

PROFESSIONAL TRAINING REPORT
at
Sathyabama Institute of Science and Technology
(Deemed to be University)

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Technology in Information Technology

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SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
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DEPARTMENT OF INFORMATION TECHNOLOGY

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of
BARANIDARANG.T (Reg. No: 38120021) who carried out the project entitled
"STUDENT REPORT MANAGEMENT USING CPP" under my supervision
from June 2021 to November 2021.

Internal Guide

Name of the Guide

Head of the Department

Submitted for Viva voce Examination held on _____

Internal Examiner

External Examiner

DECLARATION

I, **BARANIDARAN G T** hereby declare that the project report entitled **STUDENT REPORT MANAGEMENT USING CPP** done by me under the guidance of **Dr. L.MARY GLADENCE MA'AM** is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering Degree in Computer Science and Engineering.

DATE:

PLACE:

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ACKNOWLEDGEMENT

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ABSTRACT

Student report card system project in C++ is a simple console application built without the use of graphics. In this project, users can perform typical report card related functions like adding a new student record and displaying, modifying, editing and deleting it. File handling has been effectively used to perform all these. This project will teach you how to use file handling in C++, add, read, display, search, modify and delete record from file.

The source code is complete, totally error-free and around 400 lines. I haven't included the source code for copy/paste here as it is a bit long; you can directly download it from the link below. Also, you can use the description provided here as a general abstract of this project.

Student report card system is a very simple project that runs with just five header files. The conio.h header file is required to compile the source code in Turbo C++; it is not required in Code::Blocks. Also, in order to make the project simple and easy to understand and analyze, graphics has not been used in this project. Here, is the header files required for this project

Report card management system is a C++ project. In this project, you can keep the student's exam report card that too in both grade form and in percentage form. Here, you can view this report card from three perspectives i.e. from the teacher's view, student's view and last from the public domain. This project has sort of method function which sorts the results and marks. From the student and public view, they can view the records.

LIST OF ABBREVIATIONS

	ABBREVIATION	EXPANSION
•	CPP	C++
•	OOPS	Object Oriented Programming

CHAPTER -1

I. INTRODUCTION

The project Student Report Card Management is aimed to store efficiently and retrieve student examination reports.

This project in C++ is a simple console application built without any graphical Interface. In this project, users can perform typical report card related functions like adding a new student record and displaying, modifying, editing and deleting it. File handling has been effectively used to perform all these. This project will teach you how to use file handling in C++, add, read, display, search, modify and delete record from file. The key features and the functions used for the Student Report Card Management are:

1. Create student report card record: This feature creates a new student record containing his marks. `void write_student();` function writes a record in a binary file. For this the information to be provided are the name and roll no. of the student, and the marks obtained by him/her in 5 subjects Computer Organization and Architecture and Computer Oriented Statistical Methods.

2. Read all students report card record: The `void display_all();` function in this student report card management system project in C++ has been used for this feature. It shows the progress report of all the students added in file. This feature displays the roll no. and name of all the students, the marks obtained by them in 5 subjects – OOPs, Data Structures, Analog and Digital Electronics, Computer Organization and Architecture and Computer Oriented Statistical Methods along with the percentage and grade of each student.

3. Read specific students report card feature: This feature is same as the one explained above, except it shows the progress report and relevant data related to a particular student. `void display_sp(int)` is used for this purpose.

4. Display the entire student's grade report:

The grade report is displayed in a tabular form with roll no. and name of the students, marks achieved in the five subjects, and the grade and percentage obtained by them. `void class result();` is thus used.

5. Modify student's report card records:

`Void modify_student(int);` function is used to edit the report card record of a particular student. For this, the name and roll no. of the student is sought. Upon successful modification, the of student is found in file, it displays the message "Record not

6. Delete student record: `void delete_student(int);`

function deletes the report card record of a particular student; it first of all asks for the name and roll no. of the student whose record is to be deleted

CHAPTER-2

Aim and Scope of the present investigation

The present project is aimed to be create a C++ program that can store, retrieve, display, insert, delete and modify a student's marks in their subjects. The program is completely menu driven without any graphical interface. The data is stored in a binary file for future reference.

