



Web Based Managerial Institute Interactive Dashboard

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ABSTRACT: The proposed system is to add mobility and flexibility to the process of managing student information in an institute. Every college has to maintain a management system for various sections which may include performance analysis, attendance system, student information, fee structure, academic information, staff information and many more. An “Web Based Managerial Institute Interactive Dashboard” is a college level application builds core functions like admissions and fees, HR and payroll etc. System should support multi-user environment. System should be fully automated. This system can be used as a knowledge/information management system for the college. This system can be preferred for monitoring attendance for the colleges. Students as well as staffs login may also access or can search any of the information concerning college. Attendance of the students along with their marks will be updated by staff. This system is being developed for an institute to maintain and ease easy access information. For a student/staff(technical/Non-technical) can access the system to either upload or download some information from the database.

KEYWORDS: Admin module, Student module, Teacher module, Attendance, Database, Information System.

I. INTRODUCTION

Enterprise Resource Planning (ERP) college web application is the one kind of web application which integrates all the modules and functionalities of college system on a single system that can be handled by the administrative head and access by the students and faculties with valid user id and password. As we know that, a college consists of different departments, such as course departments, fee Management, Document Generation, Attendance etc.

Nowadays applications and uses of information technologies is increased as compared to before, each of these individual departments has its own computer system to do their own functionalities. By having one main system they can interact with each other from their respected system by having valid user id and password. System mainly focuses on the HR and payroll. The staff attendance management is also important with the help of fingerprint attendance machine attendance taken and calculation of salary is performed. The second module is leave module.

In leave module faculty apply for the leave then application forward to head of department if HOD approve the application then it forwarded to principal if principal approve the application then leave is approve else leave is cancel. Once the details are entered into the system by the authorized person then there is no need for other users to deal with separate section. Only a person that is having an administrative authorization is enough to maintain all the reports and records of the system. The security can also be provided as per the requirements. The main thing is that our system reduces the human works at a great effort.

II. LITURATURE SURVEY

The system provides guidance to the admin to keep track of each student. The admin have the access to the database of system. In an educational institute management is crucial thing. So in order to reduce the efforts of staff we are introducing our system. The system comes on with much functionality like registration, Leave management, HR and Payroll etc. It provides a additional feature notice that helps the student to get department notices so that manual work is reduced. This system is paperless system. System provides functionality for student to application where in admin can manage student can access uploaded notes, course details. Student will get the event details. Overall manpower and reduces the time required.



III. PROPOSED ALGORITHM

An “Web Based Managerial Institute Interactive Dashboard” is a college level application builds core functions like admissions & fees, time table & Attendance, Document generation , HR and payment. The system also maintains attendance details of a particular student. At the end of each month, the number of classes attended by each student is displayed.

The registration of student and faculty performed by admin and automatically generate username and password. The username is generated with following format, username=year+month+increment id.The password is generated with random numbers.

The admin perform other task also like upload attendance sheet of staff and generate salary. The salary calculation Performed with following points,

$$\text{Salary}=\text{Basic}+\text{AGP}+\text{DA}+\text{HRA}$$

$$\text{DA}=\text{Basic}+\text{AGP}*72\%$$

$$\text{HRA}=\text{Basic}+\text{AGP}*10\%$$

The faculty views their profile and they can edit the profile.The faculty can upload notice, assignment, attendance of students etc. The faculty can apply for leave.

The student can view profile and download documents. Student can view notice, attendance, assignment etc.

The HOD and Principal have different login credentials with help of that they can login and approve the application or reject the application.

PSEUDO CODE

Step 1: Perform login by user.

 If (role==admin)

 Perform registration or salary calculation.

 Else if(role==faculty)

 Perform task like upload documents etc.

 Else if(role==student)

 Student view profile or download documents.

 Else

 Go to step1

end

Step 2: End.



IV.SIMULATION RESULTS

In accordance with our college requirements we design the institute interactive dashboard system. It can improve efficiency and flexibility of the work.

