

# (Report)

*School Result Management System*



## All in One

School Management System



## Introduction

### **Description**

The main objective of the c project on School Result management system is to manage the details of Students, Courses and Results. The purpose of the project is to build an application program to reduce the manual work for managing the Students, Courses and Results. It uses the concept of relational database to establish links between the three aforementioned entities.

### **Scope**

The scope of the program is to provide a platform which makes an environment which is close to using forms in database and implements the following components on each entity.

**These five main components will work in my project;**

- 1) Deleting
- 2) Searching
- 3) Updating
- 4) Inserting
- 5) Viewing all Records

### **Objectives**

It is the user friendly application for school result management which reduces the burden and helps to manage all sections like Students and Courses etc. which improve the processing efficiency. The main Objectives of the School result management system is making schools and institutions computerized by creating neat work through minimizing or eliminating wasting of time as well as removing the resources such as papers for data saving since nowadays is paper based, decrease malfunctioned works by giving correct information on each student.

## **Features**

### **Managing records of Students:**

Functions
Add [ insert() ]
View [ view() ]
Edit [ update() ]
Search [ search () ]
Delete [ del() ]

```
STUDENTS
1 : Search
2 : Update
3 : Delete
4 : View
5 : Insert
6 : Back
Choose an option :
```

### Managing records of Courses:

Functions
Add [ addcour() ]
View [ courseview() ]
Search [searchcour() ]
Delete [ delcour() ]

```
RESULTS
1 : Update
2 : View
3: Set a new criteria
4 : Back
Choose an option :
```

### **Managing records of Results:**

Functions
View [ viewcri() ]
Set new criteria [ newcri() ]
Edit [ edit() ]

```
Courses
1 : View
2 : Add a new course
3 : Delete a course
4 : Search for a course
5 : Back
Choose an option :
```

### **Implementation;**

**We used relational database model and made three tables in database which are following**

- 1) Students (We can add, update, delete, view, search students)
- 2) Courses (We can add, delete, search and view)
- 3) Results (We can set a new criteria, view current criteria and edit a specific range)

Then we made a STUDENT\_RESULTS file where all data would be compiled.

## **Technical Details;**

### **FRONTEND;**

At the front end the user is displayed a total of 4 menus which are as follows ;

- 1) Main menu
- 2) Student menu
- 3) Result menu
- 4) Courses menu

Then the user is prompted to enter the operation he wants to carry out and enters the required information.

### **BACKEND;**

at the backend all the data is being saved and read from the following 4 files;

- 1) STUDENTS.txt
- 2) RESULTS.txt
- 3) COURSES.txt
- 4) STUDENTS\_RESULTS.txt

all the data is saved into the aforementioned files and it is retained even after the program has closed so that it can be accessed the next time the program is run.

### **Manual;**

To operate this program first all the students need to be added in the students file through the program which can later be edited, deleted or viewed. Then the result criteria needs to be set which otherwise would be the following by default;

Marks range: Grade

100 - 90 : A

90 - 80 : B

80 - 70 : C

70 - 60 : D

60 - 50 : E

50 - 40 : F

40 - 30 : F  
30 - 20 : F  
20 - 10 : F

Then the courses can be added which can also be later viewed, edited and added. After that using the relational database model data from all three files will be compiled in one single file.

## FLOWCHART

# CONCLUSION

There were certain things that we learned during the creation of this project such as using random accessing for files And the sscanf() function which greatly helped us in creating search functions. This program can surely be put to commercial use and educational institutions can greatly benefit from it.

