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School Management System

Introduction

A School Management System is a software application designed to streamline and automate various administrative and academic tasks in a school. The system aims to provide a centralized platform for managing student information, teacher data, courses, attendance, grades, and other relevant school activities.



Objective

The primary objective of the School Management System project is to:

- 1. Improve Efficiency: Automate manual processes, reducing paperwork and administrative burdens.
- 2. Enhance Accuracy: Minimize errors in data management, ensuring accuracy and reliability.
- 3. Facilitate Communication: Provide a platform for stakeholders (students, teachers, owner, and administrators) to access and share information.
- 4. Support Decision-Making: Offer insights and analytics to inform decision-making and improve school operations.
- 5. Ensure Data Security: Safeguard sensitive student and others information with robust security

measures.



System Requirements Specification

Hardware Requirements:

- Server with PHP and MySQL support
- Minimum 512MB RAM
- Pentium IV Processor
- 40GB storage

Software Requirements:

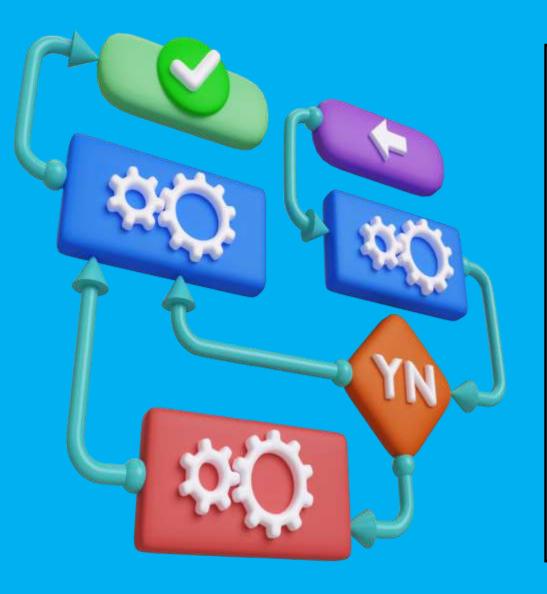
- Frontend: HTML, CSS, JavaScript

- Backend: PHP

- Database: MySQL

- Editor: VS Code

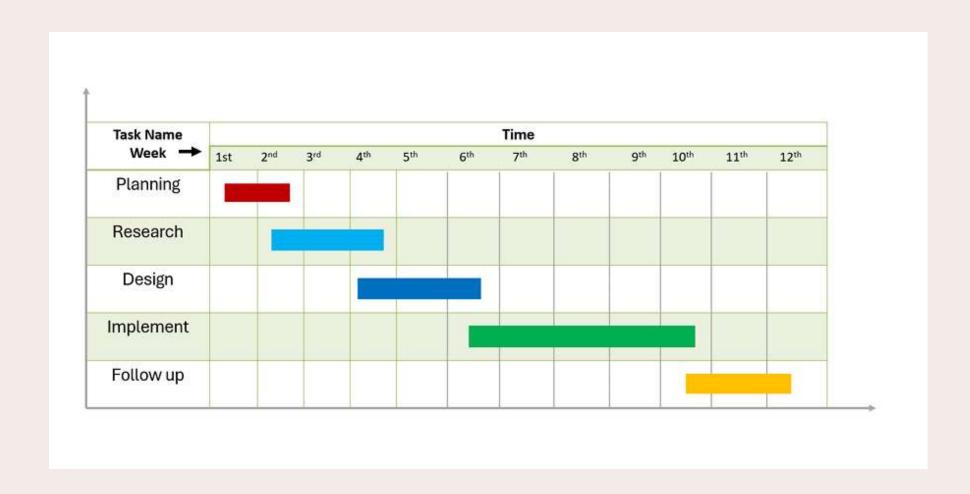




Process Logic

- **1.User Authentication** → Secure login for Admin, Teachers, Students, and Owner.
- **2.Admissions & Enrollment** \rightarrow Student registration and class allocation.
- **3.Daily Operations** → Attendance, timetable, assignments.
- **4.Examinations & Grading** → Marks entry, result calculation, report generation.
- **5.Fees & Payments** → Payment processing and financial tracking.
- **6.Communication & Alerts** → Notifications for exams, attendance, events.
- **7.Reports & Analytics** → Insights on student performance and finances.

