Chapter 8

Conclusion and further work

8.1. Introduction

When I walk through the report, chapter 1 provides the introduction of the project which explain the background details of the institute which project applies, then problem faced by the institution, motivation towards selecting the project, main objectives. After the introduction chapter, I explain the literature survey which I conduct on examination systems. Under this chapter I was able to study various aspects of examination system and features of available examination systems. Chapter 3 I described the technology need for the proposed solution. Next chapter I presented the way I followed to solve the solution. It also mentioned the inputs, outputs, processes and the users in the solution. Chapter 4 I analyzed the user requirements and mentioned the system design aspect. Chapter 5 focused on implementation details of the design. Finally I describe the evaluation of the proposed solution.

This chapter I aimed on conclusion and further work regarding the examination management system. When I present the conclusion first I am very happy to select such a project for my MSc program. Because using this project, I was able to find a solution for a problem which faced by my institution. Also this project helped lot for NIBM students, lecturers and examination unit to handle examination related activities more comfortable way. So this project has solved the problem faced by the institute long period of time.

8.2. Achievements of aims and objectives

When I discuss the achievements of aims and objectives, now students and lecturers of the institute can access examination results online. Students are not required to visit the institute.

This software helps to save time on exam related activities such as schedule preparation, awardees selection, exam results analyze. Now staff can perform those activities within few minutes.

When we consider the accuracy of records, it is high compared to earlier. For an example earlier examination staff has to calculate GPA value manually. Sometimes it caused for the errors. These errors lead to change students' final results also. It is a big damage for student life. Also preparing examination schedule manually generates some errors such as allocated hall space is not enough for the candidates. Now these types of errors are minimized using the proposed system. So accuracy of records is high.

Earlier examination records are stored on excel files and paper sheets. So any person can access those records easily. Examination records also are visible to everyone when they are published on notice boards. Now I have provided authorization of exam records through this system. Any person who want to access any exam record, have to login to the system using given username and password.

In previous situations, to extract particular record, people have to go through lot of paper sheets. That process is very slow. Now any record or information can be access fast through the system. For an example suppose I need to find exam result of a particular for particular module in a course for particular student. Then this information can be searched easily log in to examination management system.

8.3. Challenges of the project and Problems encountered

When I am doing this project I have to face some challenges. I describe these challenges here. There are some other examination management systems available in the world. When I develop such examination system I should present more features over others. This is a big challenge. I have conducted a literature review for that. But there shall be some commercial software which are unable to find through such review.

There were some situations which I have to find algorithms to implement some features. One example is exam scheduling. Here I should find ways to automatically prepare time schedule. There are some conditions to apply such as free halls, free lecturers, etc.

I have to complete this project within given time period by the university. During that period I had lot of activities to complete such as requirement gathering, design, finding technologies, programming, and testing.etc. Handling all those activities within given period alone is a big challenge.

8.4. Limitations

Even this application provides lot of benefits for the users there are some difficulties as well.

When consider exam scheduling module free lecturers are decided looking at the lecturer time table. There are some situations which lecture schedule shows lecture free from lecture, but he has applied leave on that day. In this situation exam schedule may indicate that lecturer as supervisor. Because of leave he will be unable to supervise examination. This is an one limitation of the application.

Other situation is on same exam schedule application, free halls are decided looking at the hall schedule. To schedule a particular examination on a day, batch capacity should be less than or equal to available halls' capacities on that day. There are may be some months this condition is not satisfied. In this case exam scheduling is not happening during this month. So there are may be some delays on examinations. But when we prepare the schedule manually, this can be done doing some adjustments like cancelling some lectures.etc.

This application support online transcript request, but students have to visit institute to collect online applied transcript. Because authorized signature is needed for valid transcript. This is one limitation of the system. Because of the students in remote areas are difficult to visit to collect the transcript in some situation.

8.5. Further work

There are some improvements I have identified in the proposed examination management system. These are discussed below.

- Not support for disabled personnel
  This proposed solution can be improved to use for the disable personnel further. Currently this is not supported for the disabled personnel. There are some students with physical disabilities.
- Transcript authorization
  Currently students are able to request the transcript online. But there are unable receive it online. Because valid transcript should have authorized signature. This application can be improved further to provide authorized transcript online.

8.6. Summery

This chapter my main aim is to discuss the progress of the project what I have done. When it was reviewed the achievements of the project, it is glad to say that the solution which is given in successes, because the project is a remarkable address for a long-term issue of the institution. Therefore the project also be able to satisfy the aims and objectives. It has to face some challenges and problems when it moves towards the solution. And in this chapter it is described the limitations and further work of the solution.