

MINI PROJECT

ON

**STUDENT REPORT CARD SYSTEM**

# NAME: G. Srinidhi

# SF\_ID: 104450

# **Introduction:**

The main concept of this project is that initially, in educational institutions they used to do a lot of paper work to issue the students’ performance in terms of report cards. It was a huge task because it is a time consuming process and lot of hand written work on the paper/card has to be done by the individual faculty every year and even calculations are also has to be done for each and every student. Thus errors were bound to happen, in that case it has to be overwritten which looks quite messy and that paper work has to be carried further throughout the year. In this project we will digitize the content in a system where we will create a report card that stores the marks of each student until we tend to delete it and we can also modify it if it goes wrong, displays the overall class performance as well as the respective student’s performance. In paper work, instead of searching a particular student data by referring through all of them simply we can search them by their respective names and roll number.

# **Problem Statement:**

This project STUDENT REPORT CARD SYSTEM includes facilities of storing the results of each subject of respective student, displaying the marks, making an entry/edit of the individual student results by their name and respective roll numbers, search and deletion of student information which is stored in the records.

# **Description:**

Student Report Card as the name suggests that it will record the marks of the individual students by making an entry of the student i.e., creating a database of the students with their names, roll numbers and their marks. It can also modify or edit the marks of the students and display them. Then we can delete the marks of the students as well. Hence it also performs the operations such as Create, Edit, Search, Display, Delete the marks of the individual students.

In this project we will be creating the main menu where it consists of three options namely,

**MAIN MENU:**

1. **Result menu**
2. **Entry/Edit menu**
3. **Exit**

The Result menu consists of marks of the individual students as well over all class performance; Entry/Edit menu will create or modify the student’s marks and Exit menu will exit from the

system. We have to choose either of the above options to enter into that particular segment i.e., by choosing the numbers from one to three.

**RESULT MENU:**

1. **Class Result**
2. **Student Report Card**
3. **Back to Main Menu**

Class Result: The class result option will display the list of students of a particular class or a section in a table format with columns as Serial number, Roll number, Name, Subjects and Percentage of marks and Pass/ Fail option.

Student Report Card: In student report card option it will display the particular student report card with full details. Initially it will ask the name and the roll number and it displays that particular student marks.

Back to Main Menu: This option indicates that it will go to the previous menu.

**ENTRY/EDIT MENU:**

1. **Create Student Marks Record**
2. **Display Student Marks Record**
3. **Search Student Marks Record**
4. **Modify Student Marks Record**
5. **Delete Student Marks Record**
6. **Back to Main Menu**

To create the data base of the students. Therefore, we will choose second option i.e., Entry/Edit option where we can enter the marks of the students and details such as name and roll number. The Entry/Edit menu consists of the following sub options namely,

Create Student Marks Record: By choosing this option we have to create the database or list of students by entering their name, roll numbers and marks.

Display Student Marks Record: This option will display the particular student marks details

Search Student Marks Record: To search any of the student’s marks from the database we have to choose the search option.

Modify students record: To modify the student marks from the database we have to this option.

Delete Student Marks Record: If we want to delete the student marks details we will select the delete option.

Back to Main menu: It will return to the previous menu i.e., main menu.

# **EXIT:**

This option will be chosen if we want to exit from the Report Card System.

# **REQUIREMENTS:**

Software Used:

* Code::Blocks IDE Version 20.3 using GCC Compiler

Software Requirements:

* Windows 8 or higher version
* Visual Studio/Code::Blocks Software

Hardware Requirements:

* Processor Speed: 1.7 GHz
* Minimum Hard disk space: 10 MB
* RAM: 512 MB or higher
* Intel/Pentium Powered System

# **TEST PLAN:**

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| --- | --- |
| **S.no** | **Test Objective** |
| 1 | To check, the program is able to display all the folders and their contents by choosing the options. |
| 2 | To check, the program is able to exit from the current folder to previous folder by choosing exit option. |
| 3 | To check, the program is able to print all the marks of the individual student by entering the roll number and name of the respective student. |
| 4 | To check, the program is able to print RECORD NOT EXIST option if incorrect inputs are given, |
| 5 | To check, the program is able to create, delete, modify, search and delete the data while choosing that particular options. |

