

# The Teachers Management System

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**Abstract** - Over the past few decades, universities all over India have been experiencing new paradigms in the way they handle and manage Teacher's information due to the proliferation of ICTs and its applications such as web-based Teacher management systems. With the adoption of such systems as the Teacher Management System (TMS) in academic institutions, the experience is that it will become easy to harness and fast track all Teacher's records in one centralized database via the internet technology. The paper is about to introduce the environment for faculties to handle their work and maintain record easily instead of doing a lot of paperwork. This can be achieved by Web application. There are many different ways of handling this problem but not as easy as the web application. Web application provides the platform for the universities to overcome such issues and complex work. This Web application is platform independent workspace for faculties so that they can access or use it with ease from no location dependency. Effective and efficient ways of managing all the stuff can be done easily. Better secure transfer of the All information provided using the latest technologies. This Web-Portal will be most useful in future so that reducing paperwork will affect the time as well as the environment.

**Key Words:** Teacher Information System, Database, HTML, SQL

## 1. INTRODUCTION

Teachers have an important role to play in enhancing the system of education and in leading to effective development of skills and abilities among the students, particularly in leading to their growth and progression. When the teachers are recruited in educational institutions, then certain aspects need to be taken into consideration. This includes, educational qualifications, skills, experience, and personality traits. In the case of teacher management, the important aspects are, demonstration of personal and professional qualities

necessary for effective management of teaching and learning in the school as learning organization, creating and managing the learning environment, managing the planning and implementation of teaching, monitoring and evaluating teaching methods, understanding and leading an effective program of classroom observation, possessing awareness in terms of good teaching practices and applying relevant content knowledge for the renewal of operative teaching and learning. The teachers recruited within schools need to possess adequate knowledge and information in terms of the subjects they are teaching. In addition, they should be aware in terms of proper use of teaching-learning methods and instructional strategies. When teaching-learning methods are implemented, then it is vital to take into consideration two major aspects. Teacher management in an appropriate manner proves to be assisting in enabling them to achieve their desired goals and objectives. The teachers are able to augment their knowledge and abilities and carry out their job duties in a well-organized manner. Furthermore, they are also able to manage policy planning, school development and governance. Policies, strategies and instruments are necessary for addressing the major problems that may arise within the course of teaching

1) As we all know the whole world was hit by covid-19 pandemic and our country went on complete lockdown which includes all universities.

2) So it was hard to get track of teachers' status and to get contact with teachers and update and manage files.

3) Managing files and paperwork in our universities is also a tedious task.

4) Then we decided to do something regarding this problem and we started working on our project.

### 1.1. Objectives

1) To develop friendly user interfaces.

2) To create a database to store, manage and backup records.

- 3) To create an administration page that will show statistical analysis.
- 4) To allow information to be entered by the user, control information in the system and tracking of current status to enhance access.
- 5) To determine new teachers hired, joining date, salary, etc.

## 2. PROBLEM STATEMENT

Every year through the government exam plenty of teachers get hired and posted in various government schools. The tracking of teachers from recruitment to their entire service duration is done manually which makes it difficult to manage and keep track. Addressing this problem we will give the government the ease of managing teachers through one single portal which will help in maintaining clear stats of the teachers currently posted.

## 3. LITERATURE SURVEY

As mentioned in the paper “Web Based Student Information Management System” by S.R.Bharamagoudar, Geeta R.B., S.G.Totad (International Journal of Advanced Research in Computer and Communication Engineering Vol. 2, Issue 6, June 2013) provides the system using the application software, but it requires the high speed internet connection which is a further disadvantage of it. Instead of using that application we provide the stand alone environment so that it can be easy to use on the slow internet connection also. To overcome such disadvantage we use the web based platform which can be easily operated using the smart devices such as smartphones, iPad, tabs etc. Input is given by the faculties directly by using in the web application interface. It can be easily modified using the teachers and the universities. The use of web applications for managing paperwork in universities has been the subject of several studies in recent years. A literature survey on this topic reveals the following key findings: Benefits of using web applications for paperwork management: Web applications offer several benefits for managing paperwork in universities, including increased efficiency, improved organization, reduced errors, and better collaboration among teachers and administrative staff. Features of effective web applications: Effective web applications for paperwork management should include features such as document storage, search and retrieval capabilities, task management tools and user permissions and access controls. Challenges and considerations: Some

challenges associated with implementing web applications for paperwork management in universities include data security concerns, integration with existing systems, and training and support for users. It is important to carefully consider these factors when selecting and implementing a web application for this purpose. Case studies and success stories: Several universities and educational institutions have successfully implemented web applications for paperwork management, resulting in improved efficiency and reduced administrative burden. Case studies and success stories can provide useful insights and best practices for those considering implementing a similar solution. Future research directions: Future research in this area could explore the effectiveness of different types of web applications for managing paperwork in universities, as well as the impact of these tools on teacher and administrative staff satisfaction and workload. Overall, the literature survey suggests that web applications can be an effective tool for managing paperwork in universities. However, careful consideration should be given to factors such as data security and user training and support to ensure successful implementation and adoption.

## 4. METHODOLOGY

**End User** - This is the interface that interacts with users through screens, forms, menus, reports, etc. It is the most visible layer of the application. It defines how the application looks. In this layer client can send request to web server as per required.

