



# Website and Mobile app development for Faculty Information Management System

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**ABSTRACT-** Website and Mobile App for Faculty information management system is designed with interactive filter options which will generate reports on Academic details, Personal details, workshop details, Publication details. Today in a technological world it is hard to maintain records manually and its outdated. Our Project makes it easy to access the Faculty records on the go. The Faculty Information Management System is designed for faculty in an organization. It consists of many modules such as Faculty registration, Login, Personal details, Academic Details and Non academic details. Faculty Members can add or view their details using their enrolled Faculty ID. They can upload proofs for ensuring their details. The admin can enroll the faculty and view faculty profile. The data are well protected and makes the data processing very fast.

**Keywords** - PHP, HTML, CSS, Database

## I.INTRODUCTION

Faculty Information Management System is designed and developed to serve the faculties of Kamaraj College of Engineering and Technology. The main intension of our app development is to ease the process of data collection and report generation required for doing NBA work.

In earlier stage, man of criterion in charge requests all the details required from faculty manually. He has to repeatedly sent circulars, notifications to submit their proofs for attending workshops, conferences, journal publication details et., for filing

work. All the information are maintained in Papers and filed for future references.

Sometimes due to unavoidable location shifts from one block to another block there may be a chance for missing files.

In some occasion the higher level people like Principal, HOD may need information regarding faculty details. But they need to depend on the corresponding Criterion In charges to know the details. This may cause the top management people waiting for long time. The case is very critical if the concerned in charge is difficult to reach ( due to classes, on leave, etc..) which means that they couldn't get to know the information on time.

FIMS is designed to overcome all theses consequences.

## II.RELATED WORKS

S.R.Bharamagoudar<sup>[1]</sup> et al. proposed a web based Student Information Management system which is very helpful for faculties in the following aspects:

- Student details
- Academic details
- Placement details
- Attendance details etc.,

This system explores all the activities happening in the college, Different reports and Queries can be generated based on vast options related to students, batch, course,



faculty, exams, semesters, certification for the entire college.

Chetan Barot<sup>[2]</sup> et al. developed a system for Faculty and Students using PHP to serve various roles like HOD, Admin, Examiner, Students and Staffs. The main objective of their system is to develop application which will automate the process of managing all details required for institution.

Ghemud Rahul Dhanaji<sup>[3]</sup> et al., developed mobile application for Faculty management system to meet the needs of faculties and students by covering following sections :

- Attendance
- Daily conduction
- Fort night report and other activities

This application helps both students and staffs in reducing their workload and maintains the records easily and correctly.

#### A. Findings

All the surveyed papers give clues to identify the needs, structure the information gathered and helps in choosing the correct technology to develop the system.

Further some of them tried to give it as a web based application, and few give it as a Mobile based application, our focus is to concentrate on both Web based and Mobile application to serve the diversified users.

### III. THE PROPOSED METHODOLOGY

The main objective of FIMS is to reduce the time consumed during Faculty details maintenance. This system makes the application user friendly by providing attractive user interfaces. FIMS covers all the works taken by the Faculty in an organization. As stated earlier in related works FIMS is to satisfy diversified users. Users of a system can independently access the details based on the role based authentication facility any where any time either by using web based or mobile based application.

Users of the system are ADMINISTRATOR, HEADS OF THE DEPARTMENTS and FACULTY MEMBERS. Every user will be provided with a proper username and password. The password of each user is encrypted using MD5 algorithm for better protection of data.

The responsibilities of each user are given below:

#### A. Administrator

The administrator will assign privileges to all the faculties in an organization. Administrator is the top most level with all possible rights. He can able to do the following:

- a) The Administrator is responsible for adding new faculties to the system.
- b) The administrator will generate report as per the requirements from faculty details.

#### B. Faculty Member

Faculty has limited access to the system. Every faculty has provided with their unique login ID and Password. Unauthorized user access is denied.

They have the following rights:

- a) Can add their academic and non academic details.
- b) Can modify their profile
- c) Can upload proofs for ensuring their details entered into the system.

#### C. Head of the Department

HOD can also be an admin to the system. They have the following rights:

- a) They can view the accounts of every faculty.

### IV. SYSTEM DESIGN

FIMS deals with MVC Architecture. Following MVC architecture, FIMS System and Database architecture is explained.

#### A.MVC Architecture

FIMS follows PHP MVC framework for designing the user interfaces. MVC frame work has three components named Model is responsible for maintaining data, second one View is to present information to the user and the third one is control which has the business logic to control view and model. This process is show in the Fig 1.

