## N.B.K.R Institute of Science and Technology

# Student

Management System



### **Team Members**

CSE -C

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# Introduction Student Management S

Student Management System C program uses structured programming concepts, to provide an organized and efficient way to handle student data within a console-based environment.

```
struct Student {
  char name[50];
char rollNumber[20];
   int age;
   float marks;
   int year;
   int semester;
struct Student students[100];
int count = 0;
void addStudent() {
   if (count >= 100) {
             f("Maximum student limit reached.\n");
          ("Enter name: ");
         f(" %[^\n]", students[count].name);
         f("Enter roll number: ");
         [(" %[^\n]", students[count].rollNumber);
         f("Enter age: ");
         [("%d", &students[count].age);
         f("Enter marks: ");
         f("%f", &students[count].marks);
         ("%d", &students[count].year);
          ("Enter semester (1 or 2): ");
         ("%d", &students[count].semester);
          f("Student added successfully.\n");
void displayStudents() {
   if (count == 0) {
             f("No students to display.\n");
    for (int i = 0; i < count; i++) {
           students[i].name,
            students[i].rollNumber,
            students[i].age,
            students[i].marks,
            students[i].year,
            students[i].semester
```

```
void searchStudent() {
             f("Enter roll number to search: ");
                     (students[i].rollNumber, roll) == 0) {
                                  : %s\n", students[i].name);
                     f("Roll Number: %s\n", students[i].rollNumber);
                                     %d\n", students[i].age);
                                    : %.2f\n", students[i].marks);
                                     %d\n", students[i].year);
                     ("Year
                     f("Semester : %d\n", students[i].semester);
            f("Student not found.\n");
  void deleteStudent() {
       char roll[20];
             ("Enter roll number to delete: ");
           if (strcmp(students[i].rollNumber, roll) == 0) {
                   students[j] = students[j + 1];
                for (int j = i; j < count - 1; j++) {
   students[j] = students[j + 1];</pre>
             f("Student not found.\n");
98 - void updateStudent() {
       char roll[20];
        for (int i = 0; i < count; i++) {
                      p(students[i].rollNumber, roll) == 0) {
                      f("Enter new name: ");
                      (" %[^\n]", students[i].name);
                      f("Enter new age: ");
                     f("%d", &students[i].age);
                     ("%f", &students[i].marks)
                      f("Enter new year (1-4): ");
                     [("%d", &students[i].year);
                      f("Enter new semester (1 or 2): ");
                      ("%d", &students[i].semester);
              f("Student not found.\n");
```

```
121 int main() {
        int choice;
        while (1) ·
            printf("\nStudent Management System\n");
            printf("1. Add Student\n");
            printf("2. Display Students\n");
            printf("3. Search Student\n");
128
            printf("4. Delete Student\n");
129
            printf("5. Update Student\n");
            printf("6. Exit\n");
            printf("Enter your choice: ");
            scanf("%d", &choice);
            while (getchar() != '\n'); // clear input buffer
134
            switch (choice) {
                case 1: addStudent(); break;
                case 2: displayStudents(); break;
                case 3: searchStudent(); break;
                case 4: deleteStudent(); break;
                case 5: updateStudent(); break;
                case 6:
                    printf("Exiting... Thank you!\n");
                    exit(0);
                default: printf("Invalid choice. Try again.\n")
```

# Sample output:

#### Student Management System

- 1. Add Student
- 2. Display Students
- 3. Search Student
- 4. Delete Student
- 5. Update Student
- 6. Exit

Enter your choice: 1

Enter name: Daniel

Enter roll number: 24hi108p

Enter age: 18

Enter marks: 78.70

Enter year (1-4): 1

Enter semester (1 or 2): 2

Student added successfully.

### Student Management System

- 1. Add Student
- 2. Display Students
- 3. Search Student
- 4. Delete Student
- 5. Update Student
- 6. Exit

Enter your choice:

Code link: https://onlinegdb.com/l9ss7cxrm

# Thank You