# **Student Performance Evaluation System Web Application**

## **Department of Electronics and Telecommunication Engineering:**

#### Abstract:-

Managing the result sheets using traditional approach is a cumbersome process. The person must maintain the result records in registers and files using pen and paper. The problem with this approach is, it requires lot of paperwork which is the part of our non-renewable natural resources. We are in the age, where we must think about sustainable development. The manual method of students' academic result processing was found to be tedious, especially when carried out for many students, this makes the entire process time-consuming and error prone. Managing the results using mobile phones, provide an alternative way in this direction. The aim of the project is to provide the evaluation result to the student in a simple and accurate way. The application will provide summary report regarding students' performance report and semester wise marks list. The whole result analyzer will be under the control of the local and global evaluator, and they will have full privileges to read, write and execute the result. The system presents a single platform that will be used to manage the processing of all examination records within the institution. It gives the privileges to the Teacher and students to access the result and the student can also download his result. The web application will be designed using HTML, CSS, JavaScript & developed using visual Studio code. For Front End of this web application, we use Bootstrap is a free and open?source CSS framework directed at responsive, front-end web development. It contains CSSand JavaScript-based design templates & the backend of application we used PHP & MYSQL. Keywords: Performance Evaluation, Web Application.

## I. INTRODUCTION

Nowadays most of the education system practice online learning mechanism rather than using the traditional teacher centered teaching mechanism to enhance the learning ability of the students by making a student-centered learning mechanism. The teachers must evaluate the student's performance. Student performance evaluation system is a web-based application that mainly focuses on providing the evaluation to the student. The student gets their respective evaluation report of that semester. The student can access their evaluation through a web application is more convenient and the faculty can easily analyze the performance of student. The system is divided into three modules- Student, Faculty and Administrator. The student using his login credentials view his report similarly faculty using their login credentials evaluate students respectively. The

administrator can add new users in faculty and student sections, it can also add new subjects, classes as per the sessions. The admin is provided with the privileges to modify the student and faculty information by updating their details in web application.

The update of any current session or previous one is done by the administrator. Information about the grades obtained in various semesters. Information regarding evaluation of each semester of a student. Visualization of evaluation report that conveys the overall student's performances in a particular subject. The main objective of this system is to provide the student a convenient and simpler way to check their results and for evaluating the semester results available.

Student performance evaluation system, as described above, can lead to error free, secure, reliable, and fast networking system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping

#### II. EXISTING SYSTEM

In the existing system the evaluation is done by manual process where faculties can give evaluation about the students by using paper and pen. But by our process, faculty can give evaluation through online system without wasting their time. In the manual system after when the feedback is given by all the faculties and the overall grade for each subject and each student is calculated. After that all those grade reports given by the faculties are checked by the University Authority. Hence the performance of students is estimated, and counseling of the students can be done. So, the existing system requires more time to do a piece of work, for this reason the online system evaluation is implemented. This is the major limitation of the existing system for giving evaluation about the students and viewing report of the students.

Design of Student Performance Evaluation System: Collaboration is a society of classes, interfaces, and other elements that work together to provide some cooperative behavior that's bigger than the sum of all its parts. Collaboration is also the specification of how an element, such as a classifier or an operation, is realized by a set of classifiers and associations playing specific roles used in a specific way

