

# PROCTORIAL STUDENT INFORMATION SYSTEM

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**Abstract**— Proctorial system mainly provides supportive care and advice to the students and to help them in their academic problems and personnel problems, if any, and to council them appropriately. This project includes sending the progress reports of each student to his/her parents/guardians furnishing the details of attendance, class marks, and examination results.

This is a web based system that will automate the manual system used for management and maintenance of the critical information which reduces a lot of paper work. This system provides parents an easy access to their ward's academic performance.

This system has special access to the proctor to update the student's details and also includes the counselling of the ward about his/her performance. The administrator has the complete access to database so that the users do not modify the details updated by proctor. The application runs on windows platform that uses java, java server pages html.

*Index terms*- Records, Web, Database SQL

## I. INTRODUCTION

Proctorial student information system provides a simple interface for the maintenance of student information. It can be used by educational Institutes or colleges to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using online student information management system. This system focuses on presenting information in an easy and intelligible manner which provides facilities like online registration and profile creation of student's thus reducing paper work and automating the record generation process in an educational institution.

The design and implementation of a comprehensive student information system and user interface is to replace the current paper records. College Staff are able to directly access all aspects of a student's academic progress through a secure, online interface embedded in the college's website.

In addition to a staff user interface, the system plans for student user interface, allowing users to access information. All data is stored securely on SQL servers managed by the college administrator and ensures highest possible level of security. The system feature ensures conformity to data access

and is expected to increase the efficiency of the college's record management thereby decreasing the work hours needed to access and deliver student records to users. Previously, the college relied heavily on paper records for this initiative.

## II. RELATED WORK

### A. Purpose of the document

This paper is the Software Requirement Specification (SRS) for the Proctorial student Information System for College (PSIS) project. The purpose of this paper is to describe the functionality, requirements and general interface of the PSIS.

### B. Scope for development of this paper

- Login to the system through the first page of the application.
- Deputy proctor can assign students for proctor.
- Access the student information.
- View the student details.
- Students can give their counseling details after internals.
- Proctor and parents can login and view the student details.

### C. Main modules of the system

#### 1) . Deputy proctor

This module gives the information about assigning of students to proctor

- Assign: This gives the information about the total number of students assigned to each proctor.

#### 2) . Proctor

This module gives the information about adding, modifying and viewing the student academic details.

- Adding: Proctor can add student attendance, marks and remarks

#### 3) . Student

This module mainly includes, entry of personal details by the students, enter their counseling after each internals and can view their academic performance.

#### 4) Parent:

This module deals mainly with parents viewing their ward's academic details.

#### D. EXISTING SYSTEM

In existing system every organization follows manual procedure in which faculty should enter all the details of the students such as attendance, internal marks and the counseling of the student after each internals which is a time taking process and there is a chance of misplacing the records.

#### E. LIMITATIONS OF EXISTING SYSTEM.

- Lots of paperwork: Existing system requires lot of paper. Loss of even a single register/record led to difficult situation because all the papers are needed to generate the reports.
- Time consuming: Every work is done manually. It increases the frequent interaction of the proctor with the student.

#### F. PROPOSED SYSTEM WITH BENEFITS

In proposed system chances of losing data is not possible because data is maintained in the form of database. Every student's academic performance information is updated in to database using a user friendly GUI. This is an online application which makes more flexible to access information.

##### ALGORITHM

- Step 1: Deputy proctor will assign the students to proctor.
- Step 2: Proctor/admin will maintain all the details of the students.
- Step 3: Parents and students will have separate login given from the proctor.
- Step 4: Students will do their counselling online.
- Step 5: Parents can view their wards academic details.
- Step 6: Parents will immediately get the notification if their ward's performance is below average.
- Step 7: It reduces the frequent interaction of the proctor with the students in their busy schedule.

### III. REQUIREMENTS AND SPECIFICATIONS

#### A. FUNCTIONAL REQUIREMENTS

1. Proctor will enter the details of the student.
2. A student/parent can register and login to the application.
3. The login and password is verified for authentication.
4. Parents can view academic details of their ward.

#### B. NON-FUNCTIONAL REQUIREMENTS

##### 1) PERFORMANCE REQUIREMENTS

The proposed system that can be developed will be used as the chief performance system for helping the organization in managing the whole database of the student studying in the organization. Therefore, it is expected that the database would perform functionally all the requirements that are specified.

Performance requirements concern the speed of operation of a System.

Types of performance requirements:

1. Response requirements:- How quickly the system reacts to a user input
2. Throughput requirements: - How much the system can accomplish within a specified amount of time.
3. Availability requirements: - Is the system available for service when requested by end-users.

#### 2) SECURITY REQUIREMENTS

There are various categories of people namely proctor, student who will be viewing either all or some specific information from the database. Depending upon the category of user the access rights are decided . It means if the user is an proctor then he can be able to modify the data, append etc. All other users only have the rights to retrieve the information about database.

