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WEB BASED ATTENDANCE MANAGEMENT SYSTEM

A Thesis

Submitted by

Sahar Hassan

Roll No: 08

In partial fulfillment for the award of the degree

of

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)



INSTITUTE OF COMPUTING AND INFORMATION TECHNOLOGY GOMALUNIVERSITY
DERA ISMAIL KHAN, KHYBER PAKHTUNKHWA, PAKISTAN DECEMBER, 2015



Approval Certificate

This is to certify that Miss. Sahar Hassan has successfully completed her final project at Institute of Computing and Information Technology, Gomal University, D.I.Khan. Project report submitted by her is hereby approved in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science (BSCS).

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ABSTRACT

Over the years the manual attendance management has been carried across most of educational institutions. To overcome the problems of manual attendance, I have developed "web based attendance Management System".

Attendance Management System is based on web server, which can be implemented on any computer. In This application, PHP is server side language, MySQL and PHP is used as back-end design and HTML, CSS and JavaScript are used as front-end tools.

The system communicates with database residing on a remote server. It calculates automatically, the attendance percentage of students without any manual paper-based work. The system facilitates the end users with interactive design and automated processing of attendance management.

ACKNOWLEDGEMENTS

In the name of Allah, Most Gracious, Most Merciful

All praises and glory to Almighty Allah who gave me courage and patience to carry out this work. Firstly, I would like to express my sincere gratitude and unrestrained appreciation to my project Supervisor, Dr. Zubair Asghar, for his continuous support, patience, motivation and immense knowledge, and providing me with an excellent atmosphere for doing my project work. I have learned many things since I become Dr. Zubair's student. I could not have imagined having a better advisor and mentor for my project and bachelor study.

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I am also grateful to my Government which gave me scholarship and opportunity to study in foreign country, Allah may bless you and it is my wish to return back to my country and service my people Insha'Allah

I would also like to show my gratitude to the class fellow and country fellow for their kind cooperation and encouragement which help me in completion of my objectives. By your presence in University I was getting more confidence and we were as a kind and corporative family here, Best of wishes for all of you in every field of life.

Last but not least, my deepest gratitude goes to my kind family and beloved parents for their endless love, prayers, encouragement and unconditional support to pursue my interests, even when the interests went beyond boundaries of language, field and geography.

SAHAR HASSAN

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CHAPTER NO.1

INTRODUCTION

1.1 Problem and Motivation

In most educational institutions the attendance is taken manually. It is not only time consuming, but it is also unsecure and unreliable and it can be lost. Some institutions are using punch card for attendance while this will be difficult for teachers to keep track of the large number of students because by using punch card, a student can help the other students or his/her friend to punch their card even the other student may be absent or come late in class, so it is not reliable.

To overcome these problems I have developed a better system which is Web based; it is fully responsive where a user can use in mobile, tablets and different computer systems. In this system records are kept safe and secure and the attendance information of particular or all students of particular class can be accessed easily and without time consuming, the report is generated automatically.

1.2 Related works and background

In early years punch card was used for data storage, it is also known as Hollerith cards, through these cards companies were able to store and access via entering the card into the computer system [1].

Now a day also it is used as one of the most popular attendance system. Employees are using this card for in and out, they only need to wave the punch card near a reader then it will ensure the presence of employee [2].

Many desktop applications for attendance has been developed there are some examples:

- 1. Desktop application for attendance developed to take daily attendance of students. Then information of a particular class is stored by the operators that will be provided by the teacher. Saurabh Kumar Jain, Uma Joshi, and Bhumpesh Kumar Sharma developed the software. The technology which they used for their application is Language:-VB.NET and Backend:-MS-Access [3].
- **2** Jainetal has developed a desktop application in which when the lecturer start the application then all registered lists of students of particular course will be displayed.

The attendance is done by clicking of checkbox next to student's name that are present, and then for marking their presence a register button is clicked [4].

3. Desktop application developed by Muhammad, Ahmad Shakur Idris, Abu-Bakr Sadiq alhassah, Muhammad Ibrahim Hakimi and Muhammad Zakaria Abatch the language which is used is Visual Basic.Net [5].

