A Report on

Educational Institutions Management & Monitoring System

Submitted in partial fulfillment of the requirement of the   
 Software Engineering and Information System Design course

Name Student ID

* + - Kamrul Hasan Shourov 1005097
    - Mahabub Zoraf 1005106
    - Aminul Haque Ripon 1005107
    - Md. Bulbul Sharif 1005108
    - Ashif Salman Rupsha 1005109

Date: 25 JAN, 2014

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3. **Introduction**

**Objectives**At present, there exists some problems in our education system because of being manual. The main concern of our project is to solve these problems by means of digitalization.

1. **Description and Analysis of the System**

To get a clear idea of our system, we divide it into the following subsystems:

1. Registration for Primary School Certificate Examination.

2. Monitoring Student’s Performance.

3. Monitoring Teacher’s Performance.

4. Monitoring Institution’s Performance.

1. Book Distribution.

**2.1 Registration for Primary School Certificate Examination**

In our country, four public examinations are held. One of them is Primary School Certificate Examination (PSC). For all those public examination, registration is mandatory. Three of them are already digitalized but unfortunately for Primary School Certificate Examination, digitalization is not yet being introduced. Mid in the year (June- July), the Authority (Upazilla Education Office) announce the requirement of the list of the candidate going to sit in the PSC Examination from the related Primary Schools and Kindergartens. Then, the institutions send the list of the students to the authority. But, this process does not seem so much easy since often the institutions have to send the students list more than once. That’s creates an awkward situation for both the authority and the institutions. Often it happens that the institution does not know when the registration process starts and when it finishes. This may bring a great problem for those students studied in that institution. Again, as the registration process is done manually, often it is seen that the data something like student’s name, father’s name or mother’s name provided by the institution is wrong or the data which is kept by the authority is wrong. This creates an offensive situation for the students. All this things happens because the process is being done manually.

The purpose of our project is to reduce the problem faced by both the authority and the institution by making it digitalized. We want all the things regarding this should be done manually. For example, when the registration process starts or any message regarding registration, Upazilla Education Office will send a message to the institutions in a digitalized way. The institution will take the responsibility for making online registration for each student of that institution going to take part in the examination. Since this process is not done manually rather than online, it will be easy to make correction if necessary. Digitalization of this process will eliminate all the problems regarding this.

But, as our country is not yet being developed, it is not possible to taste the benefit of digitalization properly. A lot of Schools are situated in remote areas where the benefit of digitalization will not reach. So, they have to do the work manually. Ignoring those schools, it will be helpful for the education system, educational institution and hope should be succeeded.

**2.2 Monitoring Teacher’s Performance**

As the performance of the student is fully dependent on the teacher’s, monitoring teacher’s performance is important. If the quality of a teacher is high on a particular course, it is obvious that the students will surely do well on that course. A qualified teacher can make a subject interesting for the students, can increase their curiosity about that course. So, it is needed to have a clear conception about the quality of that teacher. A qualified teacher must have an excellent academic background. With excellent academic background, he must be trained up to know how to teach. Every year some teacher’s get the opportunity to be trained. But, there is no way to know which teacher needs training. It is seen that maximum time the upazilla education office are in a mess when they are told to send a list of teacher’s who needs training. On the other hand, lobbing is present regarding this. Often it is seen that the teacher’s consider this nothing but a source of money income as a good amount of money is offered during training session. At the same time, no teacher is responsible for his teaching performance even though he may have a lot of training. So every year, education board spends a lot of money but for those reasons noticeable output is not seen.

According to this project, several things of a teacher is examined. These are:

the results of the students of that particular course that is being taught by that teacher. His educational qualification, number of trainings he has already received. Based on this, further decision can be made.

The concern of this project is about the teachers of all kind of institutions. With this process, the related institutions/offices are: the ministry of education, upazilla education office, Primary schools, High schools and Colleges. According to this project, the performance of the teacher’s can be monitored and it will be easy to take decision to know which teacher needs more training.

As the performance of the student is totally dependent on teachers, this monitoring system will help us a lot for further improvement of our education system. As every teacher is being monitored, they will be aware about their responsibilities and have to be account for their responsibility to the authority. This will also eliminate unnecessary training session. Thus, it will help to improve the education quality.

**2.3 Monitoring Student’s Performance**

As we know that in our country, there are a lot of education institutions. But the number of student is large enough comparing to the number of institutions. As a consequence, in each institution, there are a lot of students. So, it is not so much easy to monitor every student’s performance. Currently, there is no way to identify the weakness of each student. So, it is not easy to take proper step to improve the condition of each student. Sometimes, the results of term examination of different institutions are taken by the education office but in vain. No effect of that process is yet noticeable. Another important thing about student’s performance is the percentage of presence in the class room. As there is no way to inform the guardian about the percentage of presence of a student, the student’s don’t give any importance regarding this. Rather, they go to the coaching center. Besides, the institutions don’t show much headache on this matter. But, for a student, it is much more important to attend in the class. This has a large impact on the student’s performance.

In this project, the result of each term examination of each institution will be sent or uploaded by the corresponding institution. The attendance report of each student will be uploaded in every week.

Thus the performance of a student is easy to monitor by the authority. The analysis of the result of the term examination and the percentage of the presence will help the authority to understand the weakness of a student and it will be easy for the authority to take proper action. Consequently, the performance of a student will be upgraded.

**2.4 Monitoring Institution’s Performance**

The performance of a student is solely dependent on an institution’s performance. For being a good institution, some properties must have to be. But most institutions are not up to the mark in one or more aspect. In many institutions, there is a shortage of specialized teacher. Often it is seen in rural areas that there is no teacher who is capable of teaching Higher-Math. So, the students of that institution don’t find the chance to study this subject. Beside this, often a teacher who teaches Bengali is sent to teach Social Science or Math. This makes the situation worse. Students don’t find any interest to attend in the class. It lowers the label of our education. Another important matter is teacher – student ratio. If it is high, it is quite natural that the quality of education will become lower. There are lacks of laboratory facilities in most institutions. Sothe students don’t get the chance to implement what they learn in theory. This makes the topic uninteresting to the student.

In this project, the condition of the laboratories of the institutions will be rated by the invigilator and this will be updated to the system. And the remaining problem can be solved by analyzing the database of the students and the teachers. Thus it will be easy to take proper action and to improve the quality of the institution.

* 1. **Book Distribution**

In the beginning of every year, books are distributed among the students stutdied in primary and high schools. Really it is an apprehensive approach taken by our government. But it is a matter of regret that books distribution process hasn’t yet been digitalized. So there exists a lot of problems regarding books distribution.

To know the number of books should be printed, Textbook Board wants information about students from Ministry of Primary and Mass Education and Ministry of Education. This request passes to the primary and secondary schools through Upazilla Education Office and Upazilla Secondary Office. Then Institution head sends the list of the students. Then Textbook Board collects the information about the number of students. But Textbook Board assumes that this number may be altered. So they print 20% more books than recommended.

But the information provided by the head of the institutions may be wrong or intentionally they send wrong information so that they can be benefited by selling the additional books to the black market. Also, harassment happens during books distribution. Sometimes, head of the institutions have to go more than once to collect books. The Upazilla Education Office calls head of the institutions to collect books at a same time and therefore, another harassment occurs.

As our system makes this process digitalized, these problem can be solved. As the authority has the information in their database, they know the exact number of the students so blackmarketting will be eliminated as well as no need to print such a high amont of extra books. Also, they can create schedule and send the information to all the institutions via message when and where they need to present to collect the books.