Project Documentation

Project Name: Student report card system

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3.Intoduction

An individual report card of each student has to be displayed and printed at a keystroke according to any selected format. An important aid for teachers to judge their students' performance. Result printing by totals for a class by individual subject marks for a class. Student performance in a particular subject or all the subjects must be expressed. Performance of Student of various classes can be easily compared.

3.1 Abstract:

The Project Student Report Card Processing Software is a complete multi-user Software - The Scorer accept the attendance, result and remarks and then processes the performance of students and subsequently produces their report cards and other analysis charts.

This project aimed at providing a school to analyze the student performance by generating reports like Attendance, Progress reports and Teacher remarks reports etc.

3.2 Key Features:

- All the Record can be Easily Accessed.
- New Record can be Easily Added.
- Record can be Easily Updated.
- Record can be Easily Deleted.
- Subject Handling
- Attendance Handling
- Result Handling
- Record can be Saved Easily and used for future Ease
- Teachers can be Easily managed
- Report Card Can Be Easily Generated

4.Advantages

- User friendliness is provided in the application with various controls.

- The system makes the overall project management much easier and flexible.

- It can be accessed easily.

- Vast amount of data can be stored.

- There is no risk of data mismanagement at any level while the project development is under process.

- Relationship between the administrator, owner/developer and subcontractor can be maintained very easily.

- It provides high level of security using different protocols like password Login etc.

- It can be very helpful to prevent miscalculations and management.

- It can generate more efficient report card then a typical report card

- It can help the teachers to save their time

- It can manage easily that new and old record can be easily accessed, updated and removed.

- Better Management of Data.

- Provide Deeper Insights to Parents.

- Save cost.

4.2 System Limitations

- It can maybe unable to keep the unique record such as dress codes, fees structures and timetables.

- It can maybe difficult for some users to understand the use of the tools.

- Administrator must need to manage system efficiently else It will lead to a very big mismanagement.

- You must need to hire System handling staff.

- It may be cannot handle the requirements of the user.

5.Users/ Module

The Student Report Card Processing consists of 3 users or modules; they are:

