SRS Report

STUDENT RESULT REPORT

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Introduction

This document aims at defining overall software requirement for RESULT MANAGEMENT SYSTEM .Efforts have been made to define the requirements
exhaustively and accurately. The final product will be having only features/functionalities mentioned in this document and assumptions for any additional functionality/feature should not be made by any of the parties involved in developing/testing/implementing /using this product .

Purpose

This specification document describes the capabilities that will be provided by the software application RESULT MANAGEMENT SYSTEM .It also states the various constraints by which the system will abide. The intended audience for these documents are the development team, testing team and end users of the product.

Scope

The application will manage the information about various students enrolled in this course in different years, the subjects offered during different semesters of the course, the marks obtained by the various students in various subjects in different semesters. The application will greatly simplify and speed up the result preparation and management Process.

Product Functions
1) Information about the various Users
2) Information about subjects offered in various semesters
3) Marks obtain by Students in different semesters
4) Generation of Reports

Glossary and references

Glossary:

● Student Result Management Software - A software application that

facilitates the management of exam results for educational institutions by

providing features such as result evaluation, result publishing, student

access, result analysis, user management, customization, security, privacy,

scalability, and integration.

● Result Evaluation - The process of inputting and assessing the exam

scores and grades of students by administrators.

● Result Publishing - The action of making exam results available to students

and other stakeholders. This can be done through result sheets or online

platforms.

● Student Access - The ability for students to view their exam results online,

providing transparency and convenience.

● Result Analysis - The examination of exam results to generate reports and

insights for performance assessment and decision-making.

● User Management - The management of user accounts and access levels

within the Student Result Management Software. This includes creating

and managing accounts for teachers, students, and other staff members.

● Customization - The ability to tailor the Student Result Management

Software to suit the specific needs and requirements of educational

institutions. This can involve customizing grading schemes, result

templates, and system settings.

● Security and Privacy - The focus on protecting data and maintaining

privacy within the Student Result Management Software. This includes

measures such as user authentication, data encryption, and regular

backups.

● Scalability - The ability of the Student Result Management Software to

handle a large volume of data and accommodate future growth and

changes.

● Integration - The process of connecting the Student Result Management

Software with other systems used by the educational institution, such as

student information systems (SIS) or learning management systems

(LMS), to streamline data management and enhance functionality.

References:

● https://github.com/

● https://stackoverflow.com/

● https://bootstrapmade.com/

● https://themewagon.com/theme-categories/admin-dashboard/

● https://www.google.com/

● https://www.quora.com/

Overall description :

The Student Result Management Software is a comprehensive, all-in-one

solution designed to streamline the process of managing exam results for

educational institutions such as schools, colleges, universities, and coaching

centers. It is developed using [insert programming language] and offers a range

of features to ensure efficient and organized result management.With this

software, administrators can easily evaluate and input exam scores and grades

for students. The system provides a user-friendly interface where administrators

can update and track the progress of result evaluation. It also allows for

customization of grading schemes, ensuring flexibility to accommodate various

evaluation methods.Once the result evaluation is complete, the software enables

administrators to publish the exam results. Results can be published in different

formats, including generating result sheets or making them accessible to

students online. This enhances transparency and allows students to conveniently

access their exam results from anywhere.The software also incorporates result

analysis capabilities, providing administrators with valuable insights. Reports and

analytics can be generated to assess the performance of students, classes, or

specific subjects. This data can aid in decision-making, identifying areas for

improvement, and monitoring trends over time.To ensure data security and

privacy, the software implements robust measures. User authentication, data

encryption, and regular backups safeguard sensitive information. Additionally, the

software is designed to be scalable, accommodating large volumes of data and

adapting to the evolving needs of educational institutions.Integration with existing

systems is a key aspect of the software. It can be seamlessly integrated with

student information systems (SIS) or learning management systems (LMS),

allowing for efficient data synchronization and improved workflow.The Student

Result Management Software aims to streamline the result management

process, save time, and enhance productivity for both administrators and

students. Its comprehensive features, flexibility, security, and integration

capabilities make it a valuable asset for educational institutions seeking a

modern and efficient solution for result management.

User needs

Assumption and dependency

● All necessary hardware and software infrastructure, including servers,

databases, and network connections, are in place and functional.

● The educational institution has an established grading system that can be

integrated into the Student Result Management Software.

● The educational institution has defined and documented result evaluation

processes and procedures.

● The necessary user accounts and access levels will be provided by the

educational institution.

● The Student Result Management Software will be implemented and used

by trained administrators and staff members.

● Students have access to internet-connected devices to view their results

online.

● The educational institution will provide the necessary

Features and requirements

Features:

● User authentication: Provide secure login functionality for administrators,

teachers, and students.

