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PROJECT CHARTER

Name of the Candidate: J.K.KATHRIARACHCHI

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Registration No. 129158F

E Mail: jagathk@uom.lk

Title of the project: Management Information System for Industrial Training Division

Executive Summary:

The Industrial Training Division of the Faculty of Engineering is an independent

service unit functioning under the Director, Industrial Training. It is mandatory that

all undergraduates after completion of their Level 3 examinations also undergo 24

weeks of industrial Training (Module No. 3990) and obtain 6 Non-GPA credits for the

award of a B.Sc. (Honours) Degree from the Faculty of Engineering. All

undergraduates of the Faculty of Engineering are offered industrials training at either

a government institution or a private company in Sir Lanka.

At present, all these Training are managed by a paper based system. This system has

several drawbacks. In this project I expect to develop a user – friendly, automated on

line Training Management System to overcome the existing drawbacks using present

web technologies.

1.1 Introduction

Division ITD is a training organization dedicated for training of all under graduate

students in under the faculty of Engineering offers more than 100 different training

programs annually for the students. Currently a paper based training management

system is used for managing the training programs . This paper – based system is not

efficient enough to cater for the increasing demand. Further it has significant

drawbacks in generating up to date training statistics necessary for the management.

1.2 **Problem Domain**

On the current system, Industrial Training Division Management activities commence

after receiving application from the undergraduate registrar. First activity is sorting

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and grouping of application according to the student No., Student Name, Faculty, Department, Course files are created from stored application.

After selecting or scheduling of category student, suitable participant are selected from the relevant applications. Staff coordinator is the person responsible for these activities.

Based on the section the ITD staff sends invitation to the training places or else NAITA, to conduct relevant selected student and sent selection letters to the participant information them to attend proper training places.

According to the schedule or especial from coordinator, registrar, IDT Staff will arranged examination of the industrial training module. The student sent weekly report, monthly report, NAITA diary and final training report also record assignment given for a mark. The data in used for processing of final mark result.

At the end of each trainee, evolution is done through individual undergraduate course evolution from collected participant. A course evolution system is used to analyses responses and prepares report. According to the trainee's attendance get the via Electronic Theses & Dissertations training places and final training report result of examination and based on the assignment (depend on applicable rules), ITD staff or relevant person responsible preparation participant training certificates. The complete set of description of domain activities is given in appendix A.

This system has following drawbacks.

- Difficulty of collecting of course training statistics which are necessary for the management.
- No proper way to find number of training a particular participant participated within a calendar year.
- Difficulty of handling the increasing workload.
- No way to submit online applications for efficient processing

1.3 Project Goals and Objectives

The project objective is to develop an efficient and effective web-based training management system to

- o Handle increasing work load
- Offer on line registration facilities for participants
- o Reduce paper work
- o General training statistics

1.4 Similar work and relationship to the project

At present, ITD has an Intranet, which is idle. This Intranet can be used for testing and implementing of this project.

1.5 Scope of the Project

Study of the existing system and design and implement a new web based system to improve the efficiency while minimizing the paper work. This new system will include facilities for ITD consultants and staff of the registrar to

- Develop and maintain training online
- Store and maintain the details of participants and training records.

Monitor participant's assessments for long-term course such as Degrees, Diplomas etc.

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Study of the existing system and design and implement a new web based system to improve the efficiency while minimizing the paper work. This new system will include facilities for ITD consultants and staff of the registrar to develop and maintain training only.

All the activities described in section 2 of above will be taken into the new online system. System will provide web interfaces for feeding training details and participant details to the database. Based on course details provided to the system, it will generate emails for communicating between coordinators and registrar for necessary training information.

Further it will provide the web interface for remote participants to register online for training. The system will generate and send emails to acknowledge the receipt of the application. Once participants submit their online applications, these applications will be directed to the registrar as emails. System will produce necessary course statistics for requirement of ITD management.

HTML, XML, PHP, Apache and MYSQL technologies will be used for this project.

1.6 Deliverables

A web based course management system.

1.7 Parameters for the measurement of success

Satisfaction of the clients, which will be measured by using the user comments collected through questionnaire.

1.8 Risk and Risk Mitigation Plan

Software system may be rejected due to user un-satisfaction. That can be eliminated by continuous communication with domain users.

Further it will provide the web interface for remote participants to register online for training. The system will generate and send emails to acknowledge the receipt of the application. Once participants submit their online applications, these applications will be directed to the registrar as emails. System will produce necessary course statistics for requirement of ITD management f Moratuwa, Sri Lanka.

HTML, XML, PHP, Apache and MySQL technologies will be used for this project. WWW.lib.mrt.ac.lk

SYSTEM STUDY AND DESIGN

2.1 Industrial Training Procedure

- 1. Undergraduate Division (UGS) sends names of Level 3 undergraduates who have registered for modules 3992 & 3993 to the Training Division.
- 2. Industrial Training Division informs the details of such students to National Apprentice & Industrial Training Authority (NAITA).
- 3. Registers are compiled for the 10 Departments with Name and the University ID numbers of students.
- 4. NAITA sends the vacancies available for the relevant year to the Training Division.
- 5. Vacancies are displayed on the Training Division's Notice Board. Copies are Electronic Theses & Dissertations also sent to the relevant Departments.
- 6. Director & other Senior Officers in the Training Division meet the 10 fields of Students separately to make them aware of the Industrial Training Programe & related matters including issue of Industrial Training Guidelines.
- 7. Students hand over the option forms to the Ind. Training Division through each field representative indicating the order of preferences for placement in the industry.
- 8. After completion of selection, the lists of placement send to the NAITA.
- 9. Issue Letters of placement, daily diaries, contract Forms and site forms by NAITA representatives.
- 10. Trainees send four weekly Continuous Assessment sheets (Monthly Reports) to the Training Division during the period of training.
- 11. Trainees are visited during training by departmental, NAITA & the training division staff. Supervision Reports by the visiting personnel are submitted to the Training Division.

- 12. After Completion of Industrial Training students submit the Industrial Training Report & Daily Diary to the Training Division.
- 13. Industrial Training Assessment Schedules are prepared by Training Division in conjunction with the 10 Depts. & NAITA.
- 14. NAITA sends Mark Sheets for use of the panel members.
- 15. After training assessments are completed the results compiled by the Training Division are sent to the Exams Division on a format supplied by the Undergraduate Studies Division. In addition a further detailed result sheets are compiled by Training Division that include admission number, name, place of training, period of training, date of assessment & the final grade.
- 16. Issue of Industrial Training Certificates to the students.



