Bangladesh University of Professionals (BUP)

Faculty of Science and Technology

Department of Information & Communication Engineering (ICE)

Course Title: Web Technology Laboratory

Project On:

Student's Information Management System

Submitted to:

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Section: B

Introduction:

Student Information Management System provides a simple interface for maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date information regarding a students' academic career is critically important in the university as well as colleges. Student information system deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details and other resource related details too. It tracks all the details of a student from the day one to the end of the course which can be used for all reporting purpose, progress in the course, completed semesters, years, coming semester year curriculum details, exam details, project or any other assignment details, final exam result and all these will be available through a secure, online interface embedded in the college's website.

Project Overview:

In this project we have implement a website for Student's Information Management System. By using HTML, CSS, PHP, JAVASCRIPT we have done our Web Technology Project. Student's information can be managed and edited more easily and efficiently by using our website where in spite of manually managed info we used database to save our information and can be accessed by authorized users at anywhere at any time by using internet connected devices and can be managed data more efficiently also accurately.

Project Objectives:

Following are some objectives of our Student's Information Management System-

i) Creating more efficient database management of students.
ii) Providing an online based interface for authorized users of the website.
iii) To provide more secure and faster system than manual information handling.
iv) Increase paperless environment by using online resources.

Requirements Analysis:

To implement this project we have used the following language and server

i) HTML
ii) PHP

iii) Java Script
iv) Xampp
v) CSS

We have made two section for our project one is for the admin who can edit or input students detail info during admission or their required value into their database of students. We can also involve new members in authority by registering them newly as authorized access. In case of students they can access into their own detail info by logging to their own profile. They need to access through their Students ID and Department info. We also included info and services part at the top our website. In this project our fulfilled info will be directly stored into the table that we had attached into our xampp (phpmyadmin). We had attached javascript for forms. Admin can register students into the system database.

Detail Design & Information:

Following is the detail flow diagram and technology detail that we have used to complete our project-

