PATNA COLLEGE

Department Of BCA ,Patna University

Bachelor In Computer Application

A project proposal on ATTENDANCE MANAGEMENT SYSTEM

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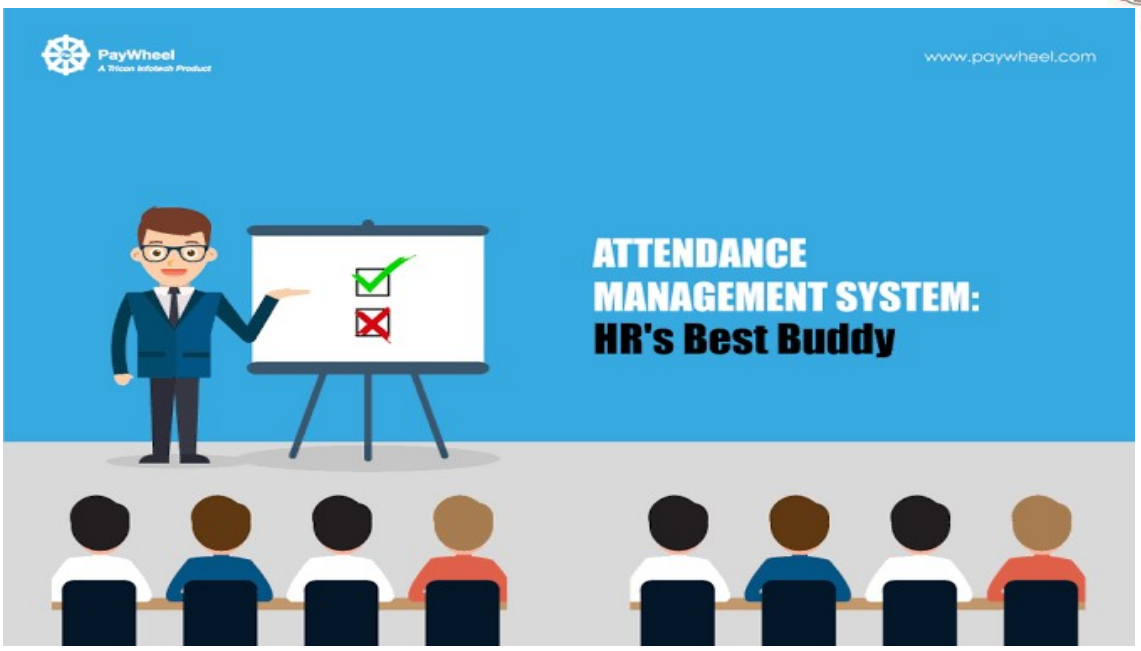


ATTENDANCE MANAGEMENT SYSTEM

Introduction

Attendance Management System is software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class.

There are two modules in this tool.
1.Admin
2.User

(1) Admin :- Admin is the user who has access everything this tool consists of like :-

(A) Mark Attendance
(B) Edit marked attendance
(C) Add new student
(D) View student attendance

(2)User :- Basically user will be parents or any other person who wants to see attendance of a student.

(A)View Attendance

Objective

In the context of the requirement for partial fulfillment of **Bachelor Degree in COMPUTER APPLICATION** from **Patna Science College**, this project was undertaken to justify the knowledge gained in three years course and to prove the ability to develop real life project in Attendance Management System.

The objective of the Project Attendance Management System is to computerized the tradition way of talking attendance and manage the Attendance of students. It will also help parents to see the attendance of their child.

My Job is to convert these entire manual jobs to a computerized system to make the task of marking attendance convenient and easy and keeping record of the attendance.

The system is implemented in a client server architecture form. There is centralized database (PHP MYSQL) that is portable across different platforms. It runs on the client machine.

Tools And Platform USED:

Hardware and Software Requirement specifications:

Software Requirements:

Name of component	Specification
Operating System	Windows 8, Windows XP, Windows7,
Front end	HTML,CSS
Back end	PHP,MYSQL
Browser	Chrome,Firefox

Hardware Requirements:

Name of component	Specification
Processor	Pentium III 630MHz
RAM	500 MB
Hard disk	512 MB
Monitor	15” color monitor
Keyboard	122 keys

Why HTML is Used?

Short for HyperText Markup Language, the authoring language used to create documents on the World Wide Web. HTML is similar to SGML, although it is not a strict subset.

