

School Management System

Web Application

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Abstract

The Title of the project is School Management System to computerize the School.

It is software which is helpful for admins and managers as well as the school authorities. And it allows users to store almost all of the school information electronically.

The main and important benefit of this proposed system is that it is very much user friendly and accurate. So, the employees and the administrators feel so much comfortable to work with it.

Mainly this application has been designed using Laravel opensource PHP web framework and consists of SQL server which acts the database for this project.

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INTRODUCTION

PURPOSE

This school Management System Software is a suite of applications that helps you to capture, manipulate and present employees, classes and subjects' data in a meaningful manner, generating fast reports automatically.

INTENDED AUDIENCE AND PERTINENT SECTIONS

In education, the term stakeholder typically refers to anyone who is invested in the welfare and success of a school. in my case the stakeholders are school owners and school account, managers.

PROJECT SCOPE

Design and develop School management electronically contains Employees Information's, Classes Information's, Subject's Information's and School Schedules Information's.

So, Admin can access any Details needed in an easily accessible way.

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DESCRIPTION

FEATURES

- 1. Admin can Add and View Employee's Information's, and can Edit, Update it.
- 2. Admin can remove Employee information's from System.
- 3. Admin can View all Classes Information's and edit on it.
- 4. Admin can't Delete Employee if employee information related to class or subject.
- 5. Admin can View Class Schedule.
- 6. Admin can View Subject Information's.
- 7. Admin can access schedule from click in class, and can access to Subject information's in same way.

USER OVERVIEW

Work as a software application the aim to make this system for reducing work load, secure database, and also handling employees and classes information's, which reduce the paper work and organized process.

OPERATING ENVIRONMENT

- COMPOSER
- MYSQL
- PHP 7.4
- XAMP
- LARAVEL 5.8
- WINDOWS 10

SYSTEM FEATURES

SYSTEM FEATURE 1

DESCRIPTION AND PRIORITY	School computerize all employee's information.
STIMULUS / RESPONSE SEQUENCES	 Work in same school. Each employee has own role. System have all current employees' information Can add new employee information to the system.
FUNCTIONAL REQUIREMENTS	Just school managers can login to this system and access to employee's information's.

SYSTEM FEATURE 2

DESCRIPTION AND PRIORITY	School computerize all classes information start from class schedules, subjects' details and the class details.
STIMULUS / RESPONSE SEQUENCES	 Each class has own details. Each class have his own schedule. Each subject has own details.
FUNCTIONAL REQUIREMENTS	Each semester, class schedules, subject's information and class details changed.

REQUIREMENTS OF EXTERNAL INTERFACE

USER INTERFACES

After login as Admin, the user redirects to the School Management System.

Home Page

- From click on hamburger menu you can access to employees and classes information's.
- On click in any class name from home page you can access its schedule and subject's details.

School Mnagment System

User Name

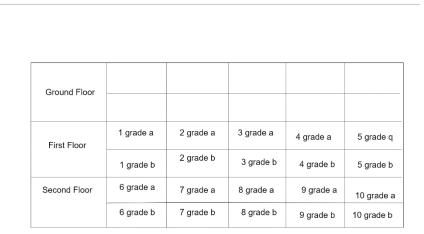


Figure 1Home Page.

Hamburger Menu

from here you can access employees and classes information.

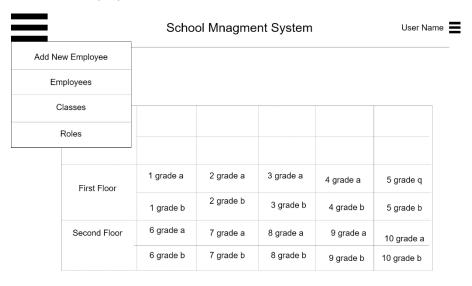


Figure 2 Hamburger Menu.

Employees

Here you can see the basic information of employees also you can see more details on click on the view button.

You can edit employee information's from the edit icon, or you delete this employee if he doesn't connect with Any class or subject.

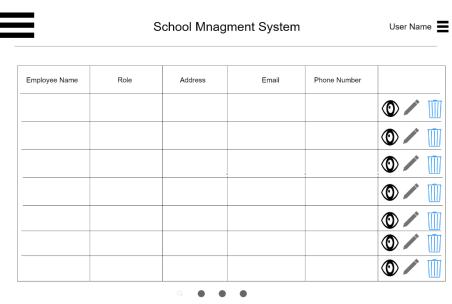


Figure 3 Basic information's of employees.

Add Employee

You can add new employee information.