● Result evaluation: Allow administrators to input exam scores and grades

for students.

● Result publishing: Enable administrators to publish exam results in various

formats, such as PDF or online portals.

● Student access: Provide students with a secure online platform to view

their exam results.

● Result analysis: Generate reports and analytics to evaluate student

performance, identify trends, and generate insights.

● User management: Allow administrators to create and manage user

accounts, set access levels, and assign roles.

● Customization: Provide flexibility to customize grading schemes and result

templates based on institution-specific requirements.

● Security and privacy: Implement measures to ensure data

Requirements

● Programming language: Choose a programming language suitable

for developing the Student Result Management Software, such as

Java, Python, or PHP.

● Web-based application: Develop a web-based application to provide

accessibility across devices and platforms.

● Database management system: Select a reliable database

management system (e.g., MySQL, PostgreSQL) to store and

manage student and result data.

● User interface design: Create a user-friendly interface for
administrators, teachers, and students to interact with the software.

● Data validation: Implement validation checks to ensure accurate
and

consistent data entry and prevent errors.

● Data backup and recovery: Implement regular backups and a
disaster recovery plan to prevent data loss and ensure system
availability.

● Privacy and security measures: Implement encryption, secure
authentication methods, and role-based access control to protect
sensitive student data.

● System integration: Establish integration with existing systems,
such
as SIS or LMS, for seamless data exchange.

● Performance optimization: Implement techniques to optimize the
software's performance, ensuring fast and efficient result processing
and analysis.

● Documentation and support: Provide comprehensive documentation

and support resources for administrators and users to assist in the

software's usage.

● These features and requirements serve as a general guideline for

developing a Student Result Management Software and can be

further customized based on the specific needs and context of your

educational institution.

Functional requirements

Depending upon the user role he/she will be able to access only the specific

modules of the system.

1) Login facility for enabling only authorized access to the system

2) User (with role Data Entry operator) will be able to modify /add/delete

information about different students that are enrolled for the course in different

years

Non functional requirements

1 .Safety Requirements

The database may get crashed at any certain time due to virus or operating

system failure. Therefore, it is required to take the database backup

2. Security Requirements

We are going to develop a secured database for the university .Depending upon

the category of user the access rights are decided. It means if the user is an

administrator then he can be able to modify the data, delete, append etc. All

other users other than staff only have the rights to retrieve the information about

the database.

3. Hardware Constraints

The system requires a database in order to store persistent data. The database

should Software Requirements Specification have backup capabilities

External interface requirements

1) Login screen:

This will be the first screen that will be displayed. It allows user to access

different screens based upon the user role. Various fields available on this screen

will be

User id: alphanumeric of length up to 10char.

Password: alphanumeric of length up to 10char

Role: Will have the following

Values: Administrator, Data entry Operator , student , teacher

2) Subject info Parameter Screen:

This screen will be accessible only to the Administrator. It will allow the user to

enter the semester number for which the user wants to access the subject

information.

3) Student info Parameter Screen:

This screen will be accessible only to the Administrator. It will allow the user to

enter the Batch Year for which the user wants to access the student information.

4) Student Information Screen: This screen will be accessible only to the

Administrator. It will allow the user to modify the information about new/existing

students for a particular batch year. Various fields available on these screen are:

Student Enrollment No: of the format B.E/YYYY where YYYY represents the

batch year

Student Name: only alphabetic letters and length up to 40 chars.

Batch Year: of the format YYYY

5) Marks Entry Parameter Screen: This screen will be accessible only to the

Teacher. It will allow the user to enter the Batch Year, the semester number and

the subject for which the user wants to access the marks information.

6) Marks entry screen: Screen: This screen will be accessible only to the

Teacher. It will Software Requirements Specification

Hardware Interfaces

1) Intel p4 processor with minimum 2GHz speed.

2) RAM: Minimum 1GB

3) Hard Disk: min 20GB

Software Interfaces

1) Turbo C++

2) DB Server: SQL SERVER 2008

3) OS: Window Vista/XP/7/8/10

Conclusion:

Student Result management system (SRMS) lead to a better organization

structure since the Result management of the students is well structured and

also lead to better as well as efficient utilization of resources.The system is

designed to achieve maximum user satisfaction. The goal of this system is to

make it easier for teachers and students to keep up with the times. This will

definitely make the institute authorities more comfortable as they do not have to

think of keeping the results of their students on a conventional paper. Student

Result management system (SRMS) can be utilized by training foundations to

keep up the records of understudies without any problem. Accomplishing this

goal is troublesome utilizing a manual framework as the data is dissipated, can

be repetitive and gathering significant data might be very tedious. Every one of

these issues are understood utilizing this venture.