There are many studies [6, 7, 8, 9, 10, 11, 12] in the subject of opinion mining and sentiment analysis related to the attendance system.

1.3 Purpose and objectives

1.3.1 Purpose

The main characteristics of my developed system is that it is web based, fully responsive and flexible. It can be accessed from any computer no matter where you are.

Its purpose is to make a web based attendance software for ICIT department to register the student details; their subjects, teachers, and related field. The daily attendance of students are taken automatically by selecting student name and program, If the student was present then the present check box is clicked similarly if the student was absent then the absent check Box is clicked instead of the present check box, and by clicking the save button information will be stored in database. The attendance report will be generated automatically without time consuming which is reliable and there will be not any mistakes.

1.3.2 Objectives

- Eliminate duplicate data entry and errors in time and attendance entries.
- Eliminate paperwork and save time.
- ➤ Automatic calculation of attendance
- > To Increase security.

1.4 Materials

1.4.1 Hardware

• A dell laptop

1.4.2 Software

- WAMPSERVER
- Windows 8.1

• 32 bit operating system

1.5 Thesis Breakup

The remaining chapters of the thesis are organized as follows:

Chapter Two (4, 12) Tools and Technologies, it provides information about the tools and technologies which have been used in this project work.

Chapter Three (13, 14) Existing system, give a brief description about some related works.

Chapter Four (15, 22) Proposed system (Front- End), which I have developed.

Chapter Five (23, 25) Proposed system (Back- End), database and tables are created and data is stored.

Chapter Six (26, 27) Result and Reports, the outputs produced by the proposed system.

Chapter Seven (28, 29) Conclusion and future work, here is a brief description of project work and also mentioning the future goal.

CHAPTER NO.2

TOOLS& TECHNOLOGIES

2.1 WAMP Server

WAMP is installed as a software bundle and stands for "Windows, Apache, MySQL, and PHP."WAMP is often used for web, development and internal testing, it also can be used for serving live websites [13].

Wamp Server is available freely in two versions that is 32 and 64 bits. Keep in mind that Wamp server 2.5 is not compatible with Windows XP, SP3, and Windows Server 2003. Its older versions are available on Source Forge.

Now, visually, a brief description of downloading and installation of WAMP server, from sources where I have used is shown below step by step.

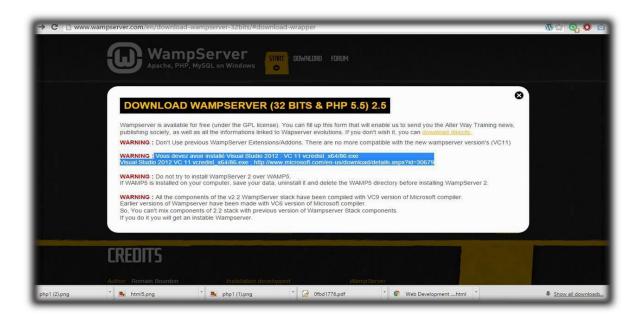
i. Go to http://www.wampserver.com/, website



ii. Click the download label



- iii. Select WAMP SERVER (32 BITS & PHP 5.5) 2.5 OR WAMP SERVER (64 BITS & PHP 5.5) 2.5 according to requirement
 - In my case WAMP SERVER (32 BITS & PHP 5.5) 2.5
- iv. Installation of Visual Studio 2012 VC 11 is compulsory here
 - For this purpose go to http://www.microsoft.com
- Or simply click on http://www.microsoft.com/enus/download/details.aspx, it is also shown in figure.



v. Click on **Download Button** for downloading of **Visual Studio 2012 VC 11**



2.1.1 Windows Server

It is a brand name for a group of server operating systems which is released by Microsoft.

The first Windows server edition to be released with that brand was Windows Server 2003.

However, the first server edition of Windows was Windows NT 3.1 advanced server that followed by three Servers (Windows NT 3.5 Server, Windows NT 4.0 Server, and Windows 2000 Server); the latter was the first server edition to feature many things like Active Directory, DNS Server, DHCP Server, Group Policy, and many other popular features used today. Written in C, C++ and assembly [14].

