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EFFICIENT STUDENT FACULTY MANAGEMENT SYSTEM

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Abstract – In this fast era of technology we expect quick results for everything. Efficient student faculty management system will be more helpful for the students and teachers to increase the ease of communication. This system is a completely transparent system. This system provides functionality such as personnel details, result analysis, news regarding college as well as outer world, placement details, graphical representation of program of each student, exam details, activities happening in the college , feedback to faculty in every months and specifying the reasons for students taking leave. This Efficient student faculty management system also provides security. The heart of the web of organizations depends on the individual SQL database. There is a high risk and there is a medium risk but it is not easy to secure SQL database. Hackers often will damage the SQL database to perform copy , edit and delete the database. The vulnerable chances like these are very low in this system. It has the static and hidden URL. The user cannot even know what page or file they are residing. All pages are dynamic with enhanced reusability of scripts. The entire system is processing based on GUI. Our system has completely responsive design by using boostrap. The data usage is very low. Our project simplifies the task and reduces the paperwork. The traditional way is computerized by our project

Key Words: vulnerable, hackers, efficient

1. INTRODUCTION

Resources are the foundation of any instructive organization, administration of resources assumes a noteworthy part in choosing the achievement of the establishment. The fundamental calculated of "Productive Student Faculty Management System" depends on the web application that determines the staff points of interest. In earlier days overseeing personnel points of interest, a calendar was completely in view of manual exertion and it is tedious process. The "Proficient Student Faculty Management System" has been proposed to beat such issues.

Our point is to encourage constant information changes and refresh on a page without requiring a page reload. The reaction from the server doesn't need to be quick, similar to a page stack does. Other stuff can be occur in-between. The objective of any framework advancement is to create and execute the framework cost successfully. It most suited to the client's investigation is the core of the procedure. Investigation is the investigation of the different tasks performed by the framework like as include, refresh, erase, seek personnel points of interest and keep up relationship inside through the framework.

In "Proficient Student Faculty Management System" clients can be entered through utilizing a username and secret key. It is open by both HOD and workforce. In primary page, there are five fields. Dashboard, Subject Management, Class Management, Staff Data and Report are the fields keep up in this framework. Dashboard demonstrates a chart that give add up to number of staff introduce in every scholarly year. In subject administration, we can include subject with subject code, title and furthermore we can see the rundown which demonstrates the subject code, title and specific staff. Staff information give see information, include new staff , relegate subject and send notice. The information can be recovered effectively. The information's are all around ensured for individual utilize and make the information preparing quick.

2. SYSTEM DESIGN

Systems design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. One could see it as the application of systems theory to product development. There is some overlap with the disciplines of systems analysis, systems architecture and systems engineering. If the broader topic of product development "blends the perspective of marketing, design, and manufacturing into a single approach to product development.

INPUT DESIGN

Input design is one of the most important phases of the system design. Input design is the process where the input received in the system are planned and designed, so as to get necessary information from the user, eliminating the information that is not required. The aim of the input design is to ensure the maximum possible levels of accuracy and also ensures that the input is accessible that understood by the user.

The input design is the part of overall system design, which requires very careful attention. If the data going into the system is incorrect then the processing and output will magnify the errors.

Input design features can ensure the reliability of the system and produce result from accurate data or they can result in the production of erroneous information. The input design of the system includes the following

Class Enrollment

In this form, input is used to register the class details like id, name, mail ID and subject assigned.

Staff Enrollment

In this form, input is used to register the staff details in the campus database. User wants to give the inputs like staff ID, Name.

Subject Enrollment

In this form, the input is used to register the subject details like subject name abd code.

OUTPUT DESIGN

The output design was done so that results of processing could be communicated to the users. The various outputs have been designed in such a way that they represent the same format that the office and management used to.

Computer output is the most important and direct source of information to the user. Efficient, intelligible output design should improve the systems relationships with the user and help in decision making. A major form of output is hardcopy from the printer. Output requirements are designed during system analysis.

