Chapter 9 References

- [1]www.wou.edu.my/Document/Student_Online_Assignment_Submission_Guide_Fi
 nal_3.pdf
- [2] Silva, A (2004), Using Semantic Web, In proceedings of the 8th International Conference on Ontological Modelling, pp 150-170, Tokyo, Japan
- [3] www.sematicweb.org/sources.html
- [4] www.designersplayground.com/articles/118/1/The-Advantages-of-PHP/Page1.html
- [5] www.hostingfolio.com/php-hosting/list-of-php-web-hosting-advantages-over-aspand-cold-fusion-web-hosting
- [6] www.developershome.com/sms/howToSendSMSFromPC.asp
- [7] www.astd.org/LC/2005/1105_carliner.htm
- [8] www.epathlearning.com/content/products.html
- ^[9] www.smslib.org</sup> University of Moratuwa, Sri Lanka.
- [10] www.mobilein.com/SMS_tutorial-pdfeses & Dissertations
- [11] en.wikipedia.org/wiki/GSMib.mrt.ac.lk
- [12] www.e-learningcenter.com/php_mysql.htm?gclid=CMXH38_O66YCFcV66wodKwaFw
- [13] en.wikipedia.org/wiki/GSM
- [14] www.imsglobal.org
- [15] www.w3school.org
- [16] www.essaycoursework.com/howtowriteadissertation/dissertation-abstract.php
- [17] www.scribd.com/doc/28417880/Writing-Your-Dissertation-Pattern
- [18] primedissertations.com/masters-thesis.html
- [19] www.stcsig.org/usability/newsletter/0110_measuring_with_use.html
- [20] http://php.net/manual/en/function.explode.php
- [21] http://stackoverflow.com/questions/18082/validate-numbers-in-javascript-isnumeric
- [22] http://www.builderau.com.au/program/php/soa/Generating-PDF-files-with-PHP-and-FPDF/0,339028448,339286044,00.htm



Appendix A

Questionnaires for implementing online submission of assignments

This questionnaire has been used to seek the current situation of the IT skills and interest of the staff & students and the facilities available for the implementation of this Online Programme.

	Student	Lecture Internal	Lecturer External
1. User Type			

	Engineering Technology	Natural Science	Education	HSS
2. Faculty				

	University of Moratuwa, Sri Lanka.				
3. IT Skills	Electronic 7	Nerves &	Sprisser	tappdns	Very
	www.lib.m	tpeer.lk	what		Good
My Computer knowl	edge is				

4. Computer Availability	Home	Office	Do not have
I have a computer facility			

5. Willingness	Strongly Agree	Agree	Disagree	Strongly Disagree
I prefer to submit the assignment online				

Appendix B Questionnaires

Questionnaires for Evaluation of Functions

This questionnaire has been used to eva

Usefulness	Strongly Agree	Agree	Disagree	Strongly Disagree	I don't know
1. It helps me to achieve the result that I want					
2. It makes the things I want to accomplish easier to get done					,
3. It saves me time when I use it					
4. It meets my needs					

Ease of use in the second strong of the second stro

1.	It is easy to use			
2.	It is simple to use			
3.	It is user friendly			
4.	It requires the fewest steps possible to accomplish what I			
5.	want to do with it. It is flexible			
6.	I can use it without written instructions			
7.	I don't notice any inconsistencies as I use it.			

8. Both occasional and a users would like it	regular			
9. I can recover from m quickly and easily	istakes			
10. I can use it successfu time	lly every			

Ease of learning Strongly Agree Disagree Strongly I don't Disagree know Agree 1. I learned to use it quickly \Box \square 2. I easily remember how to use it

3. It is easy to learn to use it University of Moratuwa, Sri anka.

Satisfaction	Strongly Agree	Agree	Disagree	Strongly Disagree	I don't know
1. I am satisfied with it.					
2. It works the way I want it to work					
3. It is pleasant to use					

