Management of Student Activities Using Web Application

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***Abstract*-- This system's vision is to establish Student management system for educational institution which is of greater concern. This web application is created in such a way that, it can be utilized by overall college or for distinct department. This Application is used to oversee Attendance, on duty and Internal marks of the students. Student Activity Management is created in such a way that the details are visible and available to all the students. The present way of managing student activity follows very old fashioned method that has enormous time and space complexity. Hence the proposed system would be able to overcome the conflicts of the traditional method.**

***Keywords*-- Student Activity Management, HTML, PHP, MYSQL.**

I. INTRODUCTION

Student Activity Management is the management system that is used to track the record of students in an educational institution or a specific department [1]. Student Activity Management has individual authentication for Students, Faculty. This Application gives the necessary access for all user's duties. Students will be able to view their Academic, Internal Assessment and on duty Details respectively. The Faculty members can of the specific class can be able to access their respective student details [2]. It is the work of the faculty to update the Student's details. The Student and Faculty details are stored in Database. The Database used here is the MySQL. The user interface is made with HTML/CSS along with PHP. The user interface is made in such a way that the user should feel the ease of accessing the system. The old method of tracking the details require more human work and paper works [3] .The complexities such as Time and Space is higher. The institutions used to hard copies of the records and it take hours of work and waste of the resources. Any changes such as update or deletion of the data cannot be achieved and the data that are confidential cannot be secured. The main problem in the old method is the Duplication of the data. Hence the proposed system will be able to overcome these traditional systems complexities and make user friendly system. The main purpose of this paper is to ensure security, reduce the manual works and utilize the resources effectively of resources [4].

A. Purpose

The purpose is to design the Web application for educational institution and to provide up-to-date information to the users, so that the efficiency of tracking system is improvised.

B. Objective:

- To update and maintain the record of the students,
- To provide information of student details such as attendance, On duty and Internal assessments
- To cut down the paper works

II. SYSTEM DESIGN

Here description about how the system is implemented, front end back end designing, and data flow diagram are discussed.

A. Data Flow Diagram:

A two-dimensional diagram that explains how data is processed and transferred in a system [2]. The graphical depiction identifies each source of data and how it interacts with other data sources to reach a common output. As the name indicates, it focus on the flow of information, where the data comes in, where it goes, and how it gets stored.

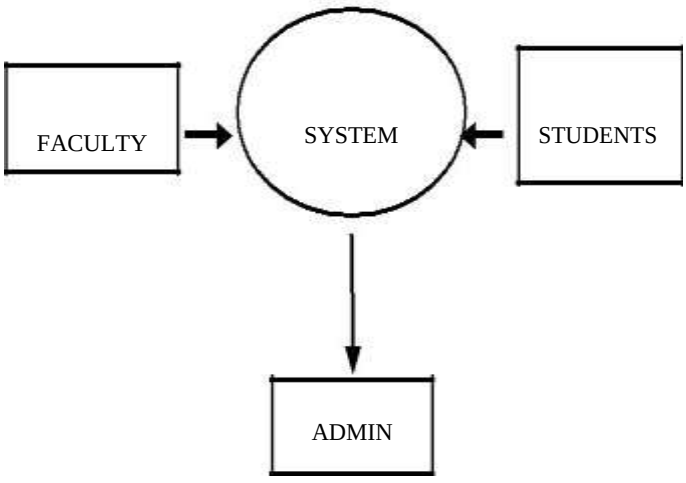

Fig.1 Data flow of the System

B. Flow Graph:

Flow graphs use geometric symbols to interpret the relationship between two distinct modules. The brief description about the logical sequence is depicted in the Figure 2.The system Starts from the Home page, thereby Signup. Signup is given for the both the faculty and students, in order to ensure that only existing members in the college or department are Signing In. A unique username and password is generated for the faculty members by and students. Faculty can view their basic details. They can also edit and view their student's details. Students can view their Attendance, Internal marks, and can upload certificates for already availed Onduty. Admin Manages both Faculty and student details.