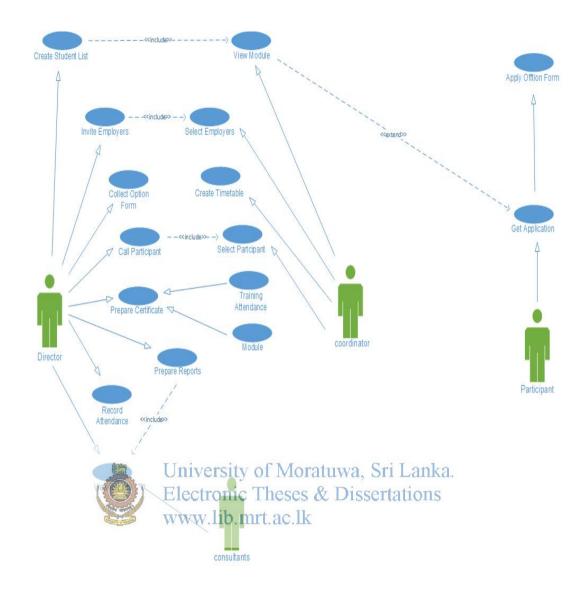


Figure 24: Detailed Use Case diagram of the existing industrial training management system

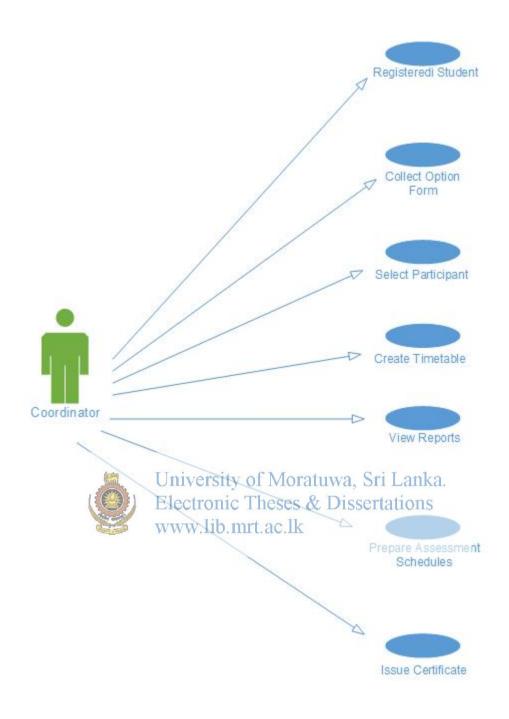


Figure 2: Coordinator Use Case

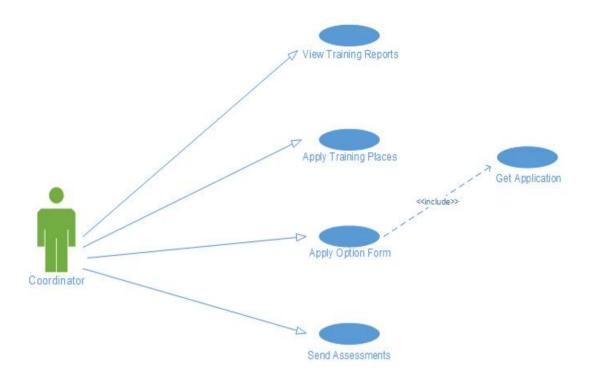


Figure 3: Participant Use Case





Figure 4: Other Manager Use Case

2.2 Design of the Proposed System

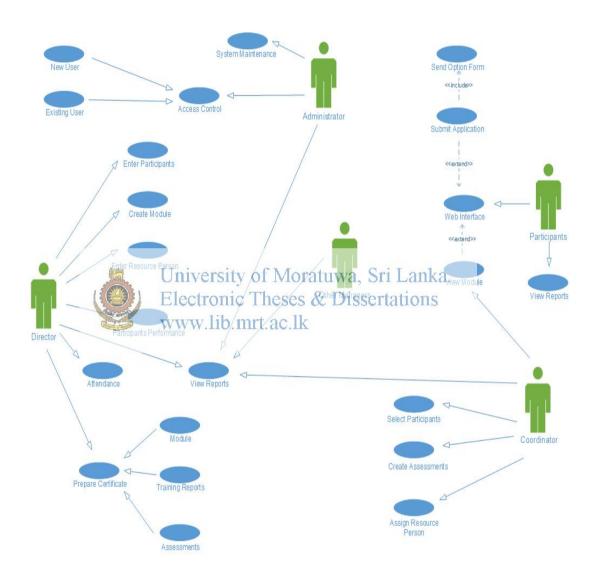


Figure 5: Detailed Use Case diagram of the proposed industrial training management system