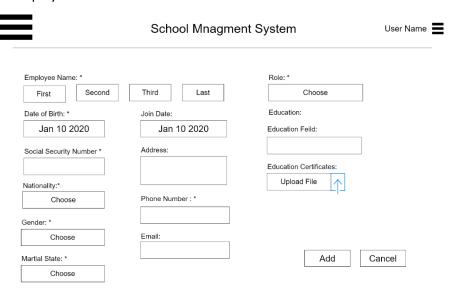


Figure 4 Add new Employee.

Edit Employee

On click in edit icon you can edit present employee information and update it.

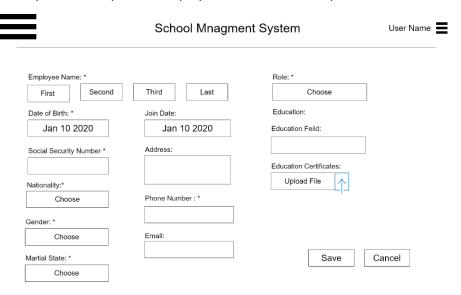


Figure 5 Edit Current employee information.

View Employee

from click on view icon you can see all present employee information.

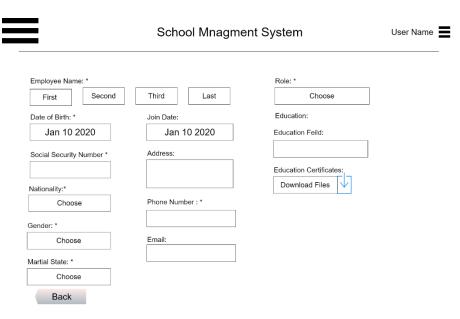


Figure 6 View Current Employee Information's.

Classes

Also, from hamburger menu you can access all classes information.

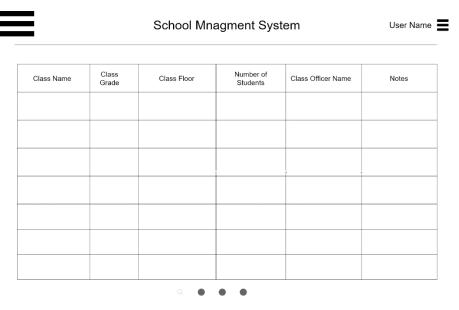


Figure 7 View Classes information's.

School Schedule

As you read you can access school schedule from home page on click at class name.

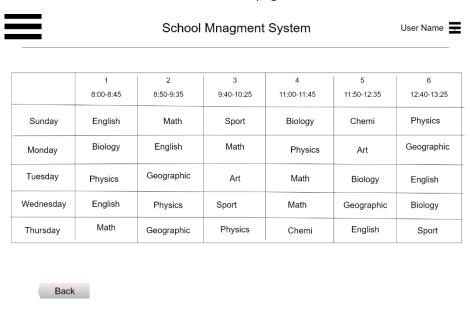


Figure 8 School Schedules.

Subject Details

Also, you can see every subject information on click on its name from class schedule.

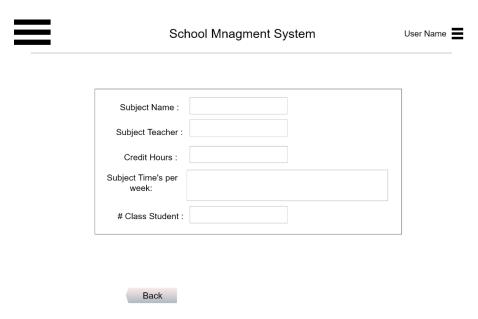


Figure 9 Subject Details.

Logout

Logging out helps prevent other users from accessing the system without verifying their credentials. It also helps protect the current user's access or prevent unauthorized actions on the current login session and is thus an important part of security.

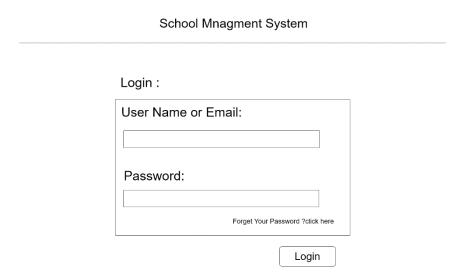


Figure 10 Login Window.

