

Evaluation

7.1 Introduction

The previous chapter was about the implementation of the system. This chapter describes evaluation of said implementation.

7.2 System Testing

Black Box methodology was used to test the system. The testing method is simple as well as powerful. In terms of testing a system pertaining to limited time and resources it is still a good methodology.

Firstly test cases were generated covering all the modules. The cases test functionalities of each module. The document of test cases distributed among 15 system users of CCD on 15th October 2008 and got the result. Sample of text cases of one module is shown in Figure 7.1. For all the test cases refer the Appendix I.

Burn Outward Return			Test Steps		
Test Case ID	Test Case Name	Test Case Description	Step	Expected	Actual
Burn01	Validate Outward Return burn to CD	To verify that burning can not be done if there still unprocessed items exist	<ol style="list-style-type: none"> 1. Make sure to exist pending item(s) to be marked 2. Go to Burn Outward Return screen and click Create File button 	Message will display as "Following Branches are to be Completed"	
Burn02	Validate Outward Return burn to CD	To verify that Outward return CD is burnt	<ol style="list-style-type: none"> 1. Burn the Outward return CD with returns 2. Click on View File 3. In the Open File button and browse for a return text file in the the CD 4. Open the file 	Details of all the returned cheques will be displayed	

Figure 7.1 : Sample of test case

Passed percentage of each test case is shown in the Table 7.1.

Test Id	Login01	Login02	Upld01	Upld02	Upld03	Upld04	Acc01
Pass %	75	90	95	98	65	80	90
Test Id	Chq02	Alloc01	Alloc02	Scru01	Scru02	Scru03	Scru04
Pass %	95	92	89	96	91	94	90
Test Id	Scru05	Scru06	Scru07	Scru08	Core01	Core02	RAIl01
Pass %	95	85	89	80	60	55	80
Test Id	RAIl02	Auth01	Auth02	Burn01	Burn02	Stat01	Stat02
Pass %	70	60	50	60	65	90	80
Test Id	Hist01	Sec01	Sec02	Sec03	Para01	Cale01	
Pass %	85	95	98	90	96	98	

Table 7.1 : Test Case Results

The graphical presentation of the test data is shown in the Figure 7.2.

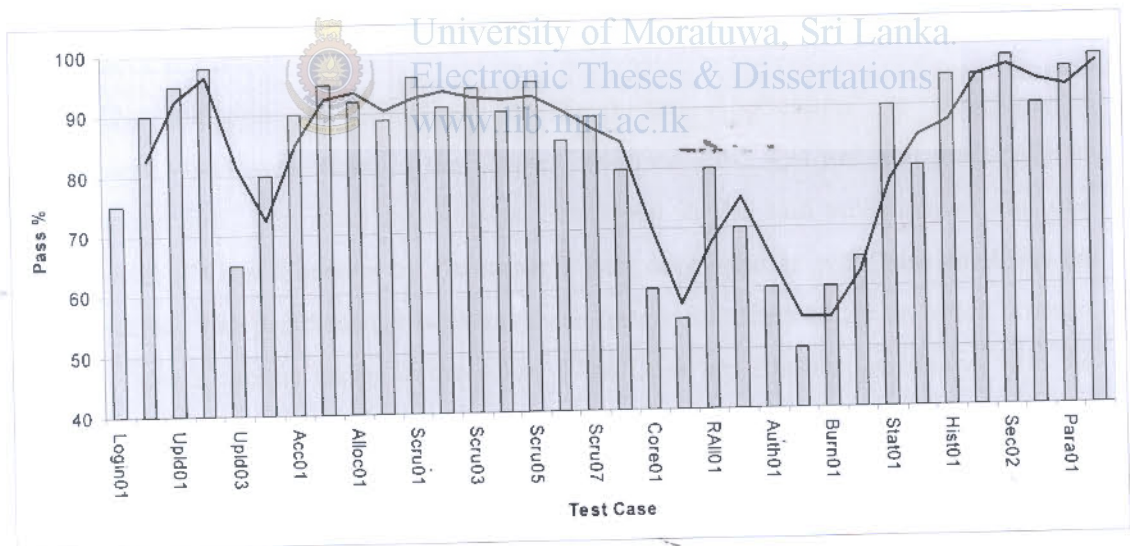


Figure 7.2 : Graphical presentation of test results

In the Figure X-axis denotes test case id while Y-axis denotes pass % of each test case. A trend line has been drawn connecting the bars.

The major declines areas can be observed as:

- Some parts of uploading
- Validation with Core Banking System

- Authorization
- Burning outward return CD.

After this evaluation another users training was called for these users. Later it was done the same above testing. The same graph was drawn and then the decline in trend line was get smoothen.

7.3 Self Appraisal

The system has covered all the specifications except one. The system has met the desirable requirements too. The missed specification is automating the “Correcting Inward Data” using OCR. Though OCR can read the cheque, when it read the Magnetic line where Account No. and Cheque No. printed the output is garbage.

To maintain the reliability of the system it was strive to test the system in the development stage. As the system involve with financial transactions it must be keep the reliability standard high. To make the users reliable the system it was used the simple strategy of visibility of system functioning.

The system behaviour in deferent circumstances was tested at the test cases. It has achieved level of high passed situation. As the development built on modules it was more convenient to make the system robust. The reusable codes make a system more robust as maintenance is easy.

The selection of technology as “Desk top Application” as development environment which was stated in the chapter 3 section 3.6.5 was justified practically in the system it self. The main system was developed in the said environment and one specification (“View Cheques by Customer”) was developed in web base as it has no other solution. The performance between these to environments could be tested when it come to show a cheque image in the screen. The Desk top Application always won the race.

7.4 User Evaluation

User evaluation, the feed back of the system users has done using an evaluation form. A sample of evaluation form is in Appendix M. The users were in different age groups from 28 years to 50 years and their experience in the bank is differs respectively. Available number of users for the evaluation was fifteen. The summary of the evaluation is stated in the Table 7.2.

	Excellent	Good	Satisfactory	Fair	Poor
1. Screen formats is understandable	10	4	1		
2. Input method is simple	11	3	1		
3. Can easily correct mistakes	14	1			
4. Responds to input in a timely manner	10	2	3		
5. Colour is used appropriately	9	5	1		
6. Move to different parts of the program easily	12	3			
7. Easy to exit from any screen	14	1			
8. Printing options	13	2			
9. Achievement of overall software solution	13	2			

Table 7.2 : Summary of user evolution

As per the Table 7.2 is concern the overall achievement in software solution in “Excellent” is 86%.

7.5 Summary



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This chapter describes evaluation of the developed system. The evaluation is based on the user test and self evaluation. The next chapter is discussed about conclusion of the project and further work to be done in the system.