

Attendance Management System

A Project Report

On

“STUDENT ATTENDANCE MANAGEMENT SYSTEM”

Submitted By

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Submitted To



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Year: 2022-2023

Attendance Management System



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COLLEGE OF PROFESSIONAL & APPLIED SCIENCES
BHAGVATI SANKUL, NEAR ERU CHAR RASTA,
NAVSARI – 396 450

CERTIFICATE

This is to certify that **Mr. Jigneshsingh Arvindbhai Kushvaha**, Exam No.19 student of **B.C.A. 5th semester** of our college have successfully prepared and submitted Project Report on ‘Student Attendance Management System’ as a partial fulfillment for the course of **Bachelor of Computer Application (Minor Project Sem. V)** during the academic year **2022-2023**.

24-9-2022

DATE

Guide: Dr. Ashish B. Patel

Dr. S. M. NAIK
(I/C PRINCIPAL, NLCPAS)

Dr. A. B. PATEL
(DEPT. HEAD, BCA)

(EXTERNAL EXAMINER)

Attendance Management System

ACKNOWLEDGEMENT

As I write this acknowledgement, I must clarify that this is not just a formal acknowledgement but also a sincere note of thanks and regard from **JIGNESH SINGH ARVIND BHAI KUSHVAHA**. I feel a deep sense of gratitude and affection for our internal guide **Dr. A. B. PATEL** who were associated with this Project. Without their co-operation and guidance this project could not have been conducted properly.

We would like to say thanks to all people that helped me for successful completion of project development and for providing valuable guidance throughout our project work. So I take this opportunity to thanks the people to make this project and the report success.

And finally to naran lala college of professional & applied science and for giving me such an opportunity to put our first step of knowledge in the field in real world which increases my number of experiences by one for teaching me to see the silver lining in every dark cloud.

Our sincere thanks to all faculty member of BCA for mounding our thoughts and vision towards this subject we appreciate their concern and interest regarding the project. Their words of advice prior to living for the project help us a great deal during the project.

Attendance Management System

INDEX

SR. NO.	CONTENT
1.	INTRODUCTION
2.	OBJECTIVE OF SYSTEM
3.	SOFTWARE REQUIREMENTS
4.	OVERVIEW
5.	DATA TABLES
6.	SYSTEM FLOW CHARTS
7.	DATA FLOW DIAGRAM
8.	ER DIAGRAM
9.	SCREENSHORTS
10.	BIBLIOGRAPHY

Attendance Management System

Introduction:-

Attendance Management System is a 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. The information is sorted by the Subjects, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

Analysis can be defined as breaking up of any whole so as to find out their nature, function etc. It defines design as to make preliminary sketches of; to sketch a pattern or outline for plan. To plan and carry out especially by artistic arrangement or in a skillful way. System analysis and design can be characterized as a set of techniques and processes, a community of interests, a culture and an intellectual orientation

The purpose of developing attendance management system is to computerize the traditional way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of the session in between of the session.

Attendance Management System

OBJECTIVE:-

“Attendance Management System” is software developed for maintaining the attendance of the student on the daily basis in the collage. Here the staffs, who are handling the subjects, will be responsible to mark the attendance of the students. Each staff will be given with a separate username and password. An accurate report based on the student attendance is generated here. This system will also help in evaluating attendance eligibility criteria of a student.

Technology Used:-

Frontend :- HML,CSS,BOOTSTRAP,JAVASCRIPT

Language :- PHP

Backend :- MY SQL

Attendance Management System

Overview:-

Attendance Management System basically has two main modules for proper functioning.

- First module is admin which has right for creating space for new batch. Any entry of new student and view students.
- Second module is handled by the user which can be a teachers or students. Teacher has a right of making daily attendance, generating reports. Update in Password if necessary.
- Attendance can be taken on the basis of Subject.
- Student can see his/her attendance after login.