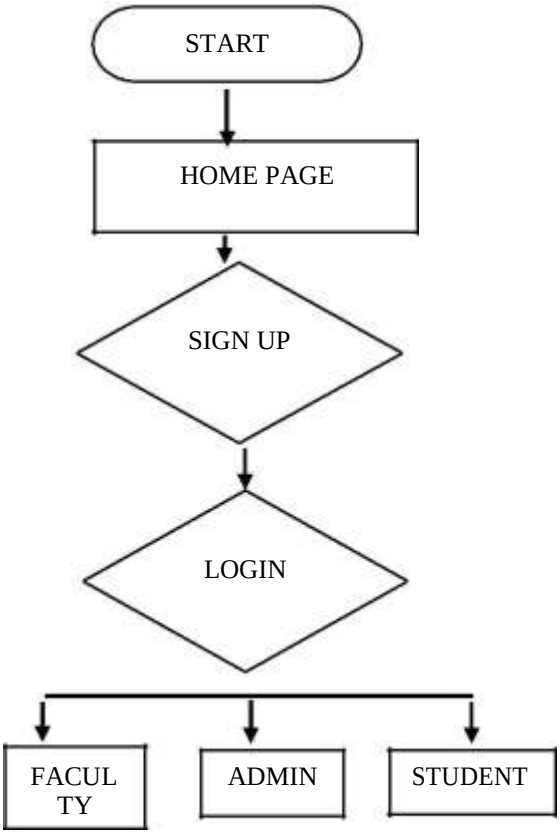

Fig 2.Flow Chart of the System

III.TECHNOLOGIES USED

A. HTML/CSS:

HTML/CSS (Hypertext Markup Language) and (Cascading Style Sheets) are two of the core technologies that we have used here.. HTML gives the structure and CSS is for making the page more effective. JavaScript is used for dynamic response of the Web application.

***B. PHP*:**

Hypertext Pre-processor, an open source, server-side, HTML embedded scripting language used to create Dynamic Web pages. PHP script can be used within HTML tags, so the author can jump between HTML and PHP instead of large HTML code. PHP is executed on the server, the client cannot view the PHP code. It supports Server's like Apache and database like MySQL, Oracle.

C. MySQL:

MySQL is an open source relational database management system (RDBMS) based on SQL. MySQL is platform independent (including Linux, UNIX, and Windows). MySQL is used mainly for web-based applications. We can create Database, create tables and views, update the database, and retrieve the data.

XAMPP Server:

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends [5]. It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing purposes. It makes transitioning from a local test server to a live server is extremely easy as well.

IV.MODULE SPECIFICATION

There are totally two main modules Students and Faculty.

A.STUDENT MODULE:

Here the activities of students are described here.

Figure 3 & Figure 4 are the screenshots of the student module.

Personal Details: The basic details are provided in this section

Attendance Details: Master Attendance and Subject wise attendance are provided in this section

Internal Assessment Details: Internal Assessments for different periods are provided

Onduty Details: The certificates that is used as proof for Availed Onduty is submitted by the students