Gantt Chart



Data Dictionary

```
CREATE TABLE `admins` (
    `s_no` int(20) NOT NULL,
    id` varchar(30) NOT NULL,
    iname` varchar(100) NOT NULL,
    iname` varchar(100) NOT NULL,
    idob` varchar(20) NOT NULL,
    image` varchar(40) NOT NULL DEFAULT '1701517055user.png',
    phone` varchar(20) NOT NULL,
    igender` varchar(20) NOT NULL,
    address` varchar(700) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

```
CREATE TABLE `users` (
  `s_no` int(15) NOT NULL,
  `id` varchar(40) NOT NULL,
  `email` varchar(256) NOT NULL,
  `password_hash` varchar(700) NOT NULL,
  `role` varchar(20) NOT NULL,
  `theme` varchar(20) NOT NULL DEFAULT 'light'
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

```
CREATE TABLE 'students' (
 's no int(20) NOT NULL,
 "id" varchar(40) NOT NULL,
  fname varchar(100) NOT NULL,
  'Iname' varchar(100) NOT NULL,
  father varchar(200) NOT NULL.
  gender varchar(10) NOT NULL,
  "class" varchar(20) NOT NULL,
  section varchar(50) NOT NULL,
  dob varchar(15) NOT NULL,
  'image' varchar(50) NOT NULL DEFAULT '1701517055user.png',
  phone varchar(15) NOT NULL,
  email varchar(100) NOT NULL,
  address varchar(200) NOT NULL,
 "city" varchar(50) NOT NULL,
 "zip" varchar(28) NOT NULL,
  'state' varchar(50) NOT NULL,
  request_date varchar(30) NOT NULL,
  request_time varchar(30) NOT NULL,
  'request' varchar(20) NOT NULL
 ENGINE-InnoDB DEFAULT CHARSET-utf8mb4 COLLATE-utf8mb4 general_ci;
```

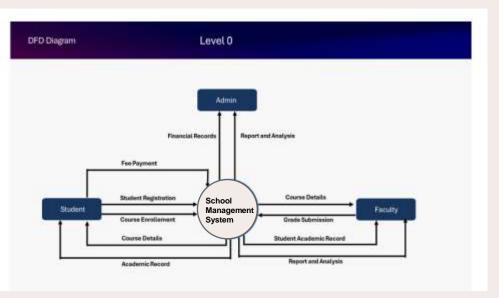
```
CREATE TABLE 'teachers' (
 's no int(20) NOT NULL.
 "id" varchar(40) NOT NULL,
 'fname' varchar(100) NOT NULL.
 'lname' varchar(100) NOT NULL,
 'father' varchar(150) NOT NULL,
 'subject' varchar(50) NOT NULL,
  'gender' varchar(10) NOT NULL,
 'dob' varchar(20) NOT NULL,
 'image' varchar(30) NOT NULL DEFAULT '1701517055user.png',
  'phone' varchar(20) NOT NULL,
  'email' varchar(50) NOT NULL,
 `address` varchar(512) NOT NULL,
 "city" varchar(50) NOT NULL,
 "zip" varchar(20) NOT NULL,
 'state' varchar(50) NOT NULL,
 `class' varchar(20) NOT NULL,
  'section' varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

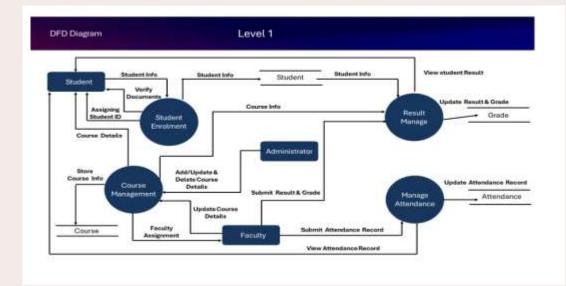
```
CREATE TABLE `attendence` (
   `s_no` int(20) NOT NULL,
   `student_id` varchar(40) NOT NULL,
   `attendence` varchar(10) NOT NULL,
   `class` varchar(30) NOT NULL,
   `section` varchar(5) NOT NULL,
   `date` datetime NOT NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