Appendix C Database structure

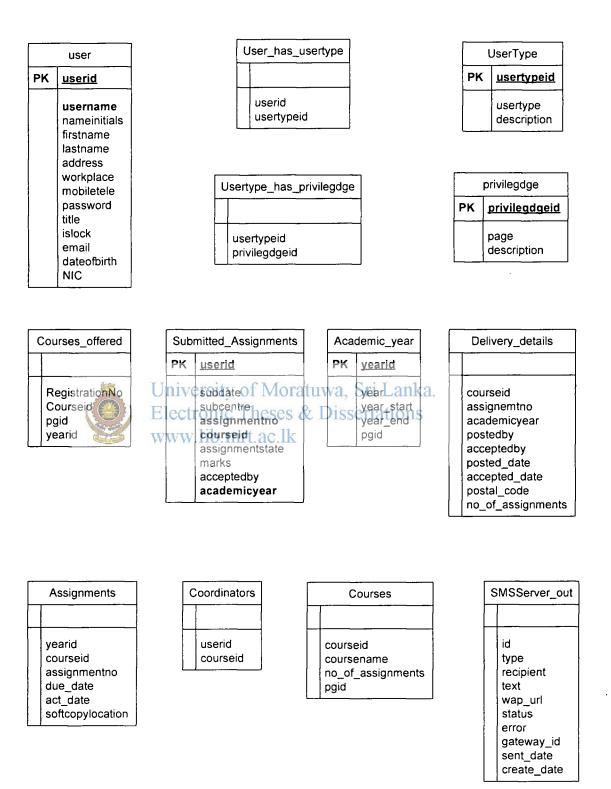
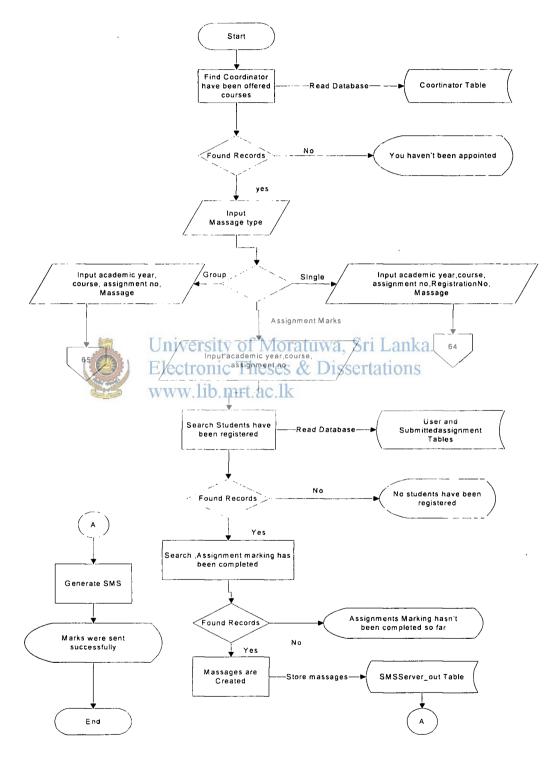
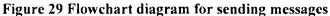


