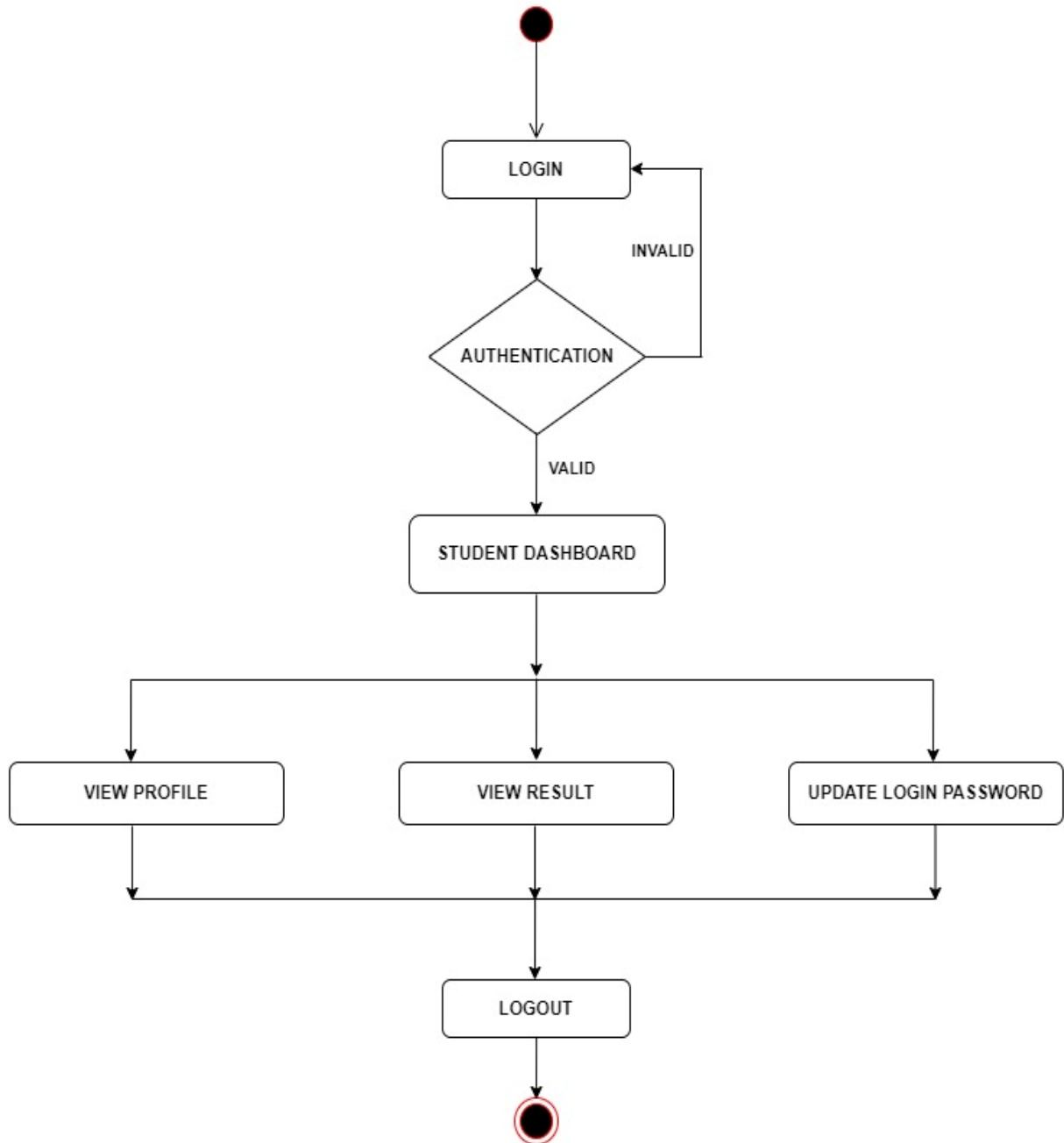
[Fig. 4.2.1 Admin Activity Diagram]

