

A project report

ONLINE ATTENDANCE MANAGEMENT

submitted in partial fulfillment of the requirement for the

"DIPLOMA IN COMPUTER SCIENCE ENGINEERING"

BY

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CERTIFICATE

This Certify That the Project Report Entitled as “**ONLINE ATTENDANCE MANAGEMENT**” which has been completed of submitted by – MANISHA MAHRA in partial fulfillment of the requirement for the award of the diploma engineering in computer science for the session 2022-23 is a benefited work by them and has been completed under my guidance and supervision. It has not been submitted else were.

For any other degree.

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CERTIFICATE

This is to certify that this report embodies the original work done by **Manisha Mahra**; during this project submission as partial fulfillment of the requirement for the project of Diploma (Computer science) 6th Semester, Govt. Polytechnic College Anuppur(M.P).

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DECLARATION

We hereby declare that the project report entitled “**Attendance Management System**” submitted by us to **Govt. Polytechnic College Anuppur** in partial fulfillment for the award of diploma of computer science and engineering is a record of bonafide project work carried out by us under the guidance of **Mr. MAHENDRA GUPTA**.

I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or full, for the award of any other diploma in this institute or any other institute or Polytechnic College.

MANISHA MAHRA

(19111C04013)

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We are grateful to our project guide **Mr. Mahendra Gupta Sir** for the guidance, inspiration and constructive suggestions that helped us in the preparation of this project.

We also thank our colleagues who have helped in successful completion of the project.

MANISHA MAHRA

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ABSTRACT

Student Attendance Management System deal with the maintenance of the student's attendance details. It is generates the attendance of the student on basis of presence in class. It is maintaining daily basis of attendance, the staff will be provide with the separate username and password to make student attendance.

The staff handling the particular subject to responsible to make the attendance for all Student. Only if the student presents the particular date, the attendance will be calculated. The attendance report based on monthly and consolidate will be generated.

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1: Introduction

1.1. Definition

1.2. Purpose

1.3. Scope

1.4. Overview

1.5. Reference

1.1 Definition :-

Attendance Management System is software developed for daily student attendance in school, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. The information is shared by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

1.2 Purpose :-

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

1.3 Scope :-

The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute, But later on the project can be modified to operate in online.

1.4 Overview :-

Attendance management system basically has two main modules for proper functioning:-

First module is admin which has right for new batch, any entry of new faculty, Updating in subject if necessary, and sending notice.

Second module is handled by the user which can be a faculty or an operator. User has a right of making daily attendance, generating report.

1.5 References :-

An Integrated approach to Software Engineering Approach- Mr. Mahendra Gupta And the other contents to different SRS's report.

2: The Overall Description

2.1 Product Perspective

2.2 Product Functions

2.3 User Characteristics

2.4 Constraints

2.5 Assumptions and Dependencies

2.1 Product Perspective:-

The product Attendance Management System is an independent product and does not depend on any other product on system. The product will automate various tasks associated with handling student details and better organizing the stored information and optimum performance, thus helping the colleges to ensure smooth working of these processes.

2.2 Product Functions:-

Our system has two types of accessing modes:-

- i. Administrator
- ii. User

- Teacher
- Student

(1) Administrator

Administrator have right to manage student details, add a new student, provide register number for all students, assign each student a course etc., Administrator can update his profile, and also can give help to the teachers and students.

(2) User: There are two users:-

- **Student:-** Student do the login and see profile. Attendance details etc.
- **Teacher:-** Add student, view the student details and take attendance student.

2.3 User Characteristics:-

This software gives access to two kinds of users.

1. Administrator:-

The administrators have features access to add, delete and modify information stored in the database.

Authorized User: Teaching staffs have access to view the data stored in the database and can update the student's attendance in the form of formatted reports.

Student has access to view the data stored In the database.

2.4 Constraints:-

Interface is only in English, no other language option is available.

User can login with his assigned username and password, no guest facilities is available.

2.5 Assumptions and Dependencies:-

We assume that the office personnel do all the data entry based and the correct values obtained from forms and registers.

We assume that the computers that will use the software will be part of the college LAN.

Users with administrator access should be careful in deleting or modifying any information knowingly or unknowingly which will lead to inconsistency of the database.

The end users of this software are assumed to have basic level of computer knowledge i.e. point and cli

3: System Analysis

3.1 Introduction

3.2 Existing System

3.3 Proposes System

3.4 Feasibility Study

3.4.1 Economically Feasibility

3.4.2 Technical Feasibility

3.4.3 Operational Feasibility

3.1 Introduction:-

Analysis can be defined as breaking up of any whole so as to find out their nature, functions 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 process, a community of interest, a culture and an intellectual orientation. The various tasks in the system analysis include the following.

Understanding application,

Planning,

Scheduling,

Developing candidate solution,

Performing trade studies,

Performing cost benefit analysis,

Recommending alternative solution,

Supervising, installing and maintaining the system,

This system manages to the analysis of the report creation and develops manual entry of the student attendance. First design the Students entry form, staff allocation and time table allocation form. This project will help the attendance system for the department calculate percentage and reports for the eligibility criteria of examination. The application attendance entry system will provide flexible report for all students.