**Web layer** - This is the topmost level of the application. The web layer displays information related to such services as browsing information, purchasing and visual effect contents. It communicates with other tiers by which it puts out the results to the browser/client tier and all other tiers in the network. In simple terms, it is a layer which users can access directly (such as a web page, or an operating system's GUI).

## 5. ALGORITHM / STEPS

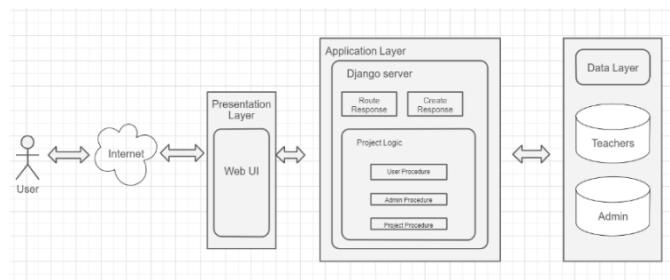
- 1) Start
- 2) User (Teacher, Super user) create account by providing user id, its own password and other details.
- 3) Login with credential and if right user gets the access to portal.
- 4) After getting access teacher can add their details on the portal.

- 5) Admin can create account, update, delete account of teacher.
- 6) After all teacher data is stored in database for further use.
- 7) Stop.

## 6. SYSTEM ARCHITECTURE

**End User** - This is the interface that interacts with users through screens, forms, menus, reports, etc. It is the most visible layer of the application. It defines how the application looks. In this layer client can send request to web server as per required.

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## 7. MODULES

- 1) Module register User (Sign Up) :- It is a module which registers the users and makes profile. User can be Teacher and Super User.
- 2) Module authUser:- In this module user gets authenticated using login credentials.
- 3) Module getUser profile:- With this module user can access to their profile allocation.
- 4) Module updateUser profile:- User can change and update their profile information with this module.
- 5) Module makeTeacher profile:- Teacher can fill their details with this module.
- 6) Module updateTeacher profile:- Super user can edit or update teacher details with this module.
- 7) Module deleteTeacher profile:- Super user can delete teacher details with this module.

// Function to create a teacher profile

Function createTeacherProfile(username, profileData) If user exists with given username

If user type is not "Teacher"

Return error message "User is not a teacher"

Else

Update user's profile with profileData in database

Return success message "Teacher profile created successfully"

End If

Else

Return error message "User not found"

End If

End Function

End Module

## 8. RESULT AND DISCUSSION

The results section is a section containing a description about the main findings of a research, whereas the discussion section interprets the results for readers and provides the significance of the finding.

### 8.1 Results

In result section, are discussing through some of the snapshot of application.

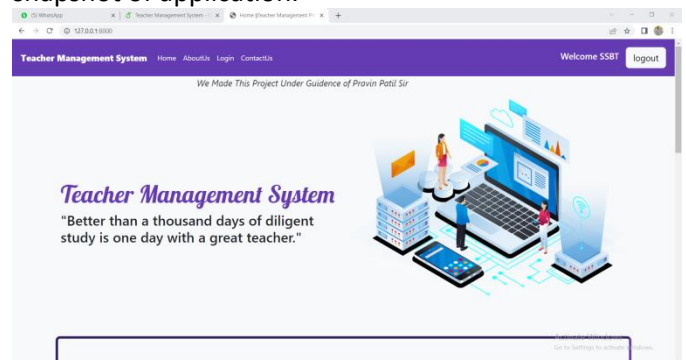


Figure 8.1: Teacher Management System Home Page

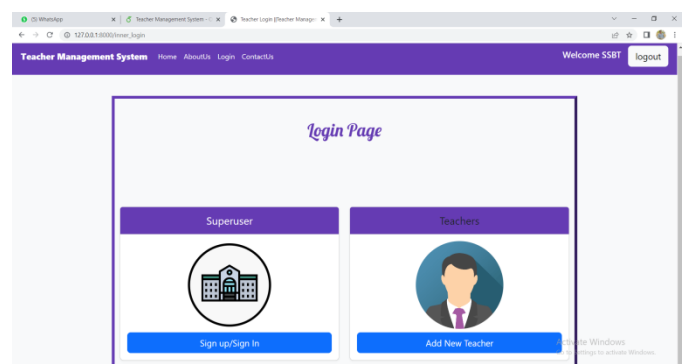


Figure 8.2: Super User and Teacher Login Page

## 8.2 Discussion

The purpose and objectives of the system, such as streamlining administrative tasks, tracking teacher performance, and improving communication between teachers and administrators the features of the Teacher Management System, such as user authentication, teacher profile management and performance evaluation. the benefits of the system for teachers, administrators, and other stakeholders, such as improved efficiency, better communication, and more accurate data. the challenges associated with manual tracking of teachers, such as human errors, time-consuming processes, and difficulty in accessing accurate and up-to-date information. the automation of the Teacher Management System can address the challenges of manual tracking and bring several benefits, such as reducing administrative burden, improving accuracy and efficiency, and enabling timely decision-making. the system can help track the recruitment process of teachers, including application submission, screening, selection, and placement. It can also capture the details of the recruitment exams, interviews, and training sessions. the system can help manage personal information of teachers, such as their name, contact details, educational qualifications, work experience, and other relevant data.

## 9. CONCLUSIONS

Every year through the government exams plenty of teachers are hired and posted in various government schools. The tracking of teachers from recruitment to their entire service duration is done manually which makes it difficult to manage and keep track. Our Portal Overcome all those problems.

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