



Daffodil
International
University

A
PROJECT REPORT
ON
Attendance Management System

Submitted in partial fulfillment for
the Course of
Database Management System Laboratory

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TABLE OF CONTENTS

ABSTRACT

1. INTRODUCTION

1.1 PROJECT AIMS AND OBJECTIVES

1.2 BACKGROUND OF PROJECT

1.3 SCOPE OF THE PROJECT

2. SYSTEM ANALYSIS

2.1 SOFTWARE REQUIREMENT SPECIFICATION

2.2 EXISTING VS PROPOSED

2.3 SOFTWARE TOOL USED

3. SYSTEM DESIGN

3.1 TABLE DESIGN

3.2 E-R DIAGRAM OF THE SYSTEM

4. SYSTEM IMPLEMENTATION

4.1 MODULE DESCRIPTION

4.2 SCREEN SHOTS

5. SYSTEM TESTING

5.1 UNIT TESTING

5.2 INTEGRATION TESTING

6. CONCLUSION & FUTURE SCOPE

7. REFERENCES

CHAPTER 1

INTRODUCTION

Attendance Management System is software developed for daily evaluation of students in their continuous assessment record, and performance in accordance with

the principle of the institution. It is facilitated to access the performance and information of attendance of a particular Student in a particular semester of study.

The information is sorted by the teachers, instructors and advisors, as provided by

the student for a particular day throughout a complete semester. This system will

also enable the evaluation of student regular presence in various lectures which will

determine the eligibility of the student to sit for a semester examination.

Attendance Management System basically has three main modules for proper functioning :

- First module is admin which hold the key for editing and updating information. The admin has absolute right to all the users which are the Teachers and Student.
- Second module is handled by the user which can be a Teacher or Instructor. This user has a right of making daily attendance, updating, editing and generating reports to the students.
- Third is handled by a user which is the Student, he has less privilege to the access of the system; the student can only view his own record by providing his username and password. He will be able to see the percentage of his attendance as well as his results. If any comment or change of class schedule the student can see in his own profile only. This user can receive alert / message from his teachers related to his attendance performance. It is obvious that Students with poor attendance will see their attendance in a Red warning table that can make the student to be careful not to miss classes anymore.

1.1 PROJECT AIMS AND OBJECTIVES :

Create a Window application to be used in place of old paper based user Employee Salary manage process.

□ Use the technologies and Server technology used in here to create strong and secured database connectivity.

- ☐ **Incorporate the server software within the code.**
- ☐ **Runtime package and deployment instructions are given.**
- ☐ **Eliminate duplicate data entry and errors in time and attendance entries**
- ☐ **Eliminate paperwork and save time.**
- ☐ **Automatic calculation of attendance**
- ☐ **To Increase security.**

1.2 BACKGROUND OF THE PROJECT :

Concrete functionalities:- Our software contains lots of functionalities in it each having specific operations to perform.

- **Efficiency and accuracy** This software developed is very fast, flexible, efficient and is 100% accurate.
- **Frame work** Contains a very special Frame work which was discussed below in software's and technology used

1.3 SCOPE OF THE PROJECT :

Scope of Student attendance management system project This **project** is basically an online web application which means this software can be accessed online by all registered faculty member and admin. So it makes easier to task easier. All the **attendance** taken by the faculty is stored directly on central data server.

CHAPTER 2

SYSTEM ANALYSIS

CHALLENGE & WEAKNESSES OF CURRENT SYSTEM.

Current System :

In the present system all work is done on paper. The whole session attendance is stored in register and at the end of the semester the reports are generated and it takes more time in calculation. By the way we are not interested in generating report in the end of the semester but during the semester for the student to take note of his situation, and the department to know what action to take on students with poor attendance even before Exam. So, we are not able to get student regularity report and take necessary action on students whenever we want because of having very time consuming process.

Weaknesses in Current System:

1. Not User Friendly:

The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently.

Attendance Management System

2. Difficulty in report generating:

We require more calculations to generate the report so it is generated at the end of the semester. And the student doesn't get a single chance to improve their Attendance.