View Class Details

In this output form, the class information which is already enrolled in the database can be viewed and updated.

View Staff Details

In this output form, the staff information which is already enrolled in the database can be viewed and updated.

View Subject Details

In this output form, the subject information which is already enrolled in the database can be viewed and updated.

DATABASE DESIGN

PRIMARY KEY : ID
PURPOSE : To check user login credentials

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	id	int(11)			No	None	AUTO_INCREMENT
2	username	varchar(100)			No	None	
3	password	varchar(100)			No	None	

Table-1 : Table Users

PRIMARY KEY : ID
PURPOSE :To store class info

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	id	int(11)			No	None	AUTO_INCREMENT
2	dpt	varchar(250)			No	None	
3	sy	int(250)			No	None	
4	ey	int(250)			No	None	
5	yr	int(250)			No	None	
6	sem	int(250)			No	None	
7	cname	varchar(250)			No	None	

Table-2 : Class Info Table

PRIMARY KEY : ID
PURPOSE : To store the staff details
Information

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	id	int(11)			No	None	AUTO_INCREMENT
2	name	varchar(200)			No	None	
3	email	varchar(250)			No	None	
4	staffid	varchar(200)			No	None	
5	stat	int(100)			No	None	
6	file	varchar(250)			No	None	
7	role	varchar(100)			No	None	
8	username	varchar(250)			No	None	
9	password	varchar(250)			No	None	
10	img	varchar(250)			No	None	
11	sub1	int(11)			No	None	

Table-3:Staff Info Table

PRIMARY KEY : ID
PURPOSE : To store subject details.

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	id	int(11)			No	None	AUTO_INCREMENT
2	subcode	varchar(200)			No	None	
3	title	varchar(200)			No	None	
4	stat	int(100)			No	None	
5	sem	int(250)			No	None	
6	yr	int(250)			No	None	

Table-4: Subject Info Table

3. WORKING AND EXPERIMENTATION

The reason for System Implementation can be abridged as takes after:

It makes the new framework accessible to a readied set of clients (the sending), and situating on-going help and support of the framework inside the Performing Organization (the change). At a better level of detail, sending the framework comprises of executing all means important to teach the Consumers on the utilization of the new framework, putting the recently formed framework into creation, affirming that all information required toward the beginning of activities is accessible and precise, and approving that business capacities that connect with the framework are working appropriately. Progressing the framework bolster obligations includes transforming from a framework advancement to a framework support and upkeep method of activity, with responsibility for new framework moving from the Project Team to the Performing Organization.

Framework execution is the vital phase of task when the hypothetical plan is tuned into down to earth framework. The fundamental stages in the usage are as per the following:

Planning
Training
System testing and
Changeover Planning

Arranging is the principal assignment in the framework usage. Arranging implies choosing the strategy and the time scale to be embraced. At the season of usage of any framework individuals from various divisions and framework examination include. They are affirmed to commonsense issue of controlling different exercises of individuals outside their own information handling divisions. The line supervisors controlled through a usage planning advisory group. The council thinks about thoughts, issues and protestations of client division, it should likewise consider;

1. The ramifications of framework condition
2. Self choice and allotment frame usage errands
3. Consultation with associations and assets accessible
4. Standby offices and channels of correspondence

Module configuration is a standout amongst the most vital periods of the framework outline. Module configuration is where the information got in the framework are arranged and planned, to get essential data from the client, taking out the data that isn't required. The point of the module configuration is to guarantee the most extreme conceivable levels of exactness and furthermore guarantees that the info is open that comprehended by the client.

The module configuration is the piece of general framework plan, which requires exceptionally cautious consideration. In the event that the information going into the framework is wrong then the preparing and yield will amplify the mistakes.

The goals considered in module configuration are:

- Flexibility and painstaking quality of approval rules.
- Handling of properties inside the info records.
- Screen configuration to guarantee precision and productivity of the information association with records.
- Careful outline of the module likewise includes thoughtfulness regarding blunder dealing with, controls, clumping and approval methods.