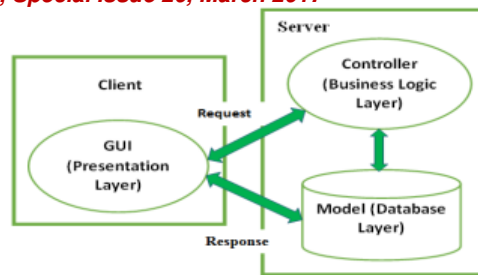


Fig 1 MVC Architecture

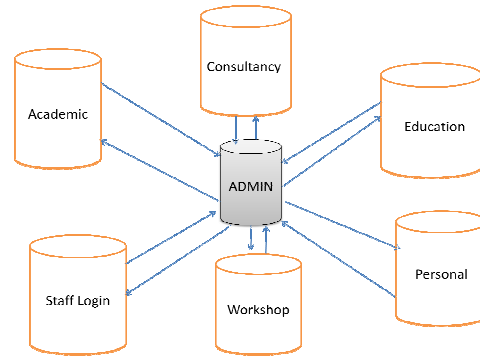


Fig. 3. Database system Architecture

### B. System Architecture

FIMS system architecture is shown in Fig 2. As per the diagram both faculty and admin can login to the system using their credentials for accessing information. Responsibilities of each user are explained in proposed system architecture.

### C. Database Architecture

FIMS Database architecture is displayed in Fig. 3. Database is designed using MySQL and XAMPP server. JQuery is used to for performing database operations. This system has six different tables to maintain Academic, Consultancy, workshop, Login details, Personal details, Education details.

## IV. RESULTS AND DISCUSSION

FIMS system home page is designed as shown in fig. 4. The same web based FIMS application can be converted to Mobile Application using the software called phonegap.

### A.Login Page

Our system starts with login page where the registered users can access only by using valid user name and password credentials. Fig. 5 shows login form. Fig.6. Displays the login details of faculties stored in database.

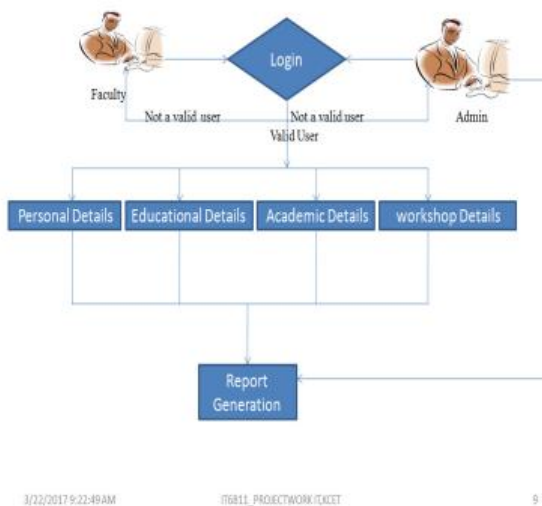


Fig 2. System Architecture



Fig 4.Website page



Fig. 5. Login Page

PERSONAL DETAILS	
Name	
DOB	
Blood Group	
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female
Phone Number	
Email-id	
Address	
City	
AU Staff ID	
PAN Card No	
AICTE ID	
Hobbies	
<input type="button" value="GO"/>	

Fig. 7. Faculty profile form

#### B. Faculty Profile

Fig. 7 shows Personal details form which contains details of faculty information including Staff ID, AICTE ID etc.,. Once the user click Go button all the information are stored in the personal details table (which is shown in Fig. 8) and displays successfully inserted acknowledgement message to the faculty member.

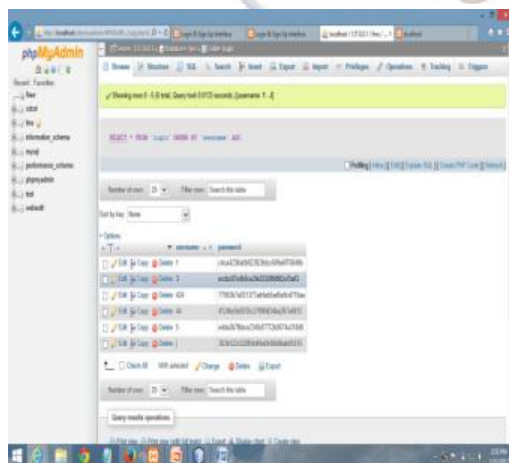


Fig.6. Faculty login information

#### V. CONCLUSIONS AND FUTURE ENHANCEMENTS

The Faculty Information management System offers new possibilities for workflow planning and organization by:

- Running a well structure database
- Guaranteeing a fast and easy information access.
- Guaranteeing a data protection.
- Presenting a good interactivity and flexibility.





Faculty ID	Name	DOB	Gender	Blood Group	Phone No.	Address	City	PIN Code	Status
1	1987-01-01	Female	B	19870101	1234567890	123456	123456	123456	1
2	1988-02-02	Male	A	19880202	1234567890	123456	123456	123456	1
3	1989-03-03	Female	B	19890303	1234567890	123456	123456	123456	1
4	1990-04-04	Male	A	19900404	1234567890	123456	123456	123456	1
5	1991-05-05	Female	B	19910505	1234567890	123456	123456	123456	1

Fig. 8. Faculty Personal details Table

As years go the data generated by the system will be more as compared to the present scenario. To handle this situation the system will be further enhanced using Cloud and Bigdata analytics.

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