- Administrator

- Student

- Staff

5.1 Administrator Module

1. The Administrator Should Login into the system with unique his/her username and password.

2. If the username and password is valid then he can gain the access to the system.

3. Admin views Teachers Personal details.

4. Admin updates Teachers Personal details.

5. Admin views Students Personal details.

6. Admin updates student Personal details.

7. Admin views his/her own Personal details.

8. Admin updates his/her Personal details.

9. Admin views attendance of students.

10. Admin updates attendance of students

11. Admin views Results of students.

12. Admin updates Results of students.

13. Admin views Report Cards.

14. Admin updates Cards.

15. Admin view all the application.

16. Admin can manage All the subjects.

The Administrator can do the following actions

1. Login

2. Admin Actions

    1. Views personal details

    2. updates schedules

    3. views reports

    4. updates attendance of students

3. Logout

5.2 Student Module

1. The Teachers should login into the system with unique her/his username and password.

2. If the user name and password are valid then he can gain access to the system.

3. Techers views students' Personal details.

4. Teachers views his/her own Personal details.

5. Teachers updates his/her Personal details.

6. Teachers views attendance of students.9

7. Teachers views Results of students.

8. Teachers views Report card.

9. Teachers can add new Students.

10. Teachers can add new Reports Cards.

The Teacher can do the following actions

1. Login

2. Staff Actions

1. views personal details

2. views attendance

3. view results

3. Log out

5.3 Students Module

4.4 Student Module

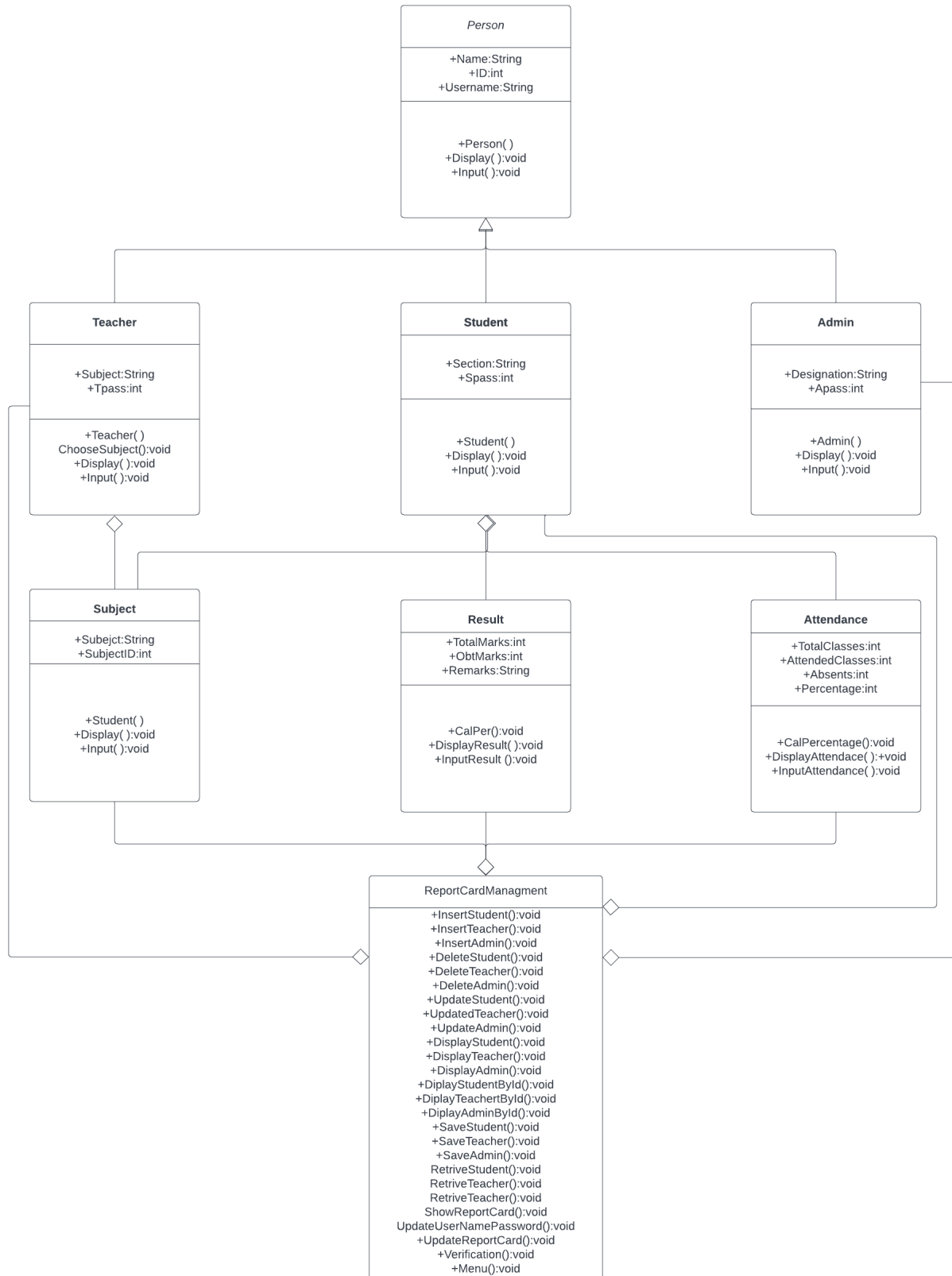**The functionalities of Student are**

1. The Student should login into the system with unique her/his username and password.

2. If the user name and password are valid then he can gain access to the system.

3. Student views his/her own Personal details.
4. Student views his report card.
5. Student views attendance of students.
6. Student views Results.
7. Student can submit application or report a problem.

The Student can do the following actions:

