



## A RESEARCH PAPER ON STUDENT INFORMATION AND SCORE MANAGEMENT SYSTEM (SISMS)

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### Abstract

The management of student related information in an educational institute gets more tedious with every passing year as all systems in today's world are being computerized, there is a need for an automated system for managing such information. Student Information and Score Management System (SISMS) provides a simple interface for maintenance of student information. It can be used by educational institutions or colleges to maintain the records of students easily. The creation and management of veracious, state of the art information regarding a students' academic career is critically important in the university as well as colleges. Student information and score management system deals with all kind of student information, academic reports, college details, course details, curriculum, batch details, score management and other resource related details too.

**Keywords:** SISMS, student, online, automation, forms.

The earlier system in college used only paper records for this initiative. While paper records are a traditional way of managing student data there are several disadvantages to this method. It takes a very long time to convey the information to the student. Paper records are tedious to manage and track. This system provides a simple interface for the maintenance of student information and examination scores. The system under consideration is prepared in order to replace the current paper record system with an automated online information management system. College Staff can directly access all facets of a student's academic progress through a secure, online interface embedded in the college's website. The system employs user authentication, displaying only information necessary for an individual's duties. In addition to this, each sub-system has authentication allowing authorized users to create or update information in that subsystem. All data is thoroughly reviewed and verified on the server before actual record alteration occurs. Additionally, the system plans for student user interface, allowing students to access information and submit form online thus reducing processing time.

All data is stored discretely on SQL servers that are managed by the college administrator and ensures highest possible level of protection. The system features a logging system to track all users access and ensure conformity to data access guidelines thus expecting to increase the efficiency of the college's record management thereby reducing the time needed to access and deliver student records to users.

### I. INTRODUCTION

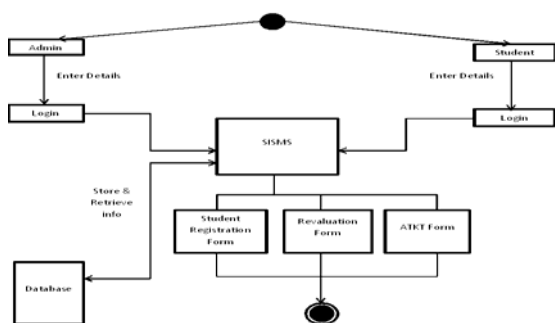


Fig.1 Block Diagram of SISMS

## II. DESIGN OF SISMS

The design of the system deals with data flow diagram and class diagram. It depicts how our system will function internally, its various modules as well as the stages of SISMS.

### A. Data Flow Diagram

A data flow diagram is a graphical representation of the flow of data of SISMS. It helps us to understand the flow of system.