Attendance Management System



Data Tables

ADMIN INFO Table:

S.No.	Field Name	Data Type	Description
1.	Register Id	Int	Unique key for every user
2.	Register Date	Date	Stored present register date
3.	User Name	Varchar	Store user name for checking correct username
4.	Password	Varchar	Store password corresponding to username
5.	User Type	Varchar	User type administrator or teacher
6.	Contact No.	Varchar	Store contact number of user
7.	Email	Varchar	Store email of user

Attendance Management System

Attendance Table:

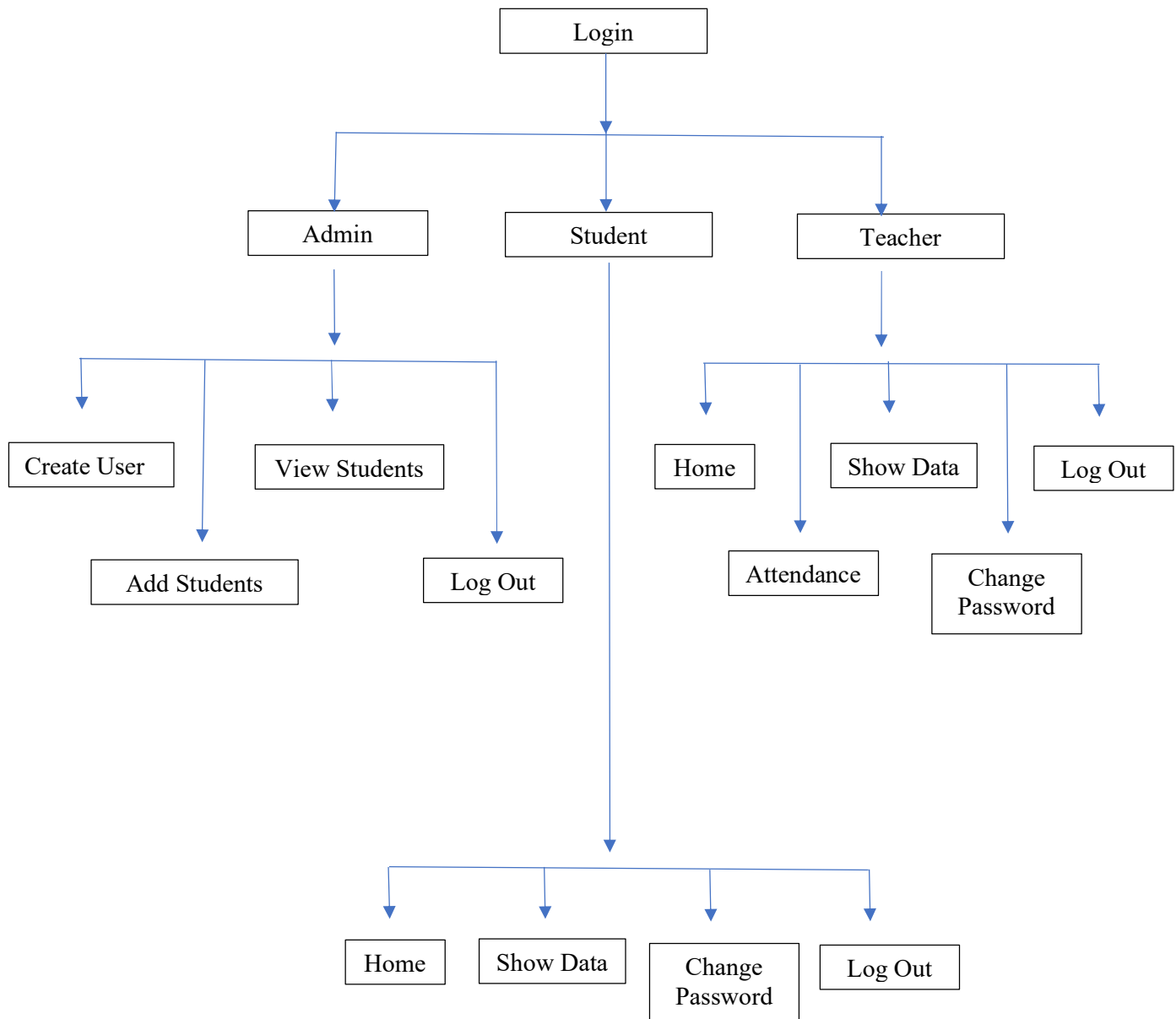
S.No.	Field Name	Data Type	Description
1.	Attendance Id	Int	Unique key for every attendance
2.	Status	Varchar	Store student present or absent
3.	Date	Date	Date wise attendance is maintained
4.	Student Id	Varchar	Reference of student

Student Table:

S.No.	Field Name	Data Type	Description
1.	Student Id	Int	This is the roll no of the student
2.	Name	Varchar	This is the name of student
3.	Department	Varchar	This is the department in which the students are studying .By default Department is BCA
4.	Subject	Varchar	Name of subject in semester
5.	Semester	Varchar	This is the semester in which Students are Studying.