3.2 Existing System:-

Existing system is a manual entry for the students. Here the attendance will be carried out in the hand written registers. It will be a tedious job to maintain the record for the users. The human effort is more here. The retrieval of the information is not as easy as the records are maintained in the hand written registers.

This application requires correct feed on input into the respective field. Suppose the wrong inputs are entered, the application resist to work, so the user find it difficult to use.

3.3 Proposed System:-

To overcome the drawbacks of the existing system, the proposed system has been evolved. This project aims to reduce the paper work and saving time to generate accurate result from the student's attendance. The system provides with the best user interface.

The efficient reports can be generated by using this proposed system.

Advantages of proposed system

It is trouble-free to use,

It is a relatively fast approach to enter attendance is highly reliable, approximate result from user best user interface and efficient reports.

3.4 Feasibility Study:-

Feasibility analysis begins one the goals are defined. It starts by generating broad possible solutions, which are possible to give an indication of what the new system should look like. This is where creativity and information are used. Analysis must think up new ways of doing things- generate new ideas. There is no need to go into the detailed system operation yet. The solution should provide enough information to make reasonable estimates about project cost and give users an indication of how the new system will fit into the organization. It is important not to exert considerable effort as this stage only to find out that the project is not worthwhile or that there is a need significantly change the original goal.

Feasibility of a new system means ensuring that the new system, which we are going to implement, is efficient and affordable. There are various types of feasibility to be determined. They are –

3.4.1 Economically Feasibility

Development of this application is highly economically feasible. The only thing to be done is making an environment with an effective supervision.

It is cost effective in the sense that has eliminated the paper work completely. The system is also time effective because the calculations are automated which are made at the end of the month or as per the user requirement.

3.4.2 Technical Feasibility

The technical requirement for the system is economic and it does not use any other additional Hardware and Software. Technical evaluation must also assess whether the existing systems can be upgrade to use the new technology and whether the organization has the expertise to use it.

Install all upgrade Framework into the .Net package supported windows based application. This application depends on Microsoft office and internet service, database. Enter their attendance and generate report to excel sheet.

3.4.3 Operational Feasibility

The system working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating the system. Technical performance include issues such as determining whether the system can provide the right information for the Department personnel student details, and whether the system can be organized so that it always delivers this information as the right place and on time using intranet service.

4: Requirement Specifications

4.1 Hardware requirement:-

❖ Hardware:

- Ram - 4GB
- Rom - 64GB
- Storage - 1.5GB available
- Processor - Intel i5

4.2 Software Requirement:-

❖ Software:

- Operating system - windows 10/ front design64bit operating system
- Front design - visual studio 2019
- Front end language - HTML, CSS
- Back end language - PHP/ MY SQL

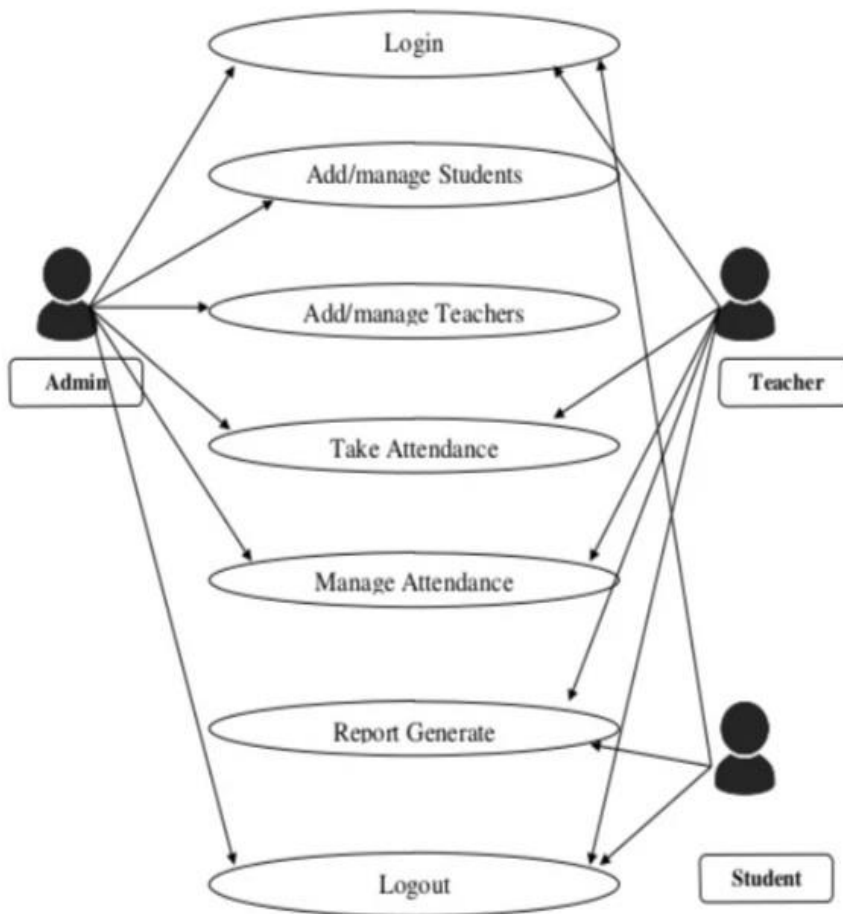
4.3Functional Requirement:-

Attendance Management System involves the following functions-

Easily track attendance information of students.