➤ TEACHER



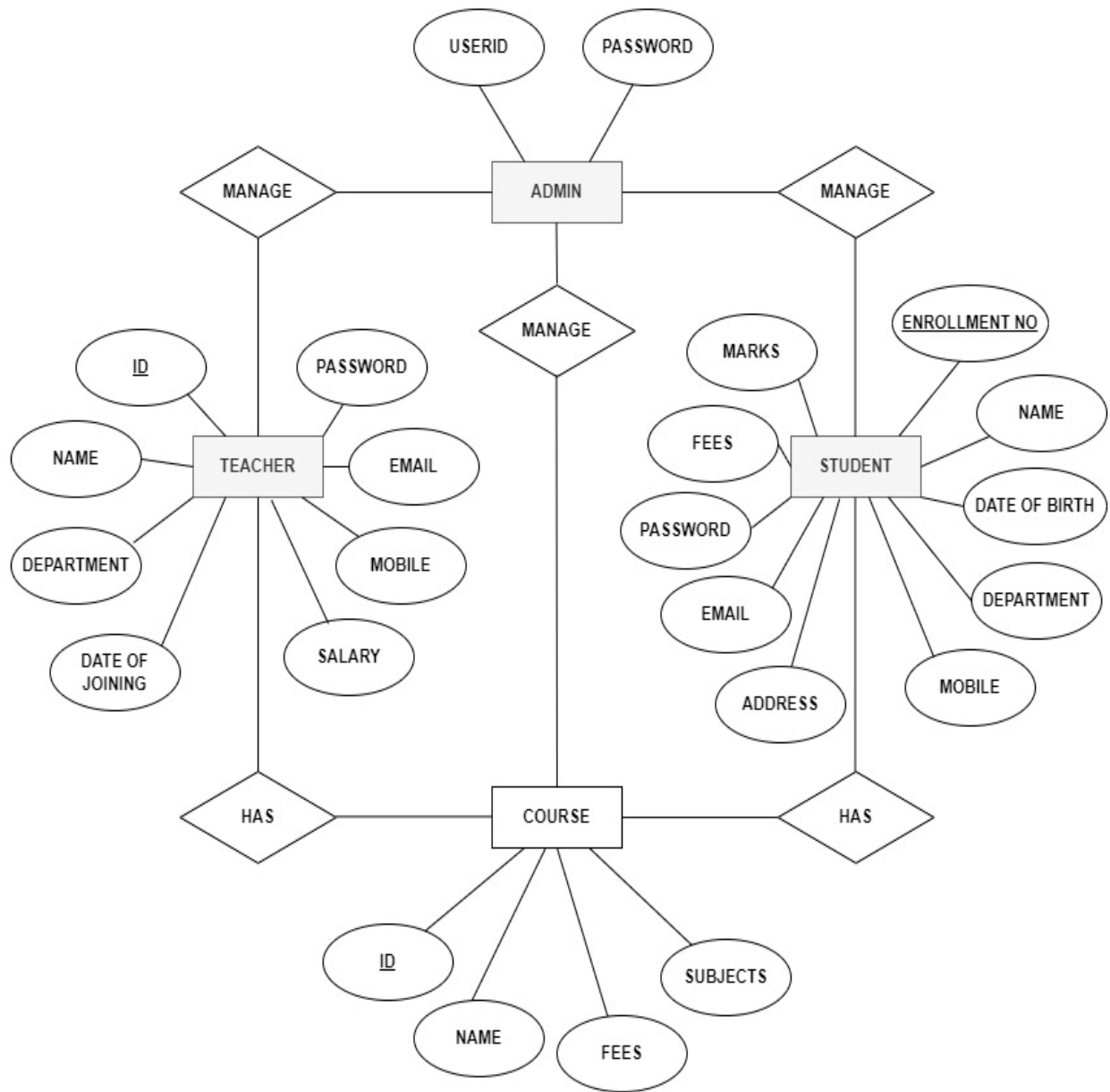
[Fig. 4.2.2 Teacher Activity Diagram]

➤ STUDENT



[Fig. 4.2.3 Student Activity Diagram]

4.3 ER Diagram



[Fig. 4.3 ER Diagram]

5. System Design

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
```

[Fig. 5.1.1 Welcome Page]

Admin Login

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

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

Enter Username : admin
Enter Password : ***|
```

[Fig. 5.1.2 Admin Login]

```
=====
===== 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|
```

[Fig. 5.1.3 Admin Dashboard]

```
=====
===== 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 METHODOLOGY
Subject 6 : PROJECT
```

[Fig. 5.1.4 Add New Course]

```
-----  
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 METHODOLOGY  
Subject 6      :      PROJECT  
  
-----  
  
Course added successfully !!
```

[Fig. 5.1.5 Course Added]

```
+-----+  
|      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 METHODOLOGY  
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
```

[Fig. 5.1.6 Course List]

```
+-----+
|           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

-----
```

[Fig. 5.1.7 Add New Teacher]

```
+-----+
|           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
```

[Fig. 5.1.8 Teacher's List]


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

Enter Teacher's Id to Update : 104

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

[Fig. 5.1.9 Edit Teacher Details(Not Found)]

```
+-----+
| 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 !!
```