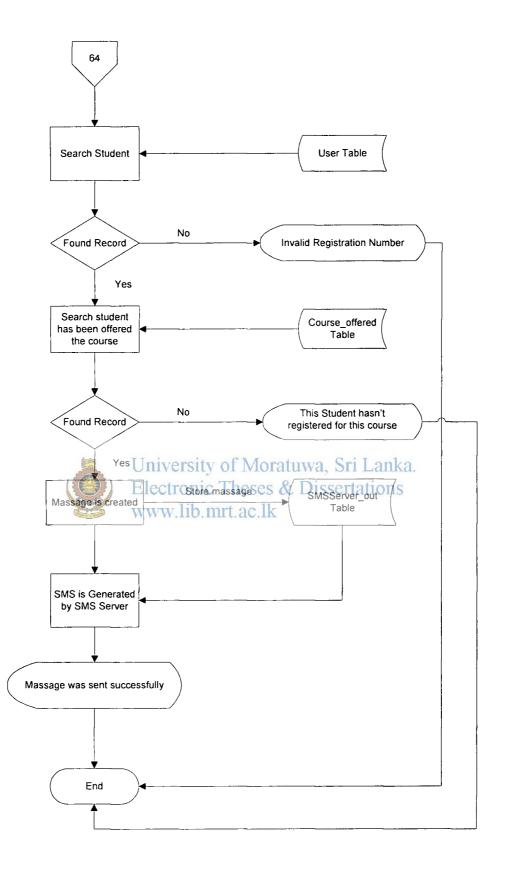
Figure 28 Database Structure

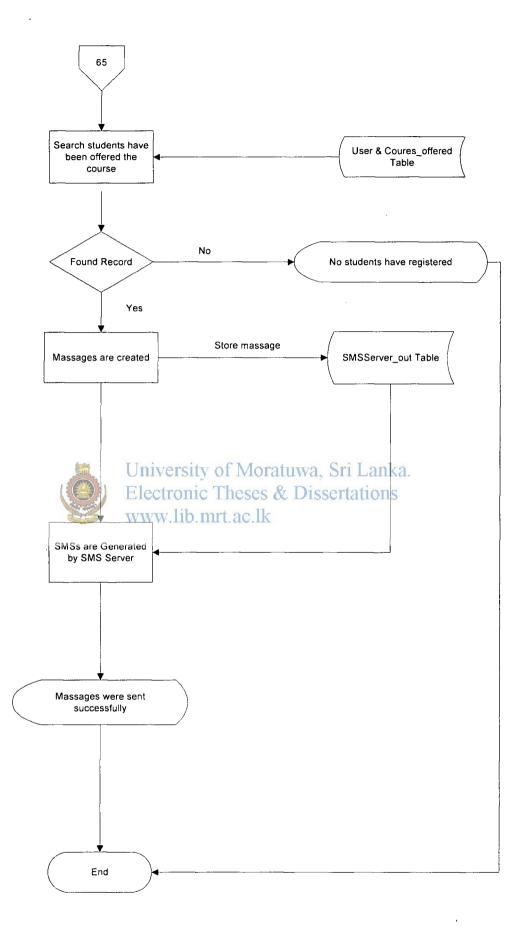
Appendix D Flowcharts

This flowchart diagram describes the flow of the three types of messages delivering mechanism.









This flowchart diagram describes the flow of the upload assignment process of the system.

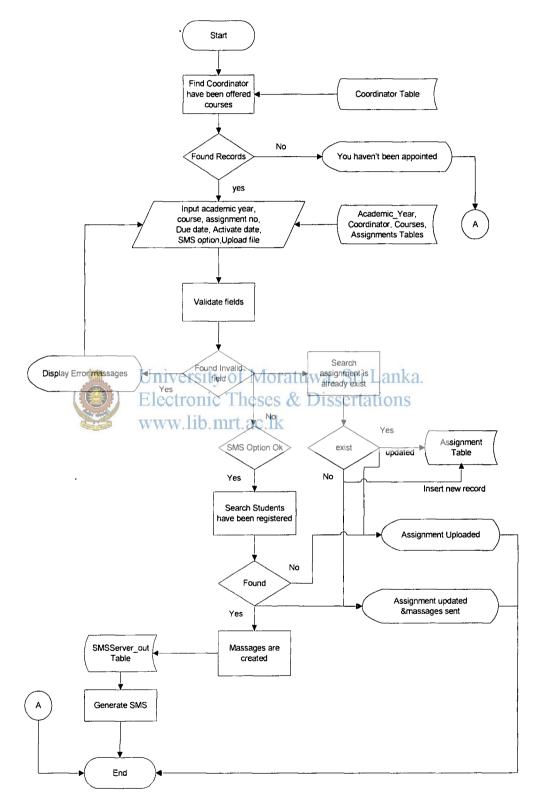


Figure 30 Flowchart diagram for upload assignment



Appendix E Test plan

Black box testing methodology looks at, what are the available inputs for an application and what are the expected outputs that should result from each input. While developing all functions of this system, each on was checked individually using same test technology. After integrating all units, system was again tested using following test plan and few test data sets and result are given below

Test cases

No	Test case	Steps needed to carried out the test	Expected result
1	Login	Open Login dialog box Enter user name and password	If password and username accepted, system menu will open according to the user privileges
	Unive	rsity of Moratuwa, Sri L	Otherwise Relevant message should be displayed anka.
2	Accurate	Li Display user details to be edited Change required information Press Edit Profile Button	Before saving data, system should check whether mandatory fields have been entered and they have been in correct format. Else relevant messages must be displayed.
3	Change password	Click Edit My Password Link Enter old password Enter New Password Retype New Password Press Change Button Logout and Login using new password	If details are entered correctly message should be displayed as successfully password edited