2.1.2 Apache

The Apache HTTP Server, informally called Apache, is the world's most popular web server software that in 2009 it became the first web server software to serve more than 100 million websites. The Apache development began in early 1995 and originally based on the NCSA HTTPd server. Apache is developed and maintained by an open community of developers under the patronage of the Apache Software Foundation. Mostly used on a Unix-like system, the software is also available for a vast variety of operating systems, including Microsoft Windows, Open VMS, eComStation, NetWare and TPF.

Apache is open source software, as on November 2015, it was estimated to serve 50% of all active websites and 37% of the top servers across all domains. The released version of Apache is shown below [15].

Version	Initial release	Latest release
1.3	1998-06-06	2010-02-03 (1.3.42)
2.0	2002-04-06	2013-07-10 (2.0.65)
2.2	2005-12-01	2015-07-17 (2.2.31)
2.4	2012-02-21	2015-10-13 (2.4.17)

2.1.3 MySQL

SQL stands for Structured Query Language. MySQL is an open source Relational Database Management System (RDBMS); it is a popular database for use in web applications, and is a central part of the greatly used LAMP (Linux, Apache, MySQL, Perl/PHP/Python) open-source web application software stack.

MySQL is used by many applications like, WordPress, Joomla, TYPO3, Drupal, MyBB, phpBB, MODX and other software. Numerous large scale websites including Google, YouTube, Facebook, Twitter, and Flickr are also using MySQL.

On all platforms excluding Windows, MySQL sends with no GUI (Graphical User Interface) to administer MySQL databases or managing the data held within the databases. Users may install MySQL Workbench by downloading separately or simply may use the command line tools. Numbers of third party GUI tools are also available.

Swedish company has created MySQL which is written in C and C++. The first version of MySQL revealed on 23 may 1995. It has various versions. The general accessibility of MySQL 5.7 was broadcast in Oct 2015, and the version which is used in my project is 5.6.17 [16].

2.1.4 PHP

It stands for PHP: Hypertext Preprocessor but, originally stood for Personal Home Page. Is a server side scripting language that designed for web development, as well as used for general purpose language. It was created in 1994 by Rasmus Lerdorf, in the present time the reference execution of PHP is produced by the PHP group.

In January 2013, PHP was installed on more than 240 million websites, and 2.1 million web servers. The PHP code can be combined with several web frameworks and templating engines or simply it can be mixed with HTML code.

The PHP code is generally processed by a PHP interpreter, which is commonly executed as native module of web server or a Common Gateway Interface (CGI) executable. After interpretation and execution of the PHP code, the results will be sent by web server to its client.

Zend Engine has powered the standard PHP interpreter, which is free software liberated under the PHP license.

There are many versions of the PHP, and the version, I have used for my application is the PHP version 5.5 [17].

Currently supported versions of the PHP are following,

Branch	Initial Release		Active Support Until		Security Support Until	
5.5	20 Jun 2013	2 years, 4 months ago	10 Jul 2015	4 months ago	10 Jul 2016	in 7 months
5.6	28 Aug 2014	1 year, 2 months ago	28 Aug 2016	in 9 months	28 Aug 2017	in 1 year, 9 months

[18]

2.1.5 PhpMyAdmin

It is an open source tool and also, it is free written in PHP, XHTML, CSS, and JavaScript planned to manage the administration of MySQL by using of a web. It is able to perform various missions like creating, modifying databases, tables, fields, executing SQL statements or managing and supervise users.

PhpMyAdmin is being translated into 72 languages in order to make the usage easy to a wide domain of people and it supports both LTR and RTL languages.

Following is some features of the phpMyAdmin,

- > It is web interface
- ➤ It administrates multiple severs
- ➤ It is able to create PDF graphics of the database layout
- ➤ Importing data from SQL and CSV
- Export data to different formats such as SQL, PDF, CSV, XML and others
- ➤ It works with various Operating Systems
- And others [19].

2.2 The Sublime Text 3editor

Sublime Text is a cross platform source code editor written in C++ and python. It originally supports plenty of programming and markup languages, and its functionality can be increased via users with plugins.

