

Conclusion & further works

8.1 Introduction

In the previous chapter it was discussed, how evaluation and testing conducted in order to ascertain whether the Software system complies with the identified requirements. This chapter summarizes conclusion of the project, including issues faced and the future works that can be taken place for enhancing the system further more.

8.2 Conclusion

Implementation of the computerized Entry processing System at Sri Lanka Standards Institution addresses the major problems, identified in the considered problem domain well. The implementation of this software to carry out different activities of CIIS has paved the way for many benefits such as the reduction of cycle time, effective use of organizational human resource, reliable communication of SLSI decisions to Sri Lanka Customs and the importer being in touch with Entry processing progress etc.

Once the importer submits his documents in electronic format over the internet, all relevant staff those who are attached to relevant QA Unit that the particular Entry is processed will be indicated the receipt of the new Entry in their Home Pages including the Director-QA and submission details which are important to the importer will be immediately sent to the importer by the auto responder.

The new software system has provided effective solutions to the identified bottlenecks in the manual system that creates undue delays in Entry processing. The biggest time wasting task in the Perusing process is to find out the date of last sample taken and the number of consignments approved without sampling, after the last sample. In the software system these information are found very quickly by the system reducing the time taken for Perusing and AD's decision making process remarkably. Also the software provides a very good solution to the other discouraging activity, i.e Nomination of Entries for perusing. In the manual system there is no proper method to update the Assistant Director about work load that each perusing officer handled at the time of nominating a new Entry for perusing. Therefore refuse of the Perusal, by perusing officers, with an excuse of heavy work loads is a common occurrence.

However, in the software system, this information is readily available at the time Nominations are done.

Also the new system has created many opportunities for future developments in the following areas.

1. Employee performance Monitoring

In the proposed new salary scheme, the Government has emphasized to evaluate employee performance regularly. Therefore, the information collected in the database can be used to evaluate performance of staff engaged in CIIS

2. Online payment facility for the Importers

This facility will further enhance the customer satisfaction about the system as they need not to appear physically at the cashier's counter.

3. Management of sample testing at the laboratory.

This software can be extended to cover the activities in the laboratory for sample receiving, sample allocation, record test results, preparation of test reports etc.

As a result of this software development project, the knowledge and the experiences in the following areas were gained;

- Conduct of domain analysis and modeling the existing and proposed system using Object Oriented methodologies.
- Use of HTML, CSS, PHP, MySQL, JavaScript in developing the proposed system,
- Applying software engineering theories at different stages of software process.

8.3 Issues faced during the project.

1. Lack of good knowledge in Scripting languages or programming languages.

My background is a non IT sector and there was no exposure to handle software projects in this scale. The basic knowledge in JAVA, Internet programming and database management systems covered in the MSc programme was not adequate. Therefore, it was required to do a lot of self study on PHP, JavaScripts, MySQL, HTML and Database normalization which were time consuming.

2. Many times users came with new requirements that they wished to have in the system.

During this project it was understood that most of the ordinary user's perspective of computerization is that it should provide answers to all the issues. Therefore, many times, an extra effort was needed to make them understand that the computerization doesn't always provide solutions to all the issues and need some changes in doing the work, in order to suit the computerized environment.

8.4 Limitations of the solution & future works

Given the time constrain other useful aspects that are pending for further developments that can be incorporated in the current system. These aspects are as follows:

- Online payment facility for importers
- Employee performance monitoring
- Management of conducting inspections and sampling
- Management of sample testing at the laboratory

8.5 Summary

In this chapter, how the software system can be used to resolve the problems addressed in Chapter 1, further works to be done, issues faced and limitations were discussed.

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