Quickly produce attendance bulletin.

Use Case Diagram:-



4.4 Non- Functional Requirements:-

4.4.1 Performance

Easy tracking of records and updating can be done. All the requirements relating to performance characteristics of the system are specified in the section below. There are two types of requirement.

Static Requirement

These requirements do not impose any constraints on the execution characteristics of the system. They Are:

Number of Terminals

The software makes use of an underlying database that will reside at the server, while the front end will be available online to the administrative and departmental as well as students and teachers

Number of User

The number of users may vary, as this software finds applications in almost all department of the organization.

Dynamic Requirements

These specify constraints on the execution characteristics of the system. They typically include response time and throughout of the system. Since these factors are not applicable to the proposed software, it will suffice if the response time is high and the transactions are carried out precisely and quickly.

4.4.2 Reliability

The software will not be able to connect to the centralized database in the event that the college LAN fails or in the event of the server being down due to a hardware and software failure.

4.4.3 Availability

The software will be available only to authorized users of the colleges like teachers to mark the student's attendance, student to view their enrolled course, admin to add and update students records.

4.4.4 Security

The security requirements deal with the primary security. The software should be handled only by the administrator and authorized users. Only the administrator has right to assign permission like creating new accounts and generating password. Only authorized users can access the system with username and password.

4.4.5 Maintainability

Backups for database are available.

4.4.6 Portability

The software is a windows-based application and is built in PHP and MYSQL so it is platform independent and is independent of operating system.

4.5 Design constraints:-

This software provides security. The login form prevents the system from being misused by unauthorized users. Only an authorized operator will be granted rights to modify as per requirements. This software is also reliable fault tolerant. The system developed is designed to handle invalid inputs. Since reliability is major area of concern the system has a backup to avoid data loss. The user should know the programming language very well that is used to develop software.

5: Software Description

5.1 Visual Studio 2008

5.1.1 Fast & Smart code Editing

5.1.2 Easy & Efficient Project Management

5.2 MYSQL

5.2.1 Introduction

5.2.2 Features of MYSQL

5.1 Visual Studio 2008:-

Microsoft visual studio is an Integrated Development Environment (IDE) from Microsoft. It can be used to develop console and graphical user interface applications along with windows form, applications, website, web applications, and web services in both native code together with managed code for all platforms supported by Microsoft Windows, Windows Mobile, Windows CE. PHP Framework PHP Compact Framework and Microsoft Silver light.

Visual studio includes a code editor supporting IntelliSense as well as code refactoring. The integrated debugger works both as a source-level debugger and a machine-level debugger. Other built-in tools include a forms designer for building GUI application, web designer, class designer, and database schema designer. It allow plug-ins to be added that enhance the functionality at almost every-level including adding support for source control system (like subversion and Visual SourceSafe) to adding new toolsets like editor and visual designer for domain-specific languages or toolsets for other aspects of the software development lifecycle (like the team foundation server client: Team explorer).

Visual studio functions as the code editing area, form designer, code Validator, compiler and library browser for a software development project. Its supports languages by means of language service, which allow any programming language to be supported (to varying degrees) by the code editor and debugger, provided a language-specific service has been authored.

In this course we will be exploring installation initialization, and basic use of the IDE for the purpose of writing PHP software.

5.1.1 Fast & Smart code Editing

The visual studio indents lines, matches words and brackets, and highlight source code syntactically and semantically. It lets you easily refactor code, with a range of handy and powerful tools, while it also provides code templates, coding tips, and code generators.

5.1.2 Easy & Efficient Project Management

Keeping a clear overview of large applications, with maximum numbers of folders and files, and maximum of lines of code, is a daunting task. Visual studio provides different views of your data, from multiple project windows to helpful tools for setting up your applications and managing them efficiently, letting you drill down into your data quickly and easily, while giving you versioning tools via Subversion, Mercurial, and integration out of the box.

When new developers join your project, they can understand the structure of your application because your code is well-organized.

5.2 MYSQL:-

5.2.1 Introduction

MYSQL is a relational Database Management System (RDBMS).

RDBMS means R-DB-MS.

R stands for Relational.

DB stands for Database, a repository for the information store.

The data in a database is organized into tables, and each table is organized into rows and columns.

Each row in table is called a record. A record may contains several pieces (called fields) of information, and each column in a table is known as a field.

MS stands for Management System the software that allows you to insert, retrieve, modify, or delete records.