Attendance Management System

SYSTEM FLOW CHART



Attendance Management System

DATA FLOW DIAGRAM(DFD)

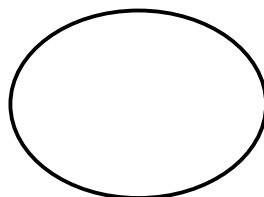
A data flow diagram (DFD) is a graphical representation of the “flow” of data through an information system. DFD’s can also be used for the visualization of data processing (structure design). On a DFD, data item flow from external data source or an internal data store to an internal data store or an external data sink, via an internal process.

A DFD’s is to provide the indication of how data are transferred as they move through the system. The DFD is also known as BUBBLE chart. A DFD consists of a series of bubble joint by lines, the bubble represent data transformation, line represent & data flow in the system.

The symbols used are:-

- **PROCESS**

A process transforms the incoming data into outgoing dataflow. Example purchase of item, update etc.



Attendance Management System

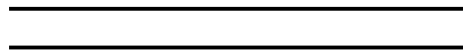
- **EXTERNAL ENTITY**

The external entity defines source & destination of a system or an external entity of the system. Example. Customer, supplier etc.



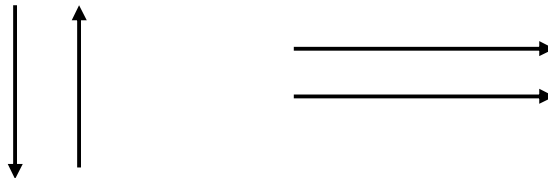
- **INTERNAL ENTITY**

The internal entity represents the table or data structure. Example employee master, department master etc.



- **DATA FLOW:-**

A Data flow represent the flow of data, it's a pipe line through which the information flows.



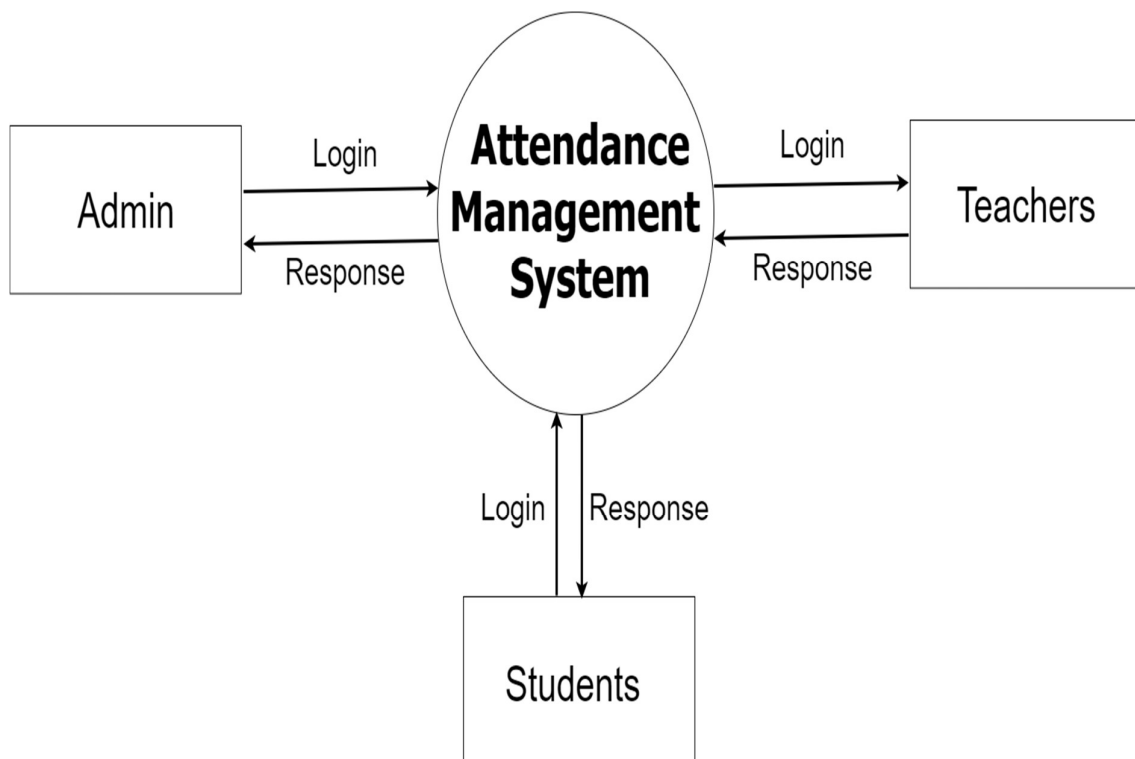
- ➔ + - This sign is used to define the relationship when data are coming from more than one source.
- ➔ *- It represent the relationship “OR” one of the source at a time supply the data.

