Education Support System

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Abstract- *Education Support System is mainly designed to satisfy the student related data needs. ESS is used to manage any student related information within a particular school or college or a university. This is mainly used by students in-order to view and access the information regarding college which comprises of notifications, materials, exam timetables, marks etc. Any college related information such as notifications, updating or deleting of student records could be done easily and securely using this web based online system. ESS is a repository of data collection, data processing, data analysis, data reporting. Admin provides secured logins to each and every section such as Timetable section, exam section, Material and also to each and every individual student.*

Keywords- ESS, My SQL, PHP, HTML, CSS

I. INTRODUCTION

Education support system is mainly designed for the use of students. If a student is absent on a particular day then he is unable to know the notifications that are passed on that day in college.Soby using our web based system a student will be able to view the events like exam timetable that are going to take place in a college. This increases the efficiency of college record management because previously the college is dependent on paper records only. The time required is less when compared with the paper records. For example, generating the eligibility list for students based on the company requirements will consume more time because the list differs from company to company, by using ESS it can be generated easily and reduces the man power to do this. ESS comprises of five different modules namely admin module, student module, exam-section module and the faculty module. Any student is able to view any notification that is updated by any module. Each and every user should have their own identity and by using this login facility is provided by the admin of thesystem.

II. MODULES DESCRIPTION

Admin module:

The admin manages all the information related to the students and the faculty. Some of the operations performed by the admin in the Student Information Management System are updating the details about the students such as his name, roll number, phone number, aggregate marks till present semester. Admin also updates faculty related information such as name, mail id, phone number, designation etc. Admin creates separate logins to every user by providing the passwords randomly.

Student module:

Student plays a vital role in every education system.This project SIMS lets the students to view the entire information that is updated by the faculty, examiner, placement officer, and the admin. For example, a student can view about his exam timetables, notifications that is updated by an examiner. He can view all the placement related information such as recruited students list, eligibility list, upcoming companies list, etc. The department events are updated by any faculty of that particular department.

Exam-section module:

The role of the examiner is to update all the notifications regarding all kinds of exams such as regular, supply etc. He also performs the activity of updating the exam timetables, the fee particulars regarding the examinations etc. All the activities of the examiner can be accessed by the students.

Mark-section Module:

The role of the examiner is to update all the notifications regarding all kinds of exams marks. He also performs the activity of updating the marks for IAT and Model examinations etc. All the activities of the examiner can be accessed by the students.

Material upload/view-section module:

The role of the staff is to update all the notifications regarding all kinds of Materials. He also performs the activity of updating all semester materials. All the materials of the staff can be accessed by the students.

Faculty module:

The faculty can view all the updates of the college i.e the college notifications which are updated by the admin. The faculty can update any department events, news regarding the department by signing in to his account with his email id as user-name and with the randomly created password by the admin.

III. TECHNOLOGIESUSED

1.PHP:

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. As of January 2013, PHP was installed on more than 240 million websites (39% of those sampled) and 2.1 million web servers. Originally created by Rasmus Lerdorf in 1995, the reference implementation of PHP is now produced by The PHP Group.While PHP originally stood for Personal Home Page, it now stands for PHP: Hypertext Pre-processor, a recursive backronym.

PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page: PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It has also evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP is free software released under the PHP License. PHP can be deployed on most web servers and also as a standalone shell on almost every operating system and platform, free ofcharge.

2.XML:

Extensible Markup Language (XML) is the predominant markup language for web pages. XML is designed to transport and store the data.XML is important to know, and very easy to learn. XML tags are not predefined. You must define your own tags. XML is defined to be self descriptive. With XML data can be stored in separate XML files. This way you can concentrate on using HTML/CSS for display and layout, and be sure that changes in the underlying data will not require any changes to the XML. This makes it much easier to create data that can be shared by different applications. Exchanging data as XML greatly reduces this complexity. Since the data can be read by different incompatible applications.

3.CSS:

Cascading style sheets (CSS) is a style language used to describe the presentation semantics (the look and formatting) of a document written in a markup language. It's most common application is to style web pages written in HTML and XHTML. CSS is a designed primarily to enable the separation of document content (written in HTML or a similar markup language) from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more pages to share formatting, and reduce complexity and repetition in the structural content (such as by allowing for table less web design). CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen in print byvoice.

4.MySQL:

MySQL is a fast, easy-to-use RDBMS used for databases on many web sites. Speed was the developer's main focus from the beginning. In the interest of speed, they made the decision to offer fewer features than their major competitors (for instance, Oracle and Sybase). However, even though MySQL is less full featured than its commercial competitors, it has all the features needed by the large majority of database developers. It's easier to install and use than its commercial competitors. MySQL is developed, marketed, and supported by MySQL AB, which is a Swedish company.

