

## **Chapter 7**

### **Summary of System Analysis and Design on Rajshahi Education Board**

In this paper, we have made an analysis on the prevailing system of Board of Intermediate and Secondary Education, Rajshahi.

This is a very old organization which high reputation. This board is rendering their service very sincerely from many years. It is one of the most reliable organizations. Board's purpose is multiple and widespread in rationalizing the vision of the government's education policy and ensuring its implementation within its assigned jurisdiction.

They are very strict in fulfilling their objectives. They are very keen to enhance the quality of education and proper evaluation of merit of all the students. They always check the quality of the examiners and maintain a proper timing for publishing result. This organization maintain proper confidentiality of the files and documents. Actually what we understood by working with them that they are very much careful and responsible on each and every details.

They have their missions and visions too. They have started to digitize their documents which were written in papers previously. Their target is to finish them by 2021. They started to work on the payment process by online banking. They are also working to lessen the dependency on third party organizations. These missions and visions can't be achieved over night. These will take time. From past we can see that they have made a lot of change in many sectors. So we can keep hope that they will overcome their shortcomings in future.

In our analysis previously we have identified ten problems apparently. We have found that they have lacking in man power and digitalization of the documents. The number of employee is less than the requirement. That's why the speed of processing is slow. As this is a very important organization so the value of time should be the first priority. So in initial feasibility study we suggested to increase manpower, increase online processing etc. and finally in feasibility study we found that it is better to increase man power than solving these problems in other way. They have already started to digitize their documents so to take further steps in this matter are not necessary.

We have found that they have no server of their own and they depend on the third party for many important works. Well, we suggested to have their own server rather than depending on third party in this matter. In feasibility study we found that having own server is better. Well, actually dependency on third party in all aspects can't be solved. They have informed us that in many cases third party organization can do better than their internal employees.

We have identified that there is lack of time for proper evaluation of scripts. Actually the result publishing time can't be increased so we suggested to increase the number of examiners. But

actually increasing number of examiners will not be economically feasible. It will increase cost. So we can't make a change in this matter.

We have also found that the board has no own exam center. So we thought to bring a change here. We suggested to increase number of invigilators or setting up CC camera in the exam hall. Considering all cases it was found that setting up CC camera is better to ensure the fairness of public exam.

We have observed that the board has only few OMR machines and they pay low allowance to the examiners by offline. We suggested to buy more OMR machines and increase the allowance of the examiners but actually the number of OMR machines are enough to publish result timely and if they increase the allowance of the examiners then they have to increase the exam fees of the examinees. So it is better not to increase that allowance and regarding offline payment issue, they have started to work on it. Within few months the board can pay the allowances online.

We have gathered information from the board using different kinds of tools. We have collected their forms, documents and statistics. We have observed their working procedure onsite. Then we have arranged some interview session with the chairman, secretary, analyst and the programmer. We have also collected information by opinion poll. These information made our work easy and we came to know about the inner details of education board more clearly.

We have sketched a data flow diagram of the existing examination control system of the education board by which one can easily understand the whole procedure of examination. After analyzing the feasibilities to solve the given problems we have drawn another data flow diagram where we have made few changes. By this proposed data flow diagram actually our purpose is fully served. Anyone will understand what we wanted to change by seeing that data flow diagram of proposed examination control system at a glance.

We have designed the input/ output forms for inputting the marks, student identity checking and result preparation. The forms are designed to process digitally. So, a digital system must be designed to implement those forms in use. The implementation can be done using a website or a software. But this process needs a qualified expert team and regular maintenance. A technical support team can be appointed for this purpose.

In database design, the four tables of the database remove the redundancy of data. It is also not necessary to see every attribute for finding a specific information. Hence this type of relational database design makes the use of space, efficient. Also, the query time for searching an information is reduced as specific information can be searched at specific table.

In the total analysis and design period, we have found that the employees and the staffs are very cordial and helpful. They have cooperated us whole heartedly. We wanted to change those systems by which board can get more benefit than the existing system and at the same time their cost will not increase for the change. We suggested three changes they can bring in their system. Other identified can also be solved but most of them are not economically feasible. We hope that in future this education board will bring more changes and digitize whole system to keep pace with the modern world.