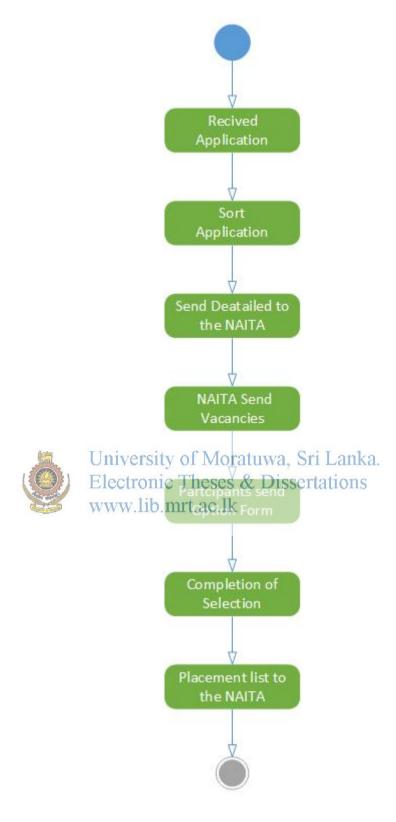


Figure 6: Activities of collecting application forms

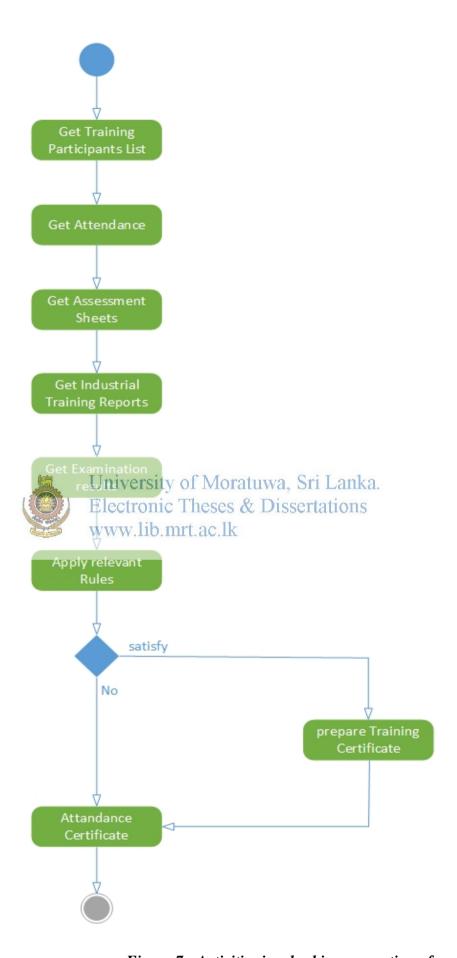


Figure 7: Activities involved in preparation of certificates

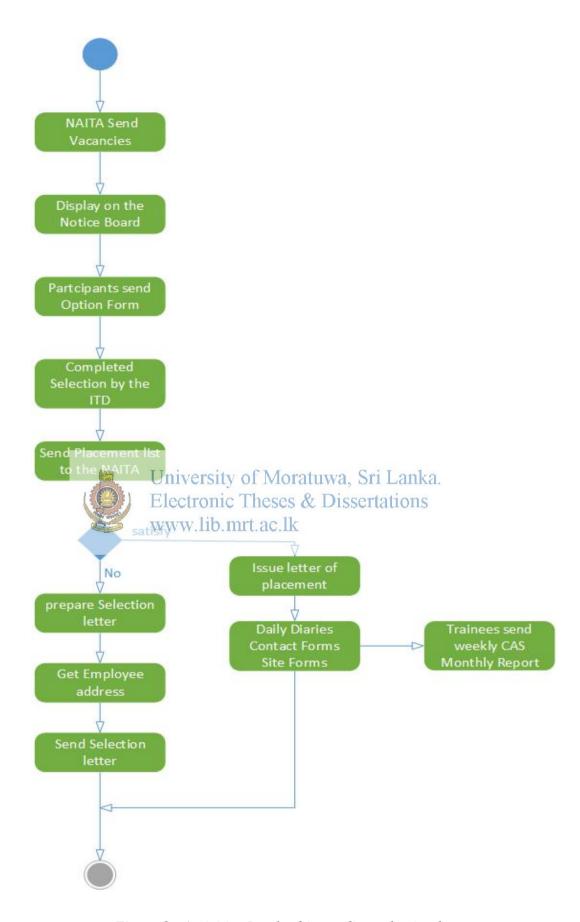


Figure 8: Activities Involved in sending selecting letter

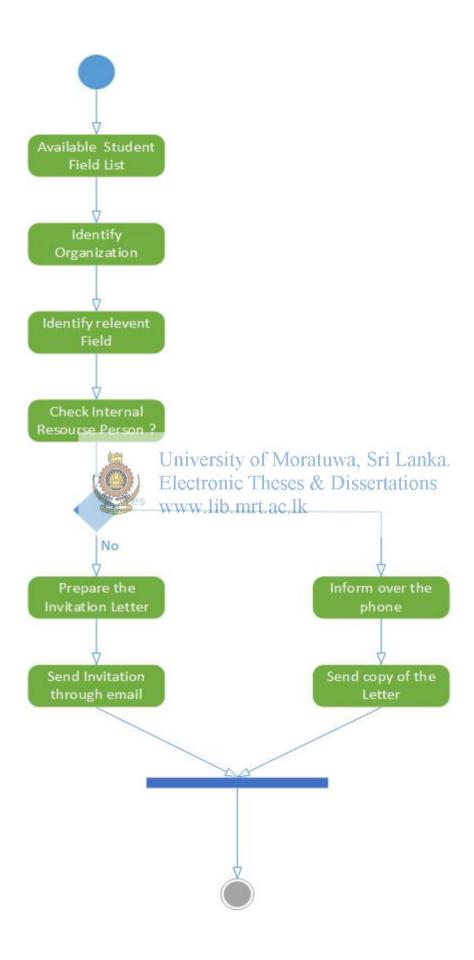


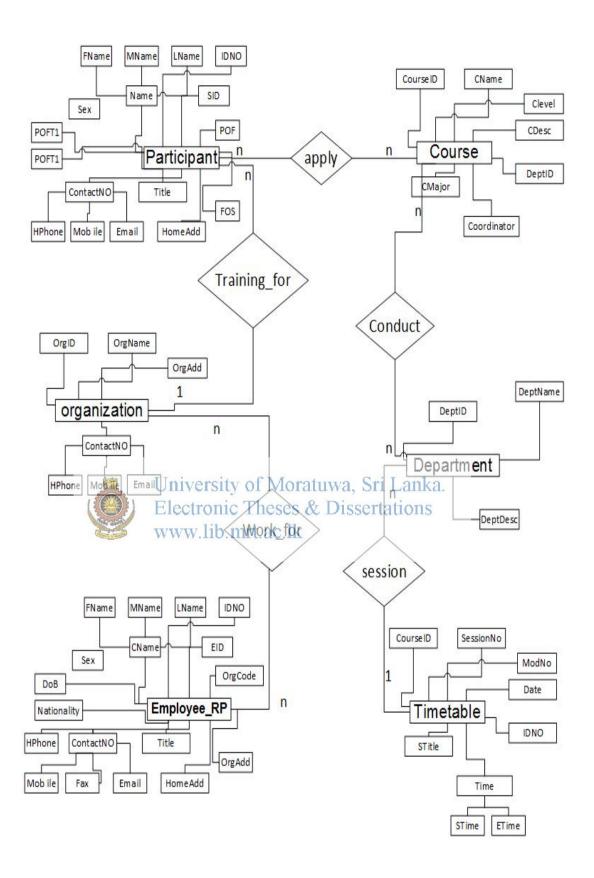
Figure 9: Activities of Inviting Employees