R stands for Relational indicates a particular kind of DBMS that is good at relating information stored in one table to information stored in another table by looking for elements common to each of them.

Relational DBMS has the advantage of efficient storage, and retrieval mechanisms for data, and uses normalization process during design of RDBMS.

5.2.2 Features of MYSQL:-

Speed:

Of course, the speed at which a server side program runs depends primarily on the server hardware. Given that the server hardware is optimal, MYSQL runs very fast. It supports clustered servers for demanding applications.

Ease of use

MYSQL is a high-performance, relatively simple database system from the beginning. MYSQL has typically been configured, monitored, and managed from the command line. However, several MYSQL graphical interfaces are available as described below:

MYSQL administrator: This tool makes it possible for administrator to set up, evaluate, and tune their MYSQL database server. This is intended as a replacement for MYSQL admin.

MYSQL query browser: provides database developers and operators with a graphical database operation interface.

Configuration Wizard: Administrators can choose from predefined list of optimal settings, or create their own.

MYSQL system tray: provides windows-based administrators a single view of their MYSQL instance, including the ability to start and stop their database servers.

Cost

MYSQL is available free of cost. MYSQL is a “open source” database. MYSQL is part of XAMPP (Cross-platform, apache, MYSQL, PHP, Perl programming language) environment, a fast growing open source enterprise software stack. More and more companies are using XAMPP as an alternative to expensive Proprietary software stacks because of its lower cost, reliability, and documentation.

Query language support

MYSQL understands standards based SQL (Structured query language).

Capability

Many clients can connect to the server at the same time. Clients can use multiple database simultaneously. You can access MYSQL using several interfaces such as command-lines clients, web browsers.

Connectivity and security

MYSQL is fully networked, and database can be accessed from anywhere on the internet, so you can share your data with anyone, anywhere. The connectivity could be achieved with windows programs by using ODBC connector to MYSQL any ODBC-aware client application (for example, Microsoft Office, report writers, Visual basic) can connect to MYSQL.

Portability

MYSQL runs on many varieties of UNIX, as well as on other non-UNIX systems, such as windows and OS/1. MYSQL runs on hardware home PCs to high-end server. MYSQL can be installed on windows XP, windows server 1003, Red Hat Fedora Linux, and others.

MYSQL is Open source software

Open source means that it is possible for anyone to used and modify. Anybody can download MYSQL from the internet and use it without paying anything. Anybody so inclined can study the source code and change it to fit their needs. MYSQL use the GPL (GNU General Public License) to define what you may and may not do with the software in different situations. If you feel uncomfortable with the GPL or need to embed MYSQL into a commercial application you can by a commercially license version from us.

Why use MYSQL

MYSQL is very fast, reliable, and easy to use. If that is what you are looking for, you should give it a try. MYSQL also has a very practical set of features developed in very close cooperation with our users. MYSQL was originally developed to handle very large database much faster them existing solutions and has been successfully used in highly demanding production environments for several years. Though under constant development, MYSQL today offers a rich and very useful set of functions. The connectivity, speed and security make MYSQL highly suited accessing database on the internet.

The technical features of MYSQL

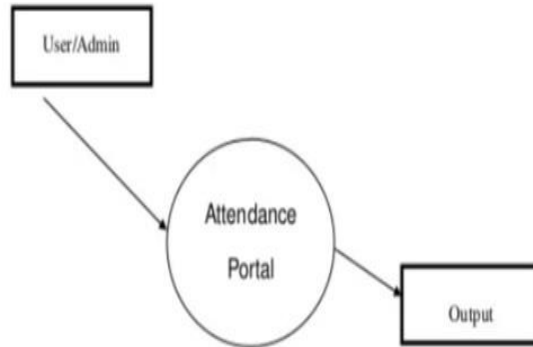
MYSQL is a client/server system that consists of a multi-threads SQL server that supports different back ends, several different client program and libraries, administrative tools and several programming interfaces. We also provide MYSQL as a multi-threaded library which you can link into your application to get a smaller, faster, easier to manage product.

MYSQL has a lot of contributed software available.

