**The student attendance and information management system**

**A Minor Project Synopsis Submitted to**

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**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

**Towards Partial Fulfillment for the Award of**

**Bachelor of Technology**

**(Information Technology)**

**Submitted By**

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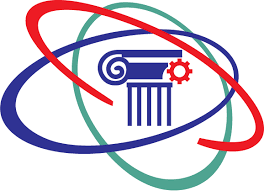
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# Abstract

Student attendance management system deal with the maintenance of the student’s attendance details. It generates the attendance of the student on basis of presence in class. It is maintaining daily basis of attendance the staff will be provided with the separate username and password to make student attendance.

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

Students Information management system deal with the bulk of student’s information to be handled. It can store and retrieve any data and information we will need about any number of students. These includes every detail of student like their basic information and their results.

# Introduction of the Project

There is an outgrowing need for electronic accessories in a world where there is great necessity speed efficiency and perfection of work. To achieve that we must eradicate the problem of manual work which can be done easily and efficiently by using advancement of technology. The student attendance and information management system will be performing the same task i.e., to eradicate the manual workload of teachers to manage attendance and information of the students which is tedious, but by the technology we have teachers can manage the same on their fingertips and that will save a lot of time for them to utilize it for teaching the students one or two extra topics. They can use this information management system to get any information of the students they need in a small amount of time which once took some elbow grease of the teachers. And the data is now confined to a very little space and only need electricity but in the traditional method it requires lots of papers and space to store that data, but it is solved by the technology.

# Objective

* The new system will bring about efficient and effective attendance and academic information system.
* The concise documentation of students and staff details will tremendously improve its timely decision support.
* The project would also go a long way in fostering good perception of the information age in our individual organization thereby breaking the ugly bone of continuous use of manual and archaic systems.
* It fosters on the in-depth, principles, rules and protocols of coding, scripting, and hosting of database driven web pages.
* It will also help in making the processing of information as well as in the sport feedback faster, enlighten our database developers and provide for them a springboard.
* It also stirs and gives focus to our institutions of higher learning on the facilities obtained in the use of modern system of communication

# Scope

Data not withstanding of its size cannot be too large to process. However, a guided approach is adopted to stay within limits for easy comprehension. To end this, the study will focus on the student together with its accompanying web interface, students’ registration details and academic results. In its most common form, the wide application of computers in accessing remote files make way for adoption of more superior ays of making information available to the millions of users. And it also exposes the researcher to the core about the difficulties of database programming for the web, an allround technology but because of the following constraints, the study maynot be completed. They include.

* Time constraints and finance
* The college does not have enough necessary software and extended network of computers.
* It lacked the projected operational hardware

# Study of Existing System

The existing system of attendance is manual the teachers had spent a great amount of time to complete the task. Its advantages are the teachers are not cheated with fake attendance. The disadvantage is it takes a lot of time to just count the number of students is present. Also, for teachers the management of the information related to students is a tedious task and doing it manually takes some time. Its advantages are manual task cannot be compromised so easily. Its disadvantage is the space required to store the information and retrieving of the information from that bulk is not an easy task and rearranging them just after using it is more tedious.

***Disadvantages:***

* It requires a lot of time and space to manage information of many students.
* It gets hasty for teachers to take attendance of students and calculate that manually for later reports.

***Advantages:***

* They cannot be altered easily and if altered we would know.

# Project Description

The student attendance and information management system are to be developed in C/C++ or java for functioning and for storing and retrieval of data we are going to use MySQL or Oracle and for its view or we can say front-end of the software will be developed in JavaScript or HTML, CSS. We are going to establish a database connectivity with our software which will make it way easier to use the database in an efficient way.

# Methodology/Planning of the Project work

There are following steps we would follow to achieve our goal with precision and accuracy of the ideas we have collaborated for the student attendance and information management system:

* First, we are going to make the required data instances we would need to store data about students in the database
* Second, we are going to develop a front-end view of our projects as per the needs i.e., as per the information we are going to store and retrieve and the operations we are going to perform on them including the designing so that it doesn’t look boring.
* Third we are going to code the front-end view with C/C++ for functionality and connectivity of our software to database so it can be fully functional for the purpose we are creating it.

# Expected Outcome

Through this project of the attendance and student information management system we are going to root out the problem of unnecessary hard work to take attendance and manage the information of the students. The attendance will be taken in a short period of time and with a little effort. The information about any student can be taken out and can be changed at any time with a very little efforts and with much ease. Also removes the burden of storing the bulk of data and managing and maintaining the records, it can be done with so much of ease by technology we built.

# Resources and Limitations

**The Hardware used:**

* RAM: 2GB minimum
* Storage space: 500GB HDD minimum
* Processor: intel core i3 or equivalent

**The languages and software used:**

* Java
* MySQL
* JavaScript

# Conclusion

The need for available secure and reliable information solution is heightened by the increasing dependence on web like systems and database technologies to provide educational services, develop efficient academic products, administer daily activities and perform both short- and long-term management functions. Using Acropolis institute of technology and research as a case study, this project has elaborated on the technical and operational requirements of developing an academic information system. Issues on web and database concept and technologies, analysis and design tools, security and content maintenance were adequately explained, database and dynamic web page scripting are the communication means to live information content. These technologies have come to stay, no doubt that every organization, institution, and government parastatal wants to join the e-race. Designing a functional academic website for Acropolis Institute of technology and research is indeed a giant step in the right direction.

# References

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