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 Mangement

Submitted By:

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Submitted to:

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Sanidhya asati**(0901CD211050) 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.

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Computer Science and Engineering

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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 structers

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.

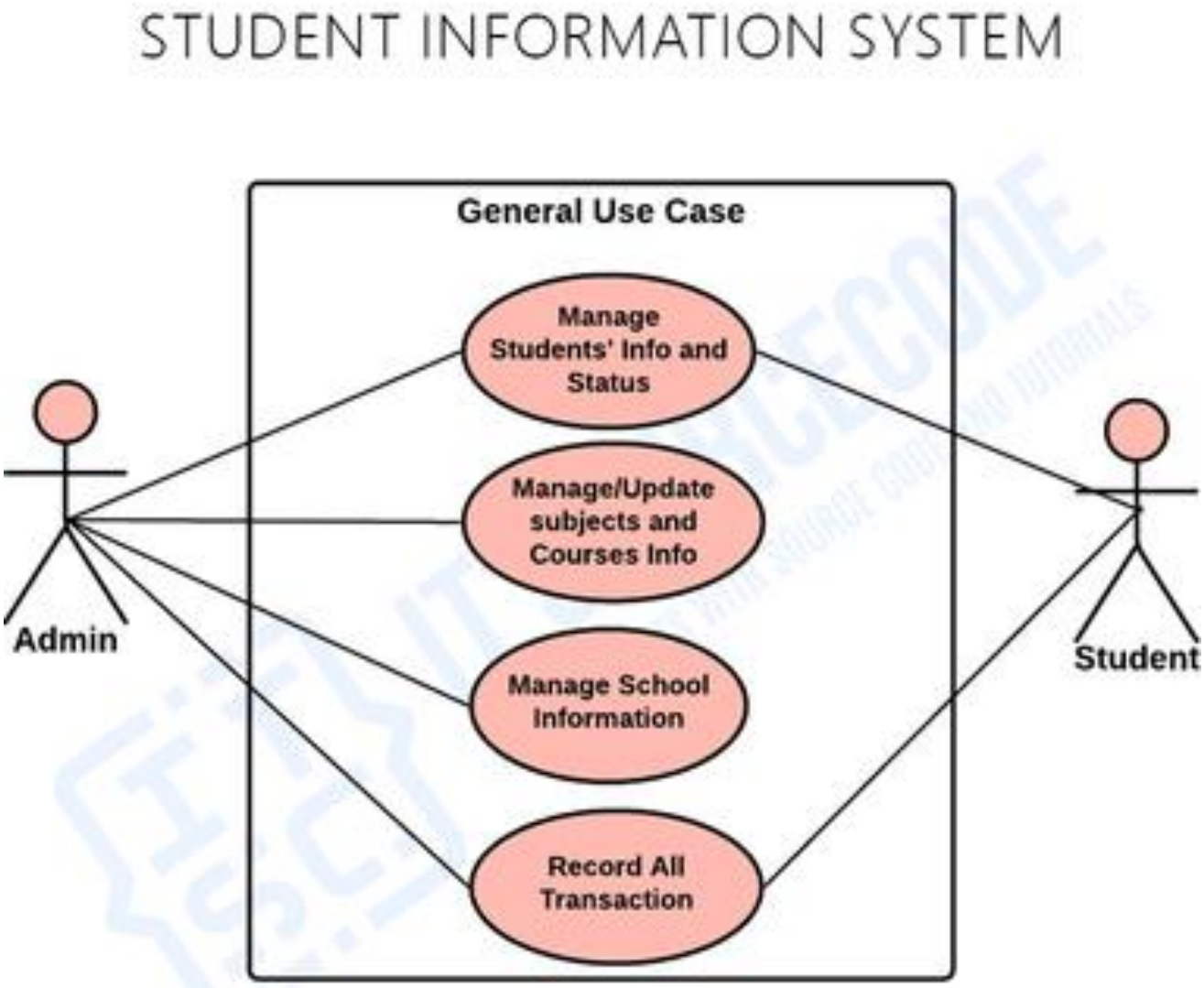
Objective

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



USE CASE DIAGRAM

IMPLEMENTATION

STUDENT MANAGEMENT SYSTEM

```
#include<stdlib.h>
#include<string.h>
#include<stdio.h>
struct Student
{
introllnumber;
charname[100];
charphone[100];
float percentage;
struct Student *next;
}* head;
voidinsert(introllnumber, 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;
}
}
voidsearch(introllnumber)
{
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);
}
voidupdate(introllnumber)
{
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);
}
voidDelete(introllnumber)
{
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);
}
voiddisplay()
{
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: %0.4f\n\n", temp->percentage);
temp = temp->next;
}
}
intmain()
{
head = NULL;
int choice;
charname[100];
charphone[100];
introllnumber;
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.