1. Login

2. Student Actions

1. views attendance

2. views results

3. View report card

3. Log out

6.System Design

6.1. UML DIAGRAM

Person

+Name:String
+ID:int
+Username:String

+Person( )
+Display( ):void
+Input( ):void

Teacher

+Subject:String
+Tpass:int

+Teacher( )
ChooseSubject():void
+Display( ):void
+Input( ):void

Student

+Section:String
+Spass:int

+Student( )
+Display( ):void
+Input( ):void

Admin

+Designation:String
+Apass:int

+Admin( )
+Display( ):void
+Input( ):void

Subject

+Subejct:String
+SubjectID:int

+Student( )
+Display( ):void
+Input( ):void

Result

+TotalMarks:int
+ObtMarks:int
+Remarks:String

+CalPer():void
+DisplayResult( ):void
+InputResult ():void

Attendance

+TotalClasses:int
+AttendedClasses:int
+Absents:int
+Percentage:int

+CalPercentage():void
+DisplayAttendace( ):+void
+InputAttendance( ):void

ReportCardManagment

+InsertStudent():void
+InsertTeacher():void
+InsertAdmin():void
+DeleteStudent():void
+DeleteTeacher():void
+DeleteAdmin():void
+UpdateStudent():void
+UpdatedTeacher():void
+UpdateAdmin():void
+DisplayStudent():void
+DisplayTeacher():void
+DisplayAdmin():void
+DisplayStudentById():void
+DiplayTeachertById():void
+DiplayAdminById():void
+SaveStudent():void
+SaveTeacher():void
+SaveAdmin():void
RetriveStudent():void
RetriveTeacher():void
RetriveTeacher():void
ShowReportCard():void
UpdateUserNamePassword():void
+UpdateReportCard():void
+Verification():void
+Menu():void

6.1.1 UML EXPLANATION

- The Student class is inherited from the Person Class as it shows that a Student is a Person.
- The Teacher class is inherited from the Person Class as it shows that a Teacher is a Person.
- The Admin class is inherited from the Person Class as it shows that a Admin is a Person.
- The Teacher is aggregated with Subject which shows that a Teacher has a Subject.
- The Student is aggregated with Subject which shows that a Student has Subjects.
- The Student is aggregated with Result which shows that a Student has a Result.
- The Student is aggregated with Attendance which shows that a Student has an Attendance.
- The ReportCardManagment has Aggregation with Student, Teacher, Admin, Subject, Attendance, Result which shows that the ReportCardManagment has subject, attendance, result, teacher, admin ,student.

6.2 STUDENT REPORT CARD SYSTEM UI/MENU

Welcome to Student Report Card Management

Login Portal

1) Press '1' to Login

Enter Your Username ---------

Enter Your Username----------

2) Press '2' to Exit

Enter Your Choice _____

YOU LOGIN AS A 'Student'

1. Press 1 to view your Basic student information
2. Press 2 to view your Student report card
3. Press 3 to Report a problem or application
4. Press 4 to view teachers staff and subjects
5. Press 5 to return to Login Portal
   Enter Your Choice_____

Enter Your Choice_____

For 1 ➡

YOUR NAME IS _____

YOUR SECTION IS_____

YOUR Student id is _____

For 2 ➡

Your Attendance is _____%

Total Absents Are_____

Classes you Attended are _____

Your Result is_____

Your Exams Percentage is_____

Teachers Remarks_____

For 3 → PLEASE ENTER YOUR REMARKS _____

For 4 →

The Subjects Are:

1._____

2._____

The Teachers Staff is as Follow:

1.MR/MS_____ is _____ Teacher

You Login as a 'Teacher'

1. Press 1 to view your basic information
2. Press 2 to enter student basic information
3. Press 3 to enter student report card
4. Press 4 to view all the student
5. Press 5 to view student by id
6. Press 6 to Save All the Student Data
7. Press 7 to view all the   application and reports
8. Press 9 to return to Login Portal
   Enter Your Choice_____

For 1 →

Teacher NAME IS _____

Teacher Subject IS_____

 Teacher id is _____

Teacher Username is_____

Teacher Password is_____

For 2 →

Enter Student NAME _____

Enter Student Section_____

Enter Student id _____

Student Username is_____

Student password is_____

For 3 →

Enter The Attendance

Enter Total Absents _____

Enter Classes Attended _____

Enter Result _____

Enter Your Remarks Remarks_____

For 4 →

Student 1.

Student NAME IS _____

Student SECTION IS_____

Student id is _____

Student Username is_____

Student password is_____

Student 2.