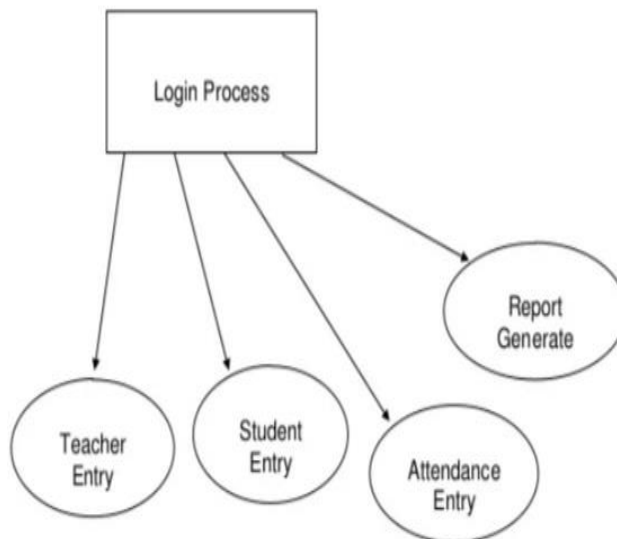
6: Design

6.1 Data Flow Diagram:-

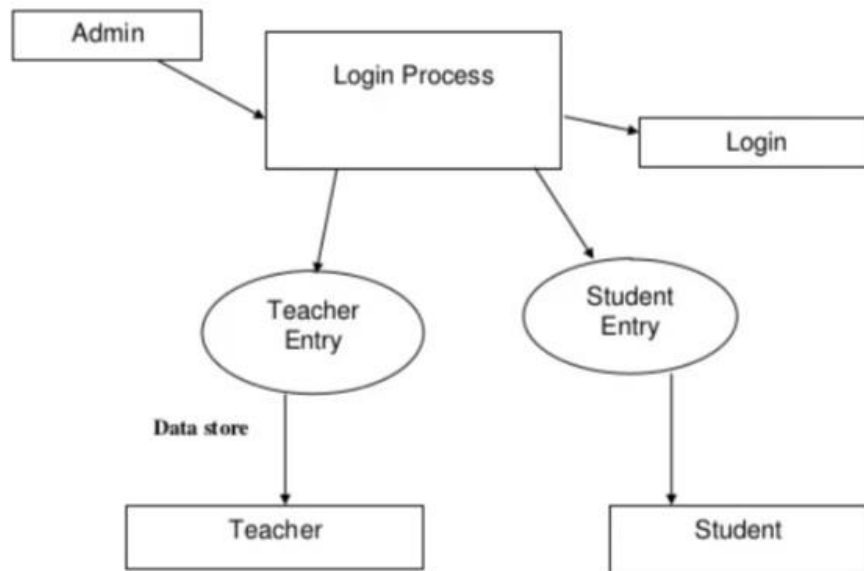
6.1.0-level DFD



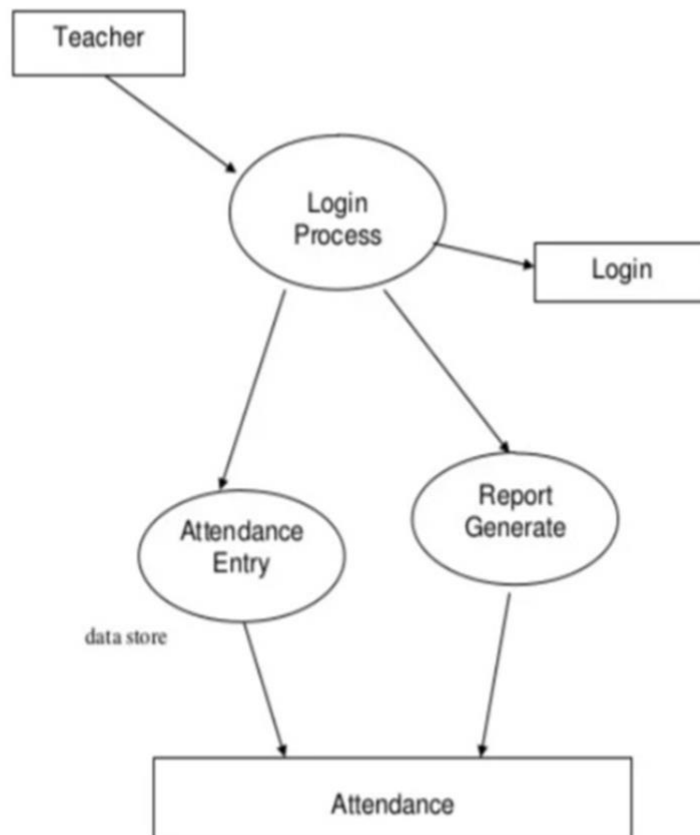
6.1.1-level DFD



6.1.2-level DFD



6.1.3-level DFD



6.2 E-R Diagram:-



6.3 Input Design:-

Input design is part of overall system design that requires special attention designing input data is to make the data entered easy and free from errors. The input forms are designs using the controls available in PHP Framework.

Input design is the process of converting the user originated inputs to a computer based format. A system user interacting through a workstation must be able to tell the system whether to accept the input to produce report. The collection of input data is considered to be most expensive part of the system design. Since the input has to be planned in such a manner so as to get relevant information, extreme care is taken obtain pertinent information.

This project first will entered to the input of allocation forms it will be created on student details form and subject entry form, time table form. It will help to calculate subject wise attendance system.

6.4 Output Design:-

Output design this application “**Student attendance Management System**” generally refers to the result and information that are generated by the system for many end-users: output is the main reason for developing the system and the basis on which they evaluate the usefulness of the application.

The output is design in such a way that it is attractive, convenient and informative. Forms are designed with various features, which make the consol output more pleasing. As the outputs are the most important source of information to the users, better design should improve the system’s relationships with us and also will help in decision making. Form design elaborates the way output is presented and the layout available for capturing information.