Module configuration highlights can guarantee the unwavering quality of the framework and deliver result from exact information or they can bring about the generation of wrong data.

MODULES DESCRIPTION

A. Login

- Staff subtle elements enlistment process

UI plan or UI building is the outline of PCs, apparatuses, machines, versatile specialized gadgets, programming applications, and sites with the attention on the client's involvement and association. The objective of UI configuration is to make the client's connection as straightforward and productive as could be allowed, as far as achieving client objectives—what is regularly called client focused plan. To run our remote control framework we build up a GUI application in JAVA Swing. Client can without much of a stretch execute the task with the assistance of GUI.

In this task we utilized a Campus application shape. This shape contains the titles, names, combo box, table, radio catches and so forth. This GUI is utilized to embed, refresh and erase the understudy's subtle elements and friends points of interest.

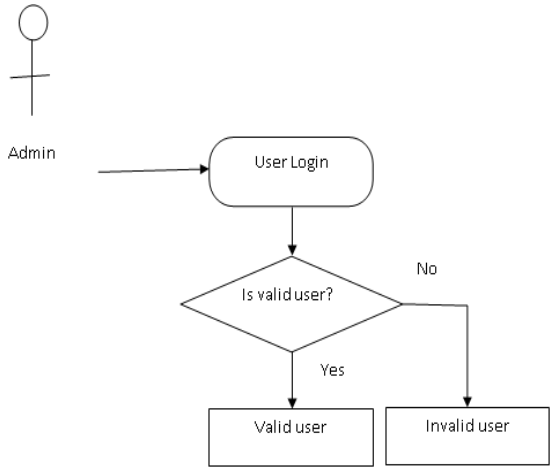

Fig-1: Login Module

B. Class subtle elements enlistment process

Enlistment process is including the data in database for our future utilize. In our undertaking enlistment take higher significance in light of the fact that by utilizing this data just our task will work. In this undertaking select process includes class data, staff data and subject data. In class data following points of interest are enlisted like class name, division, cluster, year, semester. All points of interest are included database year shrewd. The client can alter the class' data and erase the whole information from database as well.

In class subtle elements we keep up the class exercises like keeping up the put class' points of interest and bunch subtle elements in database. The client can adjust the class' data and erase the whole information from database as well.

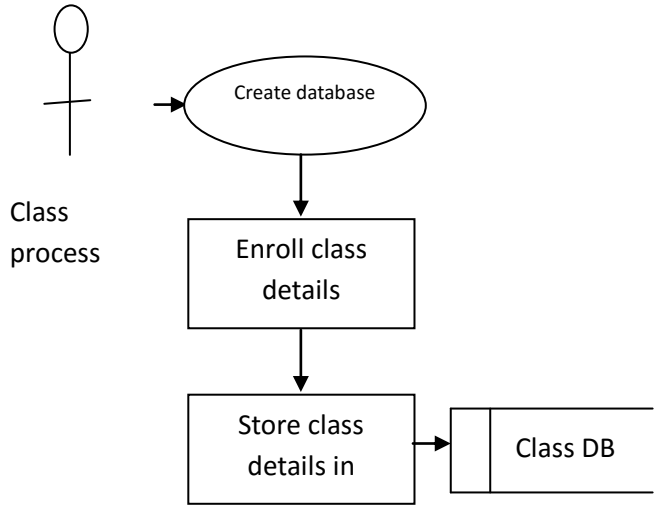

Fig-2: Class subtle elements enlistment process

C. Staff subtle elements enlistment process

In this venture enlist process includes staff data and class data. Enlistment of staff points of interest in this procedure we keep up the staff profile and guidelines and direction of the organization. In staff data the accompanying points of interest are enlisted like staff name, mail id, staff id, subject relegated, continue. All points of interest are kept up in database year astute. The client can adjust the organization data and erase the whole information from database as well.