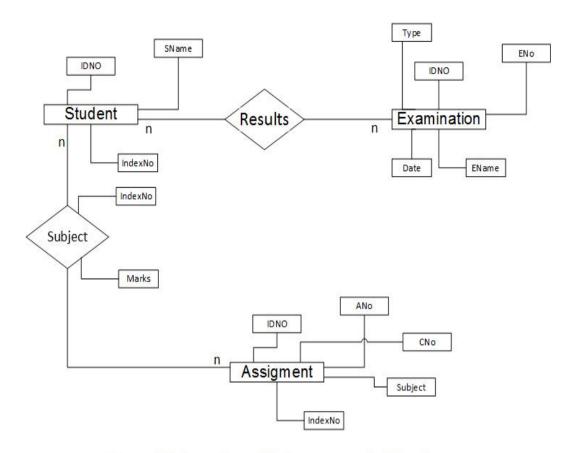
DATABASE DESIGN – ER DIAGAM

3.1 Training Management System Database





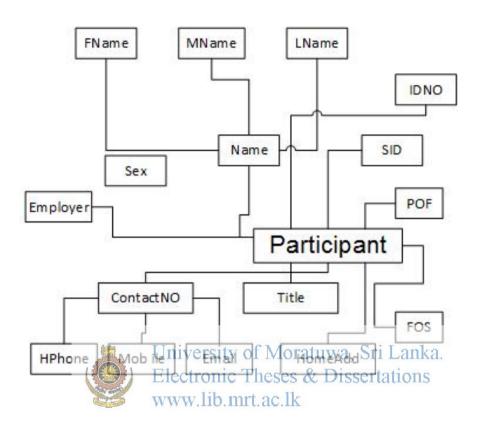
3.2 Examination Database



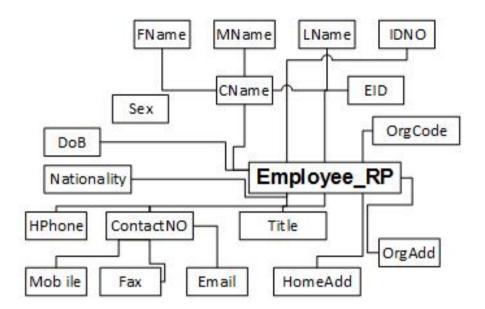


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3.3 Participant Database



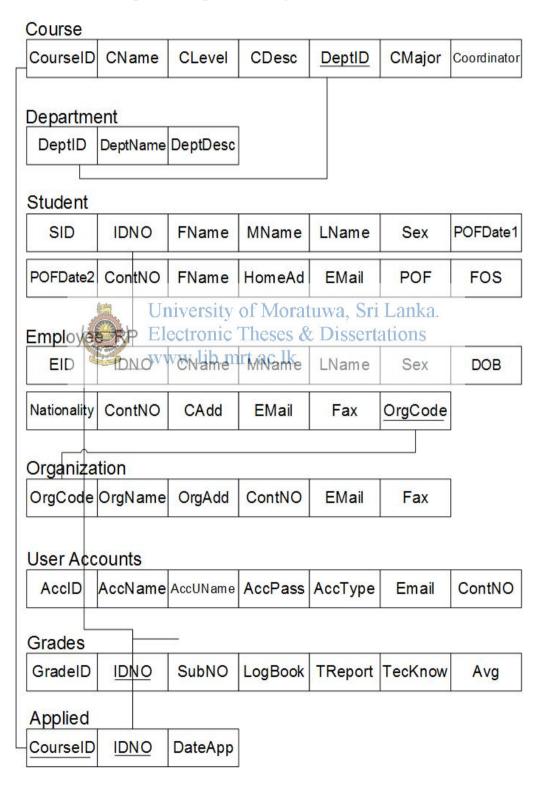
3.4 Resource Person Database



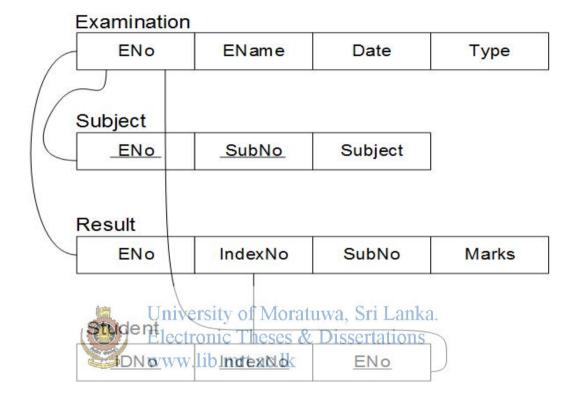


ATABASE SCHEMA

4.1 Training Management System Database Schema



4.2 Examination Database Schema



TEST PLAN

5.1 Test Cases

Test 1: Login Sub System

Test	Test	Steps needed to carried out	Expected result
No		the test	
1	Login	Open login dialog box enter	If password accepted, system
		user name and password	menu will open
2	Sign Up	Open login dialog box enter	User registration will accept,
		registration detail	if user entry is done by
			administrator or any
	Un Un	iversity of Moratuwa, Sr	authorized
3	Change Ele	Open change password dialog ctronic Theses & Disser	Allow to change password if
	password WW	box enter new password	change is done by
			administrator or any
			authorized

Test 2: Module Sub System

Test	Test	Steps needed to carried out	Expected result		
No		the test			
1	Create Module	Open create module dialog	If it is a new record, accept.		
		box enter data	Other vise view existing		
			information for editing		
2	List Module	Open list module dialog box	List all available courses		
3	Add participants	Open add participants dialog	Allow select participants for		
		box enter data	module on registration no		
4	List participants	Open list participants dialog	List selected participants in		

	box	detail

TEST CASES AND TEST RESULTS

6.1 Test Plan

Standard Black box test was applied to test the system [12] In this plan, test cases were developed to check the inputs and related outputs produced by the system. The following are the test cases planed to test the system. These test cases were developed using my previous experience and domain knowledge.

Test case 1: Login Subsystem

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Test case 2 Course Subsystem (Training Module) ertations

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Test case 3: Resource Person Subsystem

Test case 4: Participant Subsystem

Test case 5: Performance Subsystem

Test case 6: Reports Subsystem

6.2 Test Results

The test case used for testing the access control (Login) sub system and their result at the final run are given in Figure 22. Six data sets were used to test this subsystem. Number of data sets used to test each subsystem depends on their requirement, which was decided based on my domain knowledge. Test plan, test data and test results are given in appendix 5 and 6 respectively.

Menu Name: Login

Access level

Administrator User Unauthorized access

Test	Level	Input	Expected Output	Actual
Item				Output
Sign	1	User ID : bandara	Open All Menu Items	Same
In		University of Mor Password inmsa Electronic Theses	atuwa, Sri Lanka.	
	2	User ID: thushari www.lib.mrt.ac.lk	Open All Menu Items	Same
		Password : remarks		
	3	Ser ID : jagath	Login not successful	same
		Password: Password		
Sign		Click Submit Button	Show Error Messages	same
up				
		Click Rest Button	Clear form	same
	1	Data Set 1	Registration completed	same
			successfully	
			-	
		Data Set 2	Registration completed	same
			successfully	
		Data set 3	Incorrect email address	same
		Data set 4	Incorrect password	same
		Data set 5	You are not authorized	same

Data Set 1:

Initial: WMSJ

Last Name: Weerasuriya

Designation: Programme Officer

Email address: <u>saman@uom.lk</u>

Postal address: Ellpitiy

User Id: saman

Password: password

Access Level: User

Figure 250: Test case to test Login system

The flow control criteria used in program codes. Some security holes were also found. As an example, the test revealed that any user who accesses the system with user name and password were eligible to change content, in all subsystems except logging. Hence, the access Found of subsystems was further tamproved to control these weaknesses. Now administrator can controlled the user involvement of system access by assigning different security privileges to various user groups. Summary of the errors found during the test process is given in Table 2.

