Education Board Management System

**Information System Design**

**CSE-308**

**1/25/2014**

1.Mohammad ullah Farsid – 1005093  
2.Md. Mostafizur Rahman – 1005100  
3.Abu Naweem Khan – 1005116  
4.Md. Nazmul Huq – 1005117  
5.Muhammad Ahadul Alam-1005118  
6.B.M. Kamruzzaman - 0905101

1. Existing System Analysis:

# 1.1 Examiner:

Existing System detail:

Board publish a list of teachers who are eligible to check examination paper in their website. Teachers download this list and can see whether they will check or not. Teachers apply for checking examination paper through his institution account.

Furthermore during Board examinations each institution head chooses teachers who will perform exam duties. This list is then submitted to Centre controller. Again this list of teachers is sent to the associated board for their payments.

Problems:

Those teachers who are chosen by Board to be an examiner, has to go through respective institution to know whether he/she is selected or not. This process involves manual works where corruption may be involved.

The process of choosing invigilators involves time consuming manual works which often delays the payment of their work.

Automation Status:

Only part which involves automated systems at present is the publication of the list of teachers eligible for scrutiny.

# 1.2 Registration System:

Existing System detail:

Board gives to every institution a unique code and password to connect with board database. Institutions use this account to register their students as exam candidate within a certain period of time. Firstly the institution takes TT SLIPs one for each student from board website .Then they submit the slip to Sonali Bank with asked fee for registration. After payment Sonali Bank provides pass codes against each TT SLIP. Institutes use these pass codes to access the online database and inserts student’s information.

Problems:

Still now submission of money is manually done. This often involves unnecessary sufferings and waste of time.

Automation Status:

Only the part of registration where the student information is involved is done automatically.

# 1.3 Correction System:

Existing System detail:

Board allows different corrections and applications in the following fields:

* Registration Correction
* TC
* Registration Certificate instead of Registration Card
* Duplicate Registration Card
* Teacher Employee information form.

These forms are available online for download as pdf. After downloading, these forms have to be properly filled and attested by the institution head. Then these forms have to be submitted to the respective board. Once the correction process is complete reply is sent to involved institutions.

Problems:

This process involves too much manual work and also needs unnecessary validity checks which may be avoided entirely.

Automation Status:

The availability of those forms as downloadable content is the only automated feature this system has.

# 1.4 Question Committee:

Existing System detail:

During question formulation and teacher choosing each board forms a committee to handle question setting, teacher assignment, moderator choosing and answer submitting. This board sent out letters to each teacher chosen to be question setter.

Problems:

All stages of this process involves only manual work.

Automation Status:

No work on automatic system is done in this field.

# 1.5 Exam Paper Management:

Existing System detail:

Teachers are chosen by board to check exam papers and a list of chosen teachers is published on respective board websites. Involved teachers under the supervision of head examiner take exam papers from board. After checking they submit result to respective head examiner who in turn submits the result sheet to board. When a student applies for re-scrutiny, board asks head examiner to send the exam papers.

Problems:

This system involves only manual work.

Automation Status:

No automation is still done.

# 1.6 Result Publication:

Existing System detail:

The result publication system of board is done in two phases- institution and board interaction, student and board interaction. Board first give the result to institution account. Then they publish it for student’s access.

Problems:

Often database is overloaded with queries.

Automation Status:

Whole system is well automated.

# 1.7 Student Transfer System:

Existing System detail:

When a student changes his/her school they have to take transfer certificate from the involved institution head along with their transcript.

Problems:

There involves manual works. Also creates corruption opportunities.

Automation Status:

No automation is done.

# 1.8 Student Statistics System:

Existing System detail:

During registration period student’s information is taken for the board database. This data is left for any queries by Bangladesh Bureau of Statistics.

Problems:

Often the database is not well updated.

Automation Status:

Data entry is done automatically.

2. Discovering Scopes:

# 2.1 Portion Implemented:

The portions of this system we are implementing are:

* Examiner assignment
* Corrections and applications
* Board exam question making and moderator assignment
* Student Transfer
* Teacher information sub-system

# 2.2 Portion not implemented:

The portions of this system we are not implementing are:

* Result publication
* Exam paper management
* Student registration
* Student statistics

3. Assessment of project’s worthiness:

Education board is involved in all the educational aspects of students. Due to partially automated system there arise situations where unnecessary waste of time, money and man power is involved. Also for being partially automated the system is inconsistent. There involves muscle work in cases where the hard data is inserted into the database. If the system is fully automated then such wastes can be avoided. Also involvement of manpower creates fields for corruption. A well automated system will be able to achieve mobility, smoothness, data safety.

4. Possible Roadblocks:

The possible roadblocks we may face are listed below:

* Examiner assignment requires teacher’s information database to be implemented. This not only requires much time but also in some cases teacher may be at a disadvantage due to unavailability of internet.
* The validity checking by attesting the correction forms may create difficulties.
* Due to online notification about teacher assignment during board exam question setting, teachers may be left uninformed.
* Teacher information subsystem itself being large well management of this subsystem may involve appointment of manpower.