

## **TITLE OF THE PROJECT**

“School Management System ”

## **INTRODUCTION**

The title of the project is "School Management system". This project will handle whole the activities of the school. SMS has most of the facilities that a modern school requires to computerize its day-to-day jobs. It provides facilities to keep the records of student, fees, teaching and non-teaching staff with all their required details along with all required transaction handling. It has facilities to generate various types of reports, which are required by the management during normal business operations to operate the business effectively.

## **OBJECTIVES**

This project is based on the RDBMS technology; the main objective of this project is to computerize the manual system & reduce the time consumption.

In other words we can say that our project has the following objectives:-

- Make all the system computerize
- Reduce time consumption
- Reduce error scope
- All system managements are automated
- Centralized database management
- Easy operations for operator of the system
- No paper work requirement

## **PROJECT CATEGORY**

This project as title “**School management system**” is comes under the **Relational Database Management System (RDBMS)**. This application is developed with the help of Visual basic 6.0 and Oracle 8. This application can also be run on the network environment so it can be said as network application.

## **TOOLS/PLATFORM**

This project is developed using the tools, which are most suited for development of the Application Package. These tools are as follows: -

1. Visual Basic 6.0 (For front end)
2. Oracle 8 (For Database Storage as Back end)

**HARDWARE & SOFTWARE REQUIREMENT****HARDWARE:**

Processor	Pentium-II or higher
Processor Speed	533 MHZ
Hard Disk Space	20 GB (min.)
Ram Memory	32 MB (64 MB recommended)

**SOFTWARE:**

Operating System	Windows 95/98/NT/2000
Database Server	ORACLE 8
Front end	Visual Basic 6.0

## **SYSTEM DESIGN**

System Design is the solution to the creation of a new system. This is the important aspect made up of several steps. The complete, efficient and successful system should provide the following in succession: -

- \* From where should we start
- \* Where we have to go
- \* Where should we stop

If the project is to be successful, we will need answer these question. The answer of these questions is schema manner and is known as system design.

A systematic manner will be followed so as to achieve beneficial result at the end. It involves starting with a vague idea and ultimately developing it up into a useful system. The design phase is transition from a user oriented to a document oriented to the programmers.

Software report can be broken into a series of steps starting with the basic ideas and ending with the finished project.

The steps for the successful project are as follows: -

- ✓ We should define problem completely and the goals should be known before our destination
- ✓ In the next step, we should specify inputs and outputs of our interest
- ✓ Then the structure of various database should be designed which will be used during the programming
- ✓ Next, we should design our programs of user friendly nature and always provide a way to the user to read back the origin if he/she find any complex problem at any stage
- ✓ We should know the function of each and every program which will leads us to or helps us to read at the specified goal.
- ✓ Then we write these individual programs which later on joining solve our problem
- ✓ Next step involve then testing of these programs and correction – if necessary
- ✓ At last, linking all the programs in a well-specified manner and combining in the form of a menu, submenu etc. will be our defined problem.

Out of these defined steps, few of the major steps will respect to Project

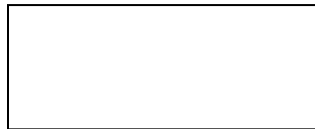
## **“School Management System”**

## DATA FLOW DIAGRAMS (DFD'S)

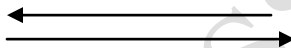
The DFD was first developed by Larry Constiane as a way of expressing system in a graphical form. A DFD, also known as Bubble Chart, has a purpose of clarifying system requirement and identifying major transformation that will become the programs in the system design.

### DFD SYMBOLS

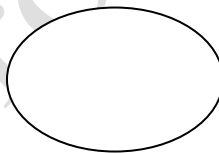
1. A **SQUARE** defines a source or destination of system data



2. An **ARROW** identifies data flow or data in motion. It is a pipeline through which information flow.



3. A **CIRCLE** or a **BUBBLE** (Some people use an over bubble) represents a process transforms in coming data flow into outgoing data flow.



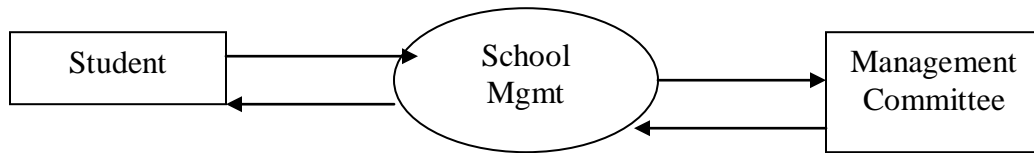
4. An **OPEN RECTANGLE** is a data store or data at rest or a temporary rest repository of data.



Note that a DFD describe what data flow (logical) rather than they are processed, so it does not depend on hardware, software and data structure or file organization.