HTML defines the structure and layout of a Web

document by using a variety of tags and attributes. The correct structure for an HTML document starts with <HTML><HEAD>(enter here what document is about)<BODY> and ends with </BODY></HTML>. All the information you'd like to include in your Web page fits in between the <BODY> and </BODY> tags.

Why PHP is Used?

Php if one of the major scripting languages. Learning php helps you to connect to the Database . It perform operations like read data from database , write data into database, modify the data, update the data, display the data on the frontend(HTML PAGE) and moreover it provides security and prevents from hacking AS MUCH AS POSSIBLE .

PHP default functions helps you coding time that if dont have to write seperate function in order to perform tasks most of the famous work is done by the default function..

DFD(Data Flow Diagram)

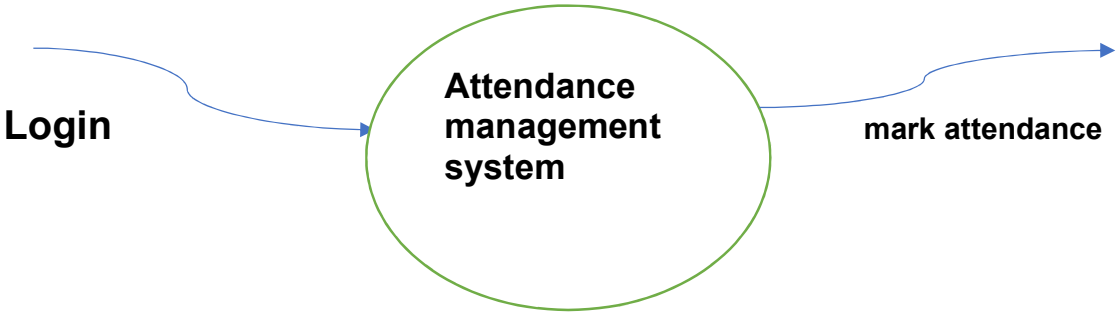
What is DFD:

Also known as DFD, Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.

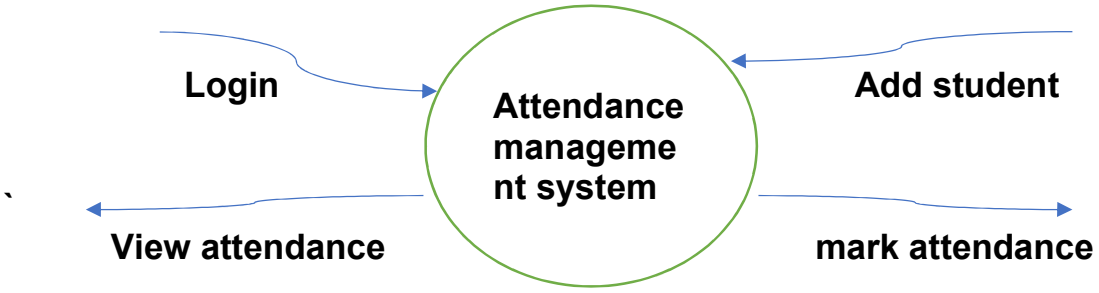
Structure of DFD allows starting from a broad overview and expand it to a hierarchy of detailed diagrams. DFD has often been used due to the following reasons:

Logical information flow of the system
Determination of physical system construction requirements
Simplicity of notation
Establishment of manual and automated systems requirements

