Introduction

A student management system (software) project is a web-based platform that allows schools and universities to take student data online for improved management and transparency. This project report for student management system will give you a broader knowledge of the system description including its' abstract, proposal, documentation, and source codes. In this project work, It main goal is to show the student record of a school/college. Student Management System can handle all the detail about a student. The details include student's personal details and Academic details, etc. The student management system is an automated version of manual student management system.

Objective

The goal of this research was to create an details management project system that would aid in the maintenance of student information records. It can handle all the related to students . The project must have tight security to secure the records of all the students.

School management system will be responsible for performing various actions such as maintaining and managing student records, managing admission details and setting admission criteria for admission into various stream for particular classes, managing users who are working within the school, preparing time tables and routines for the studying students and teachers, providing online assistance help for the studying students, keeping parents records and health records of students for future references. All these tasks can be achieved easily through this new school management system. As system has been developed by divining into several modules so maintenance work can be easily carried out without the need of technical assistance.

Program Code

```
#include<stdio.h>
#include<conio.h>
void add();
void update();
void del();
void search();
struct student
        {
        int id;
        int roll;
        int grade;
        char name[20];
        char gender[20];
        char stream[20];
        char section[20];
        char address[20];
        char email[50];
        int mobile[50];
        };

void main()
{
        int choice;
        while(choice!=5)
```

```
{
        printf(" \n\n\n\n\n\t\t\t\t\t    * * * * * * * * *");
        printf("\n\n\t\t\t\t\t    *               *");
        printf("\n\n\t\t\t\t\t    *      Welcome      *");
        printf("\n\n\t\t\t\t\t    *               *");
        printf("\n\n\t\t\t\t\t    * * * * * * * * *");
        printf("\n <*<*<* Student Record Management >*>*>*
\n");
        printf("\n 1. Add \n");
        printf("\n 2.delete \n");
        printf("\n 3.search \n");
        printf("\n 4.update \n");
        scanf("%d",& choice);
        switch (choice)
        {
            case 1:
                add();
                break;

                case 2:
                    del();
                    printf("\n enter any key to continue\n");
                    getch();
                    break;
```

```
                                case 3:
                                search();
                                printf("\n enter any key to continue \n");
                                getch();
                                break;

                                case 4:
                                update();
                                printf("\n enter any key to continue \n");
                                break;


                }
        }
}
void add()
{
        char a;
        FILE *fp;
        struct student add;
        do
        {
                system("cls");
                fp=fopen("std.txt","a");
                printf("\n enter roll:\t\t");
```

```
        scanf("%d",&add.roll);
        printf("\nenter name:\t\t");
        scanf("%s",&add.name);
        printf("\nEnter id:\t\t ");
scanf("%d",&add.id);
printf("\n Enter stream :\t\t ");
scanf("%s",&add.stream);
printf("\nEnter gender : ");
scanf(" %s",&add.gender);
printf("\nEnter grade :\t\t ");
scanf("%d",&add.grade);
printf("\nEnter section :\t\t ");
scanf("%s",&add.section);
printf("\nEnter address :\t\t ");
scanf("%s",&add.address);
printf("\nEnter email address :\t\t ");
scanf("%s",&add.email);
printf("\nEnter mobile no : \t\t");
scanf("%d",&add.mobile);

        fwrite(&add,sizeof(struct student),1,fp);

        printf("\n Do you want more:\t");
        scanf(" %c",&a);
 }while(a=='y'|| a=='Y');
```

```
        fclose(fp);
}

void search()
{
        struct student search;
        int found=0;
        int roll;
        FILE *fp;
        fp=fopen("std.txt","r");
        printf("\n**<SEARCH STUDENT>**\n");
        printf("enter roll:\t");
        scanf("%d",&roll);
        while(fread(&search,sizeof(struct student),1,fp))
        {
                if(search.roll==roll)
                {
                        found=1;
                printf("\n1. student name is %s",search.name);
                printf("\n2. student roll is %d",search.roll);
                printf("\n3. student id is %d",search.id);
                printf("\n4. student grade is %d",search.grade);
                printf("\n5. student mobile no is %d",search.mobile);
                printf("\n6. student email is %s",search.email);
                printf("\n7. student address is %s",search.address);
```

```
            printf("\n8. student gender is %s",search.gender);
            printf("\n9. student section is %s",search.section);
            printf("\n10. student stream is %s",search.stream);
            }
        }
        if(!found)
        {
            printf("\n \t.....Record not found.....\n");
        }
}

void del()
{
        struct student del;
        FILE *fp ;
        FILE *fp1;
        fp=fopen("std.txt","r");
        fp1=fopen("temp.txt","w");
        int roll;
        int found=0;
        printf("\n enter roll:");
        scanf("%d",&roll);
        while(fread(&del,sizeof(struct student),1,fp))
        {
            if(del.roll==roll)
```

```
            {
                found=1;
            }
            else
            {
                fwrite(&del,sizeof(struct student),1,fp1);
            }
        }
        fclose(fp);
        fclose(fp1);
        if(found)
        {
            remove("std.txt");
            rename("temp.txt","std.txt");
            printf("\n<<**{~RECORD DELETE %d~}**>>\n",roll);
        }
        if(!found)
        {
            printf("\n \t\tRECORD NOT FOUND\t\t\n");
        }
}

void update()
{
   int roll, found=0;
```

```
FILE *fp ,*fp1;

struct student update;
printf("UPDATE RECORD");
    printf("Enter roll of student to update: ");
scanf("%d",&roll);
fp = fopen("std.txt","r");
fp1 = fopen ("temp.txt", "w");
    while(fread(&update,sizeof(struct student),1,fp))
{
   if(update.roll==roll)
            {
            found=1;
            }
            else
            {
            fwrite(&update,sizeof( struct student),1,fp1);
    }

    }
    if(found==1)
    {
            update.roll=roll;
            printf("\n\t\tEnter Name : \t\t");
            scanf("%s",&update.name);
```

```
    printf("\n\t\tEnter id of student :\t\t ");
            scanf("%d",&update.id);
            printf("\n\t\tEnter grade of student : \t\t");
            scanf("%s",&update.grade);
            printf("\n\t\tEnter section of student : \t\t");
            scanf("%s",&update.section);
            printf("\n\t\tEnter address of student : \t\t");
            scanf("%s",&update.address);
            printf("\n\t\tEnter email:\t\t");
            scanf("%s",&update.email);
            printf("\n\t\t Enter gender: \t\t");
            scanf("%s",&update.gender);
            printf("\n\t\tEnter stream of student : \t\t");
            scanf("%d",&update.stream);
                    fwrite(&update,sizeof(struct student), 1, fp1);
    }

    fclose(fp);
fclose(fp1);
    if(found==1)
{
    remove("std.txt");
    rename("temp.txt","std.txt");
    }
printf("\n Press any key to continue.\n "); }
```

Conclusion

Student Management system can be used by educational institutions to maintain their students records easily. Achieving the objective is difficult using the manual system as the information is scattered, can be redundant, and collecting relevant information may be very time-consuming. All these problems are solved by this project.