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**L1F17BSCS0589**

**Introduction to Database Systems**

**Section D**

**Final Project**

**School Management System**

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**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. 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 Xampp and MySql Workbench. 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. Xampp
2. MySql Workbench

**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.

**“**School Management System**”**

**DATA FLOW DIAGRAMS (DFD’S)**

**PROCESSING OF SMS**

St

udent

School

Mgmt

Management

Committee

A School has to deal with two external entities: -

* + - The School
    - The management Committee

Staff

School

Management

System

Staff

Student

School

Management

System

Admission

# DATABASE DESIGN

Database Design in 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  **3. FEE** |  |  |  | VARCHAR (15) |  |  |
| 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)

Also there will be tables to store the data of teacher, subjects the teacher is teaching right now, time table..

# 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.