One of the most important factors of the system is the output it produces. This system refers to the results and information generated. Basically the output from a computer system is used to communicate the result of processing to the user.

Attendance management system to show the report subject wise attendance maintaining by staffs. Taken as a whole report obtains on a administrator privileges only.

7: Database Table

7.1 Login Table:-

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 Usertype	varchar(250)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	2 Username	varchar(350)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 Password	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<div><input type="checkbox"/> Check all With selected: Browse Change Drop Primary Unique Index</div> <div> Remove from central columns</div>									

7.3 Student Table:-

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 sno.	int(1)			Yes	NULL			Change Drop More
<input type="checkbox"/>	2 FirstName	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 FatherName	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	4 EnrollmentNo	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	5 Attend	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	6 MobileNo	char(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	7 Email	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	8 Gender	varchar(6)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	9 Branch	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	10 Date	date			No	None			Change Drop More
<input type="checkbox"/>	11 Time	time(6)			No	None			Change Drop More

7.4 Attendance Table:-

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 RollNo	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	2 StudentName	varchar(400)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 FatherName	varchar(400)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	4 Attendance Status	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	5 Date	date			No	None			Change Drop More
<input type="checkbox"/>	6 SubjectName	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	7 TeacherName	varchar(350)	utf8mb4_general_ci		No	None			Change Drop More

7.5 Course Table:-

Table structure

Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 Course	varchar(130)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	2 Branch	varchar(500)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 Year	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	4 Semester	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More

Check all

With selected:

Browse

Change

Drop

Primary

Unique

Index

Remove from central columns

8: Project Description

8.1 Problem Definition:-

This system developed will reduce the manual work and avoid redundant data. By maintaining the attendance manually, then efficient report cannot be generated. The system can generate efficient weekly, consolidate report based on the attendance. As the attendances are maintained in registers it has been a tough task for admin and staff to maintain for long time. Instead the software can keep long and retrieve the information when needed.

8.2 Project Overview:-

Attendance Management System basically has two main modules for proper functioning Admin module is has rights for creating any new entry of faculty and student details. User has a right of making daily attendance, generating reports. Attendance report can be taken by given details of student details, date, and class.

8.3 Module Description:-

The system should be designed in such a way that only authorized people should be allow to access some particular modules. The records should be modified by only administrators and no one else. The user should always be in control of the application and not the vice versa.

The user interface should be consistent so that the user can handle the application with ease and speed. The application should be visually, conceptually clear.

8.3.1 Administrator module

Student Details

In this module deals with the allocation of roll no and personal details for new batch. It will generate of the personal details and academic details of the students.

Teacher Details

It helps to allot the subject and the subject code to the particular staffs.

It provides the facility to have a user name and password to the staffs.

Report Details

Report can be taken by daily, weekly and consolidate.

Weekly report get all hour details of attendance starting date to ending date and display the status consolidate report get all student attendance details starting date to ending date status help for the eligibility criteria of the student to attend the examination.

8.3.2 Teacher module

Attendance Details

It assists the staff to mark attendance to the students for their subject. This will authenticate the staff before making the entry.

Report Details

Weekly report get details of attendance form starting date to ending date and display the status. Consolidate report get all student attendance details form starting date to ending date status help for the eligibility criteria of the student to attend the examination.

8.3.3 Student module

Generate report: get details of attendance form starting date to ending date and display the status.

9: System Testing

9.1 Introduction:-

Once source code has been generated software must be tested to uncover (and correct) as many errors as possible before delivery to customer. Our goal is to design a series of test cases that have a high likelihood of finding errors. To uncover the errors software techniques are use. This technique provide systematic guidance for designing test that Exercise the internal logic of software components, and Exercise the input and output domains of the program to uncover errors In program function, behavior and performance.

Internal program logic is exercised using –White box test case design Techniques.

Software requirements are exercised using- block box test case design Techniques.

End the maximum number of errors with the Minimum amount of effort and time.

9.2 Testing Methodologies:-

A strategy for software testing must accommodate low-level tests that are necessary to verify that a small source code segment has been correctly implemented as well as high-level tests that validate major system functions against customer requirements. A strategy must provide guidance for the practitioner and a set of milestones for the manager. Because the steps of the test strategy occur at a time when deadline pressure begins to rise, progress must be measurable and problems must surface as early as possible. Following testing techniques are well known and the same strategy is adopted during this project testing.

9.2.1 Unit testing

Unit testing focuses verification effort on the smallest unit of software design- the software component or module. The unit test is white-box oriented. The unit testing implemented in every module of student attendance management System. by giving correct manual input to the system , the data are stored in database and retrieved. If you want required module to access input or gets the output from the End user. Any error will accrued the time will provide handler to show what type of error with accrued.

9.2.2 System testing

System testing is actually a series of different tests whose primary purpose is to fully exercise the computer-based system. Below we have described the two types of testing which have been taken for this project. It is to check all modules worked on input basis, if you want change any values or inputs will change all information, so specified input is must.