Test Case	What is tested	Errors Found	Action Taken
Test Case	Access Control	All users had same	Redefine the access
1	Sub system	access facility	levels
Test Case	Training Module	Any registered user can	Changed authorization
2	Sub system	modify the course	for course modification
		details	only the user who
			create training timetable
Test Case	Recourses Person	Data will not send to	Revised the code
3	Sub system	database	
Test Case	Participant	Data will not send to	Revised the code
4	Sub system	database, applets not	
		initialize error	

Test Case	Performance	Data entry field lengths	Adjust database fields
5	Sub system	insufficient	
Test Case	Reports	Any user can extract	Error is fixed changing
6	Sub system	data through SQL	code to check security
		commands	privileges of log on user

Table 1: Summary of the errors found during the system test

SYSTEM APPRAISAL

System appraisal form

A Web based Training Management System

System appraisal form – users view

For office use only

User Type	University of Moratu Electronic Theses &		
Administrator	www.lib.mrt.absec	Gue	st
Administrator has	s system administrative privil	leges	
User has privilege	es for data entry and modifica	ation	
Guest has privileg	ges for viewing data		
Please study the sys	stem carefully. Select approp	oriate answers and un	derline ction

- 1. Training Management System Interface Overall assessment
- 1.1 User friendliness

A .very Good B. Good C. Normal D. Not up to the expected level

1.2 Speed A .very Good	B. Good	C. Normal	D. Not up to the expected level
1.3 Appearance A .very Good	B. Good	C. Normal	D. Not up to the expected level
1.4 Security			
A .very Good	B. Good	C. Normal	D. Not up to the expected level
2. Login Menu Op	peration		
A .very Good	B. Good	C. Normal	D. Not up to the expected level
3. Training Mount	Electronic	Theses & D	va, Sri Lanka. vissertations
A .very Good	B. Good	C. Normal	D. Not up to the expected level
4. Resource Person	n Menu Operat	ion	
A .very Good	B. Good	C. Normal	D. Not up to the expected level
5. Participants Me	nu Operation		
A .very Good	B. Good	C. Normal	D. Not up to the expected level
6. Performance Me	enu Operation		
A .very Good	B. Good	C. Normal	D. Not up to the expected level

7. Reports Menu Operation

A .very Good B. Good C. Normal D. Not up to the expected level

8. Help Menu Operation

A .very Good B. Good C. Normal D. Not up to the expected level



7.1 System Appraisal Results

	Responses % out of a sample of 10				
Overall assessment	A	В	С	D	
	Very	Good	Normal	Not up to	Total
	Good			the expected	
				level	
1.User friendliness	0.0	30.0	70.0	0.0	100.0
2. Speed	70.0	20.0	10.0	0.0	100.0
3.Appearance	20.0	60.0	20.0	0.0	100.0
4. Security	40.0	60.0	0.0	0.0	100.0
Functionalities of menu items					
1.Login	10.0	60.0	30.0	0.0	100.0
2.Course	0.0	80.0	20.0	0.0	100.0
3.Resource person	0.0	60.0	40.0	0.0	100.0

4.Participants	10.0	70.0	20.0	0.0	100.0
5.Performance	20.0	60.0	20.0	0.0	100.0
6.Reports	40.0	50.0	10.0	0.0	100.0
7.Help menu	0.0	30.0	70.0	0.0	100.0

Table 1: Training Management System – Assessment values in percentage for User type standard

	Responses % out of a sample of 10				
Overall assessment	A	В	С	D	
	Very	Good	Normal	Not up to	T0tal
	Good			the expected	
				level	
1.User friendliness	0.0	30.0	70.0	0.0	100.0
2. Speed	70.0	20.0	10.0	0.0	100.0
3.Appearance	20.0	60.0	20.0	0.0	100.0
4. Security University of	₩99rat	u₩a, S	rP.P.ank	a.0.0	100.0
Functionalities of menufitens ronic Th	eses &	Disse	rtations		
1.Login www.lib.mrt.	acolox	60.0	30.0	0.0	100.0
2.Course	0.0	80.0	20.0	0.0	100.0
3.Resource person	0.0	60.0	40.0	0.0	100.0
4.Participants	10.0	70.0	20.0	0.0	100.0
5.Performance	20.0	60.0	20.0	0.0	100.0
6.Reports	40.0	50.0	10.0	0.0	100.0
7.Help menu	0.0	30.0	70.0	0.0	100.0

Table 2: Training Management System – Assessment values in percentage for User type Guest

SOFTWARE INSTALLATION GUIDE

This system can be installed in one method. To install the system on windows platform, you can use Installing XAMPP on Windows or Linux platforms then Web Based CMS Installer. In this installation, system will be installed on to the active partition of the system (C:\>). All other platforms it is needed to install manually.

8.1 Installing Program on Manual

Note: This installation program work in Windows and Linux environment.

For this manual installation, Apache, MYSQL and PHP installation should be completed before install the TMS system.

Copy "my web" folder of the given CD to document root of apache server.

Write click on copied my web folder and select properties and disable read only University of Moratuwa, Sri Lanka.

option.

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Copy all sub folders of Datadb folder of your MYSQL data folder. Default data folder name is data in windows platform. Open php.ini file with notepad. This is in window System 32 or WINNT folder. This depends on the type of windows configuration and version.

Find the location of SMTP = Localhost and replace Localhost with IP address of relevant SMTP mail server.

Find the location of "Keep send mail from" and delete it.

Restart Apache server and load "index .html" file at myweb folder.

Depends on the type of windows configuration and version.

To open the page of TMS, whenever you want, type in the address bar of your browser: http://localhost/tms/index.php or http://localhost/tms/adminlogin.php

USER MANUAL

9.1 Training management system overview

9.1.1 How to open Training Management System:

After installation complete, you can open TMS home page by typing relevant URL in any Internet Browser such as Internet Explorer or Firefox. Home page file name is index. html, which is at the my web sub folder of your apache document root.

URL as an Example: http://localhost/xampp/ in a apache web sever their address is "http://localhost/tms"

9.1.2 This web based Training System is most suitable for Intranet

environment.

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- ✓ record participant applications on course number and name
- ✓ prepare course timetable and assign lecturers for course session
- ✓ prepare selection letters to inform participants to attend course
- ✓ invite resource persons to conduct course session
- ✓ record participants assessment information such as examination results, assignment marks etc.
- ✓ prepare course certificate and attendance certificates
- ✓ extract course statistics

Note: This user guide assumes that the reader has a basic grasp of how to use a personal computer. Refer to the manuals supplied with your computer system for basic information on using the computer.

Details of each menu given below.