No	Test case	Steps needed to carried out the test	Expected result
4	Add New User	Click Add New User Link Enter the user details Press Add User Button	Data entry form should be displayed When presses Add User button, validation of each field should be checked and relevant messages must be displayed. If there is no invalidation field ,message should be displayed as "Add User successfully "
5	Electron	Click Activate User Link	

			should be displayed as "Successfully activate the user" if "No" button is selected, message should be displayed as "Not user activated "
6	Deactivate User	Click Deactivate User link Type user name and press Search button	Deactivate user window should be displayed
		Press "Yes" button	If user deactivate ,message should be displayed as "This user is already deactivated"
			If user activate, user details should be displayed in the form and "Yes", "No" button should also be available with question
	Electron	ty of Moratuwa, Sri L ic Theses & Dissertat .mrt.ac.lk	and selected user is Course Coordinator type user ,another
			question should be asked as "This user is Course Coordinator confirm deactivation?" with "Yes" and "No" button. If "Yes" button is selected, message
			should be displayed as "This user is successfully deactivated". If "No" button is selected, message should be
			displayed as "This user is not deactivated" If selected user is not

			Course Coordinator type user, message should be displayed as "This user is successfully deactivated".
7	Appoint Coordinator	Click Appoint Coordinator link Type user name and press search button Select course for coordinating and press appoint button	If username is invalid ,message should be displayed as "Invalid Username" Otherwise next window should be displayed for selecting course and appoint.
	Electron	ty of Moratuwa, Sri L ic Theses & Dissertat .mrt.ac.lk	If user has been already appointed for that course, messages should be displayed as "Coordinator has been already appointed" ONS If use can be appointed for selecting course, message should be displayed as "Successfully appointed "
8	Upload Assignment	Click upload assignment Select academic year	If Course Coordinator hasn't been appointed ,message should be
		Select course code Select assignment No	displayed as "You haven't been appointed"
			•••
		Select due date Select activate date	If all option fill without SMS option ,display message as "upload
		Select SMS option	assignment successfully
		Press browse button and select required file	If SMS option is also activate, l display

Press upload button	message as "Upload assignment and sent
	messagess
	successfully"



University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations www.lib.mrt.ac.lk

Appendix F Test case and test result

Methodology – Black Box Test

Name: Login,

Usage : For access control. There are four access levels.

1. Student

i

- 2. Receiving Officer
- 3. Course Coordinator
- 4. Administrator

No	Test Item	Level	Input	Expected Output	Actual Output
	Login		Click Login Button	Show Error Messages	Same
			GlickyTry Again Buttony		Same
<u> </u>			r Bata Set Theses & D 1.lib.mrt.ac.lk	Display User and Student Menu	Same
			Data Set 2	Display User and Student Menu	Same
		2	Data Set 3	Display User and Receiving officer Menu	Same
			Data Set 4	Display User and Receiving officer Menu	Same
		3	Data Set 5:	Display User and Course Coordinator Menu	Same
			Data Set 6:	Display message as " Check your username and password"	Same
		4	Data Set 7:	Display User and User Admin menu	Same
			Data Set 8:	Display User and User Admin menu	Same

Access Level:	Student		
Data Set 1:		Data Set 2:	
Username :	410035800	Username :	410035807
Password :	410035800	Password :	410035807
Access Level:	Receiving Officer		
Data Set 3:		Data Set 4:	
Username :	sunitha	Username :	imesha
Password :	sunitha	Password :	imesha
· · · · · · · · · · · · · · · · · · ·	Course Coordinator		
Data Set 5:	That wait a Children	Data Set 6:	
Username	University of Morat Electronic Theses &	Username : Dissertations	nishantha
Password	www.llo.mrt.ac.lk		nisha
Access Level:	Administrator		
Data Set 7:		Data Set 8:	·····
Username :	admin	Username :	nandana
Password :	admin	Password :	nansan

Ł.

Name: Upload Assignments,

1

1

Ę

3

Usage : There is one access levels.