Sublim Text 3 has two main features that are symbol pane management and symbole indexing. Through pane management users are to move between panes by hotkeys and symbole indexing

enable SublimText to scan files and build an index to make easy the features Goto Symbole and Goto Definition in project.

It is downloaded from www.sublimetext.com/3, site.

A list of some features of Sublime Text is as following,

- ➤ It is python based plug-in API
- ➤ It is cross platform (Linux, Linux, OS X)
- ➤ Compatible with numerous language framers form Text Mate
- Project specific preferences
- \triangleright And others [20].

2.4 HTML AND CSS

HTML stands for Hypertext Markup Language and CSS stands for Cascading Style Sheets are the crucial technologies for creating web pages. HTML supplies the structure of the page, and CSS the layout, for diversity of devices. Together with scripting and graphics, HTML and CSS are the fundamental of building Web Applications and Web pages.

HTML provides designers and developers the following facilities,

- To design forms for directing transactions with remote services, for use in making reservation, searching for information, ordering products, and others
- Retrieving online information through hypertext links.
- > To include video and sound clips, spread sheets, and other applications straight in their documents
- Designer can publish online documents with text, headings, tables, photos and others.

CSS describes the Web pages presentation, involving layout, colors, and fonts. It enables the designer to adjust the presentation to various types of devices, like a small screens, large screens, or printers.

CSS is separate from HTML, and their separation makes it easy to preserve and maintain sites, share style sheets across pages, and accommodate pages to various environments [21].

2.5 Frameworks

2.5.1 Bootstrap

Bootstrap is front-end framework and collection of tools and mechanisms for building web applications. It consists of HTML and CSS based design templates for navigations, forms, buttons, typography, and other interface elements, and also JavaScript extensions.

Bootstrap is free and open source, and its purpose is to make easy the development of dynamic websites and web applications. It is the most starred project on GitHub, with more than 85,000 stars and 34,000 forks.

Bootstrap was developed by Mark Otto and Jacob Thomton and named Twitter Bluprint. Before Bootstrap framework, designers were using different libraries for interface development, which had many inconsistencies and their maintenance were difficult.

On 31 Jan, 2012, Bootstrap 2 was released. This framework has brought many changes to the existing components and, also, added 12 column grid layout and responsive design constituents. On August, 19, 2013, Bootstrap 3 was announced, which moved to first approach of mobile and using a flat design. The first alpha version of Bootstrap was spread out on 19, Aug, 2015 [22].

2.5.2 JavaScript Framework(jQuery)

JQuery is JavaScript library intended to make simple the client-side scripting of HTML. It is the most popular JavaScript framework, which is free and open-source software licensed under the MIT License [23].

Several of the largest companies, including,

- Google
- IBM
- Microsoft and
- Netflix are using the ¡Query [24].

2.5.3 Semantic UI

It is a development framework which is very helpful in building responsive and beautiful layouts utilizing human friendly HTML. In this framework the words and classes are treated as interchangeable concepts.

In Semantic UI framework, the Classes use syntax from natural language like plurality, the word order, and noun or modifier relationships to connect and join concepts naturally and instinctively [25].

2.6 Web Template

A website template (web template) is a pre designed webpage which any developer can use to plug-in their own text and text and script component and images into that to create a website. Website Templates are generally built with HTML and CSS code. By using web templates everyone is allowed to setup a website without hiring a professional web designer or developer. This brings the facility for anyone to create a logically priced business or a personal web that may be listed in search engines thus users can seek for your particular service [26].

CHAPTER NO.3

EXISTINGSYSTEMS

3.1 Attendance Management System

This software has developed for daily attendance of students. It made easy to access the

attendance information of a particular student. The information is stored through operators, and

provided by teacher for related class. This software is helpful in evaluating the attendance

eligibility of a student.

Its purpose was to computerize the tradition way of taking attendance and generating of report

automatically at the end or between of the session. This project has developed as a desktop

application for a specific institute. The technologies which have been used are, VB.NET language

and for backend MS-Access [27].

The other existing systems are,

3.2 Student attendance Management

This system has same task and quality as upper software but here technology that used is,

Language: ASP.NET

Backend: SQL [28].

