

"Student Management System"

Presented By

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M.C.A. I Sem. 1

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Agenda

- Project Abstract
- Objective
- System Description (Technology Used)
- ❖ Diagram (Use Case Diagram, Activity Diagram)
- Screen Shorts
- Advantages & Limitations
- References

Project Abstract

- Student Management System is application developed for managing student data in school, colleges and institutes.
- In this system admin is super user who can manage all operations like Manage course, manage Student, Generate login ID & Password, fees Payment etc.
- The system provides a platform for teacher and student to view their information in the system.

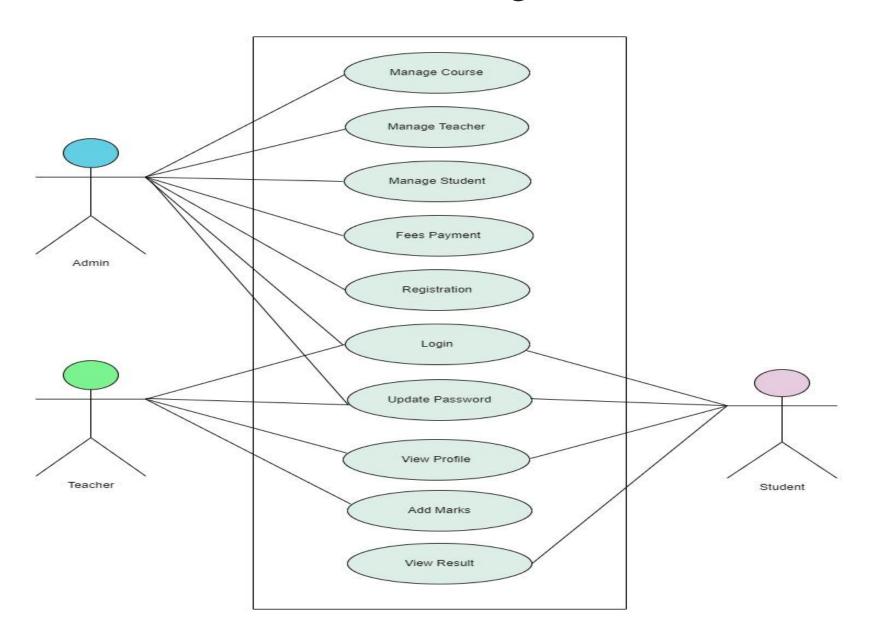
Objective

- Main Objective of the Student Management System is to go with computerized system, instead of old fashioned manual process.
- As compared to old process this system help to increase Sustainability.
- In this system admin is super user who can manage all operations related to teacher and students.

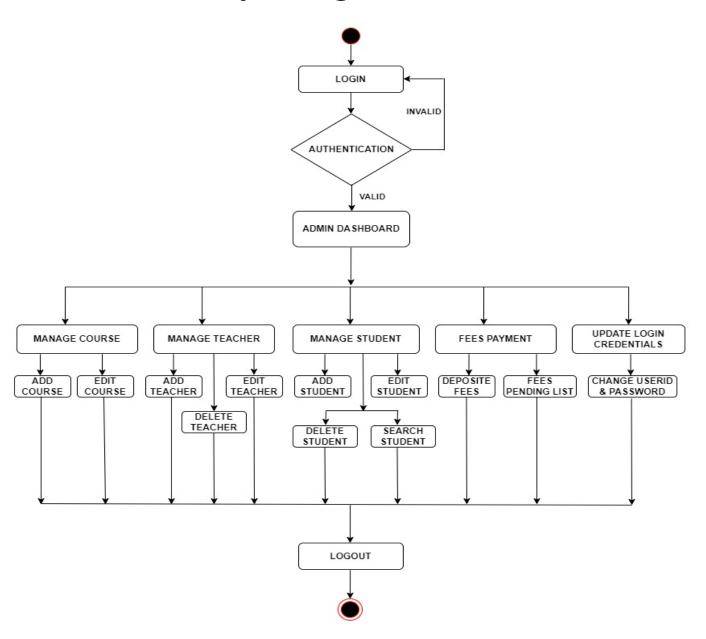
System Description

	Software Requirement	Dev C++, Turbo C
/	Hardware requirements	Processor: Minimum 2 GHz Hard Drive: Minimum 64 GB or More Memory: 4 GB or Above
	Operating System	Windows 7 or Above

