

Evaluate the system.

7.1 Introduction

This chapter concentrates evaluation of the project. It will discuss system meet the goal and objectives defined earlier. Also it will discuss about performance and robustness of the system.

Goal and Objectives defined in the system is,

7.2 Goal

The goal of this project is to develop a system for addressing Mobile Money Transfer within Sri Lanka with the use of Java and SMS technology.



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7.3 Objectives

- Study of the possibilities and potential in Mobile money transfer methods.
- Study of technologies that can solve the problem
- Design and develop a simulate system for solving the problem
- Preparation of the final documentation

When it is looking in to the system it can say successfully met the objectives defined earlier.

There were defined some test cases in the test plan. Following tables defined those test cases and result and evaluation of those test cases.

The following methods and test case are designed to test the quality of the designed system to fulfill the requirements gathered in the system analysis phase.

Sample test case for peer to peer money transfer

Test Case ID		1	
Tested component		Process of peer transfer money	
Tested area		Functionality	
purpose		Money sender sends the SMS with the Pin number and amount. Modem receives it and send to the bank via predefined protocol. Bank app check the validity of the protocol and send the result back.	
Prerequisites		Modem application and client and server programs should up and running.	
Test case description			
No.	Test Case	Expected result	Remarks
1	Originate a SMS and send	Modem receives the SMS, read it and store in DB	Pass
2	Create the predefined protocol	Send protocol to the bank server	pass
3	customer is registered	Check customer is registered	pass
4	PIN number	PIN number is valid	pass
5	send the reply message to the client app	Client app receive the reply message to send to the customer	pass
6	Send reply to the sender and receiver	Both sender and receiver receive the SMS.	pass

Table 7.1 – Test cases peer to peer money transfer.

Spec Section:	Login Process- Bank executive/Retailer	
Test case	Test Description	Result
1	The system should provide controlled access to the system test the checking for authentication before Accessing the system	Redirect to the login page again.
2	Check for unauthorized access	Redirect to the login page again.
3	Only Authorized personal should be able to login	Forward to the MainMenu page. A session is maintained for each login

Table 7.2 – Test cases login process.

Spec Section:	Sending customer request	Result
4	Get the request as SMS and send to the bank server.	Check the length of the protocol and send within 2 seconds.
5	Get the reply message	Store within 1-2 seconds
6	Status should be updated in the system	Updated status
7	System should be send reply to the customer.	Send SMS within 5-6 seconds.
Whole process happened within 2 minutes.		

Table 7.3 – Test cases result – pass request and get response.

Spec Section:	Cashless purchasing process	
8	Check customer validity	Validation happen within 3 seconds
9	Debit from the customer and credit to the retailer	Debit credit will happen within 2 second.
10	Get the proper reply messages	Send reply message within 3-4 seconds.
Whole process completed maximum within 2 minutes.		

Table 7.4 Process of cashless purchasing.

7.4 Performance and robustness

Peer to peer money transfer process complete maximum within two minutes which is less than if transferring is done manually. Sri Lankan economy can grow fast if this kind of service is used than the manual or eservice. This system can handle a lot of transactions at a time. Only the constraint is modem can send only six SMS per minute. Retailer transaction process can be done maximum within two minutes time. Retailer can check each and every status in the transaction very fast and up to time in the web interface.

Transactions are logged in every important place. Therefore some error occurs can be easily detected and solved.

It has learnt the new technologies when implementing the system. Especially use modem application to implement the system and it was met all the requirements and objectives and also it can be customized with minimum changes. It has capability to handle big number of transactions.



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7.5 Summary

This chapter discussed about evaluation of the system according to the aim and objectives defined and result of the test cases. Next chapter will describes the conclusion of the project and further work can be implemented.