5.HTML:

HTML is a hypertext markup language which is in reality a backbone of any website. Every website can't be structured without the knowledge of HTML. If we make our web page only with the help of HTML, then we can't add many of the effective features in a web page, for making a web page more effective we use various platforms such as CSS. So here we are using this language to make our web pages more effective as well as efficient. And to make our web pages dynamic we are using Java script.

IV. RESULTS

The system starts with home page displaying login. The top of the page contains login form where the student can login. Fig. 1 show the home page of ESS.

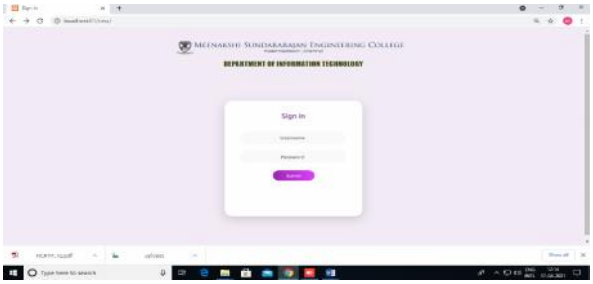

Fig.1 Home page of ESS

***Admin login-page**:*

The login page for Admin with user-id and password. The admin needs to enter User Id and password to access the system. Then the admin can perform his operations.

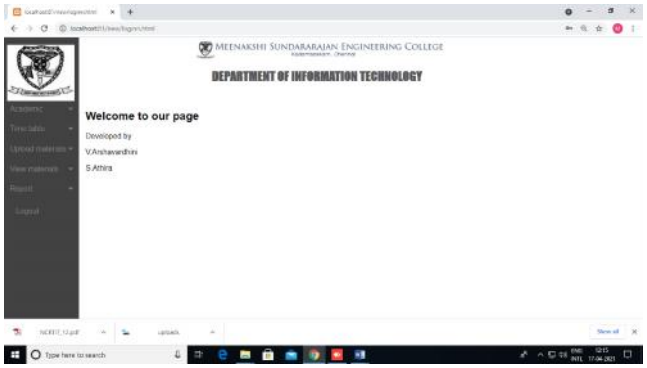

Fig.2. Home page for Admin

Admin operations:

The operation of admin, he will upload the student details such as student name,id, phone number,gender, etc. After uploading the data he can view the student details by clicking view student data.

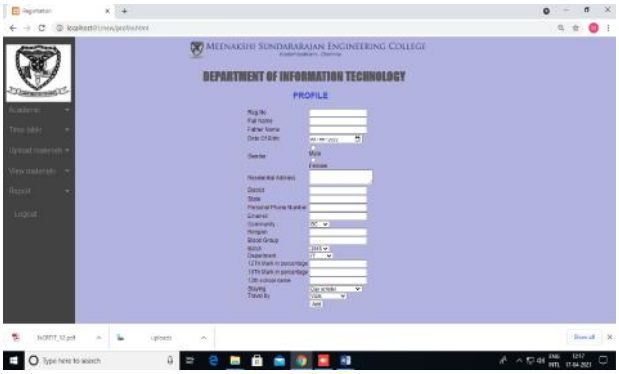

Fig. 3 Admin uploads student data for every student

The another operation of admin, where he will upload the Academic Calendar and after uploading the data he can verify the data by clicking view Academic Calendar.

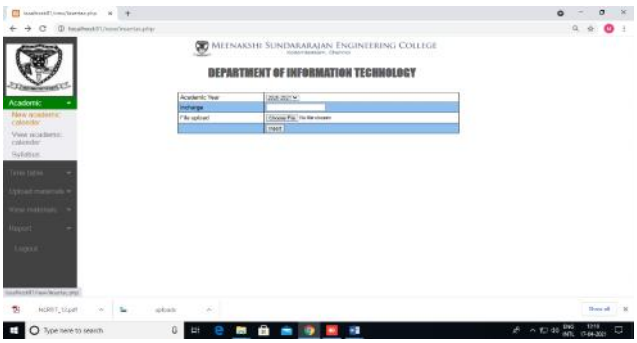

Fig. 4 Admin uploads Academic Calender

Exam-related operations:

This information will be provided by admin. After entering the user- name and password provided by the admin, the examiner can upload exam notifications and exam details.

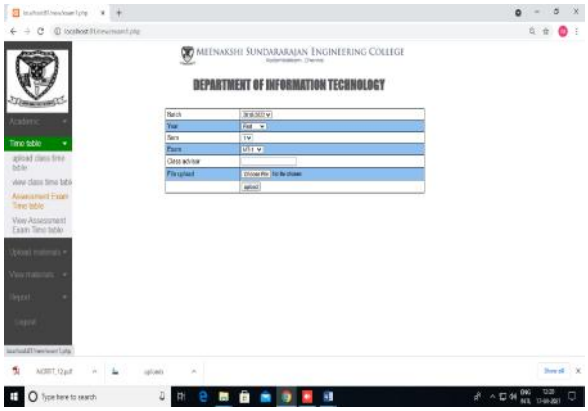

Fig. 5 Exam-timetable notifications.