9.2.3 Performance Testing

Performance testing is designed to test the run- time performance of software within the context of an integrated system. Performance testing accrued throughout all steps in the testing process. Even at the unit level, the performance of an individual module may be assessed as white-box tests conducted. This project reduce attendance table, codes, it will generate report fast, no have extra time or waiting of results, entered correct data will show result few millisecond, Just used only low memory of our system. Automatically do not getting access at another software. Get user permission and access to other applications.

10: System Maintenance

Software maintenance is far more than finding mistakes. Provision must be made for environment changes which may affect either the computer, or other parts of the computer based system. Such activity is normally called maintenance.

It includes both the Improvement of the system functions and the corrections of faults which arise during the operation of a new system.

It may involve the continuing involvement of a large proportion of computer department resources. The main task may be to adapt existing system in a changing environment.

Back up for the entire database files are taken and stored in storage devices like flash drives, pen drives and disks so that it is possible to restore the system at the earliest. If there is a breakdown or collapse, then the system gives provision to restore database files.

Storing data in a separate secondary device leads to an effective and efficient maintenance of the system. The nominated person has sufficient knowledge of the organization's computer passed proposed change.

11: Snapshots

Login Page:-



A screenshot of a login page with a purple background. The word "LOGIN" is displayed in large, white, bold, sans-serif capital letters at the top center. Below it, there are three rounded rectangular input fields with green borders. The first field contains the placeholder text "enter username", the second contains "enter password", and the third contains the text "Login" in white. The entire page is framed by a thin blue border.

Attendance Table :-



A screenshot of a web form titled "Welcome to Online Attendance Management" in bold black text, with a subtitle "Enter your details to confirm your Online Attendance Management" in smaller italicized black text below it. The form consists of ten horizontal input fields with red borders, each containing a placeholder text: "Enter your Name", "Enter your Fathername", "Enter your Class", "Enter your Enrollment_no", "Enter your Attendance", "Enter your Mobile_no", "Enter your Email", "Enter your Gender", "Enter your Branch", and "mm/dd/yyyy". The last field has a small calendar icon on its right. Below the input fields, there are two buttons: a red "Submit" button and a yellow "LOGINS" button. The entire form is set against a light blue background.

Display Table:-

connection successfully tabale has recorded

NAME	FATHERNAME	CLASS	ENROLLMENT_NO	ATTENDANCE	MOBILE_NO	EMAIL	GENDER	BRANCH	DATE	TIME
Manisha Mahra		6th					Female	cs	2022-02-23	10:30:36.000000
khushi		11th					female	cs	2022-05-19	23:18:00.000000
madan		6th Semest					male	cs	2022-05-19	23:22:00.000000
Manisha Mahra		6th					Female	cs	2022-02-23	10:30:36.000000
Manisha Mahra		6th					Female	cs	2022-02-23	10:30:36.000000
madan		6th Semest					male	cs	2022-05-19	23:22:00.000000
Manisha Mahra		6th Semest					female	cs	2022-05-19	23:27:00.000000
Manisha Mahra		6th Semest					female	cs	2022-05-19	23:27:00.000000
Manisha Mahra		6th Semest					female	cs	2022-05-19	23:27:00.000000
Manisha Mahra		6th Semest					female	cs	2022-05-19	23:27:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
fhdfjg		5					grsr	vfb	2022-05-20	10:36:00.000000
fhdfjg		5					grsr	vfb	2022-05-20	10:36:00.000000
									0000-00-00	00:00:00.000000
sona		6th Semest					female	et	2022-05-20	10:39:00.000000
									0000-00-00	00:00:00.000000
khushi		6th Semest					female	cs	2022-05-21	01:50:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
mannu		3rd					male	cs	2022-05-21	11:54:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
lalli		4th					female	cs	2022-05-23	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
mmmmmmmm		5					female	cs	2022-05-23	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000
									0000-00-00	00:00:00.000000