3.3 Administration and Student Affairs System

It is a two-tier system which consists of a dedicated database, and a specially constructed Java

Client Application. The upside of this solution is that the processing is no more centralized. On

the contrary, the client application consumes the resources of the user running it locally. The only

thing that is centralized is the database.

Manipulate the database through Java Client Application by using JDBC API offered by the

Oracle for connecting and retrieving data from data sources.

The resource consumption was minimized by utilizing parallel processing through the Threading

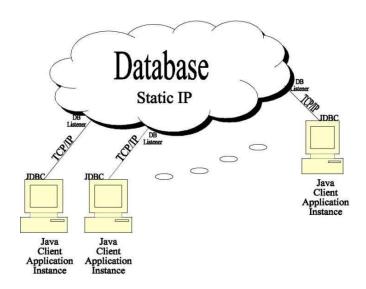
API of the Java platform, also, the event driven nature of the desktop application made

minimizing the resource consumption easier, since only the process that the user initiates will be

using the resources [29].

13

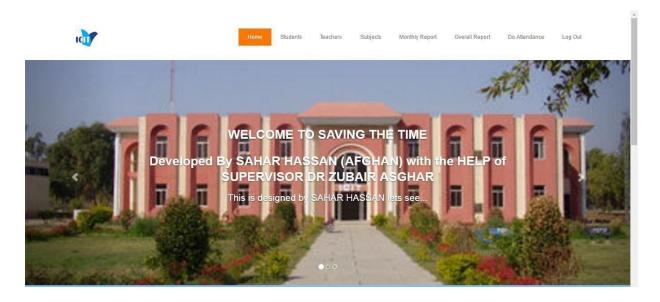
3.3.1Graphical Representation of Project



CHAPTER NO.4

PROPOSED SYSTEM (FRONT- END DESIGN)

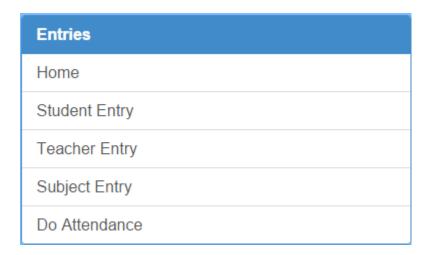
4.1 Introduction



This is the Home screen of the proposed system which consists of seven buttons. In order to go to the desired screen; the users just have to click the related button.

By clicking the Home, Students, Teachers, Subjects, Monthly Report, Overall Report, Do Attendance, and the Log Out buttons, their respective screens will appear.

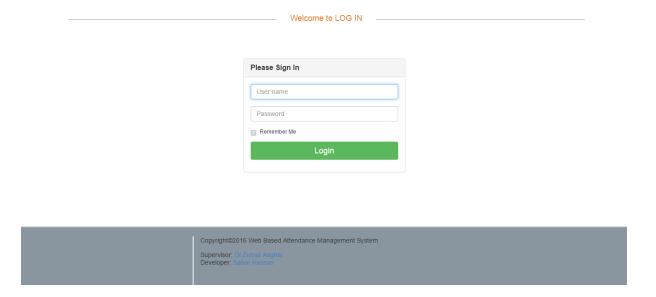
In home screen there is also a sidebar where users may do new entries or take attendance by clicking the Do Attendance button. The sidebar is shown below,



4.2 Log in

Before entering into the system (home page), the user must login, for this purpose the log in page is created.

This log in form is made for security purpose i.e. only authenticated users have access into the system, i.e. either administrator or the user.



Followings are the description of respective screen of each button,

4.3 Log out

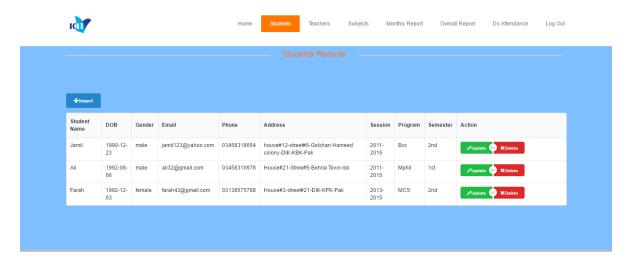
By clicking the Log Out button the user is redirected into the Login page, which has described.