Attendance Management System

DATA FLOW DIAGRAM(DFD)

- CONTEXT LEVEL
- 0 LEVEL

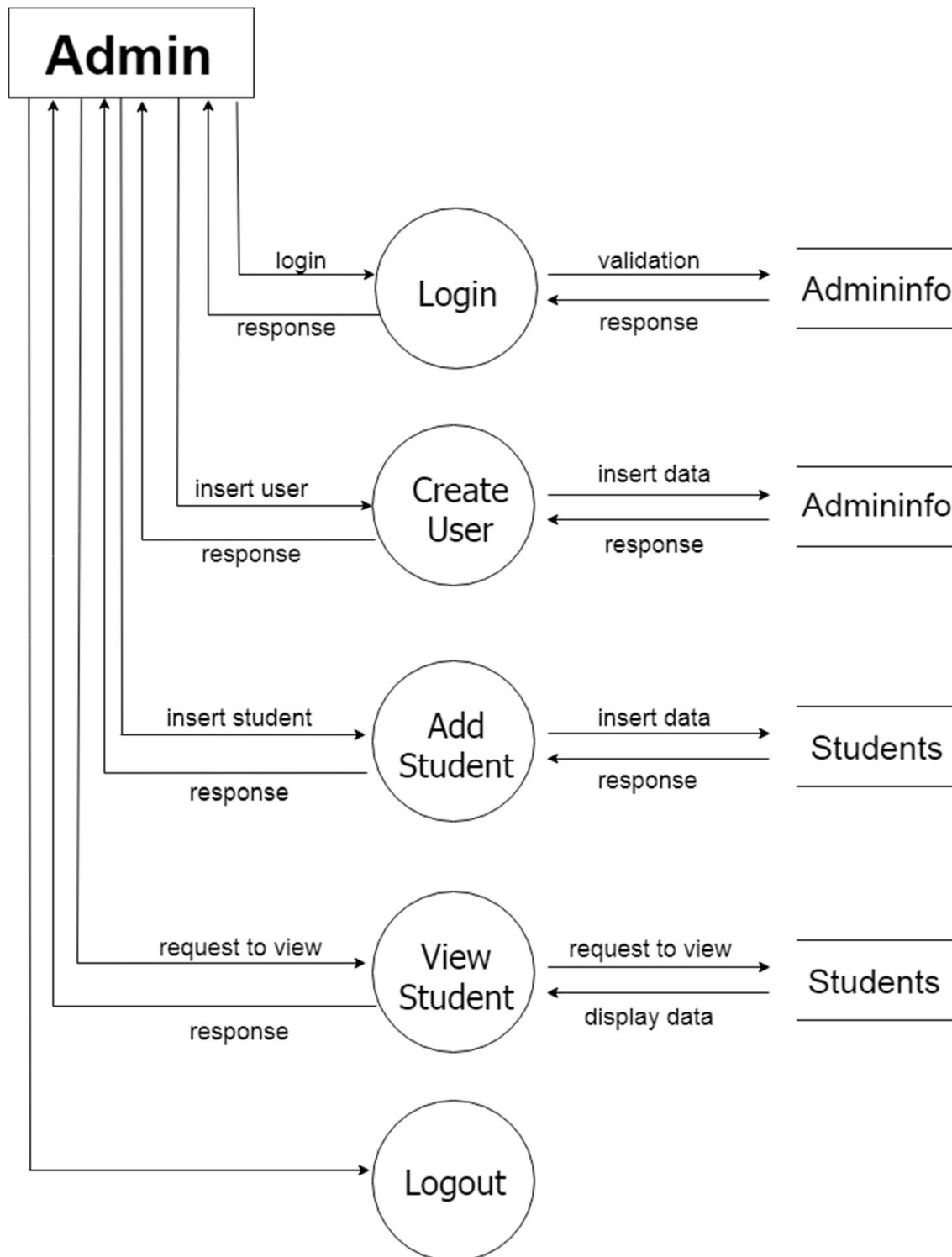