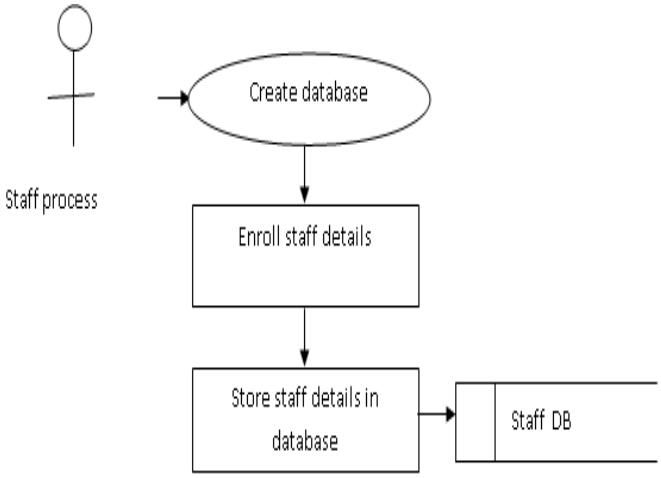

Fig- 3 :Staff subtle elements enlistment process

D. Subject subtle elements enlistment process

In this task enlist process includes subject data and staff data. Enlistment of subject points of interest in this procedure we keep up the subject profile and principles and direction of the scholarly year. In subject data the accompanying subtle elements are selected like subject code, title, current cluster, year and semester. All points of interest are kept up in database year shrewd. The client can alter the subject data and erase the whole information from database as well.

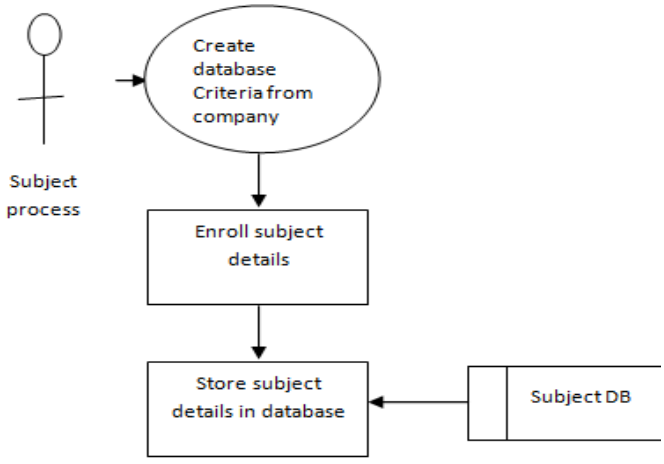

Fig -4: Subject details enlistment process

4. RESULT

We developed project which is free of errors and efficient. We have facilitated real time data changes and update on a page without requiring a page reload. Users can login using a username and password. We have introduced a chat bot which gives all the details regarding our college using artificial intelligence.

Vulnerable chances has been reduced to the maximum as there is static and hidden URL. We have provided a user friendly interface. Once the details are fed into the computer, there is no need for various persons to deal with separate sections. Only a single person is enough to maintain all the reports. The data can be retrieved easily. The data's are well protected for personal use and make the data processing very fast.

Background data processing is by using Ajax as our project will work fine even with slower connection. It is a perfectly ordered file system with enhanced reusability of scripts. It goes through all the faces of software development life cycle. So our project is accurate.

5. CONCLUSION

The project "Efficient Student Faculty Management System" has been developed with much care that it is free of errors and at the same time it is efficient and less time consuming. The important thing is that the system is robust. It avoid malfunction from outsiders .It goes through all phases of software development cycle. So the product is accurate. In this project this system fetch the data from multiple tables and will be processed using PHP script to display mandatory data by combining all the tables and without creating a new one. All the processes are done in the background without requiring even a single page redirection which enhances the security by hiding the actual URL also by decreasing the chance of page vulnerability.

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