# SCHOOL ERP

*A SYNOPSIS REPORT*

Submitted to

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# 1. INTRODUCTION

In school ERP, we propose the several modules that would help school in maintaining their resource planning as well as digitalizing their institution. We have thought of a centralized ERP system for schools. School ERP is a complete web-based software package designed to automate diverse day to day operations such as classes, examinations, transport, Library, Hostel, Enquiry and others, also to reduce paper footprints. The School ERP focuses on creating a vast online community in order to bring students and teachers on a common interactive platform. For smooth flow of functions of the school in current world scenario it is required to have a digital format which helps to modernize, customization and integrate School ERP.

We have work out the technologies used to develop such sophisticated yet easy to use system such as MySQLi as Database, Apache Server with help of WAMP and PHP, JavaScript Programming language. As for our entities that will be able to use School ERP will be Administration of the school, Staff of the school including Teachers, Librarian and the most important of all are Students.

## 2. OBJECTIVE

The main objective of the School ERP is to manage the details of Schools, Students, Classes, Teachers, Registrations. The purpose of the project is to build a web-based application program to reduce the manual work for managing the schools, students, courses, classes. It tracks all the details about the classes, teachers, registrations. It will be an advanced ERP software that is exceptionally efficient, secure, systematic and also easy to use. It will collect, connect, integrate, and interpret information from different department and manage functions and processes across your school at a central point, to enable effective decision making. It reduces paperwork tremendously and is capable of handling administration infrastructure and logistics of any school. It allows you to share, search and store information easily and safely, which saves time and money while increasing efficiency and accuracy.

# 3. FEASIBILITY STUDY

Study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

## 3.1 Economic Feasibility

This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor.

- All hardware and software cost have to be borne by the organization.
- Overall, we have estimated that the benefits the organization is going to receive from the proposed system will surely overcome the initial costs and the later on running cost for system.

## 3.2 Technical Feasibility

This included the study of function, performances and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionalities that are to be provided in the system, checked if everything was possible using different type of frontend and backend platforms.

## 3.3 Operational Feasibility

System is very user friendly Besides, a proper introduction is given so that users feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing.