4.4 Students

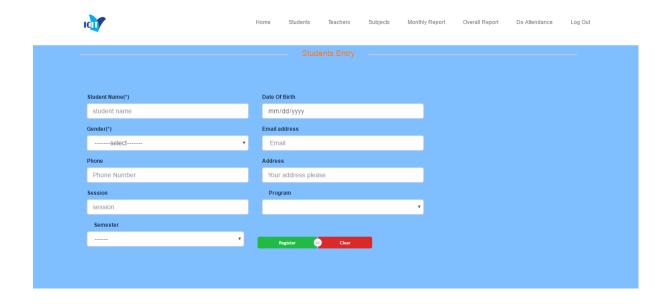
This is the student screen which provides information about student's data such as Student Name, DOB, Gender, Email, Phone, Address, Session, Program, and Semester in the form of rows and columns.

The Insert button enables the user to enter new entries similarly Update button enables the user to edit / modify, whereas, Delete button is used for deleting the record.



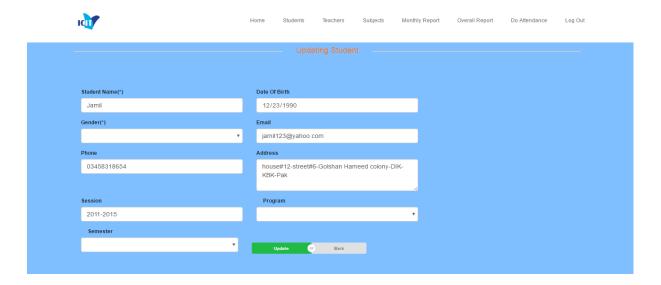
4.4.1 New Registration

New registration can be done through filling the following form.



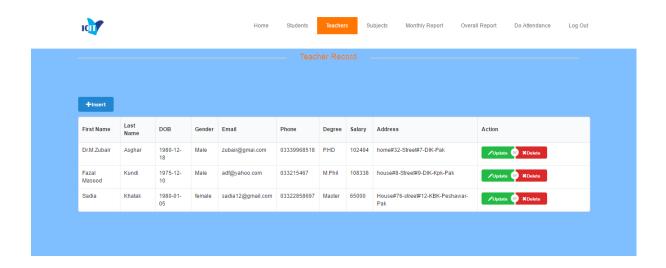
4.4.2 Updation

Student data is updated from the form shown below.



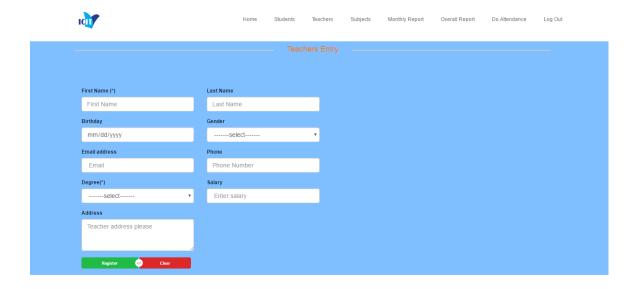
4.5 Teacher

This is the screen which provides records of teachers, such as first name, last name, DOB, Gender, email, Phone, Degree, Salary, and Address. There is also an insert button through which we can insert new entries for teachers.



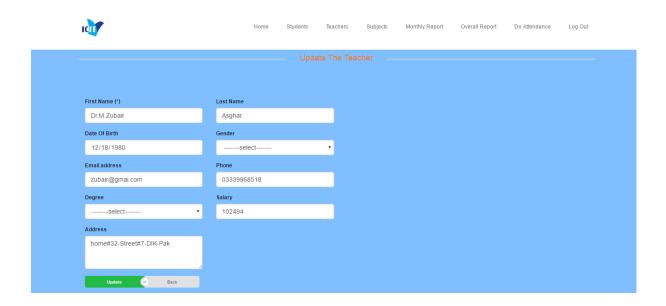
4.5.1 New Registration

New registration of the teacher can be done through filling the following form.