Also, he can upload Class time table

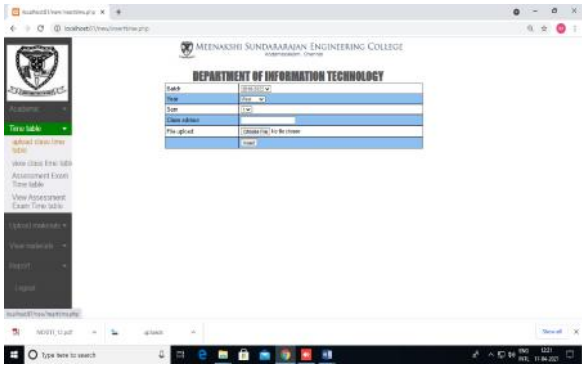

Fig. 6 Class Time Table

Material Upload:

Staffs can upload materials for their subjects

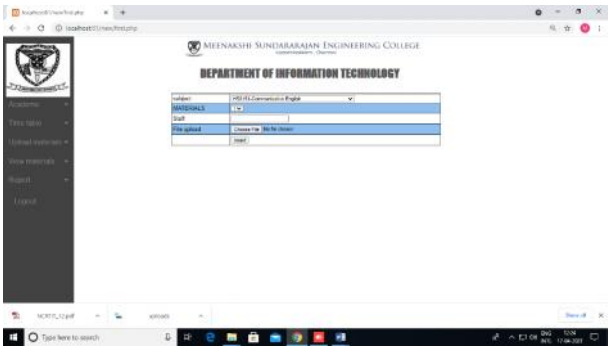

Fig. 7 Material Upload.

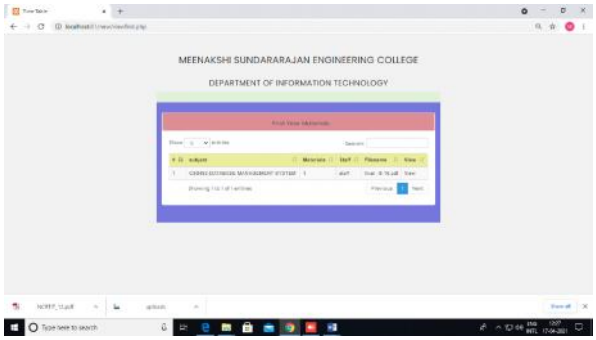

Fig. 8 Viewing Materials.

Mark upload –operation:

Staffs can upload every subject mark in this module. This module is only available for staff's login. Students can view their marks after the exam get over.

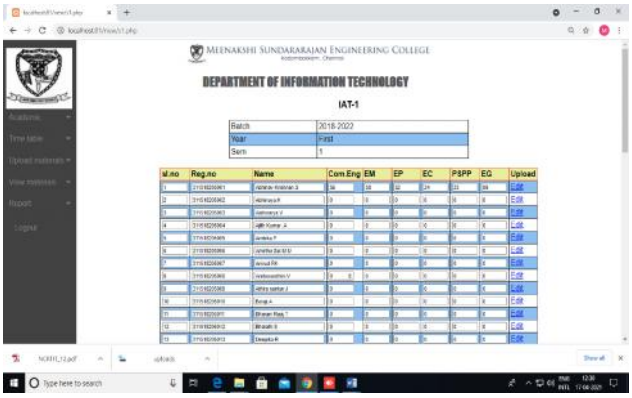

Fig. 9 Marks Upload operation.

Student login-page:

Fig. 10 shows the login-page of the student. The student needs to enter the user-id and password generated by the admin. After the login was successful the student can view the notifications or data that was uploaded by faculty, examiner. The student can directly login to the site by giving his user-id and password at the top of the page which will automatically redirect them to the student home page.

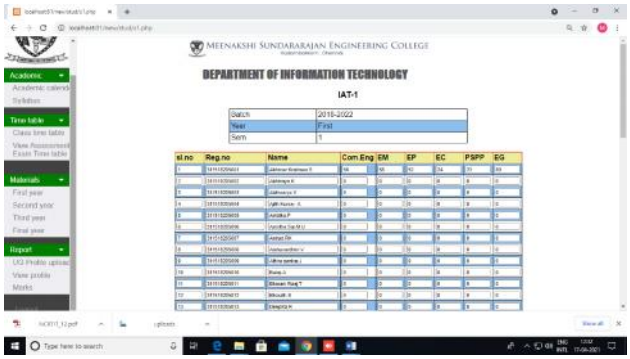

Fig. 10 Student page.

V. CONCLUSION

The paper ESS is about automating the existing manual system. Implementation of this system will reduce the paper work which consumes more time and improves accuracy in colleges, schools and universities. The student will get information about the college events, exam notifications in a very easier way without any delay. This will reduce the time for maintaining the manual records, for example the eligibility list can be generated directly based on the percentage and it can be helpful for the students. In such a way this system will be helpful for faculty, examiner and the students.

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