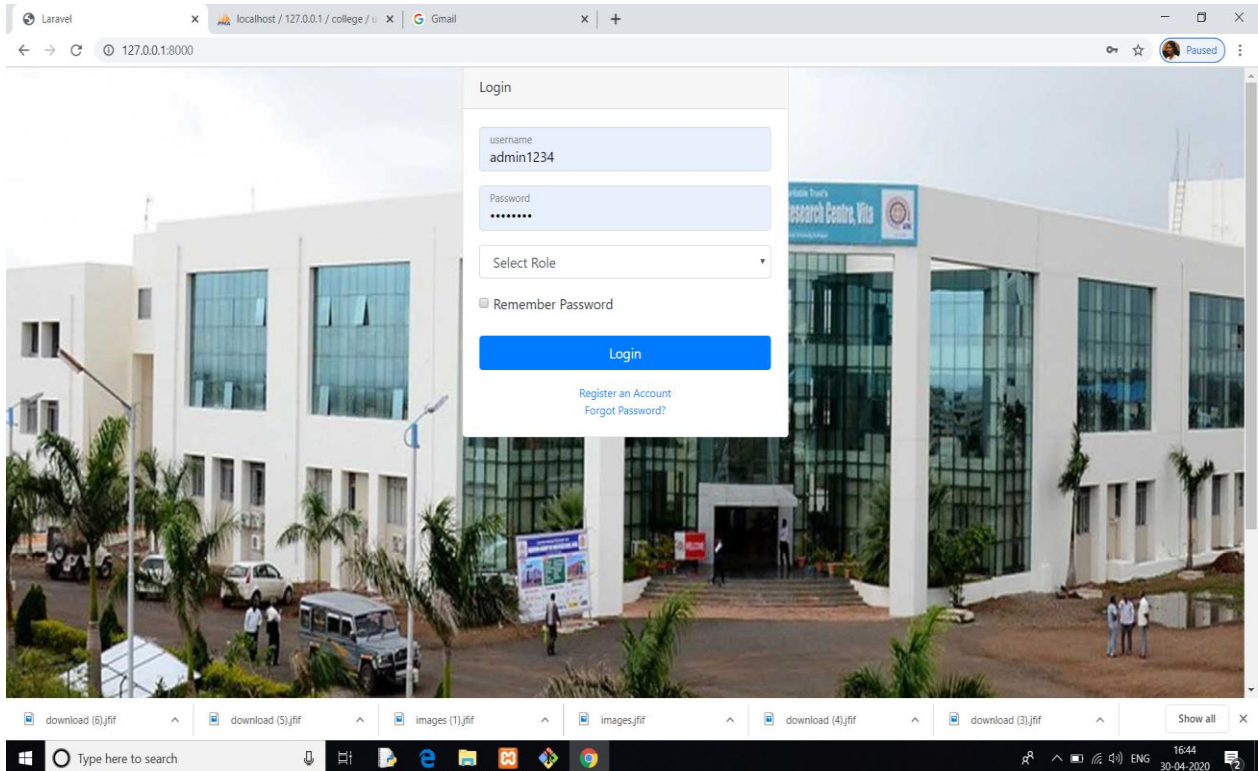


Fig.1- Home Page

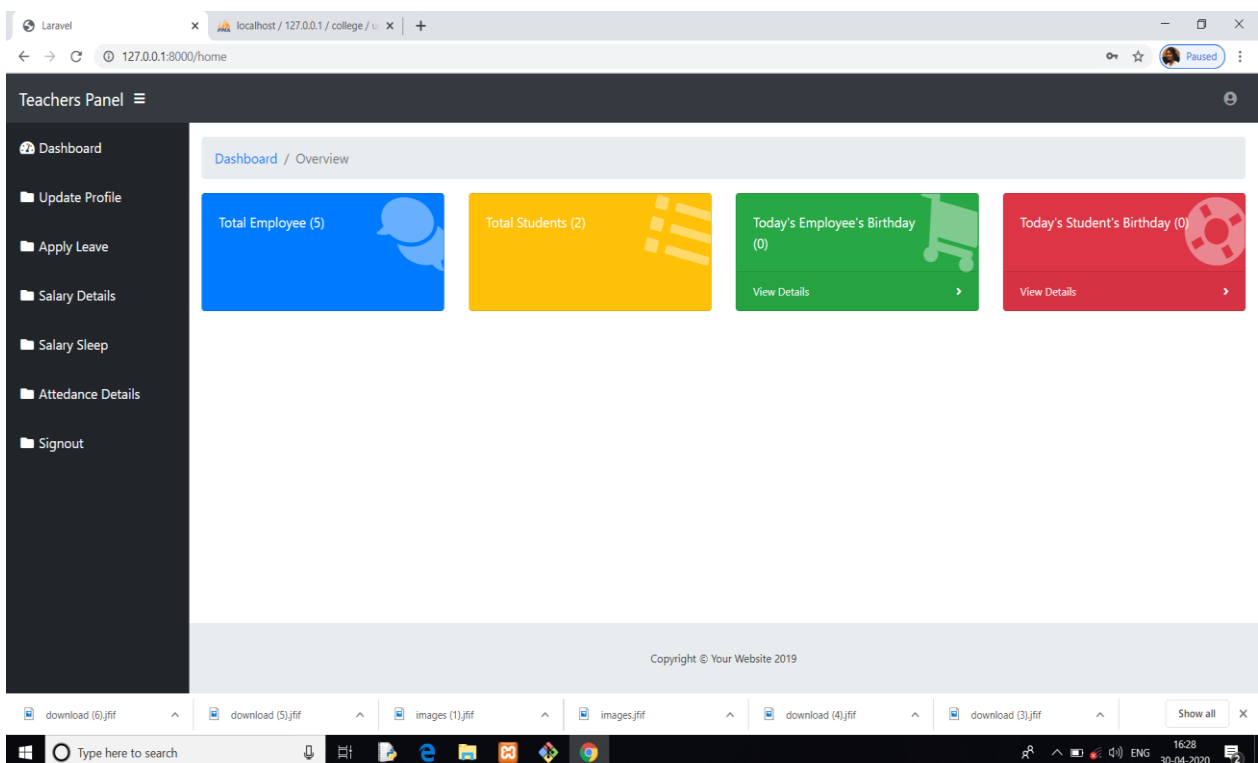


Fig.2.- Teacher Dashboard

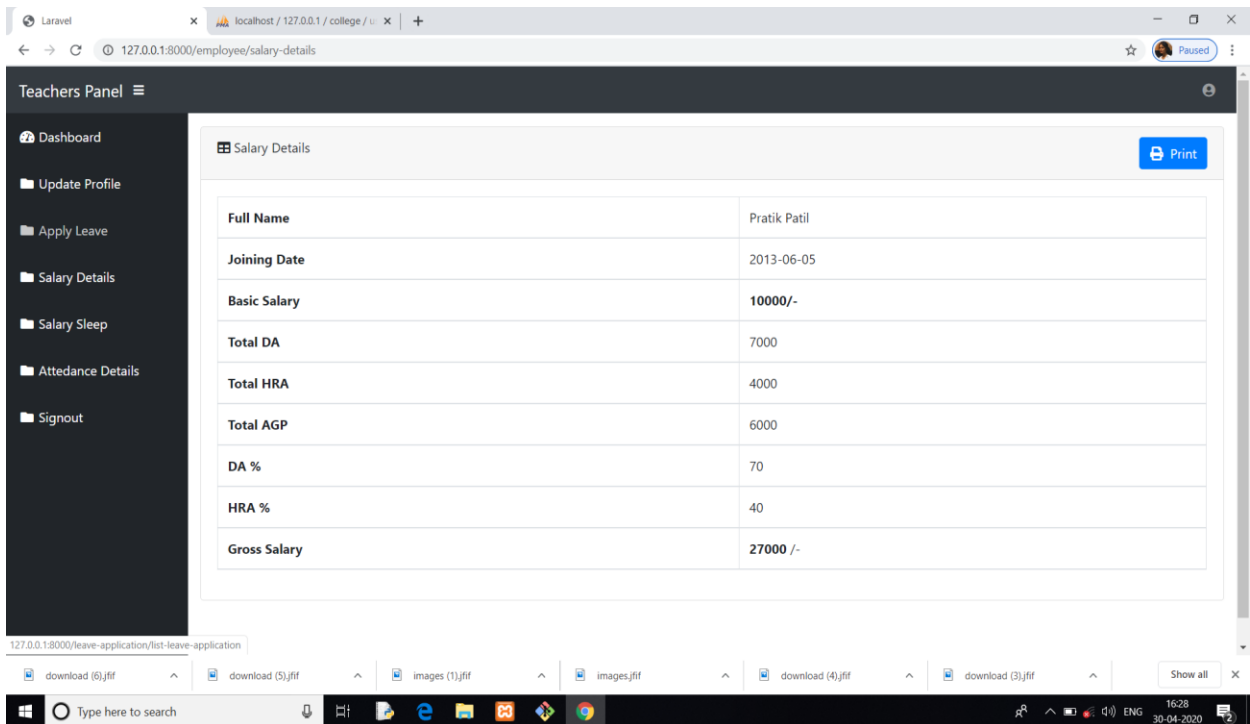


Fig.3- Salary Details

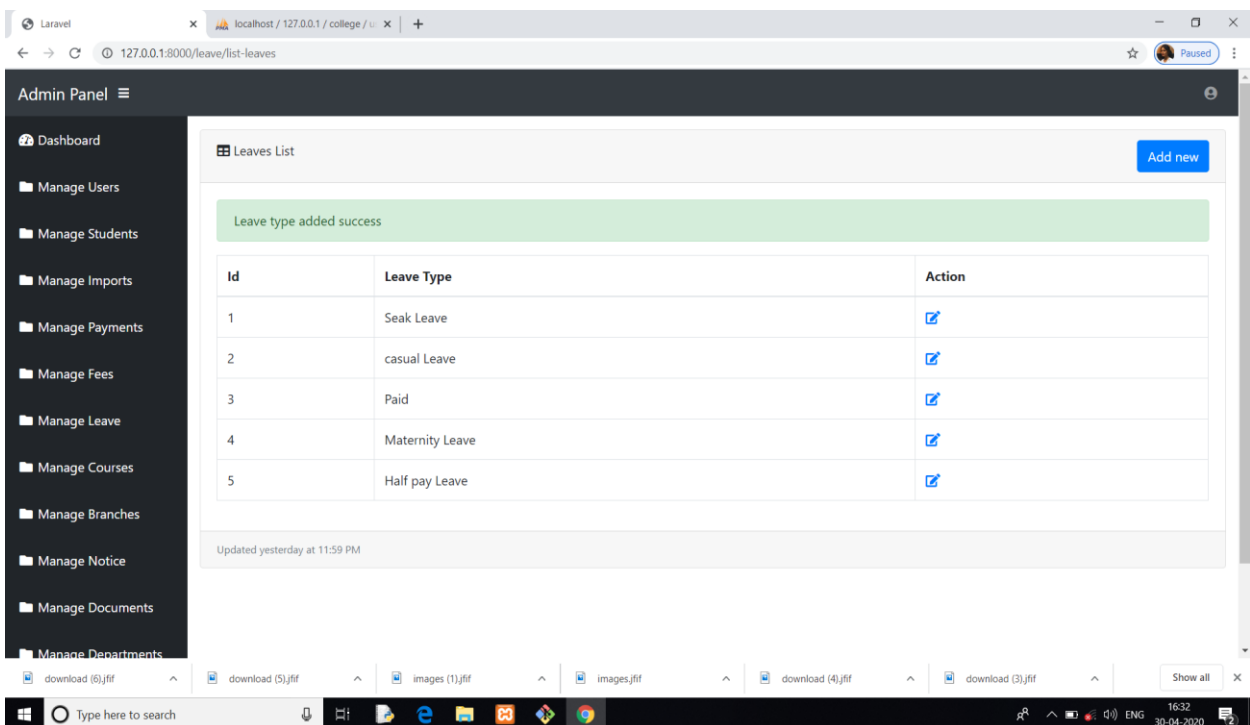


Fig.4- Leave Types

V.CONCLUSION AND FUTURE WORK

In this paper we conclude that, The Web Based Managerial Institute Interactive Dashboard is helps to easily interact with the institute and it manages all the sections in one platform the application provides appreciate information to users according to the chosen service. The project is designed keeping in view the day to day problems faced by college. In future we can able to add other sections also in system.



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