Login 9.2

9.2.1 Login

System access is given only to registered users. To obtain valid user ID and password

Please contact Administrator

Administrator user Id: administrator

Password: password

After installation, it is needed to create another user Id with administrator

privileges. This Administrator account password can be changed accessing through

this new user Id.

9.2.2 Sign UP

System access is given only to System Administrator. Hence for creating user

accounts, it is needed Administrator level access permission.

9.2.3 Change Password

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level access can changed user Administrator or any user who have administrator

passwords by using change password menu-item which is available in Login menu.

9.2.4 Remove user account

Administrator should do that using SQL commands. System does not facilitate for this

process.

9.3 **Module**

9.3.1 Create a Module

This menu allows creating a module. Once you create a module course using create

course menu, system will allows you to create timetable. For security reason, it is

necessary to create timetable by the user who created the course (Course owner)

Course Number Format: yyyy Course Number

Ex. Course Number (Module No. 3990)

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9.3.2 Select Participants for the course

"Add Participants" menu item allow adding participants to the course. However it is necessary to add participant details to participant database using "participants" menu.

9.3.3 List Course

Using "List Course" user can view course details.

9.3.4 List participants

By submitting the course number, user can view selected participants for the relevant course.

9.3.5 View Timetable

By submitting the course number, user can view course timetable

9.4 Participants

9.4.1 Entering of Participants Data

Participants data should be entered using "Participant" menu item. Organizations and their codes should be entered before entering the participant ordata.

9.4.2 Entering organizational data

Organizations should be fed using "Organization" menu item. It is recommended to use pre prepared cording system to track organization with in database.

9.4.3 Find an organization or list of organizations and their codes

Use "Find organization" menu item. Organization name or first few letters of Organization name can be used for searching.

9.4.5 Performance

This menu allows recording participant performance information such as examination results.

9.4.6 Examination details

Use "Examination " menu item to create examination with their numbers names and subjects. It is recommended to use course name as examination number.

9.4.7 Examination Marks

Use "Results" menu item to enter Examination marks. It is necessary to feed candidate index numbers before activating this menu.

9.4.8 Candidate information

Use "Candidate" menu item to feed candidate index numbers.

9.4.9 Assignment details

Use "Assignment" menu item to create assignment details including assignment number, subject etc.

9.4.10Assignment Marks

Use "Results" menu item to enter assignment marks

9.4.11Participant attendance

Use "Attendance" menu item to enter participant attendance. You can enter total individual attendance of candidates.

9.5 Reports University of Moratuwa, Sri Lanka.

This menu provides facilities for Report preparation and printing.

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9.5.1 Viewing and printing attendance report

Use "Attendance" menu item. Use print menu item from file menu for printing reports.

9.5.2 Viewing eligible candidates for awarding course certificates

Use "Certificates" menu item for this purpose. You can enforce one or more rules to check eligibility of participants.

Examination Results: Pass mark adjustable. Default is 40%

Assignment marks:

Take assignments marks considering as total marks out of 100

Attendance: Default is 80%. But it is adjustable.

Certificate generation facility is restricted only for the user who creates the examination.

9.5.3 Viewing examination results

Use "view Exam Results" menu item

9.5.4 Printing Of course certificates

Use "Print Certificate" menu item. It is needed to submit course number and select certificate type before proceeds operation. Set rules using "Certificates" menu item before start the "print certificate" menu.

9.5.5 Viewing list of courses participated by a given participant

Use "Training History" menu item for this purpose. System searches all the courses participated by the participants after giving his National Identity card number.

9.5.6 Querying using SQL/MYSql commands

Using "Create query "menu administrator can run SQL/MySql quarries to extract information from the system.

9.6 Resource Person

This menu allows operating recourse person details including data entry and university of Moratuwa, Sri Lanka.

Electronic Theses & Dissertations

9.6.1 Feeding of resource personal details

Personal details can be entered using "Personal" menu item. Relevant Educational qualifications and preferred teaching areas should be entered through "Education" menu item.

9.6.2 Removing capable areas for training and qualified areas.

When you click mouse at Subject course text box in capable areas for training, it will list all existing details. Highlight the required text line and click relevant "Remove" button.

9.6.3 Professional Qualification

Professional qualification should be entered through "Professional" menu item. Subject details should be entered before operating the "Education" menu item.

9.6.4 Viewing details of a selected Resource Person

To view details of a selected resource person, enter relevant Nic No. (National Identify card number) using "View Res. Person" menu item.

9.6.5 Entering of Subject codes and subjects

Use "Subjects" menu item. It is necessary to use cording system to detect subject under various main categories. Ex. Information technology is a main category and Internet programming is a sub category coming under IT.

9.6.6 View Entered Subject List

Use" List Subject "menu item.

9.6.7 Find suitable resource personals for selected subject

Use "Find Res. Person" menu item for this purpose. You should enter first few letters of subject name to find resources persons for the relevant subject.



APPENDIX A: FOUR - WEEKLY CONTINUOUS ASSESSMENT **REPORT SHEET**

(To be submitted after every four weeks to the Training Division. A total of 6 reports are expected by the end of training)

Refer also page 6 of Training Handbook

		- 1																	
1.	Name of Undergraduate (as																		
	appearing in the Undergraduate				• • • • •						• • • •	• • • •	• • • •	• • • •	• • • • • •	• • • •			
	Register at the University)																		
2.	Undergraduate Registration No.									-					-		-		
3.	Address during training						- 1							'n	,		1	,	
	5 5																		
			•••••	• • • • •		• • • • •					••••		• • • •	• • • •	• • • • •	•			
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	Tel. 1vo. & Email address									•••	• • • •	• • • • •	@	9	•••••	••••	•••••		
4.	Field of Specialisation (1)		СН	С	TC	CS	7	EE		EN	N	M	N	1	ER		ТТ	,	ΓL
										LIN	-	Γ	E	<u>C</u>	LIN		11		IL
5.	Training Stage ⁽¹⁾		Level	3 / 4	4 / F	Repe	eat												
6.	Overall Training Period				F	ron	n								To)			
				/			/						/			/			
	— Universit	t y (of Me	ora	tur	wa	,	Sri	Li	nk	a.								<u> </u>
7.	Name of Establishment ectroni	ic T	hese	S	& I	Dis	SS	erta	ti	911:5									
	Address www.lib																		
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	Name of Supervisor						••••												
						Τe	-1.	No.	0	Г			Т	T	T				
									L										
8.	Report for four (4) week period				Fre	om									To)			
	(Week # 1 To 24)	-	Week	#							337	eek	. 1						
			week	#							l w	еек							
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9.	Supervisor's Assessment on Under	ergra	duates	1	1													-1	
9.1	Knowledge & Skills																		
,,,	<u>.</u>	E	xcellen	ıt		(Go	od		S	atis	fact	ory	7			Po	or	
	Development (1)																		
9.2	Compliance with Company									_	_	_							
rule	es &	E	xcellen	ıt		(Go	od		S	atis	fact	ory	7			Po	or	
	standards (1)																		
	Communication & Integration		11			,	α.	. 1		C		C					D.		
wit		E	xcellen	τ		(J0	od		3	atis	гаст	ory	,			Po	or	
0.4	Company Staff (1)									• •									
9.4	Days of leave during 4 week	A	uthorise	ed						Uı	naut	thor	ise	d					
0.5	period Comments by Engineer /																		
9.3	Comments by Engineer / Officer In-																		
	charge of Undergraduate																		
1	or																		