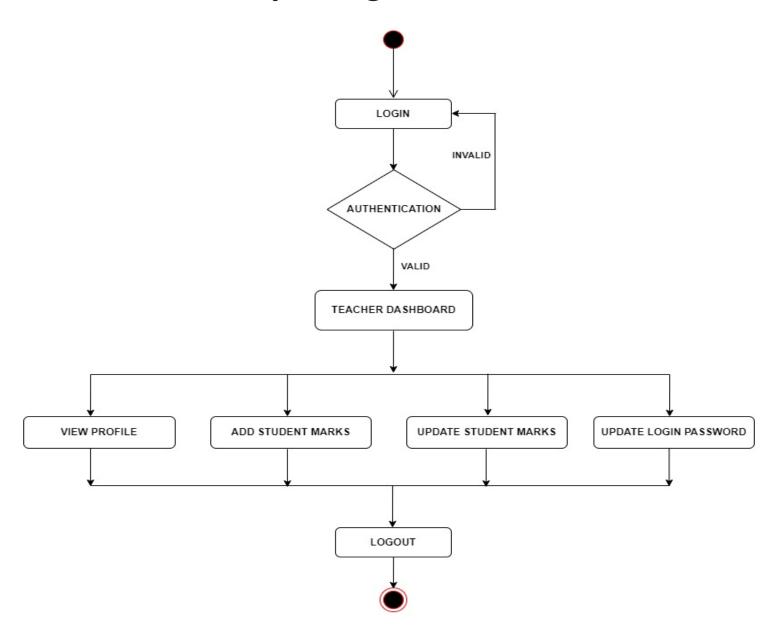
Use Case Diagram



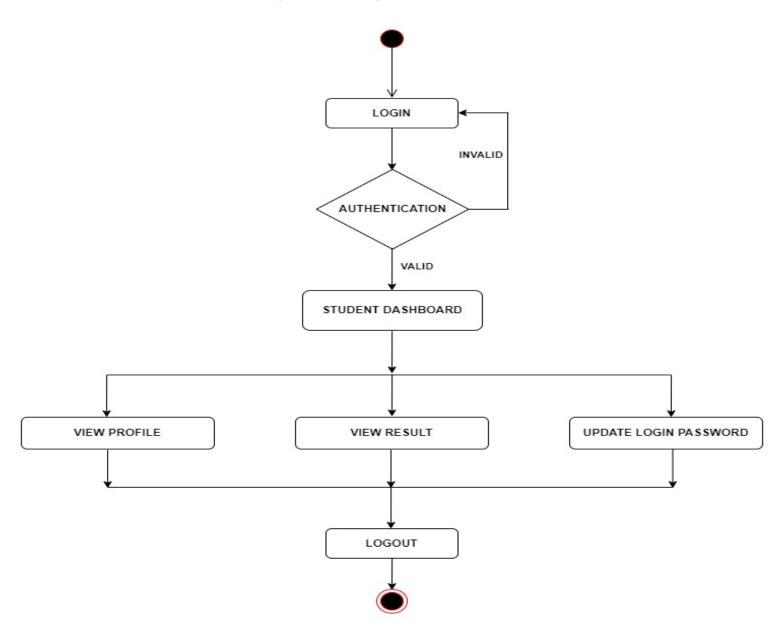
Activity Diagram (Admin)



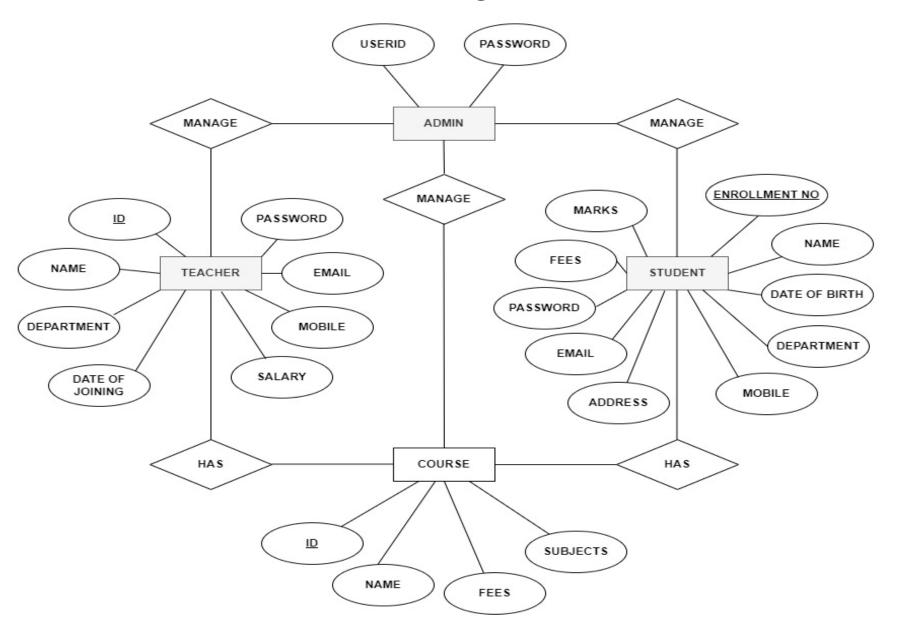
Activity Diagram (Teacher)