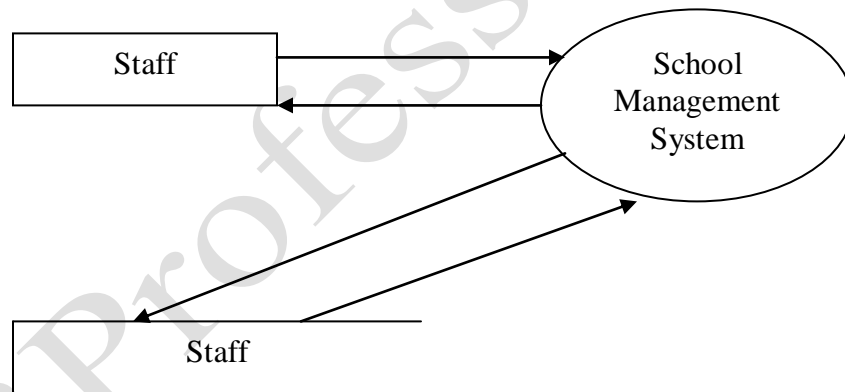
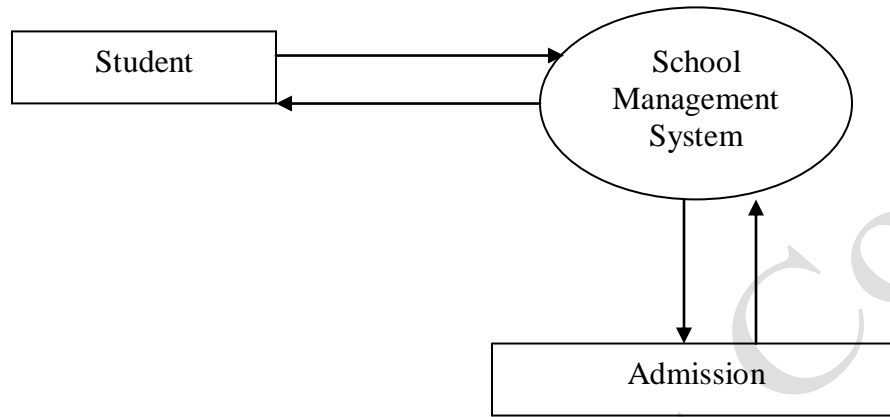


## **PROCESSING OF SMS**



A School has to deal with two external entities: -

- The School
- The management Committee



## **DATABASE DESIGN**

Database Design is most important in any project. We are using the following table to store the information related to staff of school

### **1. STAFF**

Field Name	NULL	Type
EMPNO	Not Null	NUMBER (5)
EMPNAME		VARCAHR (30)
ADDRESS		VARCHAR (30)
CITY		VARCAHR (15)
PIN		VARCAHR (6)
STATE		VARCAHR (15)
PHONE		VARCAHR (15)
MOBILE		VARCAHR (13)
EMAIL		VARCAHR (30)
SEX		VARCAHR (1)
M_STATUS		VARCAHR (15)
DOB		DATE
DOJ		DATE
DEPT		VARCAHR (30)
NATURE_OF_JOB		VARCAHR (10)
BASIC_PAY		NUMBER (10,2)

**2. STUDENT**

Field Name	NULL	Type
REGNO	NOT NULL	NUMBER (5)
ROLLNO	NOTNULL	NUMBER (5)
CLASS		VARCHAR (4)
NAME		VARCHAR (25)
FNAME		VARCHAR (25)
MNAME		VARCHAR (25)
DOB		DATE
DOR		DATE
ADDRESS		VARCHAR (30)
CITY		VARCHAR (15)
STATE		VARCHAR (15)
PIN		VARCHAR (6)
PHONE		VARCHAR (15)

**3. FEE**

Field Name	NULL	Type
REGNO	NOT NULL	NUMBER (5)
ROLLNO	NOTNULL	NUMBER (5)
CLASS		VARCHAR (4)
FEEDEP		NUMBER (5)
DEPDATE		DATE
FINE		NUMBER (3)

**4 RESULTS**

Field Name	NULL	Type
REGNO	NOT NULL	NUMBER (5)
SUBJECT_NAME		VARCHAR (15)
MAX_MARKS		NUMBER (3)
PASS_MARKS		NUMBER (3)
MARKS_OBT		NUMBER (3)
RESULT		VARCHAR (4)

## **MODULES USED IN THE PROJECT**

This project includes the following modules for development of the project. These are as follows: -

### **1. SPLASH FORM**

This is a first form that displays the welcome screen for the user and also shows the information of developer or version etc.

### **2. LOGIN FORM**

This form shows the Login name and password when user enter a valid user name and password then he/she can operate the application.

### **3. MAIN FORM**

This form is a menu-based form that displays the menu for operation of the application. It includes various options for staff, student, fees and report related option.

### **4. STUDENT FORM**

This form provides the option to add, modify, delete or find the information of a student who seeks the admission in the school.

### **5. STAFF FORM**

This forms provides the option to add, delete, search and delete the information of staff (either teaching or non-teaching) that is working in the school.

### **6. FEE FORM**

This form provides the option to the user of the system to add, delete, modify and search the information of the fee deposited by the student.

### **7. RESULT FORM**

This form displays the options for the user to add, delete and modify the details of student related to the marks.

#### **8. REPORT FORM**

With the help of this option from menu user of the system can see or take the print out of various reports provided by the system.

#### **9. GOODBYE FORM**

This form is activating when user select the exit option from menu or close the application.

This form shows the good-bye message to the user and also say thanks to the user for using this application

### **NAME OF REPORTS**

Following are the reports names that are generated by the Project for the management of school or staff members of the school.

1. Details of Teaching staff
2. Details of non-teaching staff
3. Class wise detail of students
4. Date wise detail of students based on date of admission
5. Detail of student according to name wise
6. Teacher report based on the Date of joining



## FUTURE SCOPE OF THE PROJECT

Nothing is perfect in this world. So, we are also no exception. Although, we have tried our best to present the information effectively, yet, there can be further enhancement in the Application. We have taken care of all the critical aspects, which need to take care of during the development of the Project.

Like the things this project also has some limitations and can further be enhances by some one, because there are certain drawbacks that do not permit the system to be 100% accurate.