Data Flow Diagram-

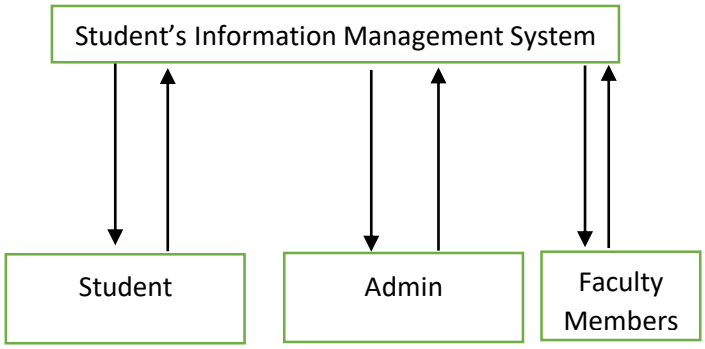

Fig-1: Data Flow

Following is the detail flow diagram for students and Admin-

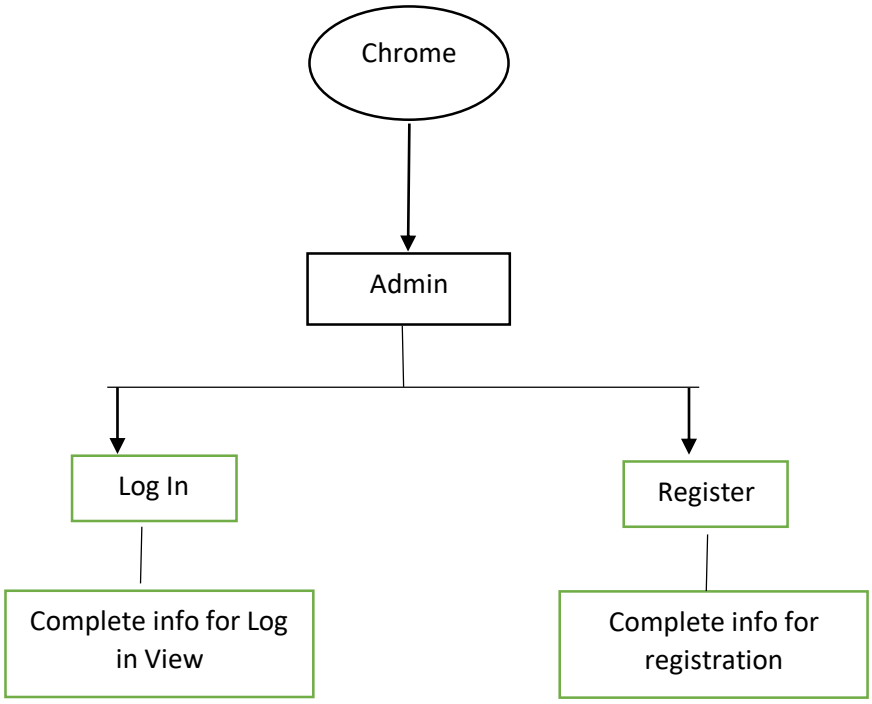

Fig-2: Data flow for Admin

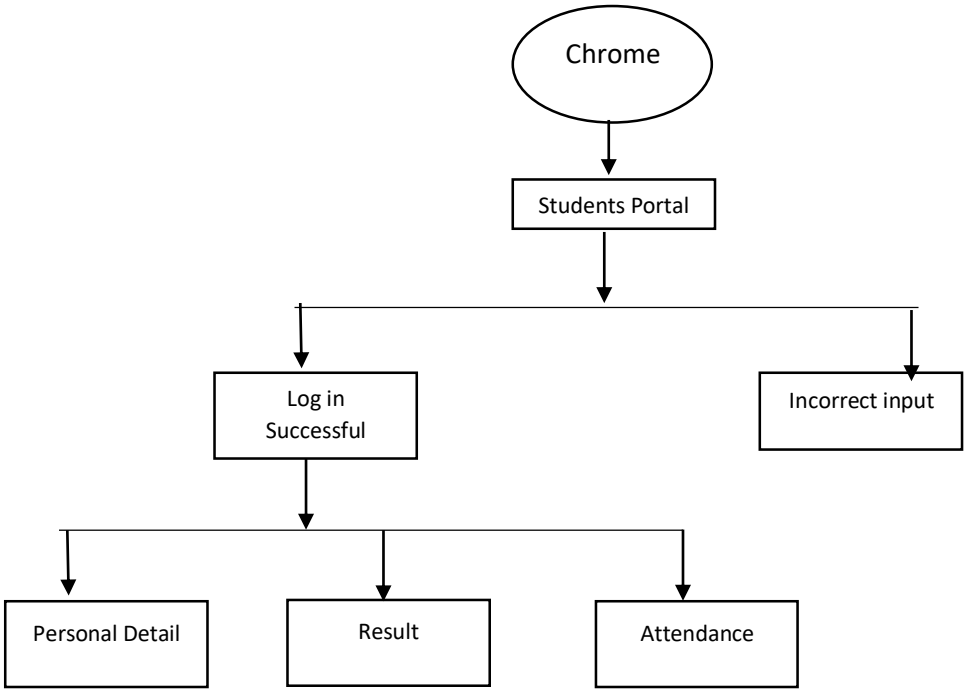

Fig-3: Data flow for Students

YouTube Links:

Channel Link-

1. https://www.youtube.com/channel/UCau-Bn4y0u6PA0rZfJ6IjCQ

Project Presentation Link-

1.

Technology used-

HTML:

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. In our project we have used HTML to create the desired content of our webpage and make it more informative.

CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate. CSS file which reduces complexity and repetition in the structural content as well as enabling the CSS file to be cached to improve the page load speed between the pages that share the file and its formatting. In our project we have used CSS for make the outlook of the webpage more consistent and made the page more efficient view.

JavaScript:

JavaScript often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions. Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web.[8] JavaScript enables interactive web pages and is an essential part of web applications. The vast majority of websites use it for client-side page behavior, and all major web browsers have a dedicated JavaScript engine to execute it. In our project we have used JavaScript for making the forms.

PHP:

PHP is a general-purpose scripting language especially suited to web development. PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be used for many programming tasks outside of the web context, such as standalone graphical applications and robotic drone control. Arbitrary PHP code can also be interpreted and executed via command-line interface (CLI).

Implementation and Results:

Conclusions:

Through this project we have tried to implement our web technology lab knowledge and practically viewed different web pages also implemented it by using HTML, CSS AND PHP. Student's information management project can helps to gather students info into system and view them according to need and requirement. We can also register and update our database as per requirement of the admin. Students also can view their result, attendance and others detail info through this web page.

References:

1. https://www.ijarcce.com/upload/2013/june/4shobha%20bharamaoudarWEB%20BASED%20STUDENT%20INFORMATION.pdf
2. https://en.wikipedia.org/wiki/HTML
3. https://en.wikipedia.org/wiki/CSS
4. https://en.wikipedia.org/wiki/JavaScript
5. https://en.wikipedia.org/wiki/PHP
6.