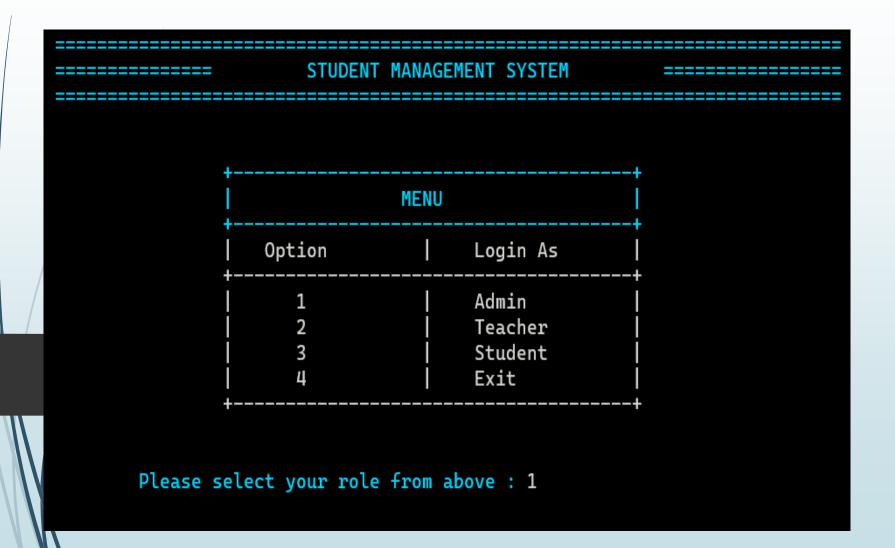


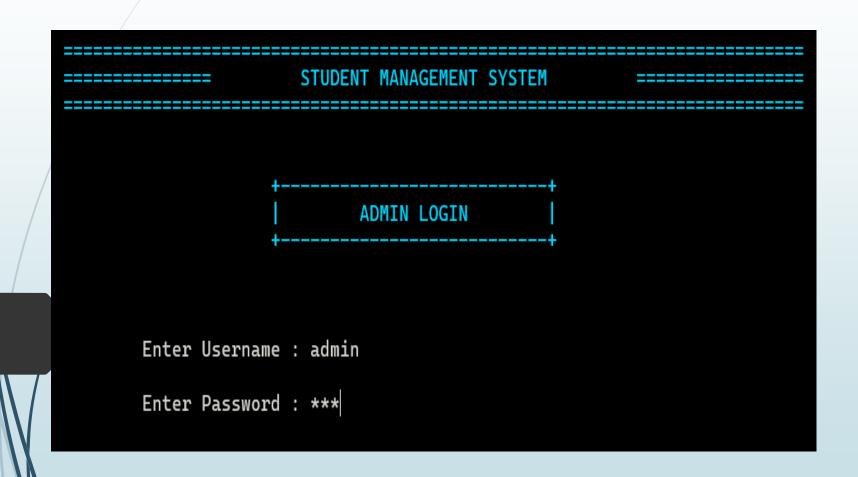
Activity Diagram (Student)



E-R Diagram







	STUDENT MANAGEMENT SYSTEM =============		
	ADMIN DASHBOARD		-
	No.	Options)
			!
		Add New Course	
		Edit Course Details	
	3	List of Courses	
	4	Add New Teacher	
		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	
		Delete Student Details	
	13	Fees Payment	
	14	Fees Pending List	
	15	Update Userid & Password	
	16	Exit	
			-
Enter you	ır choic	e : 1	

```
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 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 ID :
                     1
 Course Name :
Course Fees :
                     MCA
                     96000
 Subject 1 :
                     DATA STRUCTURE
 Subject 2 :
                     JAVA TECHNOLOGY
 Subject 3 :
Subject 4 :
                     PYTHON
                     MATHEMATICS
 Subject 5 :
                     AGILE METHOLOGY
 Subject 6
                     PROJECT
 Course ID :
                     2
 Course Name :
                    BCA
 Course Fees :
                     35000
 Subject 1 :
                     WEB DEVELOPMENT
 Subject 2 :
Subject 3 :
                     C LANGUAGE
                     VB .NET
 Subject 4 :
Subject 5 :
                     STATISTICS
                     DATA STRUCTURE
 Subject 6 :
                     PROJECT
List of Courses As on : 22-12-2023 17:10
```

```
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 ID 101 MAYANK JAIN Name Department MCA Date of Joining 22-12-2023 Mobile No. 9487545454 Email-id mayank@gmail.com Password teacher Salary 55000 Teacher ID 102 PREKSHA PARMAR Name Department MCA Date of Joining 22-12-2023 Mobile No. 7845451200 Email-id preksha@gmail.com Password teacher 50000 Salary Teacher ID 103 Name SHUBHAM JHA Department BCA Date of Joining 22-12-2023 Mobile No. 7383988791 Email-id shubham@gmail.com Password teacher 45000 Salary List of Teachers As on : 22-12-2023 17:16