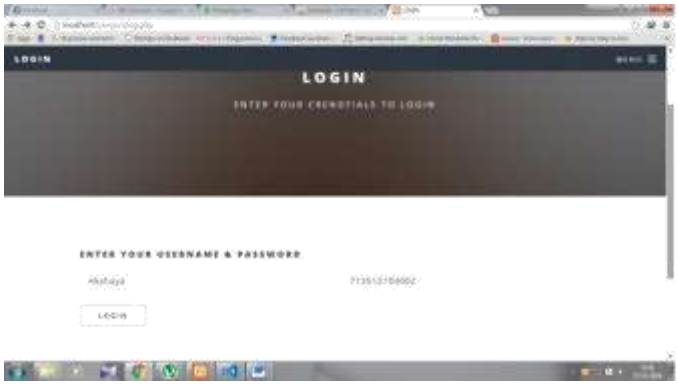

Fig 3.Student Login

Fig 4.Student Details

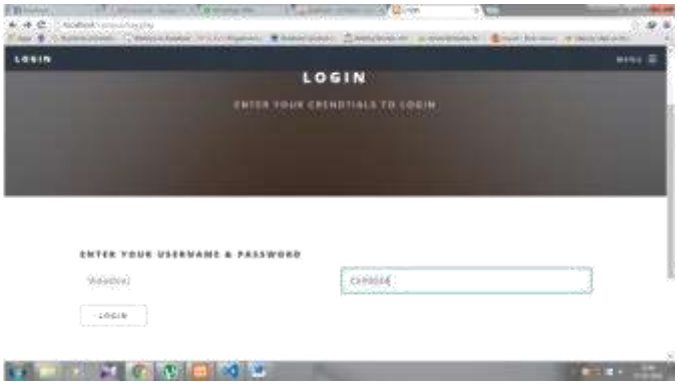

Fig 5.Staff Login

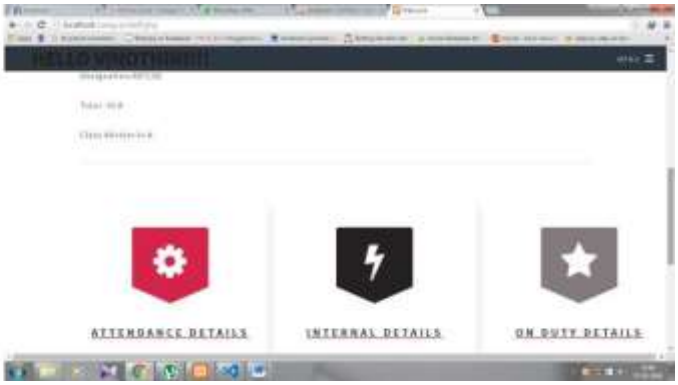

Fig 6.Staff Details

B.FACULTY MODULE

Here the activities of students are updated and viewed by the faculty members

Figure 5 & Figure 6 are the screenshots of the faculty module.

Personal Details: The basic details are provided in this section

Attendance Details: Master Attendance and Subject wise attendance are provided in this section

Internal Assessment Details: Internal Assessments for different periods are provided

Onduty Details: The certificates that is used as proof for Availed Onduty is submitted by the students

C.ADMIN MODULE:

Here the privileges for staffs and students are designed and database works are managed here.

Figure 7 is the screenshot of the admin panel.

Staff Module selection: Privileges provided for the faculties are monitored and modified here. Any error or issues occurred during the active session of faculty module are managed here.

Student Module Selections: Privileges provided for the students are monitored and managed here. Any error or difficulties faced during the active student session are managed here.

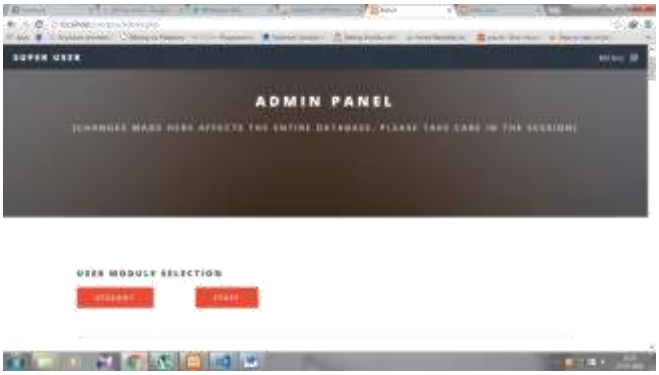

Fig 7.Admin Panel

V.CONCLUSION AND FUTURE WORKS

This system Student Activity Management solves the major issues in the particular educational institution. It is done successfully with all the modules that are mentioned above.

The issues such as Data Security and Unavailability are improved when compared to existing System. This system can be implemented in android as android is the famous and emerging technology.

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