Use Case Diagram

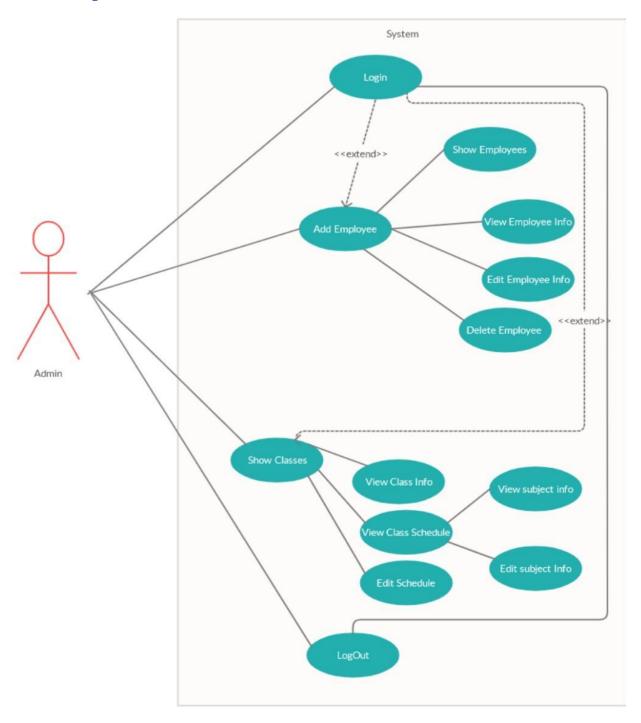


Figure 11 Use Case Diagram.

Class Model

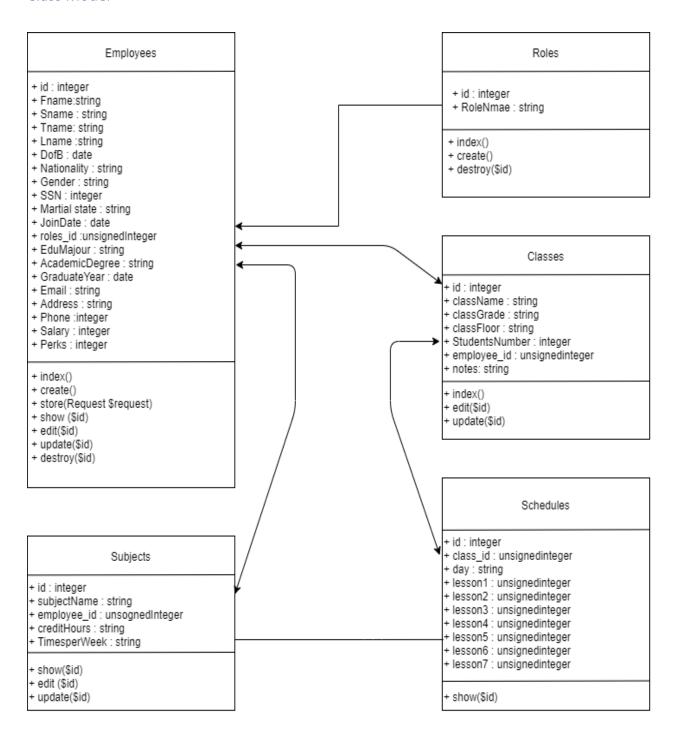


Figure 12 Class Model

Database Design

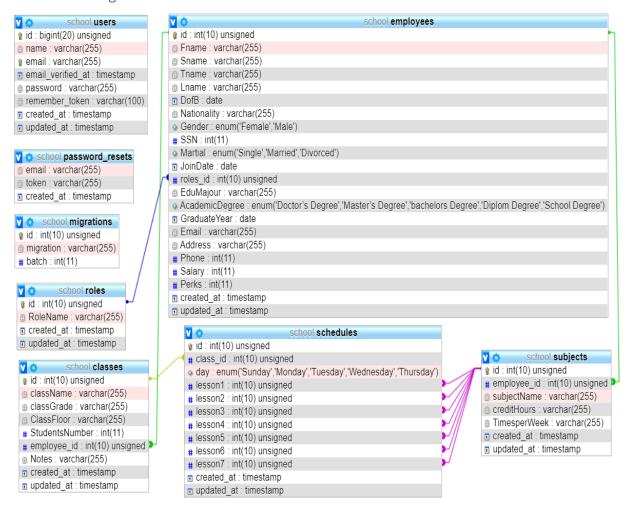


Figure 13 Database Design.

Hardware Interface

Any device which has a web browser.

Software Interfaces

- COMPOSER
- MYSQL
- PHP 7.4
- XAMP
- LARAVEL 5.8
- WINDOWS 10

Communication Interfaces

HTTP protocols.

ADDITIONAL NONFUNCTIONAL REQUIREMENTS

Performance

Include of response time and concurrency level of project.

Usability

This application is easy to use by every user.

Reliability

Accuracy of results and the system meets requirements and depends on the deployment of system.

Software Quality

- Availability: The web will be available as long as server is up.
- Interoperability: Web is interoperable on various operating system, thus increasing the applications usability and flexibility.
- Maintainability: Every working step was documented in the project so we can change anything in case we needed to change.