In future one change can be done by adding the fingerprints of the students in which the record is created. And one more major change which can be done in this project is that to add snaps of the students of which the record is created and entered. We can also add and subtract details of the individual.

CHAPTER – 3

Experimental or materials and methods; algorithms used.

Algorithms

Step 1: start

Step 2: read marks or Percentage

Step 3: if marks ≥ 80 then grade =A, go to step 7

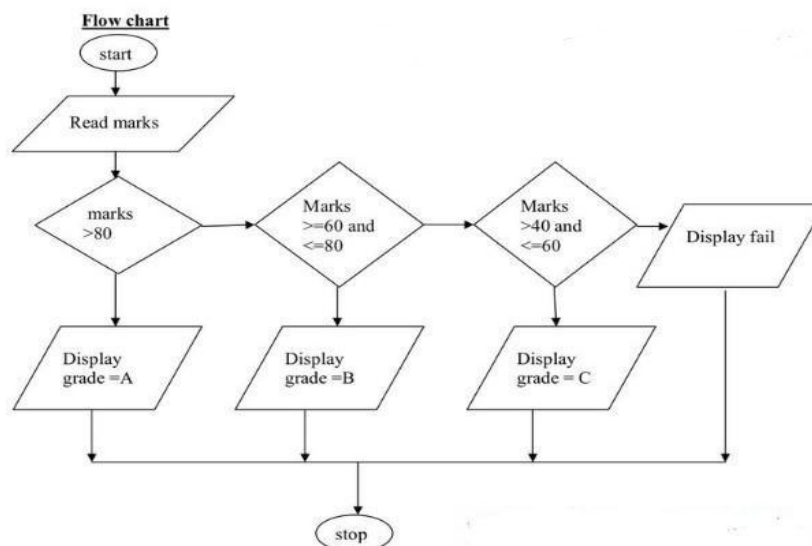
Step 4: if marks ≥ 60 and marks ≤ 80 then grade = B, go to step 7

Step 5: if marks ≥ 40 and marks ≤ 60 then grade = C go to step 7

Step 6: display failed

Step 7: display grade.

Step 8: stop.



CHAPTER – 4

Results and Discussions Performance Analysis

```
ENTRY MENU
```

```
1.CREATE STUDENT RECORD
```

```
2.DISPLAY ALL STUDENTS RECORDS
```

```
3.SEARCH STUDENT RECORD
```

```
4.MODIFY STUDENT RECORD
```

```
5.DELETE STUDENT RECORD
```

```
6.BACK TO MAIN MENU
```

```
Please Enter Your Choice (1-6)
```

```
Enter Roll Number Of Student : 147917
```

```
Roll number of student : 147917
```

```
Name of student : ghanendra
```

```
Marks in Physics : 5151
```

```
Marks in Chemistry : 141
```

```
Marks in Maths : 41
```

```
Marks in English : 41
```

```
Marks in Computer Science :41
```

```
Percentage of student is :1083.00
```

```
Grade of student is :A
```

```
Roll number of student : 147917
```

```
Name of student : Ghanendra
```

```
Marks in Physics : 89
```

```
Marks in Chemistry : 76
```

```
Marks in Maths : 48
```

```
Marks in English : 74
```

```
Marks in Computer Science :92
```

```
Percentage of student is :75.80
```

```
Grade of student is :A
```

The above program is tested and it is working properly without any flaw. The program involves much type of conversions. These conversions have to be done carefully.

There are mainly types of testing.

- 1. System testing**
- 2. Integration testing**

System testing involves whole testing of program at once and integration testing involves the breaking of program into modules and then test.

CHAPTER – 5

Summary and Conclusion

This software is efficient in maintaining student's details and can easily perform operations on student's records. This software can also reduce the workload of the teachers in school as all the details are stored in the computer system and whenever the detail marks of the student needed it can be searched and displayed on the screen.

In future this system can launch on a web portal for easy online entry of the student details where their parents can login and check the marks and download the reports of their respective wards.

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