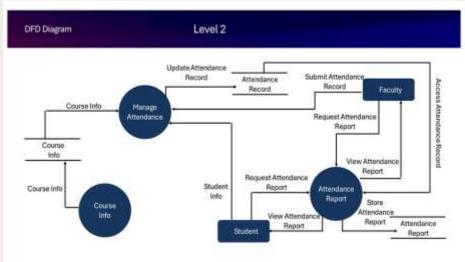
```
CREATE TABLE `time_table` (
   `s_no` int(20) NOT NULL,
   `class` varchar(50) NOT NULL,
   `section` varchar(10) NOT NULL,
   `start_time` varchar(20) NOT NULL,
   `end_time` varchar(20) NOT NULL,
   `mon` varchar(30) NOT NULL,
   `tue` varchar(30) NOT NULL,
   `wed` varchar(30) NOT NULL,
   `thu` varchar(30) NOT NULL,
   `fri` varchar(30) NOT NULL,
   `sat` varchar(30) NOT NULL,
   `sat` varchar(30) NOT NULL,
   `imestamp` datetime NOT NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

 $ZU\Lambda\Lambda$

Data Flow Diagram

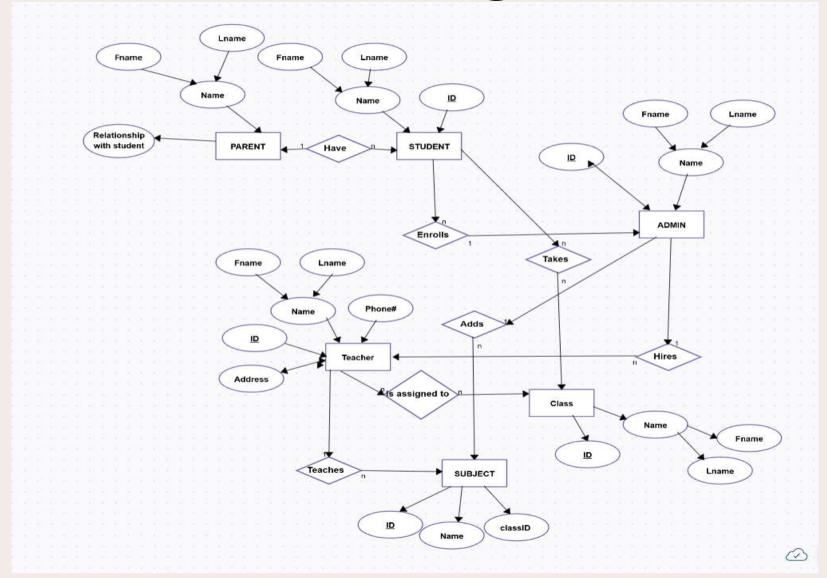






