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Electronic journal of student performance in the discipline

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Abstract

Today, there are many interesting and exciting things in the world. Starting from incredible natural phenomena, ending with artificially created, created by human. The modern world is a manifestation of the human mind and intelligence. In order to reach today's standard of living in terms of comfort and technological development, humanity had to learn. It is no secret that teaching is one of the fundamental foundations of life. I can say with certainty that if it weren't for the ancient Greek schools and stuff, we would probably not know by now what a computer, a smart phone, the Internet and much more are. Every year, the education system around the world is developing. New teaching methods are being introduced. The learning process is closely intertwined with various gadgets to facilitate learning. Particularly popular now is distance learning, when a person is physically unable to attend a lesson at school or university. In such circumstances, it is very important to control the success of one or another student's studies, because without a clear understanding of how the students are studying, the learning will not be effective. This work will solve the main problems with monitoring student learning.

1 Introduction

An electronic journal as a monitoring tool is quite useful. Until recently, paper journal were used in the world, which had considerable drawbacks [1].

The following disadvantages include:
- Paper is easily spoiled (burning, whether it can be spoiled by moisture).
- What is written on paper is not easy to correct wrongly.
- Teacher should always carry a paper journal; the problem is that there can be many students (different classes, groups, streams).
- The disadvantage is that backing up such storage media takes a lot of time.

Advantages include the use of a paper Journal is a physical method of storing information, and in the case of complete absence of electricity, or the Internet from it you can get information, I think. But in today's world, there's a great alternative recently, it's an e-journal. If all educational institutions of the world switch to the electronic form of keeping record of student learning success, this would not only simplify the work of the teachers but also help to optimize their work.

Advantages of e-journals:
- All data is stored in a database that simplifies the storage and backup process.
- Data can be accessed from anywhere in the world and any device that has a browser and an Internet connection.
- Data is easy to correct in case of incorrect data entry.
- Students can easily find out about their grades.

The disadvantages are that in the absence of electricity (if accessed from a computer) or absence of Internet connection, access to the data will not be possible.

2 Overview

The features of the subject area are to create a web application (or site) through which students will be able to view the grades that they receive for certain subjects. There is also a need for teachers to be able to enter and edit data in the database.

The implementation of such an electronic journal should solve the following problems:
- Make it easier for students to get information about their grades.
- To provide teachers with a convenient tool for work, to simplify their work.
- Provide educational institutions with a tool to help them dispense with paper.

But it will not do without the minuses in this subject area. The fact is that in order to give the opportunity to use the electronic journal to other educational institutions, I will have to rent a server and create a complex database system, so that all the information is organized by each educational institution. This, in turn, complicates the process of registering teachers in the system, as one teacher can work in several educational institutions. Therefore, in order to avoid these difficulties and to simplify the development process, I made the decision to put my work (application, site, program code) into free access on GitHub. That way, everyone can take advantage of this e-journal and customize it for themselves, and maybe even improve it.

3 Decision

During the analysis of analogues, the following requirements were identified:
- must have a user-friendly interface (adaptation of the interface for PCs and mobile devices if possible)

- data storage must be reliable
- there must be a user logon system

4 Conclusion

When writing the first part of the graduation project, the problems of the developed software product were

References

[1] *E-journal - Wikipedia* https://en.wikipedia.org/wiki/Electronic_journal

determined, the development goals, the subject and the object of development were formed. To understand the developed product, information about this area of its advantages and disadvantages was displayed.

Development goals were set in order to form the functionality of an optimal project that would have fewer disadvantages and more advantages.