ABSTRACT

In the present system the information of teachers is manually written in logs. This is an extremely time consuming and labor intensive process as there is a need for a person to sit and update the log every time there is an update or change in any teachers records. Also at present, if the head of department wants to view data about a group of teachers or the whole department then there is no method other than to manually go through the logs and find the data.

Faculty Management System automates this system by making the teachers to keep their profiles updated themselves with the help of an online portal. The portal will be designed in an easy to use manner so that the easily register and update their information. The teacher can also update the information regarding him or her using the portal as and when required. The head of departments and the college can also view data about the teachers under them in a consolidated manner and also view just specific fields of all the teachers. Furthermore we will be providing the functionality to generate reports which will be giving pdf files that can be downloaded and viewed.

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INTRODUCTION

1.1 Purpose:

The purpose of developing this site is to make the teachers able to enter their details and manage them as it suits to them. The site aims to provide automated report generation for all sorts of details related to their academic qualification or professional areas such as awards won, books authored, journals published etc.

1.2 Scope:

The project focuses on teaching and administrative staff in the campus. This facilitates and eases the amount of paperwork done by the staff in the college. The web site will provide all the teachers in the college to enter, update, view and delete their professional and academic details. This is also scaled to various departments in the college. It can also provide the admin with the facility of generating reports of faculties belonging to different departments and specific department when chosen.

1.3 Motivation:

In the present system the information of teachers is manually written in logs. This is an extremely time consuming and labor intensive process as there is a need for a person to manage the logs every time, there is an update or change in any teachers' records. Also at present, if the head of department wants to view data about a group of teachers or the whole department then there is no method other than to manually go through the logs and find the data.

We wish to automate this system by making the teachers to keep their profiles updated themselves with the help of an online portal. The portal will be designed in an easy to use manner so that they can register on the portal and manage their information. The head of departments and the administrative staff can also view data about the teachers under them in a consolidated manner and also view specific fields of all the teachers. Furthermore we will be providing the functionality to generate reports which will be giving pdf files that can be downloaded and saved.

1.4 Literature Survey:

From the early 18th century till date, there have been many visionaries, many educationists who all have one goal, the goal to make their education institute big worldwide, so that everyone can take their resources easily. From many years there is been technological advancement in every field, so as in web, we can access the whole world from our desk by just having internet.

So the aim is to provide a portal for faculties to keep the data structured and make life easier for the faculties and the administrative staff. The portal simplifies the operations of inserting, updating and searching of records.

Now the topic of reliability comes into picture, the user should get some satisfaction on which they can rely on; the module is providing ratings which can be used for comparing between different sources.

Regular analysis by the concerned people has given dimensions to the project. The requirements given by the authority has been given the utmost priority and the project fulfills all the requirements. The user interface has been made user friendly and simple for the easy access of the user.

SOFTWARE REQUIREMENT SPECIFICATIONS

2.1 Overall Description

The proposed system has been designed to help the faculties to store their academic and other information. It also helps the teachers to create and update their details. The data of the faculty is secured at every instance of time. The admin can also manage the accounts of every faculty.

2.2 Specific Requirements

The requirements of the faculty management system are to develop:

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Communication Interfaces

☑

Communication between database and front end pages is through PHP, which is auto configured application for virtual server in a computer which is automatically configured. Lampserver is a linux web development environment which allows the user to create web applications with apache2, php and mysql database. Alongside, phpmyadmin also allows managing databases with the help of GUI easily. It is connected with front end with a connection string used in HTML pages.

[Proposed, Medium difficulty]

RESPONSIBILITIES (INTERNAL REQUIREMENTS)

☑ Hardware Requirements

- Operating System: Windows XP, Windows Vista, Windows 7, Windows 8
- Processor: Pentium 3.0 or higher
- RAM: 256 Mb or more
- Hard Drive: 300MB or more

[Proposed, Medium difficulty]

☑ Software Requirements

- Front End: HTML5, CSS, Javascript, AJAX, Jquery, JSON
- Backend: PHP, Mysql
- Browser: Any modern browser that supports AJAX
- OS – Linux or Windows

[Proposed, Medium difficulty]

☑ User Interfaces

The database designed should be very easy to use and user friendly.
- Admin can see and modify the details of the faculties.
- One user can not edit the information of another user.
- A user can retrieve information of oneself.
- Admin can retrieve information of all the users.

[Proposed, Medium difficulty]

2.2.1 Functionality

The two main user groups and access levels are:

- Faculty (restricted access level)
- Admin (privileged access level)

Therefore, the requirements could be efficiently analyzed depending on the user group and the functionalities they should be allowed to perform.

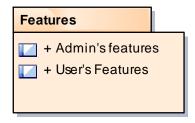## 2.2.1.1 Functional Requirement –User

Features

+ Admin's features
+ User's Features

Fig. 2.1 Functional Requirements

Features

Administrator's features

- Admin should be able to generate reports of all faculties.
- Admin should be able to generate reports for all faculties in all departments.
- Admin should be able to generate department-wise reports.
- Admin should be able to change his/her password.

User's features

- User should be able to login and register himself/herself to the portal.
- User should be able to change password.
- User should be able to add documents pertaining to given information.
- User should be able to overview the details of each category.
- User should be able to update the previous data.
- User should be able to filter on the basis of the given fields and then delete the records.
- User should also be able to filter the records in order to generate reports in pdfs.

- User should be able to generate customized resume, with categories he chooses, between the given dates.
- User should be able to upload images of awards won, conference attended and papers or journals published.
- User should also be able to upload merit cards for his/her qualification details.

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2.3 Non functional Requirements

2.3.1 Performance Requirement

- The PCs used must be atleast pen angalo machines so that they can give optimum performance on product.
- In addition to these requirements, the system should also embrace the following requirements
- **Reliability** - The system should have little or no downtime and be able to handle multiple concurrent users.
- **Ease of use** - The general and administrative views should be easy to use and intuitive. Online help and documentation should be provided.
- **System and browser compatibility testing -** The system should be accessible on the following browsers – Microsoft Internet Explorer 7.0+, Netscape Navigator 6.0+ and Mozilla 1.3+, Google Chrome

2.3.2 Security Requirements

It is of utmost importance to ensure that access to the database is restricted and the information is provided on "Need to Know" basis. Users are provided with a unique User ID, Username and corresponding Password to authenticate their access levels. Similarly, only by having a faculty_id the admin can oversee the various data which has been created by all the faculties. Each client has a password with which he can access his account. The email id provided by the user at the time of registration is checked for validity by sending an activation mail to that account. Password recovery is also provided which is sent to the user's registered mail .