

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Skill Based Mini Project Report

on

Student Management

Submitted By:

Shiva

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Mahesh Paramar, Assistant professor

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

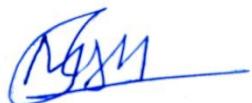
**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est. 1957**

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CERTIFICATE

This is certified that **SHIVA**(0901CD211053) has submitted the project report titled **Student Mangement System** under the mentorship of **Mahesh Parmar** in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



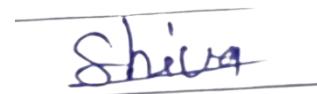
Mahesh Parmar
Assitant professor
Computer Science and Engineering

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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of Mahesh Paramar , Assistant Professor, Computer Science and Engineering Department

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

A handwritten signature in blue ink, appearing to read "Shiva", is written over a horizontal line.

Student name - Shiva
(0901CD211053) ,
Computer Science and Engineering

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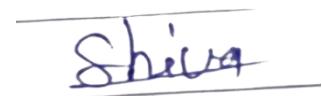
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ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary project as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering, for allowing** me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Mahesh Paramar**, Assistant Professor, **Department of Computer Science and Engineering** for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



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ABSTRACT

Student Information Management System can be used by education institutes to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project.

Objectives:

- ♣ Online registration of students
- ♣ Maintenance of student records
- ♣ Searching student records

Users Views:

- ♣ Administrator
- ♣ Student

Platform Operating Systems:

Microsoft Windows

Technologies Used:

- ♣ Oops concept and Linked list data structures

Introduction

The objective of Student information System is to allow the administrator of any organization to edit and find out the personal details of a student and allows the student to keep up to date his profile .It'll also facilitate keeping all the records of students, such as their id, name, mailing address, phone number, DOB etc. So all the information about an student will be available in a few seconds. Overall, it'll make Student Information Management an easier job for the administrator and the student of any organization. The main purpose of this SRS document is to illustrate the requirements of the project Student information System and is intended to help any organization to maintain and manage its student's personal data.

Methodology

Software Requirements:

- ♣ PHP 5.0
- ♣ APACHE HTTP Server
- ♣ Dreamweaver,FrontPage for Front End Programming
- ♣ Microsoft Windows or Linux

Hardware Requirements:

- ♣ Intel Pentium IV processor or equivalent or higher
- ♣ 512 MB Ram or Higher
- ♣ 20 GB HDD or Higher
- ♣ Network Connectivity

Scope

Without a Student information System, managing and maintaining the details of the student is a tedious job for any organization. Student Information system will store all the details of the students including their background information, educational qualifications, personal details and all the information related to their resume .

Login module:

Login module will help in authentication of user accounts .Users who have valid login id and password can only login into their respective accounts.

Search module:

Suppose there are hundreds of students and from this we have to search a particular student and we know the name of the student .In manual system it is a tedious task though we know the name of the student, but using this module we can easily search the student by specifying the name of the student in the search criteria. Thus this module will help the administrator in searching the student with various criteria easily.

User Management:

This module will help the administrator in enabling/disabling a user account and updating user information as required.

Objective

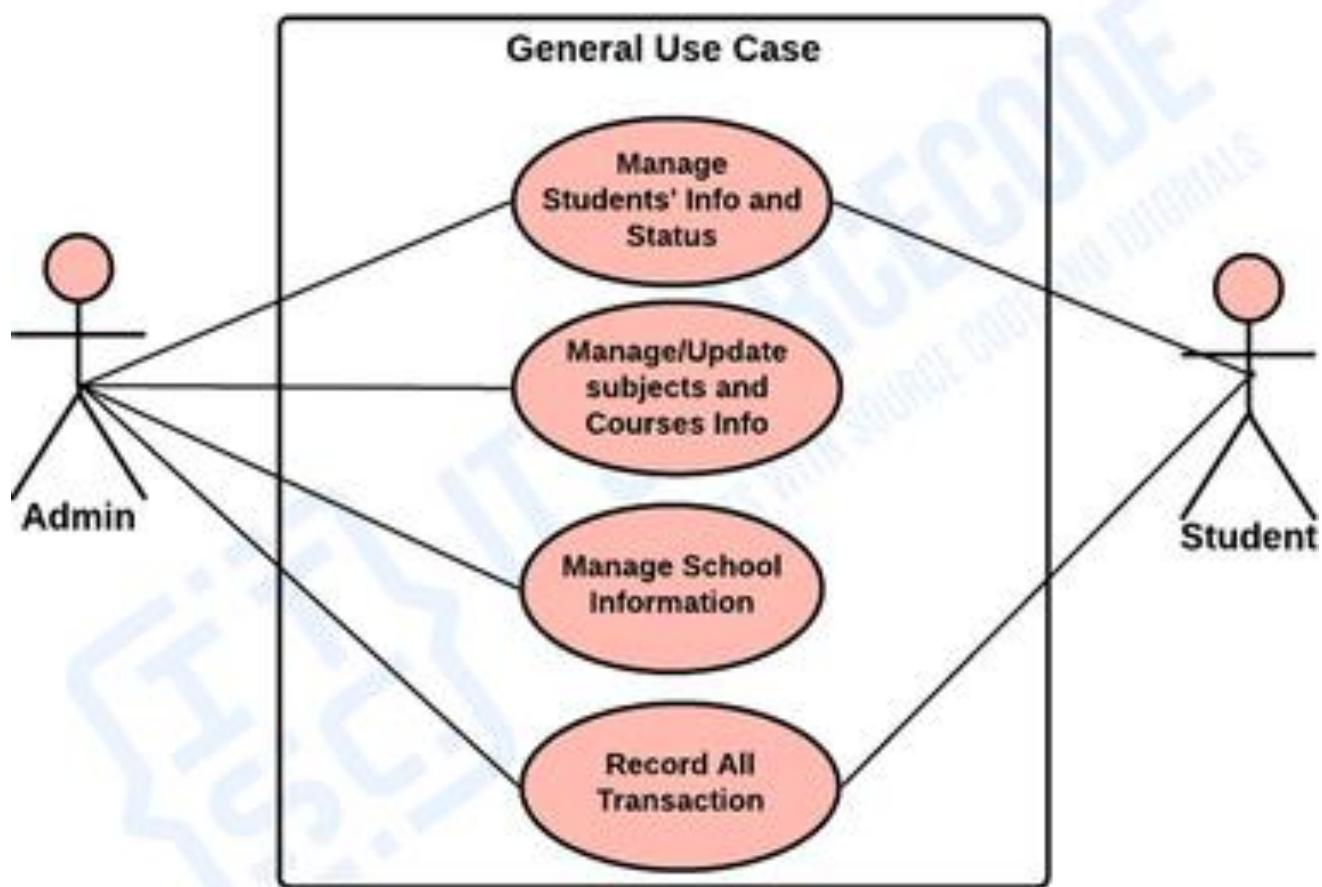
Purpose of project is to maintain details of the students such as storing information about:

Student id

- ♣ Student password
- ♣ Student name
- ♣ Student DOB
- ♣ Student mailing address
- ♣ Registration date
- ♣ Student status
- ♣ Contact no
- ♣ Qualification
- ♣ City
- ♣ Resume
- ♣ Image

USE CASE MODEL

STUDENT INFORMATION SYSTEM



USE CASE DIAGRAM

IMPLEMENTATION

STUDENT MANAGEMENT SYSTEM

```
#include<stdlib.h>
#include<string.h>
#include<stdio.h>
struct Student
{
    int rollnumber;
    char name[100];
    char phone[100];
    float percentage;
    struct Student *next;
}* head;
void insert(int rollnumber, char* name, char* phone, float percentage)
{
    struct Student * student = (struct Student *) malloc(sizeof(struct Student));
    student->rollnumber = rollnumber;
    strcpy(student->name, name);
    strcpy(student->phone, phone);
    student->percentage = percentage;
    student->next = NULL;
    if(head==NULL){
        // if head is NULL
        // set student as the new head
        head = student;
    }
    else{
        // if list is not empty
        // insert student in beginning of head
        student->next = head;
        head = student;
    }
}
void search(int rollnumber)
{
    struct Student * temp = head;
    while(temp!=NULL){
        if(temp->rollnumber==rollnumber){

```

```

printf("Roll Number: %d\n", temp->rollnumber);
printf("Name: %s\n", temp->name);
printf("Phone: %s\n", temp->phone);
printf("Percentage: %0.4f\n", temp->percentage);
return;
}
temp = temp->next;
}
printf("Student with roll number %d is not found !!!\n", rollnumber);
}
void update(int rollnumber)
{
struct Student * temp = head;
while(temp!=NULL){
if(temp->rollnumber==rollnumber){
printf("Record with roll number %d Found !!!\n", rollnumber);
printf("Enter new name: ");
scanf("%s", temp->name);
printf("Enter new phone number: ");
scanf("%s", temp->phone);
printf("Enter new percentage: ");
scanf("%f",&temp->percentage);
printf("Updation Successful!!!\n");
return;
}
temp = temp->next;
}
printf("Student with roll number %d is not found !!!\n", rollnumber);
}
void Delete(int rollnumber)
{
struct Student * temp1 = head;
struct Student * temp2 = head;
while(temp1!=NULL){
if(temp1->rollnumber==rollnumber){
printf("Record with roll number %d Found !!!\n", rollnumber);
if(temp1==temp2){
// this condition will run if
// the record that we need to delete is the first node
// of the linked list

```

```

head = head->next;
free(temp1);
}
else{
// temp1 is the node we need to delete
// temp2 is the node previous to temp1
temp2->next = temp1->next;
free(temp1);
}
printf("Record Successfully Deleted !!!\n");
return;
}
temp2 = temp1;
temp1 = temp1->next;
}
printf("Student with roll number %d is not found !!!\n", rollnumber);
}
void display()
{
struct Student * temp = head;
while(temp!=NULL){
printf("Roll Number: %d\n", temp->rollnumber);
printf("Name: %s\n", temp->name);
printf("Phone: %s\n", temp->phone);
printf("Percentage: %.4f\n\n", temp->percentage);
temp = temp->next;
}
}
int main()
{
head = NULL;
int choice;
char name[100];
char phone[100];
int rollnumber;
float percentage;
printf("1 to insert student details\n2 to search for student details\n3 to delete
student details\n4 to update student details\n5 to display all student details");
do
{

```

```
printf("\nEnter Choice: ");
scanf("%d", &choice);
switch (choice)
{
case 1:
printf("Enter roll number: ");
scanf("%d", &rollnumber);
printf("Enter name: ");
scanf("%s", name);
printf("Enter phone number: ");
scanf("%s", phone);
printf("Enter percentage: ");
scanf("%f", &percentage);
insert(rollnumber, name, phone, percentage);
break;
case 2:
printf("Enter roll number to search: ");
scanf("%d", &rollnumber);
search(rollnumber);
break;
case 3:
printf("Enter roll number to delete: ");
scanf("%d", &rollnumber);
Delete(rollnumber);
break;
case 4:
printf("Enter roll number to update: ");
scanf("%d", &rollnumber);
update(rollnumber);
break;
case 5:
display();
break;
}
} while (choice != 0);
}
```

Conclusion

Student management systems make faculty jobs more accessible by giving them an easy place to find and sort information. This system allows teachers and student managers to follow with their student engagement. The idea is to create a scenario that makes the lives of administration and teachers easier.