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E-R Diagram



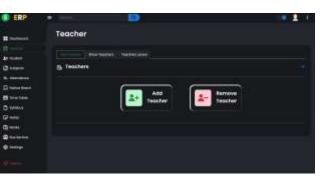
Admin View







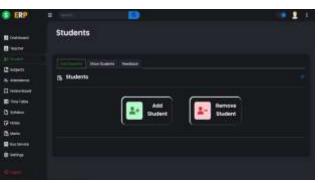


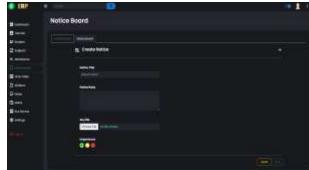


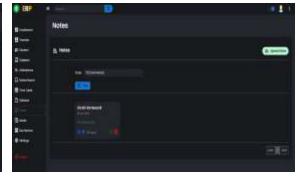






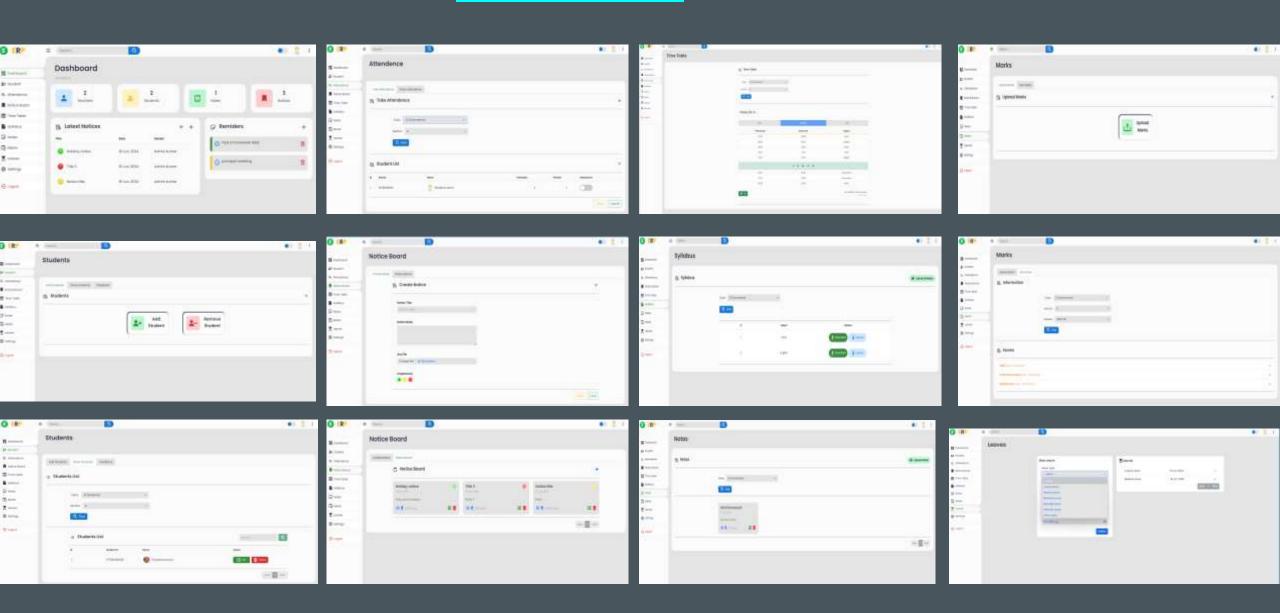






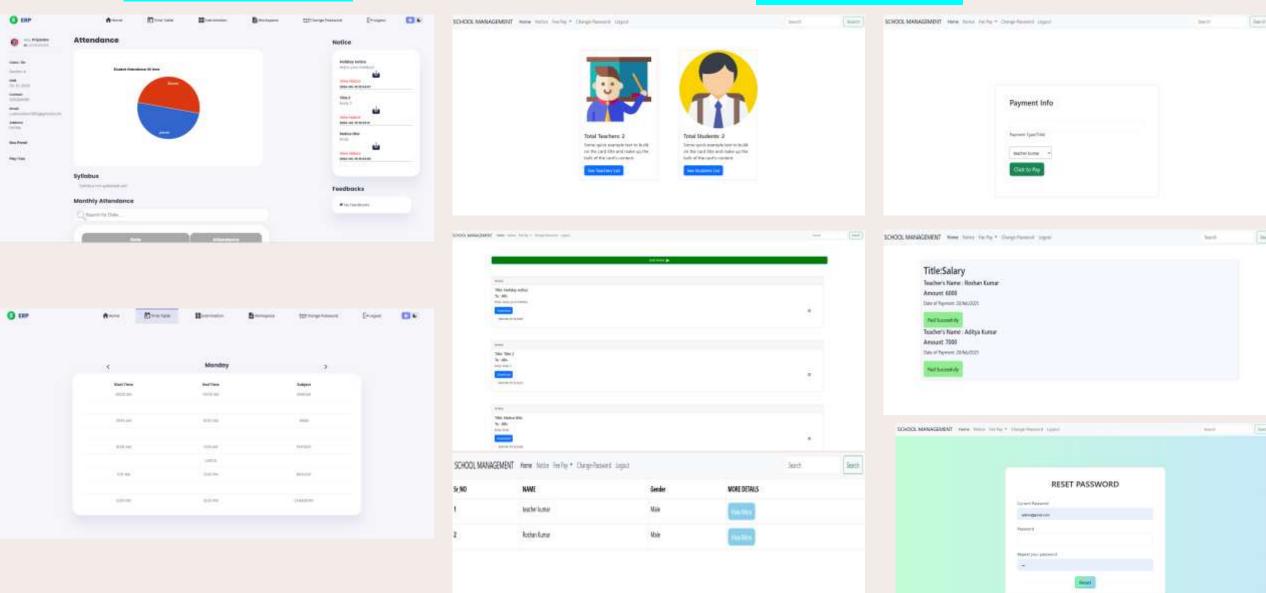


Teacher View



Student View

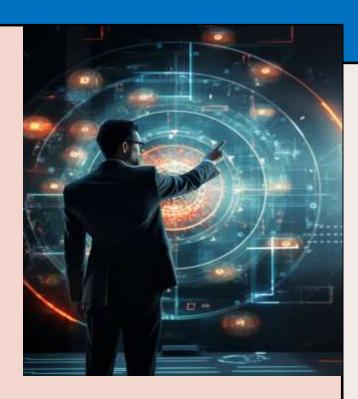
Owner View





Future Scope

- Mobile App Integration.
- AI-based Performance Tracking.
- Cloud Storage for Scalability.







References & Bibliography

- You Tube
- **Books**
- GitHub