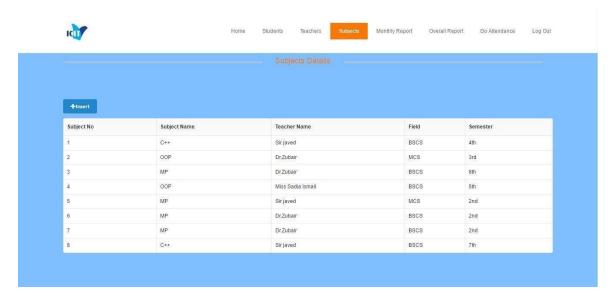
4.5.2 Updation

Data is updated from the form shown below.



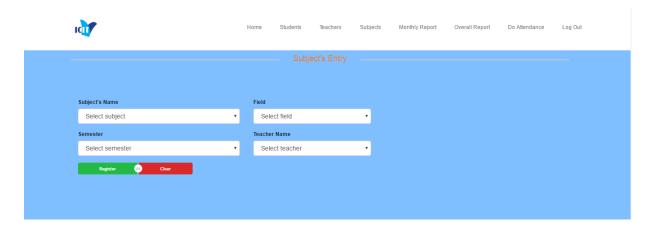
4.6 Subject

This screen provides information related to subjects such as subject no, subject name, teacher name, program and the semester. By clicking the insert button we can easily insert a new entry of the subject.



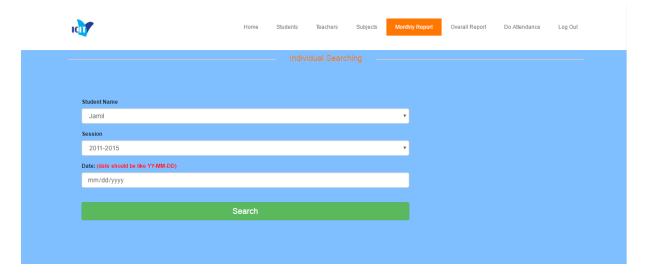
4.6.1 Subject entry

This form is used for entering the information related to particular subject.



4.7 Monthly report

From this screen we can search the individual report of a student first by inserting the desire date into the text box and then by just clicking the search button we get the monthly report.



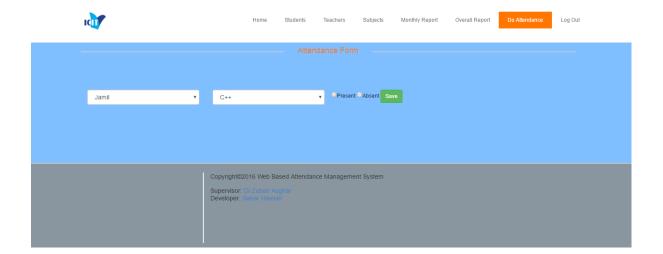
4.8 Overall report

From this screen we can get the report of all students by just clicking the overall button.



4.9 Do Attendance

This is the screen for Attendance purpose, the name and the program is automatically retrieved from the database. If the student was present then the present check box is clicked similarly if the student was absent then the absent check box is clicked instead of present check box, by clicking the save button information will be stored.

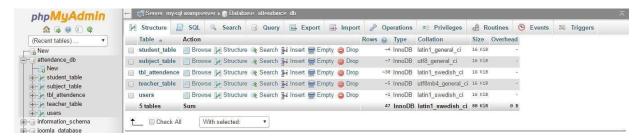


CHAPTERNO.5 PROPOSED SYSTEM (BACK- END DESIGN)

5.1 Introduction

To achieve the flow of data and data processing task, I have created a database named Attendance_db and inside this database five entities have been created, mentioned below, Attendance Database is:

Attendance Database



1. Student Entity



2. Subject entity



3. Teacher entity



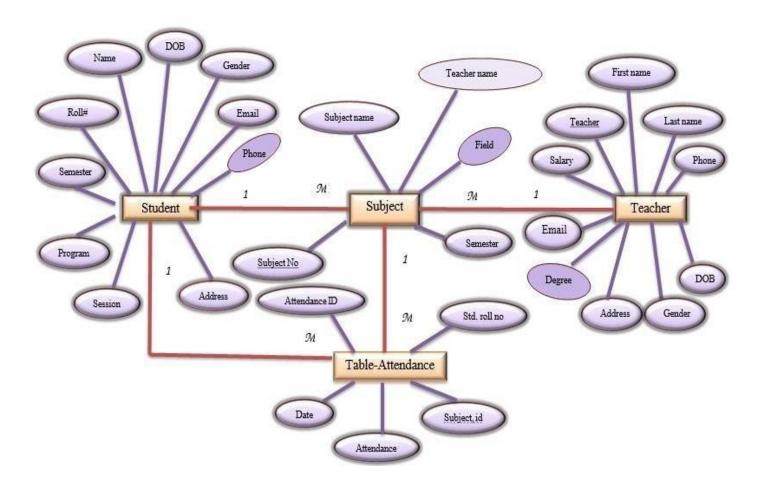
4. Attendance entity



5. Users entity



5.2 ER DIAGRAM



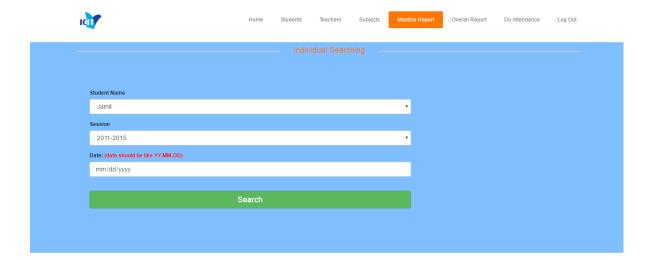
CHAPTERNO.6 RESULTS AND REPORTS

6.1 Introduction

In this chapter, I have presented the results or reports that the system is generating. There are two reports, one is the monthly report of the selected student and the other one is the overall report that provides the attendance information of all students.

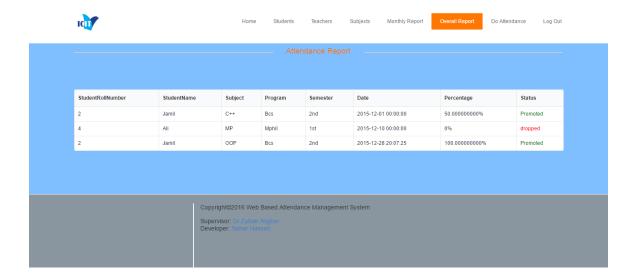
6.1.1 Monthly Report

It generates the monthly attendance percentage of selected student.



6.1.2 Overall Report

It generates the attendance percentage and status of all of students i.e either the student is Promoted or dropped.



CHAPTERNO.7 CONCLUSION AND FUTUER WORK

7.1 Conclusion

In this work, the web based attendance management system is developed using PHP server-side scripting language and CSS,HTML ,JavaScript for designing which is fully meet the system's goals.

This system overcome many limitations incorporated in attendance, this system saves a great amount of time and reduces errors which may occur during attendance calculation.

The system I have developed is fully responsive which can be used in mobile, tablets and different operating systems. Some other benefits are,

- ➤ Automated and web-based for easy accessibility
- ➤ It is a dynamic and flexible system
- ➤ It excludes paperwork and the possibility of making mistakes while using paper for taking attendance
- > It is very user friendly and handy
- The records of current and previous can be available in prompt and an immediate.

7.2 Future work

I will make some future improvement in my project by making this Biometric Attendance System in order to make more advanced and increase its reliability and effectiveness.

Biometrics is automated technique of identifying a person behavioral or physiological characteristic.

A fingerprint scanner has two basic tasks which are,

- i. It requires to get an image of a person finger.
- ii. It requires identifying and diagnosing that whether the pattern of ridges and valleys in current image matches the pattern of ridges and valleys of previous scanned images.

Unique characteristics of every fingerprint are filtered and saved as a mathematical representation. The image of fingerprint will not be saved, only sequence (series) of binary code, that is used for verification is saved the algorithm can't be transformed to an image, so no one can duplicate any one's fingerprints.

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