1. Course Coordinator

No	Test Item	Input	Expected Output	Actual Output
	Upload Assignemt	Data Set 1	Display message as "Uploaded Assignment and Sent Messages Successfully"	Same
		Data Set 2	Display message as "Uploaded Assignment Successfully"	Same
		Data Set 3	Display message as "PDF File type is only allowed "	Not Same
	L L	Data Set 4 Iniversity of Mora	Display message as "Activate date cannot be empty "Sri Lanka.	Same
	E W	lData seis Theses a ww.lib.mrt.ac.lk	Displaymessagelas "Upload file can't be empty "	Same
		Data Set 6	Display message as "Due date can't be empty "	Same
			Display message as "Activate date can't be empty "	

Access Level: Course Coordinator (User name : Chulawansa , Nishantha)				
Data Set 1:	<u>_</u>	Data Set 2:	···	
Academic Year	2010_2011	Academic Year	2010_2011	
Course	MPZ2310	Course	MPZ2311	
Assignment No	1	Assignment No	1	
Due Date	2011-01-17	Due Date	2011-01-20	
Activate Date	2011-01-05	Activate Date	2011-01-05	
SMS	Activate	SMS	Not Activate	
Upload file	mpz23101.pdf	Upload file	mpz23111.pdf	
Data Set 3:		Data Set 4:		
Academic Year	2010_2011	Academic Year	2010_2011	
Course	MPZ2311	Course	MCC1103	
Assignment No	Uni ² ersity of Mora	Assignment Nanka.	1	
Due Date	Electronic 3 Theses &	Distrations	2011-01-05	
Activate Date	www.lib.mrt.ac.lk	Activate Date		
SMS	Not Activate	SMS	Not Activate	
Upload file	mpz23111.doc	Upload file	MCC11031.pdf	
Data Set 5:		Data Set 6:		
Academic Year	2010_2011	Academic Year	2010_2011	
Course	MCC1103	Course	MCC1103	
Assignment No	3	Assignment No	1	
Due Date	2011-02-05	Due Date		
Activate Date	2010-01-01	Activate Date		
SMS	Not Activate	SMS	Not Activate	
Upload file		Upload file	MCC11031.pdf	

)

Appendix G Installation Guidance

Installation

- First install the WAMP ,using the WampServer2.0i file stored in the CD WAMP_Installation folder. Then copy the "OUSLHAMS" folder to the document root.
- 2. Load the WAMP and run Phpmyadmin and import the database using text file stored in CD "DBTEXT" folder.
- Open the httpd.conf file located in the :\wamp\bin\apache\Apache2.2.11\conf folder and edit DocumentRoot ":/wamp/www/ OUSLHAMS "
- 4. Install the Java JDK 1.5 or above.
- 5. Copy the SMSLIB folder to C drive or Any other drive
- 6. File comm.jar copy to the JDKDIR/jre/lib/ext/ . comm.jar is located in /SMSLIB/COMMAPI/ folder (JDKDIR is a java installed folder in you machine)
- 7. File javax.comm.properties Moshouldva, Seq Launder JDKDIR/jre/lib/ javax.comm.properties is also located in /SMSIdB/COMMAPI/ folder
- Library files (i.e. win32com.dll for Win32) should go under JDKDIR/jre/bin/.
 win32com.dll is located in /SMSLIB/COMMAPI/ folder
- 9. File RXTXcomm.jar should go under JDKDIR/jre/lib/ext/ RXTXcomm.jar file is located in /SMSLIB/ rxtx-2.1-7-bins-r2 folder
- 10. Connect the or GSM/GPRS modem to the USB port and find the serial drive number (etc com1 or com2 ..)
- 11. Edit the SMSServer.conf file located in the folder \SMSLIB\dist\classes\ and change the "modem1.port=COM5" line. Here com5 should be replaced by relevant serial port drive number.
- 12. Structure of SMSServer.conf is given below

smsserver.balancer=RoundRobinLoadBalancer

Lets add a modem

gateway.0=modem1, SerialModem

modem1.port=COM5

modem1.baudrate=115200

modem1.manufacturer=Nokia

modem1.model=6310i

modem1.protocol=PDU

modem1.pin=0000

modem1.inbound=yes

modem1.outbound=yes

modem1.smsc_number=

interface.0=db1, Database

db1.type=mysq1

db1.url=jdbc:mysql!//localhost:3306/ip?autoReconnect=true ka. Electronic Theses & Dissertations db1.driver=com.mysql.jdbc.Driver www.lib.mrt.ac.lk

db1.username=nandana

db1.password=newpwd

db1.tables.sms_in=smsserver_in

db1.tables.sms_out=smsserver_out

db1.tables.calls=smsserver_calls

db1.batch_size=5

db1.retries=2

db1.update_outbound_on_statusreport=yes

settings.delete_after_processing=no

settings.send_mode = async

settings.timeframe.low=0900-2200

settings.timeframe.normal=0000-2359

settings.timeframe.high=0000-2359