3. Manual control:

All calculations to generate report are done manually so there is greater chance of errors.

4. Lots of paperwork:

Existing system requires lot of paper work. Loss of even a single register/record led to difficult situation because all the papers are needed to generate the reports.

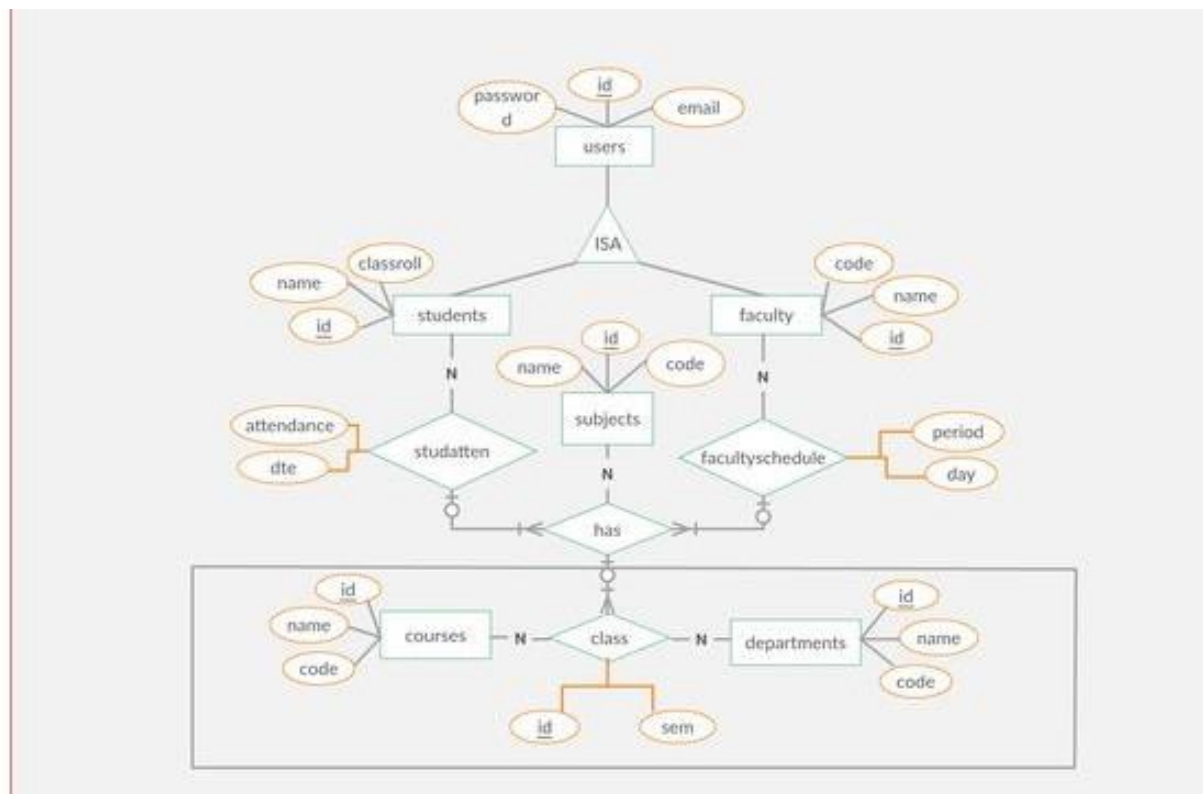
5. Time consuming:

Every work is done manually so we cannot generate report in the end of the semester or as per the requirement because it is very time consuming.

CHAPTER 3

SYSTEM DESIGN

The ER Diagram:



This is the student dashboard :

Online Attendance

Home

Click here for [Student Dashboard](#)

For Faculty

Login

Email ID

Email

Password

Password

Login

Sign Up

Name

Name

Phone Number

Phone

Email ID

Email

Password

Password

Password should be 6 characters long.

Re-type Password

Re-type Password

Sign Up

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Welcome Menu:

Online Attendance

Dashboard Profile Statistics Logout

Welcome , Mehedi.