Context Level



Attendance Management System

DATA FLOW DIAGRAM(DFD)

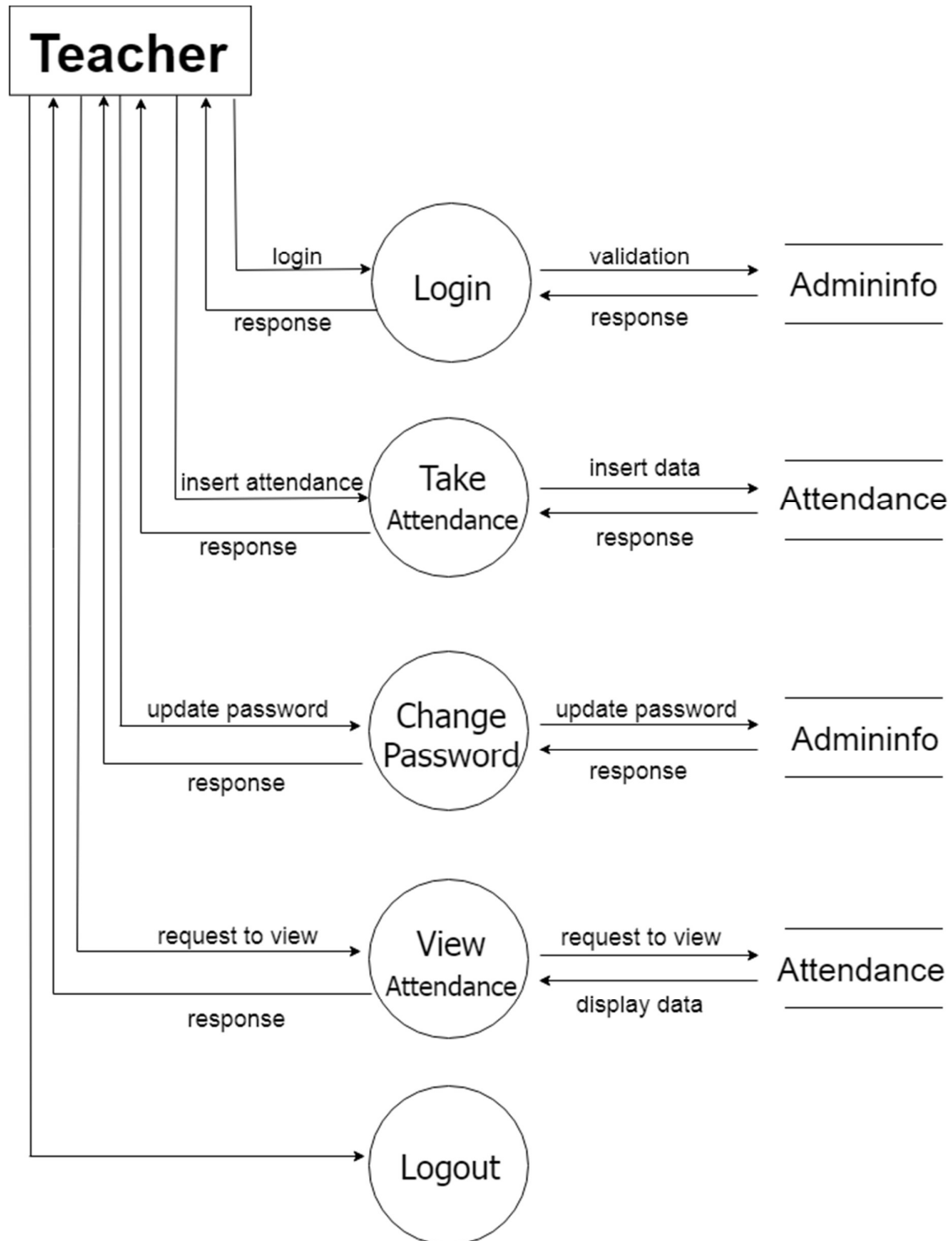
0 LEVEL (ADMIN)