```
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
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
   (1) MCA
   (2) BCA
Select Course From Above List : 1
Selected Course
                           : MCA
Student Name
                           : KHUSHAL SOLANKI
Email
                           : khushal@gmail.com
Mobile
                           : 7894512000
                           : UTRAN SURAT
Address
Date of Birth(dd-mm-yyyy) : 01-01-2003
Student added successfully !!
Student Login ID : khushal@gmail.com
Default Password : student
```

```
Student List
    (1) MCA
    (2) BCA
Select Course From Above List: 1
                Student List
         Enrollment No.
                                  230000001
                                  SHUBHAM JHA
          Date of Birth
                                  07-10-2003
          Department
                                  MCA
         Mobile No.
                                  7383988791
          Email-id
                                  shubham@gmail.com
         Fees Status
                                  Unpaid
                                  DINDOLI SURAT
          Address
          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 (1) MCA (2) BCA Select Course From Above List: 2 Student List Enrollment No. 230000004 RAHUL SINGH Date of Birth 01-01-2002 Department BCA Mobile No. 4875454845 Email-id rahul@gmail.com Fees Status Unpaid GODADARA SURAT Address Enrollment No. 230000005 YOGESH PATIL Date of Birth 01-10-2005 Department BCA Mobile No. 9874545454 Email-id yogesh@gmail.com Fees Status Unpaid UDHNA SURAT Address 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
      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
                                      DINDOLI SURAT
                Address
      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...
```

```
Enter Enrollment No. : 23000006

Sorry ! No Student details found for above Enrollment No

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

```
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 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 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...
```

```
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...
```

```
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
            (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...
```

=======================================	STUDENT MANAGEMENT SYSTEM	============			
	UPDATE ADMIN CREDENTIALS	į			
		Ť			
Enter new username: admin Enter new password: ****** Admin account updated successfully! Press any key to continue					

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
Enter Enrollment No : 230000003
  Enrollment No. : 230000003
                        RUCHIT SHAH
  Name
  Department : MCA
               ----- MARKS --
  DATA STRUCTURE
                                         : N/A
  JAVA TECHNOLOGY
                                         : N/A
                                         : N/A
  PYTHON
  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...
```

```
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...
```

```
Enter Enrollment No : 230000004

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

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

```
THE STUDENT MANAGEMENT SYSTEM

CHANGE PASSWORD

CHANGE PASSWORD

Welcome, MAYANK JAIN

Enter new password: ******

Password Updated Successfully !!

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

```
STUDENT MANAGEMENT SYSTEM

| STUDENT LOGIN |
| STUDENT LOGIN |
| Enter Email-id : shubham@gmail.com

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

```
Welcome, SHUBHAM KUMAR

| STUDENT DASHBOARD |
| No. | Options |
| 1 | View Profile |
| 2 | View Result |
| 3 | Change Password |
| 4 | Exit |
| Please enter your choice : 1
```

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...

+------| 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...

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

ENROLLMENT No.: 230000002 COURSE: MCA

NAME : KHUSHAL SOLANKI

Press any key for return to main menu...

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	

+------| 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 TOTAL 600 160 PERCENTAGE 26.67 % [FAIL]

Press any key for return to main menu...

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The state of the s
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Advantages

- Time and Cost Savings: : Reduces the time and costs associated with manual record-keeping and administrative tasks, allowing institutions to allocate resources more efficiently.
- * Efficient Grade Management: In this system student can easily view their marks by login and password which is updated by teachers or faculties.
- Improved Accessibility: Provides easy access to information for all admin, allowing faculties and students to track any changes like profile, marks etc.

Limitations

- User-Interface: Complex-user interface may lead to increased difficulty in acceptance of the student management application among the institute staff.
- User Authentication and Authorization: Implementing robust user authentication and authorization mechanisms is essential. If not properly implemented, there is a risk of unauthorized access to sensitive information.
- Scalability Issues: As the student management system grows and the amount of data increases, managing scalability can be challenging, especially without automatic memory management.

References

- https://www.cprogramming.com/
- https://www.w3schools.com/c/index.php
- https://www.geeksforgeeks.org/c-programminglanguage/

Thank You