BACK

Code

❖ [Code for Home of Online Attendance: index.php](#)

```
<?php
include("connection.php");
error_reporting(0);
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Welcome to Online Attendance</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="container">
        <h2>Welcome to Online Attendance Management</h2>
        <p> Enter your details to confirm your Online Attendance
Management</p>
        <form action="index.php" method="GET">
            <input type="text" name="Name" id="Name"
placeholder="Enter your Name">
            <input type="text" name="Father_name" id="Father_name"
placeholder="Enter your Fathername" required>
            <input type="text" name="Class" id="Class"
placeholder="Enter your Class" required>
            <input type="text" name="Enrollment_no"
id="Enrollment_no" placeholder="Enter your Enrollment_no" required>
            <input type="text" name="Attendance" id="Attendance"
placeholder="Enter your Attendance" required>
            <input type="text" name="Mobile No" id="Mobile_no"
placeholder="Enter your Mobile_no" required>
            <input type="text" name="Email" id="Email"
placeholder="Enter your Email" required>
            <input type="text" name="Gender" id="Gender"
placeholder="Enter your Gender" required>
            <input type="text" name="Branch" id="Branch"
placeholder="Enter your Branch" required>
```

```

        <input type="Date" name="Date" id="value" required>
        <input type="Time" name="value" id="value"
placeholder="Enter your Time" required>
        <button class="btn">Submit</button>
        <a href="login.php">
            <table border="5" bgcolor="yellow">
                <tr>
                    <td><b>LOGIN</b></td>
                </tr>
            </table>
        </a>

    </form>
</div>
</body>
</html>

<?php
    $Name = $_GET['Name'];
    $Fathename = $_GET['Fathename'];
    $Class = $_GET['Class'];
    $Enrollment_no = $_GET['Enrollment_no'];
    $Attendance = $_GET['Attendance'];
    $Mobile_no = $_GET['Mobile_no'];
    $Email = $_GET['Email'];
    $Gender = $_GET['Gender'];
    $Branch = $_GET['Branch'];
    $Date = $_GET['Date'];
    $Time = $_GET['Time'];
    $query = "INSERT INTO ragistration VALUES
('$Name','$Fathename','$Class','$Enrollment_no','$Attendance','$Mobil
e_no','$Email','$Gender','$Branch','$Date','$Time')";
    $data = "mysqli_query" ($conn,$query);
    if($data)
    {
        echo"data inserted into database";
    }
    else
    {
        echo"filed to data inserted";
    }
?>

```

FRONT END

❖ [Code for Home of Online Attendance: login.php](#)

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width,
initial-scale=1.0">

    <title>Animated Login form</title>

<link rel="stylesheet" href="style2.css">

</head>

<body>

    <form class="box" action="loginconn.php"
method="post">

        <h1>Login</h1>

        <input type="text" name="username" placeholder="
enter username" required>

        <input type="password" name="password"
placeholder="enter password" required>

        <input type="submit" name="submit" value="Login">

    </form>

</body>
```

```
</html>
```

BACK END

❖ [Code for Home of Online Attendance: loginconn.php](#)

```
<?php
    include("connection.php");

    if(isset($_POST['submit']))
    {
        $user = $_POST['username'];
        $pass = $_POST['password'];
        $sql = "select * from registration where EMail='$user' and
Enrollment no.='$pass'";
        $query = mysqli_query($conn,$sql);
        if(mysqli_num_rows($que)>0)
        {
            echo "<script>alert('login succesfully')</script>";
            echo "<script>window.open('madan1.php','_self')</script>";
        }
        else
        {
            echo "<script>alert('wrong username and
password')</script>";
        }
    }

?>
```

DISPLAY TABLE

❖ [Code for Home of Online Attendance: Display table.php](#)

```
<html>

  <head>

    <title>Display table</title>

  </head>

  <body>

    <center>

      <table border="3" bgcolor="orange">

        <tr>

          <th>NAME</th>

          <th>FATHERNAME</th>

          <th>CLASS</th>

          <th>ENROLLMENT_NO</th>

          <th>ATTENDANCE</th>

          <th>MOBILE_NO</th>

          <th>EMAIL</th>

          <th>GENDER</th>

          <th>BRANCH</th>

          <th>DATE</th>

          <th>TIME</th>
```

```
</tr>
```

```
<?php
```

```
    include("connection.php");
```

```
    error_reporting(0);
```

```
    $query = "select * from registration";
```

```
    $data = mysqli_query($conn,$query);
```

```
    $total = mysqli_num_rows($data);
```

```
        //echo $result['Name']." ".$result['Father_name']."
```

```
        ".$result['Class']." ".$result['Enrollment_no']."
```

```
        ".$result['Attendance']." ".$result['Mobile_no']."
```

```
        ".$result['EMail']." ".$result['Gender']."
```

```
        ".$result['Branch']." ".$result['Date']." ".$result['Time'];
```

```
    if( $total!=0 )
```

```
    {
```

```
        $result = mysqli_fetch_assoc($data);
```

```
        while($result = mysqli_fetch_assoc($data))
```

```
        {
```

```
            echo "
```

```
            <tr>
```

```
                <td>".$result['Name'].</td>
```

```

        <td>".$result['Father_name']. "</td>

        <td>".$result['Class']. "</td>

        <td>".$result['Enrollment_no']. "</td>

        <td>".$result['Attendance']. "</td>

        <td>".$result['Mobile_no']. "</td>

        <td>".$result['Email ']. "</td>

        <td>".$result['Gender']. "</td>

        <td>".$result['Branch']. "</td>

        <td>".$result['Date']. "</td>

        <td>".$result['Time']. "</td>

    </tr>

    ";

}

echo "tabale has recorded";

}

else

{

    echo "not recorded present table";

}

?>

</table>

```

```
        </center>

<a href="http://localhost/online_attendance/login.php">

    <center> <table border="5" bgcolor="pink">

        <tr>

            <td><b>BACK</b></td>

        </tr>

    </table>

    </center>

</a>

</body>

</html>
```

12: Conclusion

12.1 Conclusion:-

The Attendance Management System is developed using visual basic PHP fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification.

12.2 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 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.

13: References:-

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