Project Synopsis on

School management System

**Minor Project**

Integrated Master of Computer Application (IMCA)

By

Name: Abhishek Mandloi and Yuvraj Patidar

Enrollment No: 0810CA18DD03 and 0810CA18DD40

Semester: VII

Under the supervision of

Anshu Biyani Modi Ma’am



**IPS Academy Indore**

School of Computer

RAJIV GANDHI PRODYOGIKI VISHWAVIDHYALAYA,

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**Abstract**

The purpose of School Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

School Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment’s and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the project describes how to manage for good performance and better services for the clients.

* **Introduction:**

The "School Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. School Management System , as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the informations of Students, Schools, Teachers, Registrations, Cources. Every School Management System has different Schools needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

* **Objective of project:**

The main objective of the Project on School Management System is to manage the details of Schools, Students, Classes, Teachers, Cources. It manages all the information about Schools, Registrations, Cources, Schools. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Schools, Students, Registrations, Classes. It tracks all the details about the Classes, Teachers, courses.

* **Scope of project:**

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to School Management System. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e. we have tried to computerize various processes of School Management System.

• In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.

• In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.

• To assist the staff in capturing the effort spent on their respective working areas.

• To utilize resources in an efficient manner by increasing their productivity through automation.

• The system generates types of information that can be used for various purposes.

• It satisfy the user requirement

• Be easy to understand by the user and operator

• Be easy to operate

• Have a good user interface

• Be expandable

• Delivered on schedule within the budget.

* **Project Plan:**

Modules of School Management System:

• Schools Management Module: Used for managing the Schools details.

• Courses Module: Used for managing the details of Courses

• Registrations Module: Used for managing the details of Registrations

• Students Management Module: Used for managing the information and details of the Students.

• Classes Module: Used for managing the Classes details

• Teachers Module: Used for managing the Teachers information

• Login Module: Used for managing the login details

• Users Module: Used for managing the users of the system

* **The Existing System:**

The computerization of this system would avoid the wrong interpretation and bad calculation of data. The system helps the user to see any documents, source code, tasks, activities, team information with details at the click of a button. The record data is maintained and backed up such a way that data is not loss. The speed of the system could also increase.

They are done only manually but in proposed system we have to computerize the test using this application.

* Lack of security data.
* Time consuming.
* More man powers.
* No direct role for the higher officials.

After understanding the existing system and understanding the need for developing a system different people involved in the related activities have been consulted.

* **Area of improvement:**

The old manual system was suffering from a series of drawbacks. Since whole of the system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be in systematic order. There are lots of difficulties in associating any particular context. If any information was to be found it was required to go through the different registered, documents there would never exist anything like this system. There would be always be unnecessary consumption of time while entering details and retrieving details.

The reason behind is that there is a lot of information to be maintained and have to be kept in mind while running this application. For this reason, we have to provide features present system is partially automated, actually existing system is quit laborious as one has to enter same information at different places.

* **Proposed system:**

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work.

• Security of data.

• Ensure data accuracy’s.

• Proper control of the higher officials.

• Minimize manual data entry.

• Minimum time needed for the various processing.

• Greater efficiency.

• Better service.

• User friendliness and interactive.

• Minimum time required.

* **Input/output requirements:**

It is important to identify the input and output requirements of the proposed system. Input and output include:

* Interaction with supplier’s systems
* Interaction with customer’s systems
* Interaction with user (customers)
* Interaction with internal systems

The stages involved in identifying technical requirements for input/output are:

1. Identify the interaction process (whether for student to instructor or instructor to student).
2. Identify the thing that begins the interaction.
3. Identify the input/output data required for the process.
4. Identify relevant protocols for the data exchange.
5. Document the input and output requirements for the interaction.

* **Hardware and Software requirement:**

**Software Requirements**

Software Requirements deal with defining software resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or pre-requisites are generally not included in the software installation package and need to be installed separately before the software is installed.

**SOFTWARE REQUIREMENTS FOR PRESENT PROJECT:**

• Operating System: Windows 7/8/10

• Language: HTML, CSS, PHP

• Database: MySQL

• Server: XAMPP Server

**Hardware Requirements**

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

**HARDWARE REQUIREMENTS FOR PRESENT PROJECT:**

• RAM: 2GB

• Storage: 4GB or more

• Device: Operating System

* **Future scope of the project:**

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

• We can add printer in future.

• We can give more advance software for School Management System including more facilities

• We will host the platform on online servers to make it accessible worldwide

• Integrate multiple load balancers to distribute the loads of the system

• Create the master and slave database structure to reduce the overload of the database queries

• Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of Schools and Students. Also, as it can be seen that now-a-days the players are versatile, i.e. so there is a scope for introducing a method to maintain the School Management System. Enhancements can be done to maintain all the Schools, Students, Classes, Teachers, Cources. We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them.In the last we would like to thanks all the persons involved in the development of the system directly or indirectly. We hope that the project will serve its purpose for which it is develop there by underlining success of process.

* **Conclusion:**

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points…

• A description of the background and context of the project and its relation to work already done in the area.

• Made statement of the aims and objectives of the project.

• The description of Purpose, Scope, and applicability.

• We define the problem on which we are working in the project.

• We describe the requirement Specifications of the system and the actions that can be done on these things.

• We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.

• We included features and operations in detail, including screen layouts.

• We designed user interface and security issues related to system.

• Finally the system is implemented and tested according to test cases.