# **TEST CASES:**

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| --- | --- | --- | --- |
| **Test cases** | **Test case description** | **Expected Results** | **Pass/Fail** |
|  | To check, if the user was able to see the welcome page with title as STUDENT REPORT CARD SYSTEM | Welcome page with title displayed as STUDENT REPORT CARD SYSTEM | Pass |
|  | To check, if the user was able to go to the main menu page after pressing enter button | MAIN MENU:   1. Result Menu 2. Entry/Edit menu 3. Exit | Pass |
| Main Menu | To check, if the user was able to see the main menu folders | MAIN MENU:   1. Result Menu 2. Entry/Edit menu 3. Exit   Please select your option(1-3): | Pass |
|  | To check, if the user was able to choose the folders by entering the respective folder number from main menu i.e.,(1/2/3) | MAIN MENU:   1. Result Menu 2. Entry/Edit menu 3. Exit   Please select your option(1-3):1/2/3 | Pass |
|  | To check, if the user was able to see the respective folder (sub folder) after choosing that particular folder | Should be able to display all the subfolders after choosing the options i.e.,1/2/3 | Pass |
| Result menu | To check, if the user was able to see the result menu folders | Result menu:   1. Class Result 2. Student Report card 3. Back to main menu | Pass |
|  | To check, if the user was able to choose the folders by entering the respective folder number from result menu i.e.,(1/2/3) | Result menu:   1. Class Result 2. Student Report card 3. Back to main menu   Please select your option(1-3):1/2/3 | Pass |
|  | To check, if the user was able to see the contents of the respective folder (sub folder) after choosing the folder | Should be able to display all the subfolders after choosing the options i.e.,1/2/3 | Pass |
|  | To check, if the user was able to see the results of the total students by choosing the class result folder | Should be able to display all the student names, marks, total, percentage and status of the individual student | Pass |
|  | To check, if the user was able to see the report card of the respective student by giving input as roll number of the student by choosing the report card folder | Please Enter the Roll number:805  Name of student: Srinidhi  Marks in MPDSP: 79  Marks in ACN: 71  Marks in ESD: 82  Marks in DIVP: 74  Marks in Project: 88  Total marks of student are: 394  Percentage of student is: 78.80  Status of student is: P | Pass |
|  | To check, if the user was able to see RECORD NOT FOUND option if incorrect roll number was given | Please Enter the Roll number:850  RECORD NOT EXIST | Pass |
|  | To check, if the user was able to exit from the current result menu and going to previous menu | After pressing “ENTER” option is should move to the previous menu | Pass |
| Entry/Edit menu | To check, if the user was able to see the entry/edit folders | Entry/Edit menu:   1. Create Student Marks Record 2. Display Student Marks Record 3. Search Student Marks Record 4. Modify Student Marks Record 5. Delete Student Marks Record 6. Back to Main Menu | Pass |
|  | To check, if the user was able to choose the folders by entering the respective folder number from result menu i.e.,(1/2/3/4/5/6) | Entry/Edit menu:   1. Create Student Marks Record 2. Display Student Marks Record 3. Search Student Marks Record 4. Modify Student Marks Record 5. Delete Student Marks Record 6. Back to Main Menu   Please Select your Choice:(1-6) | Pass |
|  | To check, if the user was able to create the data base of the student marks by entering the roll number, name, marks. | Please enter the new details of the student  Enter the roll number of the student:805  Enter the Name of student: Srinidhi  Enter the Marks in MPDSP: 79  Enter the Marks in ACN: 71  Enter the Marks in ESD: 82  Enter the Marks in DIVP: 74  Enter the Marks in Project: 88  STUDENT DATA HAS BEEN RECORDED | Pass |
|  | To check, if the user was able to see or display of student marks( including total marks, percentage and status) by giving inputs as name and roll number of the student else if the incorrect roll number was given it should display RECORD NOT EXIST | Should be able to display all the records of the students by pressing ENTER option for each record  (ELSE)  Please Enter The roll number:850  RECORD NOT EXIST | Pass |
|  | To check, if the user was able to modify the data base of the student marks by giving inputs as name and roll number of the student else if the incorrect roll number was given it should display RECORD NOT EXIST | Should be able to modify the student record, initially it will display previous record ten it will ask to modify them  (ELSE)  Please Enter The roll number:850  RECORD NOT EXIST | Pass |
|  | To check, if the user was able to search the data of the particular student marks giving inputs as name and roll number of the student else if the incorrect number was given it should display RECORD NOT EXIST | Please Enter the Roll number:805  Name of student: Srinidhi  Marks in MPDSP: 79  Marks in ACN: 71  Marks in ESD: 82  Marks in DIVP: 74  Marks in Project: 88  Total marks of student are: 394  Percentage of student is: 78.80  Status of student is: P  (ELSE)  Please Enter The roll number:850  RECORD NOT EXIST | Pass |
|  | To check, if the user was able to delete the data of the particular student marks giving inputs as name and roll number of the student else if the incorrect number was given it should display RECORD NOT EXIST | Please enter the student roll number you want to delete:805  RECORD DELETED. .  (ELSE)  Please Enter The roll number:850  RECORD NOT EXIST | Pass |
|  | To check, if the user was able to exit from the current entry/exit menu | Should be able to exit from the entry/edit menu by entering 6 option | Pass |
| Exit | To check, if the user was able to exit from the student report card system | Should be able to exit from the entry/edit menu by entering 3 option | Pass |

# **EXPECTED RESULTS:**

* The Student Report card system has to show the content of the individual report card and also it has to display the overall performance of the students in a batch.
* It also has to perform the file handling operations such as create, modify, search delete operations by providing the inputs of the students by using structure and switch case.

# **CONCLUSION:**

The main moto of this project is to create the Student Report Card System using c programming language with the help of codes block software which is user friendly so that errors can be avoided. The concepts such as structures and switches are used. The Records of the student’s marks can be recorded. They can be accessed at any time and can be modified.