# 4. Process description

## 4.1 DFD Level-1 Diagram

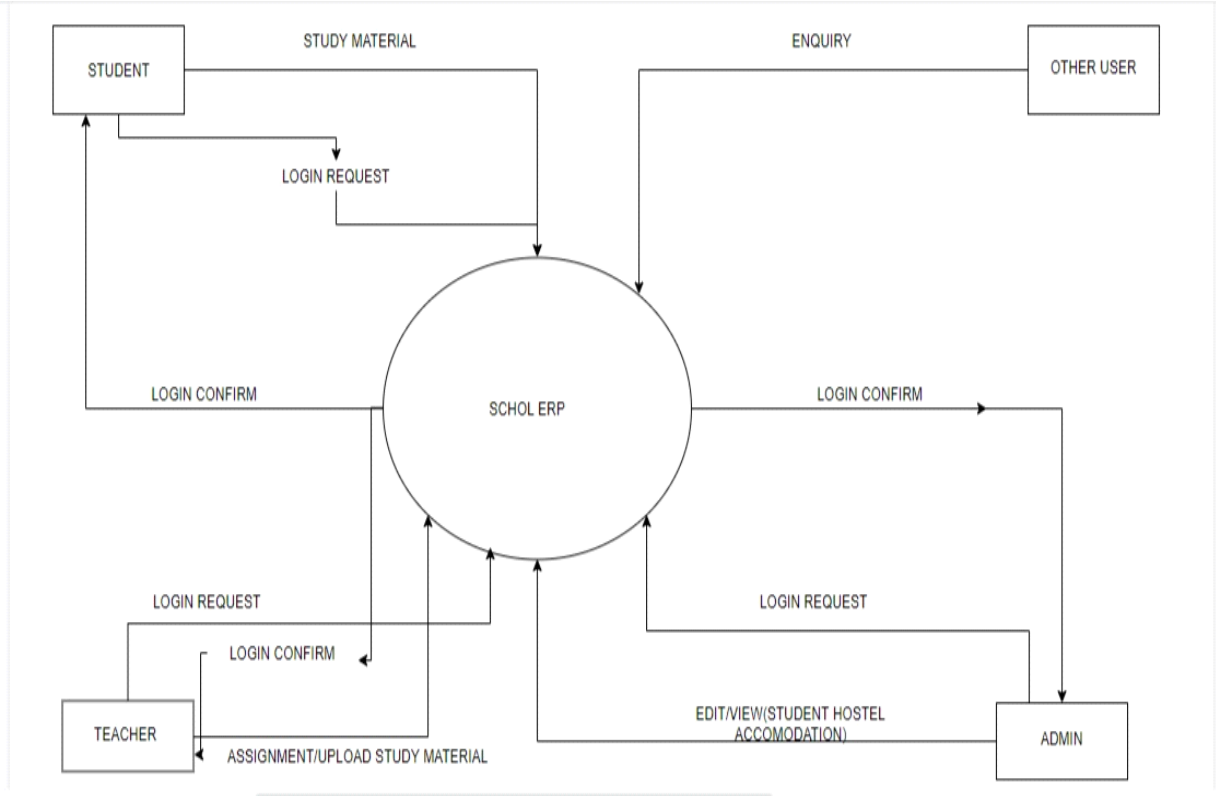


**Fig: 4.1 DFD Level 1 diagram of School ERP**

## 4.2 E-R DIAGRAM

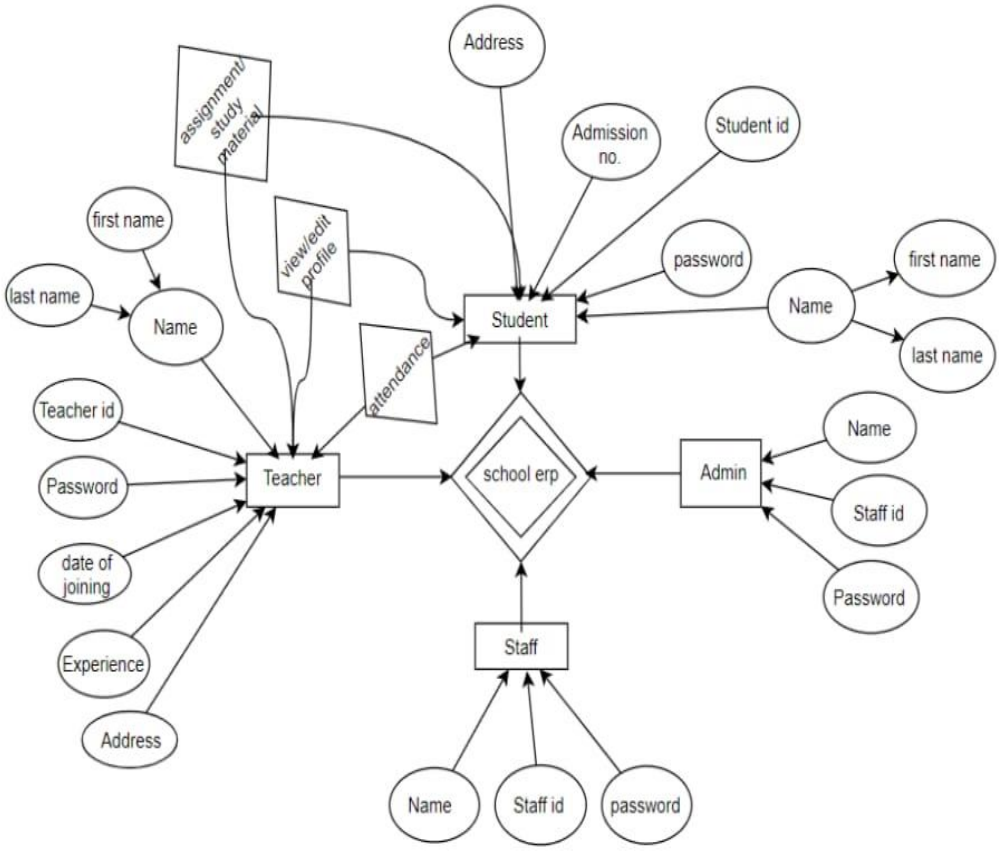


**Fig: 4.2 ER diagram of School ERP**

# 5. HARDWARE AND SOFTWARE REQUIREMENTS

## 5.1 Software Requirements

### 5.1.1 *Front-End:*

To build beautiful User Interface (UI) and good User Experience (UX) we will be using top notch technologies including popular web technology programming languages and frameworks, some of them are listed below:

- HTML
- CSS
- JavaScript

### 5.1.2 *Back-End:*

Backend is the heart of any project that does all the internal processing of the application. We will use the most reliable backend technologies and databases, some of them are listed below:

- MySQL database
- PHP

## 5.2 Hardware Requirements

'User' system Minimum Requirements:

- Processor: Intel i3
- RAM: 2 GB
- Hard disk: 500 GB
- OS: Windows 7 / Linux 10 / Mac OS 8