Attendance Management System

DATA FLOW DIAGRAM(DFD)

0 LEVEL (TEACHER)



Attendance Management System

ENTITY RELATIONSHIP MODEL

- ★ The E-R model is a detailed, logical representation of the data for an organization or business area.
- ★ It should be understandable to both the user and to the IT technologist.
- ★ The model must be as 'open' as possible and tied to any technology or to any particular business methodology.
- ★ It must be flexible enough so that it can be used and understood in practically any environment where information is modeled.
- ★ it is expressed in terms of entities in the business environment, the relationship (or associations) among those entities and the attributes(properties) of both the entities and their relationships.
- ★ The E-R model is usually expressed as an E-R diagram.

Set of primary components of ER-diagram is:

- ❖ DATA OBJECT
- ❖ ATTRIBUTES
- ❖ RELATIONSHIP
- ❖ VARIOUS TYPE INDICATIONS.

Attendance Management System

THE SYMBOL USED IN ER-DIAFRAM AS FOLLOW:

★ RECTANGLES :

★ ELLIPSES :

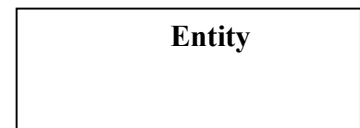
★ DIAMONDS :

★ LINES :

In system analysis, entity-Relationships analysis is one of the conceptual modeling methods. Thee-R data model uses a few basic concepts in processing an E-R diagram. They are:

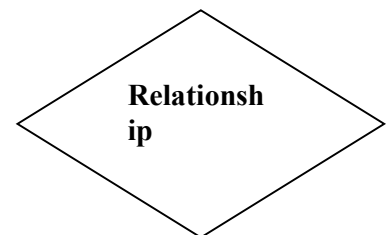
ENTITIES:-

An entity is a person, place or think in an enterprise. An entity is represented by rectangular labeled box.



RELATIONSHIP:

A relationship a meaningful association or linkage or connection between entities. An entity and entity set are represented by a rectangular labeled box. A relationship is represented by a diagram box.



Attendance Management System

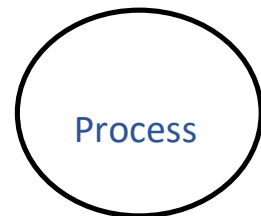
ATTRIBUTES:-

An attributes is any aspects, quality, characteristic, or descriptor of either an entity or a relationship. An attribute tells for what an entity is, entity has, entity contains or the entity does.