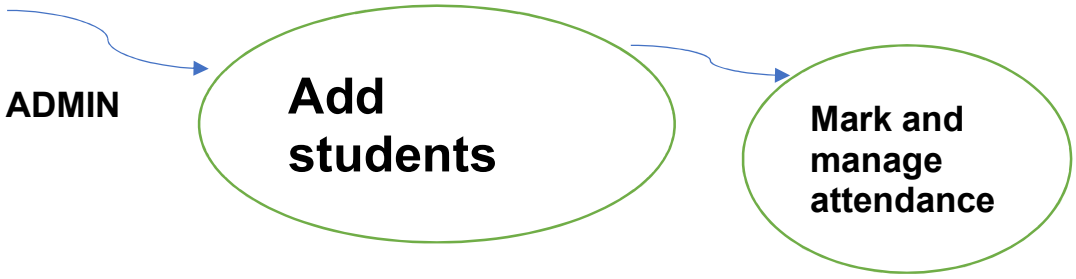
DFD



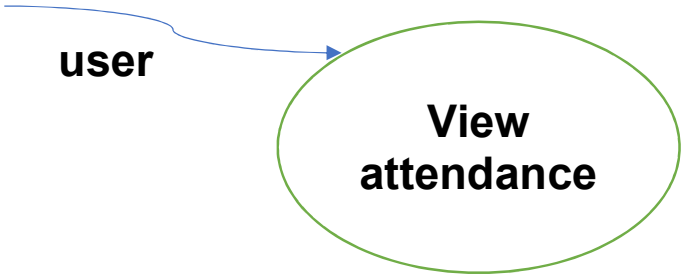
0 Level DFD



LEVEL 1 DFD



Level 2.1(Admin)



Level 2.2(User)

ERD(Entity Relationship Diagram)

What is ERD:

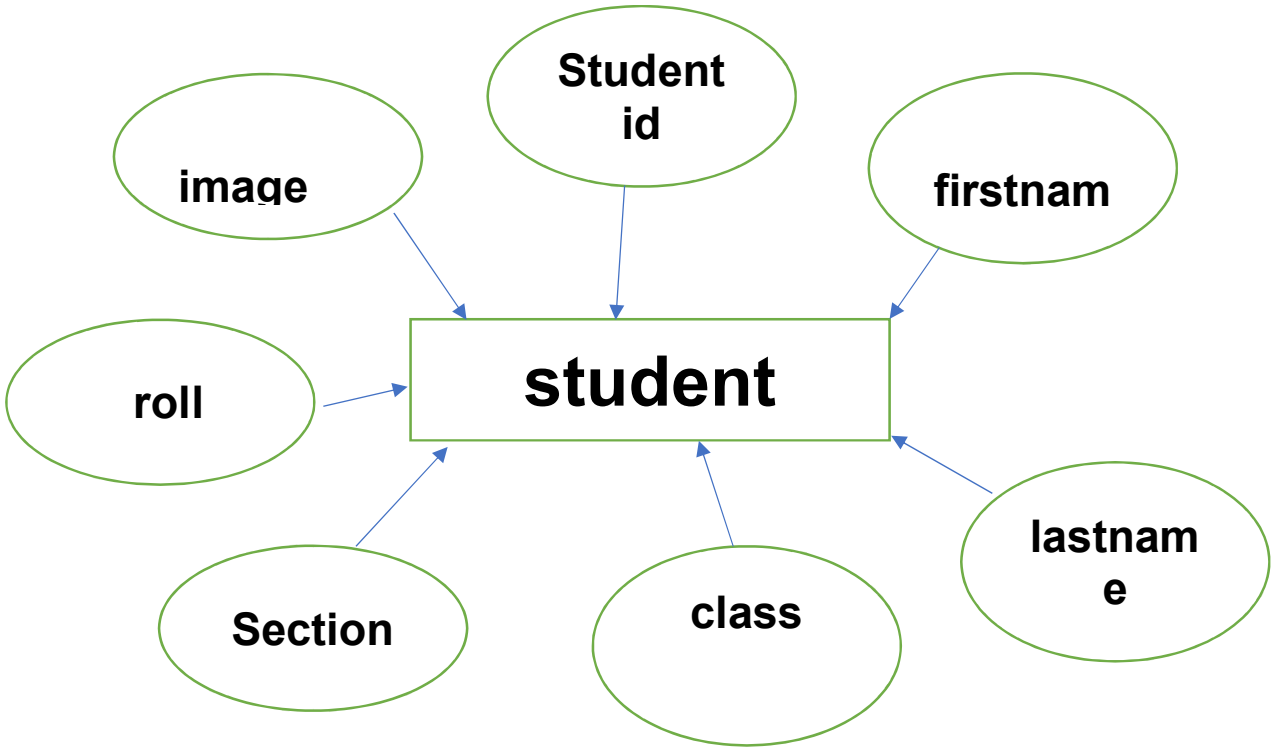
An entity-relationship diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationships between those entities. An ERD is a conceptual and representational model of data used to represent the entity framework infrastructure.

ER model is commonly formed to represent things a business needs to remember in order to perform business processes. Consequently, the ER model becomes an abstract data model, that defines a data or information structure which can be implemented in a database, typically a relational database.