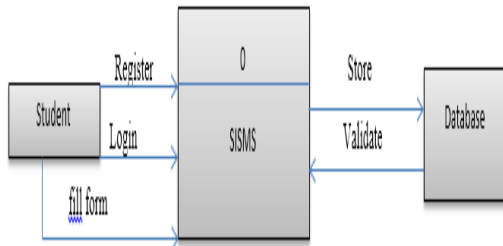


Fig. 2 DFD Level 0

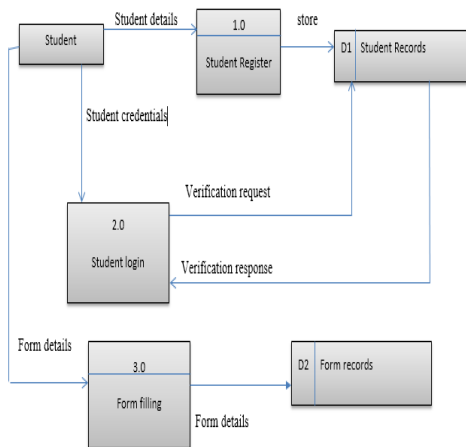


Fig. 3 DFD Logical Level 0

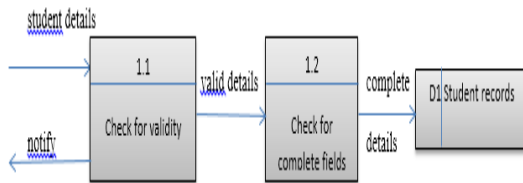


Fig.4 DFD Level 1 for Student Registration

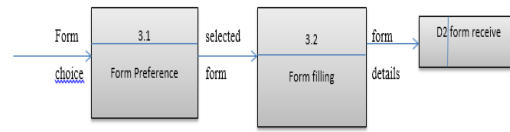


Fig.5 DFD Level 1 for Form filling

From the above Data Flow Diagrams we get a detailed understanding of how the flow of each function will take place. DFD level 0 gives the overview of SISMS. Whereas DFD Level 1 of the different functions give a more in depth knowledge of the methods and database usage. The DFD give us a good visualization of the steps involved in functions like form filling and registration.

### B. Class Diagram

The class diagram for the proposed system describes the system in terms of classes, attributes, operations, and their associations. In UML, classes and objects are depicted by boxes composed of three compartments. Top compartment displays the name of the class or object. The Centre compartment displays its attributes; the bottom compartment displays its operations.

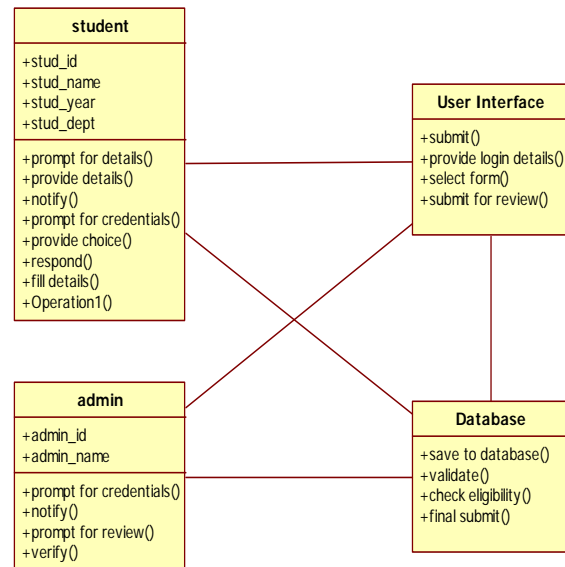


Fig.6 Class diagram

### III. TECHNOLOGIES USED

#### A. HTML

HTML is hypertext markup language that forms the backbone of every website. HTML is used for describing web documents. It is used to create visually engaging webpages. Most websites use HTML for creating user interfaces for web applications as well as mobile applications.

#### B. CSS

CSS stands for Cascading Style Sheets. It is used to beautify the web pages. CSS helps in separating the content of web document from its presentation. CSS helps in reducing the complexity in styling web pages. It is flexible and gives better content accessibility.

#### C. JavaScript

In order to create dynamic and interactive web pages, we use JavaScript. JavaScript is the most popular scripting language and is supported by all web browsers. It is very light weight programming language and is directly embedded into the HTML code.

#### D. SQL Server

SQL Server is a relational database management system that is used for storing and retrieving data as requested by software applications. The connectivity is applicable to the data stored on same computer or on different computers. Along with tables, one can also store views, stored procedures etc. using SQL Server.

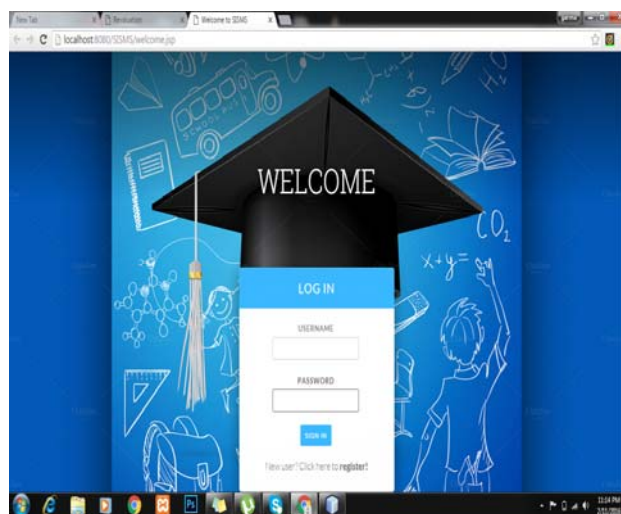
#### E. JAVA

Java programming language is concise which makes it easy to use and learn. Java Virtual Machine (JVM) enables java to be executed in any environment and platform making it portable. Web applications and applets can be accessed in a secure way using Java. It is object oriented and supports multithreading. Java supports cross platform optimized code called bytecode which are faster to execute. Hence it gives high performance.