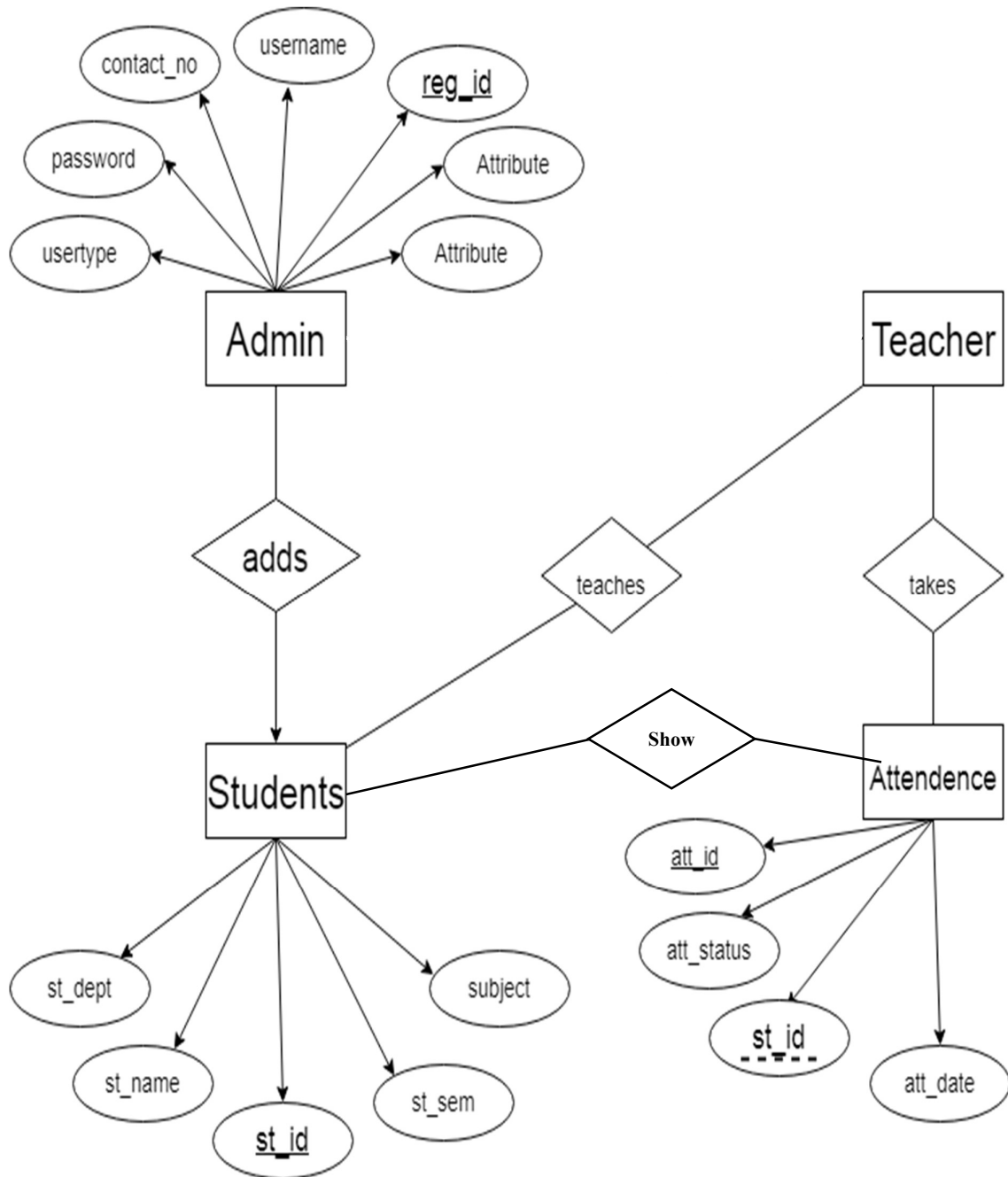
Process:

A circle represents a process. A process represents some amount of work using behavior of data. A process does transformation of data from one to another.



Attendance Management System

ENTITY RELATIONSHIP DIAGRAM



Attendance Management System

DESIGN LAYOUT

- **LOGIN FORM**



This login Form is made For Security purpose. So only Authenticated User only Access in to the Project. There are two Type of persons can enter in the project

1. Administrator
2. User

Attendance Management System

- **CREATE USER FORM**

The screenshot shows the 'Create Users' form within the 'Student Attendance' application. The header bar is orange with the title 'Student Attendance' and a user greeting 'welcome admin'. Below this is a blue navigation bar with links: 'Create Users', 'Add Student', 'view student', and 'Log Out'. The main content area is light gray and contains a white-bordered box titled 'Create Users'. Inside this box, there are several input fields: 'User name:' with a placeholder 'Enter User Name', 'Password:' with a placeholder 'Enter password', 'User Type:' with a dropdown menu showing 'Student', 'Email Address:' with a placeholder 'Enter email', and 'Contact No.:' with a placeholder 'Enter Contact'. A blue 'Registration' button is at the bottom of the form. A black footer bar at the very bottom contains the text 'All copyrights ©are reserved by jignesh'.

Student Attendance

welcome [admin](#)

Create Users Add Student view student Log Out

Create Users

User name:
Enter User Name

Password:
Enter password

User Type: Student

Email Address:
Enter email

Contact No.:
Enter Contact

Registration

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- **ADD STUDENT FORM**

The screenshot shows the 'Add Student's Information' form within the 'Student Attendance' application. The header bar is orange with the title 'Student Attendance' and a user greeting 'welcome admin'. Below this is a blue navigation bar with links: 'Create Users', 'Add Student', 'view student', and 'Log Out'. The main content area is light gray and contains a white-bordered box titled 'Add Student's Information'. Inside this box, there are several input fields: 'Name' with a placeholder 'student full name', 'Department' with a placeholder 'department ex. CSE', 'subject' with a placeholder 'web development or PHP', and 'Semester' with a placeholder '4 or 5'. A blue 'Add Student' button is at the bottom of the form. A black footer bar at the very bottom contains the text 'All copyrights ©are reserved by jignesh'.