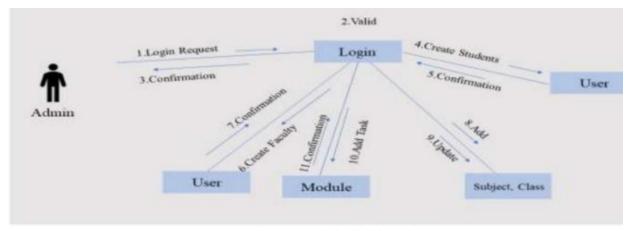


Figure.1. Admin Collaboration

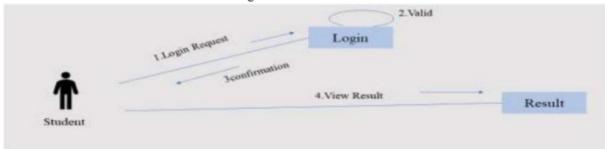


Figure.2. Student Collaboration

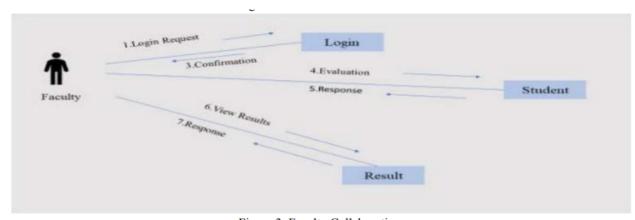


Figure.3. Faculty Collaboration

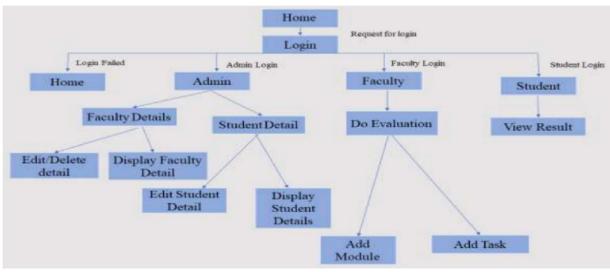


Figure.4. Project flow

#### **III. REQUIREMENT ANALYSIS**

## **Software Requirement:-**

Operating System:-Window 10 ·

Front-end: HTML, CSS, JavaScript · Database: MYSQL · Back-end:PHP

# **Hardware Specifications:-**

Processor: Core i3,1.5MHz ·

RAM:2GB · Hard Disk:150G

# **VI. TECHNOLOGY DESCRIPTION**

# A. HTML:

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. HTML FORMS

A form will take input from the site visitor and then will post it to a back-end application such as Java script PHP script etc. The back-end application will perform required processing on the passed data based on defined business logic inside the application

### **B.CSS (Cascading Style Sheet):-**

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document, including plain XML, SVG and XUL, and is applicable to rendering in speech, or on other media. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.

### C. JavaScript:

JavaScript often abbreviated as JS, is a high level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multiparadigm. Alongside HTML and CSS, JavaScript is one of the three core technologies of World Wide Web content engineering. It is used to make dynamic web pages interactive and provide online programs, including video games. The majority of website seem play it, and all modern web browsers support it without the need for plug-ins by means of a built-in JavaScript engine. Each of the many JavaScript engines represent a different implementation of JavaScript, all based on the ECMA Script specification, with some engines not supporting the spec fully, and with many engines supporting additional features beyond ECMA.

# D. Hypertext Preprocessor (PHP)

PHP started out as a small open-source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.PHP is a recursive acronym for "PHP: Hypertext Preprocessor "PHP is a server-side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with several popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server. PHP performs system functions, i.e., from files on a system it can create, open, read, write, and close them.PHP can handle forms, i.e., gather data from files, save data to a file, through email you can send data, return data to the user. You add, delete, modify elements within your database through PHP.

#### E. MYSOL:

MySQL is an open-source relational database management system (RDBMS) based on Structured Query Language (SQL). MySQL is a popular choice of database for use in web applications and is a central component of the widely used LAMP open- source web application software stack (and other "AMP" stacks). LAMP is an acronym for Linux, Apache, MySQL, Perl/PHP/Python Free software open-source projects that require a full-featured database management system often use MySQL. Applications that use the MySQL database include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other software. MySQL is also used in many high?profile, large-scale websites, including Google (though not for searches), Facebook

#### F. XAMPP

XAMPP is the most popular software package which is used to set up a PHP development environment for web services by providing all the required software components. During the process of software deployment, most of the web servers use almost similar components, so use of XAMPP provides easy transition from local server to live server. XAMPP is a AMP stack which stands for Cross platform, Apache, MySQL, PHP, Perl with some additional administrative software tools such as PhpMyAdmin (for database access), FileZilla FTP server, Mercury mail Server and JSP Tomcat server. Other commonly known software packages like XAMPP are WAMP, LAMP, and others. The XAMPP server is used to test PHP pages. It works as local server. It contains a MySQL database to manage or save data on a local server.

#### G. WEB SERVER:

APACHE The Apache HTTP Server, informally known as Apache, could be a free and opensource cross-platform net server, discharged below the terms of Apache License two.0. Apache is developed associated maintained by an open community of developers below the auspices of the Apache software system Foundation. The Apache HTTP Server is cross platform as of one June 2017 ninety-two of Apache HTTPS Server copies run on UNIX distributions. Version 2.0 improved support for non-Unix operational systems like Windows and OS/2. recent versions of Apache were ported to run on OpenVMS and NetWare.

### **V. METHODOLOGY**

There are 3 modules.

They are 1. Admin Module 2.Faculty Module 3.Student Module
The system can be developed using web technologies HTML, CSS, PHP and using
the database MySQL. The front end can consist of user registration with the
respective university registered number and the password by the user. The student
can view his results in the tabular format with the respective aggregate and
percentage of that semester. The data based on the roll number of the student all the
data can be retrieved back to the table and displayed as results. The PHP can also
be used for visualization of data. We use fusion charts for the dynamic
visualization Primarily the data can be collected from the college administration.
This data includes university registered number of every student currently collected
is then classified and tabulated into useful and understandable manner.HTML is
used for structuring the web page and its content. It is used to develop different
pages like user registration, login page and the page for providing results.CSS is
used for styling the web page. PHP is used for connecting to the database and
perform operations on it through queries.

### **V. CONCLUSION:-**

Student Performance Evaluation System is an internet web site and may be used at anyplace, any time and by any student or college. This application can avoid the calculation and alter the method of visualizing results by students as well as faculty.

### VI. ACKNOWLEDGMENT

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