0 C C' + N 1 0 CC' ' 1	
9.6 Signature, Name and Official	
Seal of	
Engineer / Officer in charge of	
Undergraduate	

APPENDIX B: SUPERVISION REPORT ON UNDERGRADUATE TRAINEE UNDERGOING INDUSTRIAL TRAINING

th th	ame of Undergraduate Please write the Surname in the left cage and Initials in the right cage) Held of Specialisation (1)	СН	C	CS	EE	EN	M	ME	Е	TT	TL	
03. Ti	raining Establishment											
	ace of Training											
05. U	Jndergraduate's attendance	Pre	sent/	Abse	nt/			If Ab	sent			
or	the day of supervisions (1)	of Me	Site	uWal	kSri	Auth	orise	ed	Unau	thoris	ed	
06.	Electronic 7		0.00				S	Com	ment	s		
06.1	Degree of satisfaction of mr Undergraduate on Training received	t.ac.	lk									
06.2	Initiative to acquire knowled Skills	lge &										
06.3	Demonstrated abilities to co towards Industry	ntribu	te									
06.4	Projects assigned											
06.5	Association with Company sparticipation in Social activity		&									
07. Diary												
07.1	Availability of Diary inspection (1)	for Available						Not	Not Available			
07.2	Entries made are (1)			Up	to da	ate		Not	Not up to date			
07.3	Quality of notes made in Diary (1)	n the		Very Good		Good		Fair		Poor	r	

07.4	Quality of sketches diagrams and figures drawn in the Diary ⁽¹⁾	Very Good	Good	Fair	Poor
07.5	Undergraduate's knowledge about the entries made (1)	Very Good	Good	Fair	Poor

APPENDIX C: METHOD OF ASSESSMENT OF TRAINEES BY TRAINING DIVISION

1. General

1.1 Name of the Undergraduate										
1.2 Undergraduate Registration										
Number										
1.3 Field of Specialization	СН	С	С	Е	EN	MT	M	Е	T	TL
	CH	E	S	Ε	Liv	101 1	Ε	R	T	1L
1.4 Training Stage	Le	evel	3		Level	4		Rej	peat	
1.5 Place of Training										
1.6 Name of Universiting	Mo	ratu	wa.	Sri	Lanl	ςa.				
Establishment Electronic T										
17 Location			DISS	ocita	HOII	2				
www.lib.mrt	.ac.II	<u> </u>					_			
1.8 Areas of exposure during										
training			•••••					•••••		
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								•••••		
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		••••								

2.	Training	Diary	&	Four	Weekly	Continuous	Assessment	Report	(Total	of	30
	marks)										

Comments made on the Undergraduate's performance by:	

2.1	The officers of the Training										
	Establishment										
2.2	The staff member of the										
	University / the officer of the										
	NAITA, supervising training	Tusining Diamy of	ad Daw	. 11/22	1-1 (1 4 :					
	Assessment of the content of the	e Training Diary ai	na rou	r-wee	KIY C	onum	ious				
2.3	Assessment Reports Quality of records and entries										
2.3	Quality of fecolds and entires										
			Marks	S							
ΛĐ	PENDIX D: APPLICATIO	N FOR A TRAI	NINC	CFI	TIF	ነር ለ'	TF				
	ne of Applicant (Mr./Miss./Mrs.)		.111110		XIII	ICA	112				
INan	ne of Applicant (Mr./Miss./Mrs.)										
		<u></u>									
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		•••••									
Undergraduate Registration Number: University of Moratuwa, Sri Lanka. Field of Special sation Theses & Dissertations											
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I certify that the information furnished above is true and accurate.

APPENDIX E: LEAVE ADVICE FORM

(To be sent by registered post to Industrial Training Division, University of Moratuwa when leave in excess of one week is to be taken)

wh	en leave in excess of one week is to be taken)
1.	Name of Undergraduate :
2.	(a) Training Stage (1) : Level 3 / 4 / Repeat University of Moratuwa, Sri Lanka. (b) Field Electronic Theses En issertations ER TT TL
3.	Establishment www.lib.mrt.ac.lk ached to :
4.	Exact place of work :
3.	Leave already taken during current training period :
4.	Leave now applied for from the establishment (1):
	Leave Casual Sick
	From To
5.	Has the leave been granted by the Establishment (1) YES NO
(1)	– Delete what is not applicable
	Date (Signature of Undergraduate)

- 3. This form should be perfected and sent by registered post to the Industrial Training Division on applying for leave from the Training Establishment. For applying such leave the Undergraduate should use the standard forms available with the Training Establishment.
- 2. This form is solely for the information of the University Staff who are expected to visit the Training Establishments for training inspections. It does not replace the standard leave application form and procedures of the Training Establishment to which the Undergraduate needs to adhere.

APPENDIX F: SUPERVISION REPORT ON UNDERGRADUATE TRAINEE UNDERGOING INDUSTRIAL

TRAINING

01.Name of Undergraduate (Please write the Surname in of Moratuwa, Sri Lanka. the left cage and Initials in Theses & Dissertations Electronic the right cage) 02. Field of Specialisation 9b.mrt ac lc ME ТТ TL EE 03. Training Establishment 05. Place of Training 05. Undergraduate's attendance Present/Absent/ If Absent on the day of supervision (1) Site Work Authorised Unauthorised 06. Comments Degree of satisfaction of 06. Undergraduate 1 on Training received Initiative to acquire knowledge & 06. 2 Skills 06. Demonstrated abilities to contribute 3 towards Industry 06. Projects assigned 4 Association with Company Staff & 06. participation in Social activities

07. D	07. Diary										
07. 1	Availability of Diary for inspection (1) Available Not Available										
07. 2	Entries made are (1)	Up to	date	Not u	p to date						
07. 3	Quality of notes made in the Diary (1)	Very Good	Good	Fair	Poor						
07. 4	Quality of sketches diagrams and figures drawn in the Diary ⁽¹⁾	Very Good	Good	Fair	Poor						
07. 5	Undergraduate's knowledge about the entries made (1)	Very Good	Good	Fair	Poor						

(Yes/No)

08. Has the trainee read the Training guidelines & understood contents (Objectives, 4 weekly Report, Final Report etc.)

Annex F. (Contd.)

