1. **INTRODUCTION**
2. **Introduction of the System**

The Project ***Student Result Processing System*** Software is a complete multi-user Web-Application. The admin accepts and then processes the scores 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 Merit list, Progress reports as key features to reduce manual analysis.

1. **Project Title**

"Student Result Processing System”

1. **Category**

Web Application

1. **Overview**

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 students to judge their performance. Merit list printing by totals for a class by individual subject marks for a class. Student performance in a particular exam or all the exams must be expressed.

1. **Background**
2. Introduction of the Company
3. Brief note on Existing System

In the manual student result processing system, all the database commands have to be typed by the users. This procedure is very time consuming, and is limited to a single system. If someone want to get information about a particular subject score, student’s performance or any other content related to college, they have to contact the administrator handling the system.

In the proposed system, there are various controls to provide user friendliness. Details can be accessed over the internet, and huge amount of data, records and information can be stored. It provides high level of security, and there is no risk of data mismanagement. The overall result processing system is easier to use, flexible and with more features.

1. Objectives of the System

* The main objective of the system is to provide examination result to the student in a simple and user-friendly way.
* The privileges that are provided to student are to read his/her result and to compare and view his/her performance using graphical charts by providing user id and password for secure login and in case of new student the registration is done by the administrator (office) and the user id and password will be provided by the administrator.
* The privileges that are provided to staff are to read students results and to provide remarks on his/her performance by providing user id and password for secure login and in case of new staff the registration is done by the administrator (office) and the user id and password will be provided by the administrator.
* The privileges that are provided to administrator are to view and update the details of students and staff by providing the admin id and password for secure login.

1. Scope of the System

In “Student Result Processing System” there are various controls to provide user friendliness. Details can be accessed over the internet, and huge amount of data, records and information can be stored. It provides high level of security and there is no risk of data mismanagement. The overall result processing system is easier to use, flexible and with more features.

1. Structure of the System

* Home Page
  + - About
    - Contact
    - Student Login
    - Staff Login
* Login
* Staff Page
  + - Home
    - Log Out
    - Dashboard
    - Results
    - Performance
* Student Page
  + - Home
    - Log Out
    - Dashboard
    - Results
    - Performance

Modules

Administrator

Dashboard: Administrator has a dashboard where he/she can manage all the functionality at one place.

Add or Remove User: He/she can add or remove any user or users i: e staff or students.

View Student Details: He/she can view the details of staff and students.

Update Student Details: He/she can update the details of students.

View Staff Details: He/she can view the details of staff.

Update Staff Details: He/she can update the details of staff.

Update Examination Result Details: He/she can update the details of examination results.

Staff

Login: Staff is provided with separate login page where he/she has to enter username and password that is provided to them by the Administrator. This module is for user authentication.

Dashboard: Staff has a dashboard where he/she can manage all the functionality at one place.

View Student Details: The staff can view the details of each student.

Check Examination Result: He/she can check the examination results of the students.

Check Student Performance: He/she can analyze the performance of each student through graphical charts.

Give Remarks: He/she can give remarks to students performance which can be viewed by the students.

Student

Login: Students are provided with separate login page where he/she has to enter username and password that is provided to them by the Administrator. This module is for user authentication.

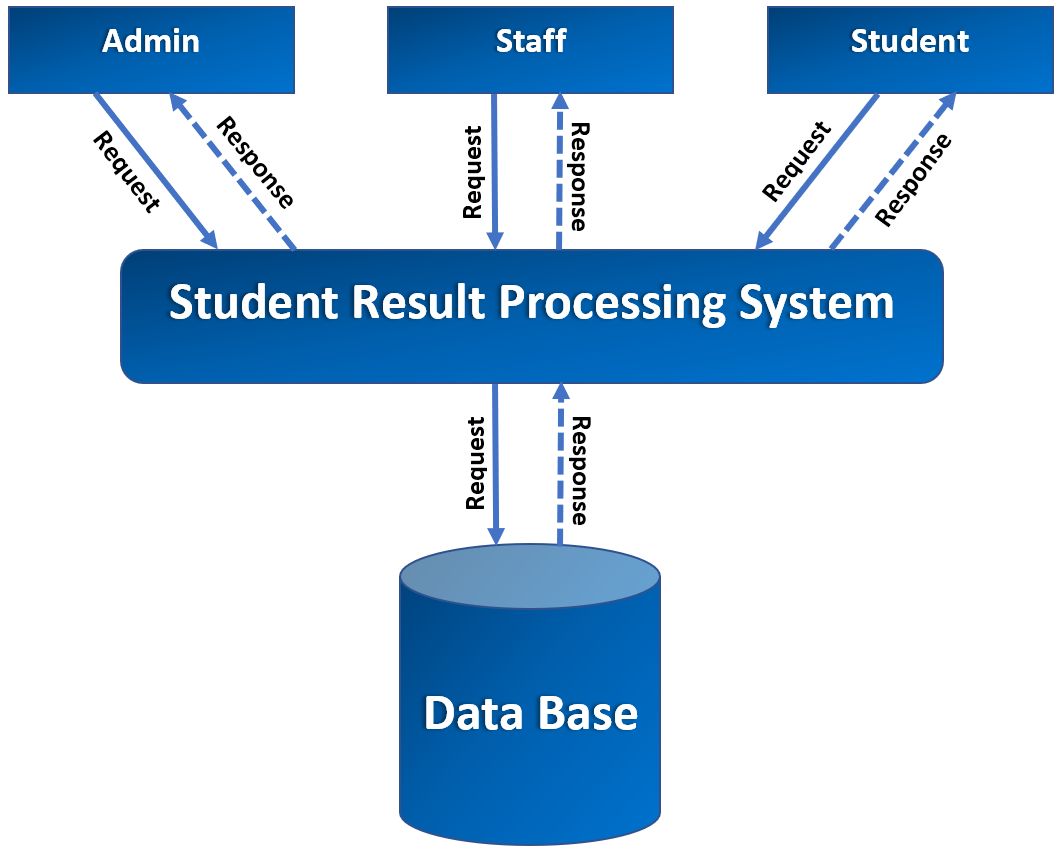
Dashboard: Student has a dashboard where he/she can manage all the functionality at one place.

View Personal Details: He/she can view their personal details.

Check Examination Result: He/she can check their examination results including the remarks provided by the staff.

Check Performance: He/she can analyze their performance through graphical charts.

1. System Architecture



1. End Users

Administrator Role: Manipulates all the records. Provides authorization to the users (students/staff). An admin can add or remove users (students/staff). He/she can view and update the personal details of the students and staff. He/she can view and update the examination results of students.

Staff Role: Provides remarks to the student’s performance. He/she can view their own personal details and the personal details of student’s. He/she can view the examination results and analyze the performance of students through graphical charts.

Student Role: Can view their examination results. He/she can analyze their performance through graphical charts.

1. Software/Hardware used for development

Software:

|  |  |
| --- | --- |
| **IDE / Text Editor** | Brackets, Visual Studio Code, Eclipse. |
| **User interface** | Java, Servlets, JSP, HTML, CSS, Java Script. |
| **Server-Side Programming** | Java |
| **Database** | My SQL |
| **Documentation Tool** | MS Office |

Hardware:

|  |  |
| --- | --- |
| **Processor** | i3 2.30 GHz |
| **RAM** | 8GB RAM |
| **Memory** |  |
| **Graphics Card** | 4GB Intel® UHD Graphics 620 |

1. Software/Hardware required for the implementation