Student Attendance

welcome [admin](#)

Create Users Add Student view student Log Out

Add Student's Information

Name
student full name

Department
department ex. CSE

subject
web development or PHP

Semester
4 or 5

Add Student

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Attendance Management System

• VIEW STUDENT DETAILS

Student Attendance

welcome [admin](#)

Create Users Add Student view student Log Out

Student Id	Student Name	Department	Subject	Semester
1	jignesh	BCA	web development	4
2	jigar	BCA	web development	4
10	amit	BCA	web development	4
3	nishant	BCA	PHP	5
4	jay	BCA	PHP	5
8	chetan	BCA	PHP	5
11	om	BCA	PHP	5


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• TEACHER HOME PAGE

Teacher Panel

welcome jyoti mam

Home Attendance Showdata Changed Password Log Out



Stay Accurate with our Attendance Management System

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. The information is sorted by the operators, which will be provided by the teacher for a particular class. Manually taking attendance and registering it in files & musters makes the daily attendance a mundane task for the faculty and unnecessarily consumes classroom time.

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Attendance Management System

• ATTENDANCE

Teacher Panel

welcome jyoti mam

[Home](#) [Attendance](#) [Showdata](#) [Changed Password](#) [Log Out](#)

Subject:

Select

show

st_id	st_name	st_dept	subject	st_sem	attendance
1	jignesh	BCA	web development	4	<input checked="" type="checkbox"/> Present
2	jigar	BCA	web development	4	<input checked="" type="checkbox"/> Present
10	amit	BCA	web development	4	<input checked="" type="checkbox"/> Present
<div>save</div>					

• SHOW ATTENDANCE DETAILS

Teacher Panel

welcome jyoti mam

[Home](#) [Attendance](#) [Showdata](#) [Changed Password](#) [Log Out](#)

Subject:

Select

Date:

dd-mm-yyyy

show

student Roll no.	Student name	Subject	Attendance	Date
1	jignesh	web development	Present	22-09-21
2	jigar	web development	Present	22-09-21
10	amit	web development	Absent	22-09-21

Attendance Management System

• CHANGED PASSWORD

Teacher Panel

welcome jyoti mam

Home Attendance Showdata Changed Password Log Out

Change Your Password

Email Address:

Old Password:

New Password:


changed

• STUDENT HOME PAGE

Student Panel

welcome jignesh

Home Showdata Changed Password Log Out



Stay Accurate with our Attendance Management System

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. The information is sorted by the operators, which will be provided by the teacher for a particular class. Manually taking attendance and registering it in files & musters makes the daily attendance a mundane task for the faculty and unnecessarily consumes classroom time.

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Attendance Management System

• VIEW STUDENT OWN DETAILS

Student Panel

welcome jignesh

[Home](#) [Showdata](#) [Changed Password](#) [Log Out](#)

student Roll no.	Student name	Department	Subject	Semester	Attendance	Date
1	jignesh	BCA	web development	4	Present	22-09-19
1	jignesh	BCA	web development	4	Present	22-09-20
1	jignesh	BCA	web development	4	Present	22-09-21
1	jignesh	BCA	web development	4	Absent	22-09-22

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• STUDENT CHANGED PASSWORD

Student Panel

welcome jignesh

[Home](#) [Showdata](#) [Changed Password](#) [Log Out](#)

Change Your Password

Email Address:

Old Password:

New Password:

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Attendance Management System

Bibliography

Books

- Learning PHP Complete Reference Book
- Learning MySQL Book
- HTML,CSS,JavaScript : A Step-by-Step Guide to Creating Dynamic Website – by Robin Nixon.
- PHP & MySQL Web Development – by Luke Welling & Laura Thompson
- Software engineering by roger pressman

Web Site

- <http://www.w3school.com>
- <http://www.javapoint.net>
- <http://www.codeproject.com>
- <http://www.stackoverflow.com>
- <https://www.tutorialspoint.com>
- <https://www.geeksforgeeks.org>