[Fig. 5.1.10 Edit 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 .
```

[Fig. 5.1.11 Delete Teacher Details]

```
+-----+
| 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

-----
```

[Fig. 5.1.12 Add New Student]

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

[Fig. 5.1.13 Student List (Coursewise)]

Student List

(1) MCA
(2) BCA

Select Course From Above List : 2

Student List

Enrollment No.	:	2300000004
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.	:	2300000005
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.	:	2300000006
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

[Fig. 5.1.14 Student List (Coursewise)]

```
+-----+
| 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. : 230000006

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

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

[Fig. 5.1.15 Edit Student Details]

```
+-----+
| 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... |
```

[Fig. 5.1.16 Search Student (Using Enrollment)]

```
+-----+
| 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... |
```

[Fig. 5.1.17 Search Student (Using Name)]

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

Enter Enrollment No. : 2300000006

Enrollment No. : 2300000006
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. 2300000006 .

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

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

Enter Enrollment No. : 2300000009

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

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

[Fig. 5.1.18 Delete Student]

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

Enter Enrollment No. : 230000001

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

Department     : MCA
Fees Status    : Unpaid

-----

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

Fees Deposited Successfully !!

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

[Fig. 5.1.19 Fees Payment]

```
+-----+
| 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... |
```

[Fig. 5.1.20 Check Fees Status]


```
+-----+
| Fees Pending List |
+-----+

(1) MCA
(2) BCA

Select Course From Above List : 1

-----
Enrollment No      Name
-----
2300000002         KHUSHAL SOLANKI
2300000003         RUCHIT SHAH
2300000007         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
-----
2300000004         RAHUL SINGH
2300000005         YOGESH PATIL
-----

Total Students : 2

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

[Fig. 5.1.21 Fees Pending List]

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

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

Enter new username: admin
Enter new password: *****

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

[Fig. 5.1.22 Update Admin Credentials]

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

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

Enter Email-id : mayank@gmail.com
Enter Password : *****|
```

[Fig. 5.1.23 Teacher Login]

```
=====
===== 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
```

[Fig. 5.1.24 Teacher Dashboard]

```
=====
===== 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...
```

[Fig. 5.1.25 Teacher Profile]

```

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

Enter Enrollment No : 2300000003

-----
Enrollment No. : 2300000003
Name : RUCHIT SHAH
Department : MCA
----- MARKS -----
DATA STRUCTURE : N/A
JAVA TECHNOLOGY : N/A
PYTHON : N/A
MATHEMATICS : N/A
AGILE METHODOLOGY : 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 METHODOLOGY : 81
PROJECT : 91
Marks updated successfully

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

[Fig. 5.1.26 Add Student Marks]

```

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

Enter Enrollment No : 2300000003

-----
Enrollment No. : 2300000003
Name : RUCHIT SHAH
Department : MCA
----- MARKS -----
DATA STRUCTURE : 65
JAVA TECHNOLOGY : 62
PYTHON : 72
MATHEMATICS : 45
AGILE METHODOLOGY : 81
PROJECT : 91
-----

Do you want to proceed ? (Y/N): n
Student marks not updated....

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

[Fig. 5.1.27 Update 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.

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

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

Welcome, MAYANK JAIN

Enter new password: *****

Password Updated Successfully !!

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

[Fig. 5.1.28 Change Login Password(Teacher)]

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

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

Enter Email-id : shubham@gmail.com

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

[Fig. 5.1.29 Student Login]

```
=====
===== 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|
```

[Fig. 5.1.30 Student Dashboard]

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

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

Welcome,  SHUBHAM KUMAR

Enrollment No.   :  2300000001
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... |
```

[Fig. 5.1.31 Student Profile]

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

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

Welcome,  SHUBHAM KUMAR

Enter new password: *******

Password Updated Successfully !!

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

[Fig. 5.1.32 Change Login Password (Student)]

```

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

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

-----
ENROLLMENT No. : 2300000001      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 METHODOLOGY        100                        65
PROJECT                  100                        92
-----
TOTAL                    600                        479
-----
PERCENTAGE                                     79.83 %
-----

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

```

[Fig. 5.1.33 View Result (Pass)]


```

=====
===== 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 METHODOLOGY   100                N/A
PROJECT             100                N/A
-----
TOTAL              600                N/A
-----
PERCENTAGE                      RESULT NOT DECLARED
-----

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

```

[Fig. 5.1.34 View Result (Not Declared)]

```

=====
===== 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...

```

[Fig. 5.1.35 View Result (Fail)]

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>