### IV. RESULTS

#### A. LOGIN FORM

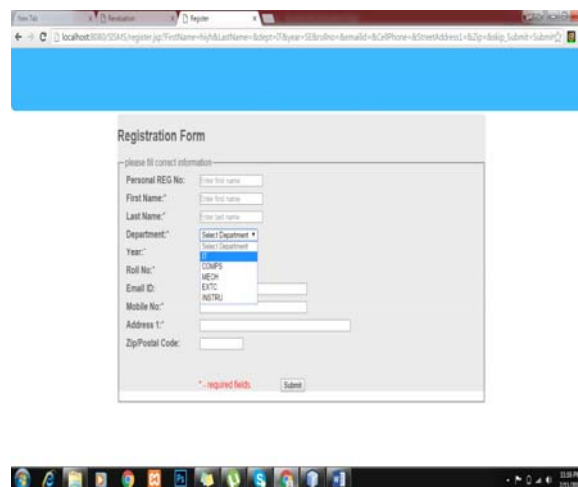
The system starts with login page where the user will enter his user name and password and will be directed to the registration form page.



**Fig.7 Login form**

#### B. Registration Form

The registration form consists of student details and after filling it student will receive an email to verify their email address. Once the student enters the verification code, the registration is complete. Now this information will go to the admin, who will verify the details and an email will be sent to the student saying “registration successful” if the details are found to be correct. The student will also receive an username and password to login to the system.



**Fig.7 Registration form**

#### C. Examination Form

The student gets an option for filling the examination form. Once he is registered, he can use username and password to fill the form according to his preference.

The screenshot shows a web browser displaying the 'EXAMINATION FORM' for the Rajiv Gandhi Institute of Technology, Mumbai. The form is green and contains the following sections:

- EXAMINATION FORM:** Includes a declaration section where the student agrees to present original documents and declares that they have not appeared in any other college for the same examination.
- PERSONAL FORM:** Includes fields for Name (in capital letters), Roll No., Date, and Faculty name.
- PERFORMANCE OF EXAMINATION:** Includes a table for recording marks obtained for different subjects.

**Fig.7 Examination form**

#### D. Revaluation Form

The revaluation form may be filled by students who wish to put their paper for revaluation. Along with the revaluation form, there is an option for uploading the question paper and the mark sheet.

The screenshot shows a web browser displaying the 'APPLICATION FOR REVALUATION' form for the Rajiv Gandhi Institute of Technology, Mumbai. The form is yellow and contains the following sections:

- APPLICATION FOR REVALUATION:** Includes fields for Name (in block letters), Section, Roll No., Date, and Year.
- Table:** A table with columns for Sr. No., Name of the Subject, Question Paper Code, and Marks Obtained. The table has 6 rows.
- Declaration:** A section where the student declares that they accept the revalued marks assigned to their paper(s).
- Signature:** A field for the student's signature and date (dd/mm/yyyy).

**Fig.7 Revaluation form**

#### V. CONCLUSION

The system will be used by educational institute 'Rajiv Gandhi Institute of Technology' for maintenance of student records easily. This paper assists in automating the existing student management system. Achieving this objective is difficult using a manual system as the student information is scattered, can be redundant and collecting relevant information may be very time consuming. Our project paper focuses on

presenting information in an easy and accessible manner which provides facilities like online registration and updating student information thus reducing paper work and automating the record generation process in an educational institution. Our project enhances the upgradability of the existing system and makes it convenient for the staff to manage records.

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