You haven't taken any class yet!

+

Online Attendance

Dashboard Profile Statistics About Contact Logout

Welcome , Mehedi

Class : CLA-100 (2) 2021

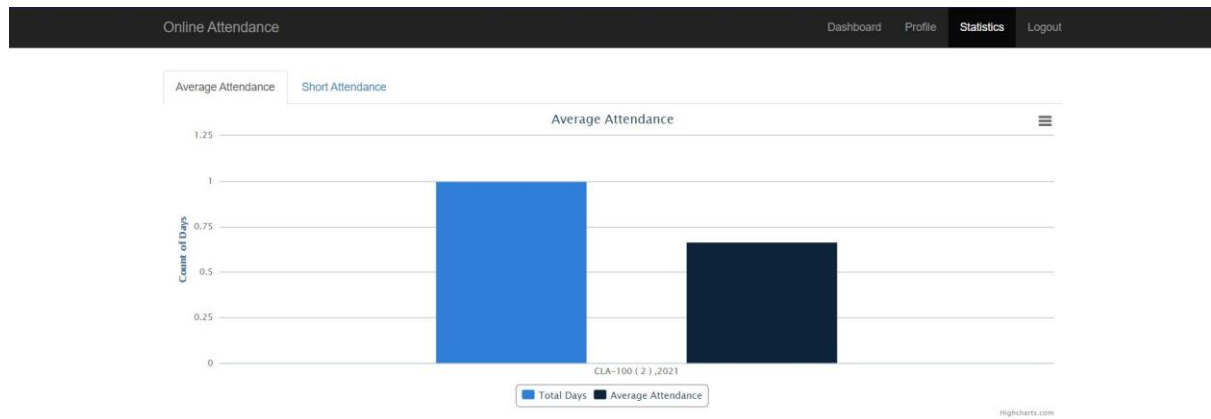
Number of Classes conducted : 0

Help me!

Send

201/CD/12: 1 <div>P</div> <div>x</div>	202/CD/12: 0 <div>A</div> <div>x</div>	203/CD/12: 0 <div>A</div> <div>x</div>	204/CD/12: 0 <div>A</div> <div>x</div>	205/CD/12: 1 <div>P</div> <div>x</div>	Click to mark this student as present or absent
207/CD/12: 1 <div>P</div> <div>x</div>	208/CD/12: 1 <div>P</div> <div>x</div>	209/CD/12: 1 <div>P</div> <div>x</div>	210/CD/12: 1 <div>P</div> <div>x</div>	211/CD/12: 0 <div>A</div> <div>x</div>	212/CD/12: 1 <div>P</div> <div>x</div>
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Online Attendance :



CHAPTER 4

SYSTEM IMPLEMENTATION

The tools and technologies used during the development and implementation of our project include:

Programming & Scripting Languages used:

- **HTML**

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,

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

photos and others.

CSS

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

MySQL database

Platform Used:
Window

CHAPTER 5

SYSTEM TESTING

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 used. These techniques 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. In both cases, the intent is to find 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.

CHAPTER 6

FUTURE SCOPE :

Complete project report on attendance management system .Further improvement can be undertaken on this project for enhancement . A Webcam can be integrated into the system to monitor the person who swaps the card thus avoiding the problem of a person scanning in for another person. The attendance system can be enhanced to biometric technology which is a full proof technique that captures a person unique or biological or physical features and prevents unauthorized activates.

Conclusion :

In this paper we have proposed an attendance management system where. By using the proposed system we are overcoming the problems of the manual entry. Here we are implementing a system where the attendance is taken and it automatically updates the attendance, marks details. We are also designing a system where in the attendance details have been sending in principal. This whole work is to access the details about the student attendance information and generate final reports. It also updates the students report directly on the 11. Server was reducing the faculty's time from logging the computer. In Future this system is very useful for all institutions and organization. Attendance management system is very useful for college to maintain the attendance records of the staff.

CHAPTER 7

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