#### 3) SAFETY REQUIREMENTS

By incorporating a robust and proven MYSQL into the system, reliable performance and integrity of data is ensured

### IV. SYSTEM DESIGN

#### A. DATAFLOW DIAGRAM

##### LEVEL 0.



Fig 1: Dataflow diagram for level 0

##### LEVEL 1

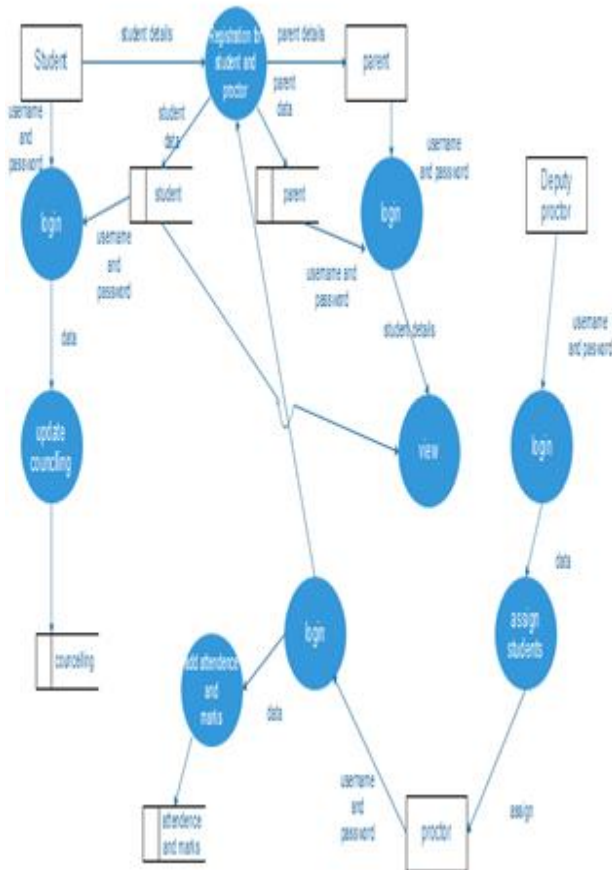


Fig 2: Dataflow diagram for level 1

Level 2

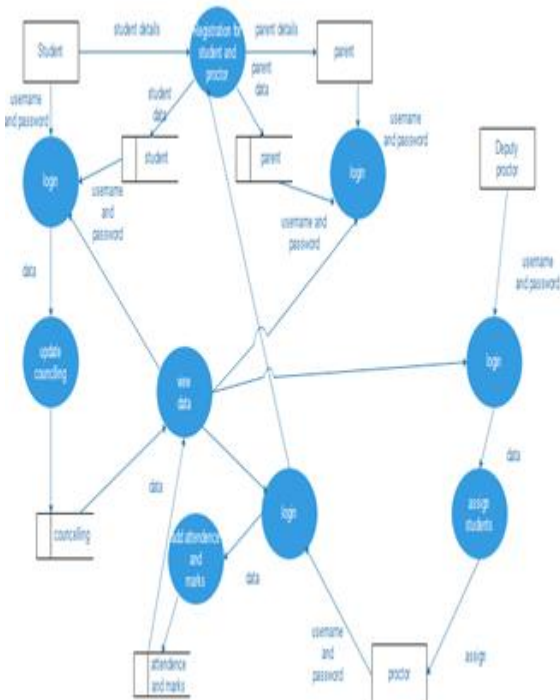


Fig 3: Dataflow diagram for level 2

#### 4.3 ACTIVITY DIAGRAM

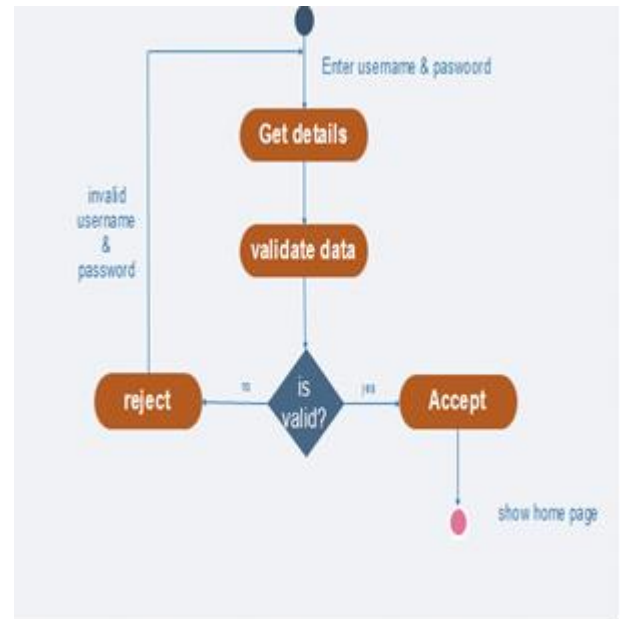
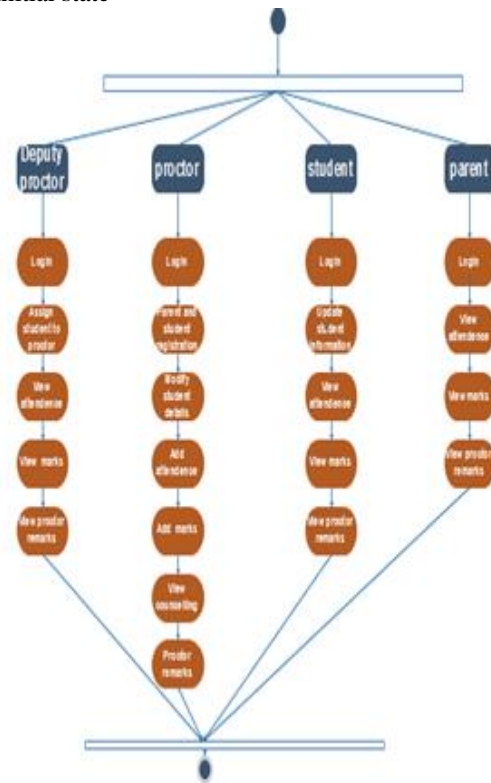


Fig 4: Activity diagram for login  
Initial state



Final state  
Fig 5: Activity diagram for accessing details

#### V. CONCLUSION

This paper proposes the web based online system which reduces lots of paper work that permits admin to manipulate and present student data in a meaningful manner in generating

a clear view of student records. This system is designed using modern system architecture to cope with changing requirement. This web based can further be implemented as a mobile app which can be accessed by the parents to keep track of their wards regularity and academic performance more easily.

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