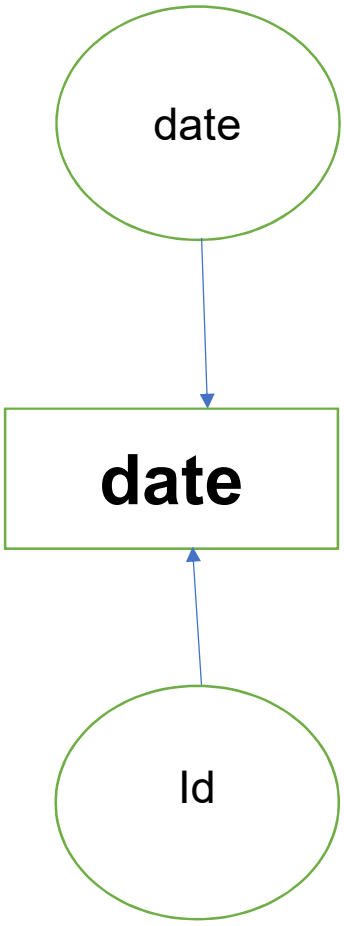
Entity–relationship modeling was developed for database and design by Peter Chen and published in a 1976 paper. However, variants of the idea existed previously. Some ER models show super and subtype entities connected by generalization-specialization relationships, and an ER model can be used also in the specification of domain-specific ontologie.

ERD

- **Table 1:-**


Student id
image
firstnam
roll
student
lastnam e
Section
class

- **Table 2:-**



Data Base

Database name- attendance

1.student

#	Name	Datatype	Size
1	Studentid	Int	Auto_increment
2	firstname	Varchar	30
3	lastname	Varchar	30
4	class	int	2
5	section	char	1
6	roll	int	3
7	image	longblob	

2.date

#	Name	Datatype
1	date	Int
2	id	Varchar

System Design of Attendance Management System

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the client's requirements into a logically working system. Normally, design is performed in the following in the following two steps:

Primary Design Phase:

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

Secondary Design Phase:

In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following:

1. Design various blocks for overall system processes.
2. Design smaller, compact and workable modules in each block.
3. Design various database structures.
4. Specify details of programs to achieve desired functionality.
5. Design the form of inputs, and outputs of the system.
6. Perform documentation of the design.
7. System reviews.

Preliminary Product Description:

The first step in the system development life cycle is the preliminary investigation to determine the feasibility of the system. The purpose of the preliminary investigation is to evaluate project requests. It is not a design study nor does it include the collection of

details to describe the business system in all respect. Rather, it is the collecting of information that helps committee members to evaluate the merits of the project request and make an informed judgment about the feasibility of the proposed project.

Analysts working on the preliminary investigation should accomplish the following objectives:

- Clarify and understand the project request
- Determine the size of the project.
- Assess costs and benefits of alternative approaches.
- Determine the technicaland operational feasibility of alternative approaches.
- Report the findings to management, with recommendations outlining the acceptance or rejection of the proposal.

Benefit to Organization

The organization will obviously be able to gain

benefits such as savings in operating cost, reduction in paperwork, better utilization of human resources and more presentable image increasing goodwill.

The Initial Cost

The initial cost of setting up the system will include the cost of hardware software (OS, add-on software, utilities) & labor (setup & maintenance).

Running Cost

Besides, the initial cost the long term cost will include the running cost
for the system including the AMC, stationary charges, cost for human resources, cost for update/renewal of various related software.

Need for Training

The users along with the administrator need to be trained at the time of implementation of the system for smooth running of the system. The client will provide the training site.

Existing System of Electricity Management System:

In the existing system, the attendance are marked manually but in proposed system it is computerized.

- Time consuming.
- Consumes large volume of paper work.
- Needs manual calculations.

- No facility for parents to see their child attendance

Proposed System of Attendance Management 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.

- Ensure data accuracy's.
- Parents can check attendance of their child.
- Minimize manual entry.
- Minimum time needed for the various processing.
- Greater efficiency.
- Better service.
- User friendliness and interactive.
- Minimum time required.

Scope for future development:

The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of expansion. With the proposed software of database Space Manager ready and fully functional the client is now able to manage and hence run the entire work in a much better, accurate

and error free manner.

References and Bibliography:

- Google for problem solving
- W3school.com
- Udemy app
- Teachers
- Friends