9. Opinion of the Training Officer of the Establishment on 9.1 Undergraduate niversity of Foratuwa, Sri Lanka. Poor								
9.1	Fair	Poor						
9.2	Industrial Training Programmer. in general & its usefulness to Industry ⁽¹⁾	lk Very Good	Good	Fair	Poor			
10. A	ny specific problems faced by Train	ning Officer o	r Trainee. (2)					
	overage of the relevant Training Statelevance to field of specialisation (1)		Sufficient	In	sufficient			

12. Any other observation (2)								
10.37	I							
13. Name of academic staff member supervising								
14. Signature of academic staff member supervising								
15.0		,	I	I	,	ı	ı	1
15. Date of supervision		/			/			

- (1) Delete what is not applicable
- (2) Use a separate sheet of paper if space provided is not sufficient



APPENDIX G: METHOD OF ASSESSMENT OF TRAINEES BY TRAINING DIVISION

2. General

1.1 Name of the	he Unde	ergraduate												
1.2 Undergraduate Registration														
Number														
1.3 Field of Sp	ecializat	ion	СН	C E	C S	E E	EN	MT	M E	E R	T T	TL		
1.4 Training S	1.4 Training Stage			Level 3			Level 4			Repeat				
1.5 Place of Tr	aining													
1.6 Name Establishment	of	Training												
1.7 Location														
3.8 Areas of ex	cposure of	during												
training							•••••	•••••		•••••		•••••		
			•••••	•••••				•••••	•••••	•••••				
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		ectronic Th)isse	rtat	ions.	· · · · · · · •		•••••				
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	•••••					•••••	•••••	•••••	•••••	•••••				

4. Training Diary & Four Weekly Continuous Assessment Report (Total of 30 marks)

Comments made on the Undergraduate's performance by:					
_					
2.3 The officers of the Training					
Establishment					
2.4 The staff member of the					
University / the officer of the					
NAITA, supervising training					
Assessment of the content of the 7	Craining Diary and Four-Weekly Continuous				
Assessment Reports					
2.3 Quality of records and entries					
-					

Annex G. (Contd.)

3. Training Report (Total of 30 marks)

3.1 Areas Covered								
		• • • • • • • • • • • • • • • • • • • •						
		•••••			•••••			
3.2 Relevance to training received								
I Iniversity of Mer	atuwa Sr	Lanka						
3.3 Academic Features Electronic Theses	Excellentr	Very at 2015	Good	Fair	Poor			
3.3.1 Presentation (www.lib.mrt.ac.ll		Good						
3.3.2 Foreword / Acknowledgements (1)								
3.3.3 Contents (1)								
3.3.4 . References / Bibliography (1)								
3.3.4 . References / Bibliography (1) 3.3.5 Chapter / Section / Subsection								
3.3.4 . References / Bibliography (1) 3.3.5 Chapter / Section / Subsection planning (1)								
 3.3.4 . References / Bibliography (1) 3.3.5 Chapter / Section / Subsection planning (1) 3.3.6 Graphical, Tabular and other 								
 3.3.4 . References / Bibliography (1) 3.3.5 Chapter / Section / Subsection planning (1) 3.3.6 Graphical, Tabular and other illustrative presentations (1) 3.3.7 Appendices / Annexes (1) 								
 3.3.4 . References / Bibliography (1) 3.3.5 . Chapter / Section / Subsection planning (1) 3.3.6 . Graphical, Tabular and other illustrative presentations (1) 3.3.7 Appendices / Annexes (1) 3.3.8 Analytical and Evaluative 								
 3.3.4 . References / Bibliography (1) 3.3.5 Chapter / Section / Subsection planning (1) 3.3.6 Graphical, Tabular and other illustrative presentations (1) 3.3.7 Appendices / Annexes (1) 3.3.8 Analytical and Evaluative features (1) 								
 3.3.4 . References / Bibliography (1) 3.3.5 . Chapter / Section / Subsection planning (1) 3.3.6 . Graphical, Tabular and other illustrative presentations (1) 3.3.7 Appendices / Annexes (1) 3.3.8 Analytical and Evaluative 								
 3.3.4 . References / Bibliography (1) 3.3.5 Chapter / Section / Subsection planning (1) 3.3.6 Graphical, Tabular and other illustrative presentations (1) 3.3.7 Appendices / Annexes (1) 3.3.8 Analytical and Evaluative features (1) 			Marks					

Annex G. (Contd.)

4. Interview (Total of 40 Marks)

	Excellent	Very Good	Good	Fair	Poor
General knowledge about the					
Training Establishment (1)					
Appreciation and understanding					
of the principles learnt (1)					
General knowledge about areas					
such as, Administrative and office					
practices, Financial procedures,					
Safety requirements, Interpersonal					
relationships, Inventory					
Management, Quality Management,					
Operational Techniques (1)					
Any Other (Please State) (1)					
•					
University of Mo	ratuwa, S	ri Lanka.			
				Marks	
Kursi					
	Training Establishment (1) Appreciation and understanding of the principles learnt (1) General knowledge about areas such as, Administrative and office practices, Financial procedures, Safety requirements, Interpersonal relationships, Inventory Management, Quality Management, Operational Techniques (1) Any Other (Please State) (1) University of Modelin (1) Electronic These	General knowledge about the Training Establishment (1) Appreciation and understanding of the principles learnt (1) General knowledge about areas such as, Administrative and office practices, Financial procedures, Safety requirements, Interpersonal relationships, Inventory Management, Quality Management, Operational Techniques (1) Any Other (Please State) (1) University of Moratuwa, S	General knowledge about the Training Establishment (1) Appreciation and understanding of the principles learnt (1) General knowledge about areas such as, Administrative and office practices, Financial procedures, Safety requirements, Interpersonal relationships, Inventory Management, Quality Management, Operational Techniques (1) Any Other (Please State) (1) University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations	General knowledge about the Training Establishment (1) Appreciation and understanding of the principles learnt (1) General knowledge about areas such as, Administrative and office practices, Financial procedures, Safety requirements, Interpersonal relationships, Inventory Management, Quality Management, Operational Techniques (1) Any Other (Please State) (1) University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations	General knowledge about the Training Establishment (1) Appreciation and understanding of the principles learnt (1) General knowledge about areas such as, Administrative and office practices, Financial procedures, Safety requirements, Interpersonal relationships, Inventory Management, Quality Management, Operational Techniques (1) Any Other (Please State) (1) University of Moratuwa, Sri Lanka Electronic Theses & Dissertations Marks

5. Assessed by

Name	
Designation	Signature
6. Date	

(1) Indicate your rating by ticking the appropriate cage.