Student NAME IS _____

Student SECTION IS_____

Student id is _____

For 5 →

Enter Student id you want to search_____

Student NAME IS _____

Student SECTION IS_____

 Student id is _____

Student Username is_____

Student password is_____

For 7 →

1. Report /Application is:

_____

_____

2. Report /Application is:

_____

_____

You Login as a Admin

1. Press 1 to view your Infromation
2. Press 2 to view all the students
3. Press 3 to search student
4. Press 4 to view all teachers
5. Press 5 to view teacher by id
6. Press 6 to insert new student
7. Press 7 to insert new teacher
8. Press 8 to view all the report card
9. Press 9 to view report card by id
10. Press 10 to delete student
11. Press 11 to delete teacher
12. Press 12 to Save All the Student Data
13. Press 13 to Save All the Teacher Data
14. Press 14 to Retrieve Data from File
15. Press 15 to view all the report and application
16. Press 16 to Update password and Username
17. Press 17 to return to the login portal

Enter Your Choice_____

For 1 ➡

Your NAME IS _____

Your Designation IS_____

Your id is _____

Your Username is_____

Your password is_____

Student 1.

Student NAME IS _____

Student SECTION IS_____

Student id is _____

Student Username is_____

Student password is_____

For 2 ➡

Student 2.

Student NAME IS _____

Student SECTION IS_____

Student id is _____

Enter Student id you want to search_____

Student NAME IS _____

Student SECTION IS_____

For 3 ➡

 Student id is _____

Student Username is_____

Student password is_____

Teacher 1.

Teacher NAME IS _____

Teacher Subject IS_____

Teacher id is _____

For 4 ➡

Teacher Username is_____

Teacher password is_____

Teacher 2.

Teacher NAME IS _____

Teacher Subject IS_____

Teacher id is _____

Teacher Username _____

For 5 →

Enter Teacher id you want to search_____

Teacher NAME IS _____

Teacher Subject IS_____

Teacher id is _____

Teacher Username _____

Teacher password _____

For 6 →

Enter Student NAME _____

Enter Student Section_____

Enter Student id _____

Enter Username _____

Enter password _____

For 7 →

Enter Teacher NAME _____

Enter Teacher Subject_____

Enter Teacher id _____

Enter Username _____

Enter password _____

Report Card 1.

Your Attendance is _____%

Total Absents Are_____

Classes you Attended are _____

Your Result is_____

Your Exams Percentage is_____

Teachers Remarks_____

For 8 ➡

Report Card 2.

Your Attendance is _____%

Total Absents Are_____

Classes you Attended are _____

Your Result is_____

Your Exams Percentage is_____

Teachers Remarks_____

For 9 ➡

Enter the id of Student you want to delete _____-_____

Your Attendance is _____%

Total Absents Are_____

Classes you Attended are _____

Your Result is_____

Your Exams Percentage is_____

Teachers Remarks_____

For 10 ➡

Enter Student id you want to delete_____

The Student has been Deleted successfully

For 11 ➡️

Enter Teacher id you want to delete_____

The Student has been Deleted successfully

For 12 ➡️

The Students Data has been Saved successfully

For 13 ➡️

The Teacher Data has been Deleted successfully

For 14 ➡️

1.Press 1 to retrieve Student Data

2.Press 2 to retrieve Teacher Data

For 15 ➡️

1. Report /Application is:

_____

_____

2. Report /Application is:

_____

_____

For 16 ➡️

1.Press 1 to Update Student Username and Password

  a. Enter the id of Student ---------

    Enter new User Name and Password_____-

2. Press 2 to Update Teacher Username and Password

  a. Enter the id of Teacher ---------

    Enter new User Name and Password_____-

2. Press 3 to Update Your Username and Password

  a. Enter Your id ---------

    Enter new User Name and Password_____-

8.CONCLUSION

This Software also reduce the work load of management. From a proper analysis of positive points and contents on the document, it can be safely concluded that the System is a highly efficient. This application is working properly and meeting to all user requirements. This component can easily handle a large amount of data. The documents can may or may not be explain the complete working of system. This system has its advantages and disadvantages but it can surely help with record storage system. We don't have to worry about the misplacing of record. All the records are stored in computer system and whenever the details report of student needed it can be searched and displayed on screen.

9. FUTURE ENHANCEMENTS

In, future this system can launch on a web portal for easy online entry of students details and marks and student and their parents can login and check the marks and download the reports of their children's. The system is able to add new subjects and teachers as the record can be changed according to the requirements of institute. The system is able to add some of the new functions and attributes. This can also be enhanced by giving the user more services such as aggregate calculation etc.,