# 6. FUNCTIONAL & NON-FUNCTIONAL REQUIREMENTS

## 6.1 FUNCTIONAL REQUIREMENT

### 6.1.1 Student

- Student shall be able to login to the system
- Student shall be able to view exams schedule and results
- Student shall be available to see the time table

### 6.1.2 Staff

- Staff shall be able to login to the system
- Staff shall be able to manage their day to day work
- Teacher shall be able to mark attendance records of students

### 6.1.3 Admin

- Admin shall be able to login to the system
- Admin shall be able to create user login for student/teacher

## 6.2 NON-FUNCTIONAL REQUIREMENT

### 6.2.1 Availability

System should be available 24 hours It should be easily accessible over a network

### 6.2.2 Security

System should be secured with password. Users choose the password of their choice following the instructions or the according to the rules listed by the system

### 6.2.3 Usability

System should be user friendly. User should be able to use the system easily and can understand the system with no complications.

# 7. LIMITATION

Our School ERP have following limitation:

1. It is necessary to train all “users” of the School ERP in order to use the system efficiently.

# 8. CONTRIBUTION OF PROJECT

Our School ERP have some of the following contributions to the world:

1. It helps in administration without going through a stack of paper.
2. It reduces time consumption results in faster execution.
3. It will positive impact on teachers, students and parents as well as being a technology updated institution.
4. Positive impression will indirectly build school branding.
5. This software makes the communication reliable and faster between authorities of school.

# 9. CONCLUSION

This project will help the schools administration to get more technosavy and break the myth of paperwork.

## Gantt chart:

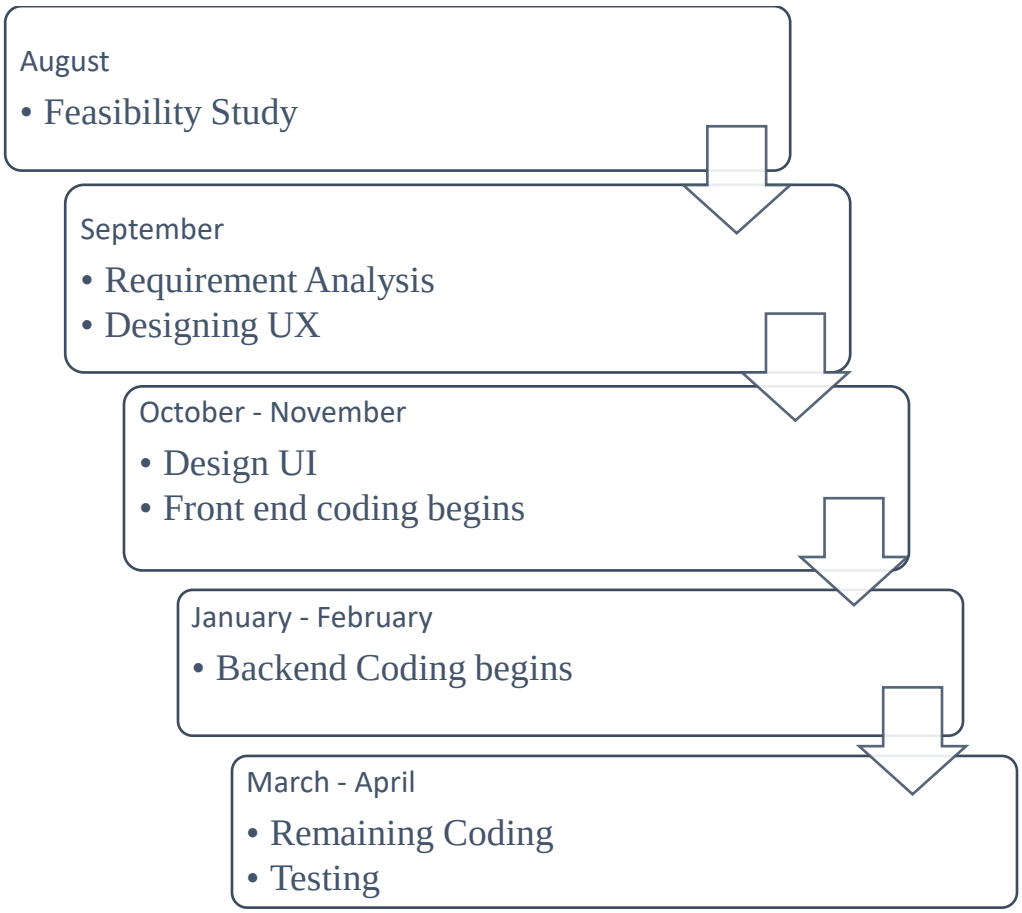


**Fig: 9.1 Gantt chart**