

Design and Development of MOOC Development Monitoring System

Nurbiha A Shukor
Center for Teaching and
Learning, UTMLead
Universiti Teknologi Malaysia

Introduction

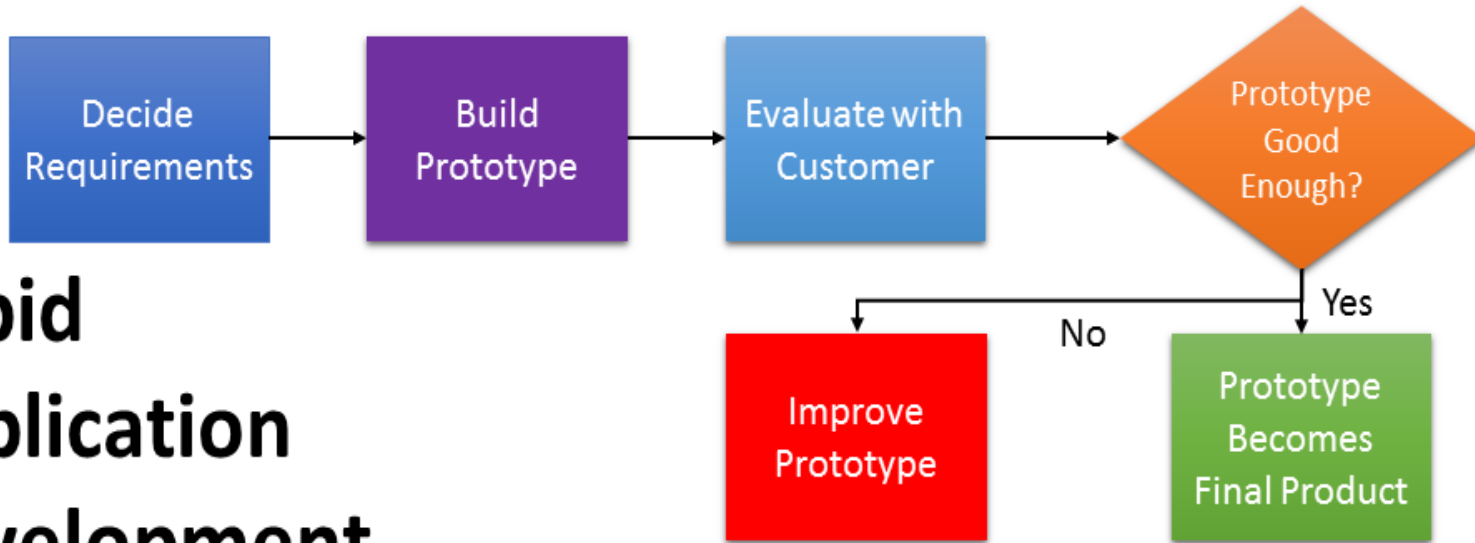
Increasing demand for flexible learning through MOOC

MOOC development is time consuming and demand continuous effort

MOOC has to meet quality standards

Self-monitoring through a systematic system can assist MOOC development process and monitor quality

Instructional System Design



**Rapid
Application
Development**

System Requirement

People

System can be used by MOOC developers (UTM staffs) and MOOC coordinating center (as the admin)

Team Management

System allows staffs to setup development team for developing MOOC

Development Monitoring

System allows monitoring of the areas that staffs have to fulfil for MOOC development

Quality Assurance

System allows detection of areas that did not meet MOOC quality as defined by the university

Prototype

MOOC Monitoring System v1.2.1

[Home](#)
[Course\(s\)](#)
[Configuration](#)
[Logout](#)

Welcome FEIRA

CONFIGURATION

MANAGE COURSE

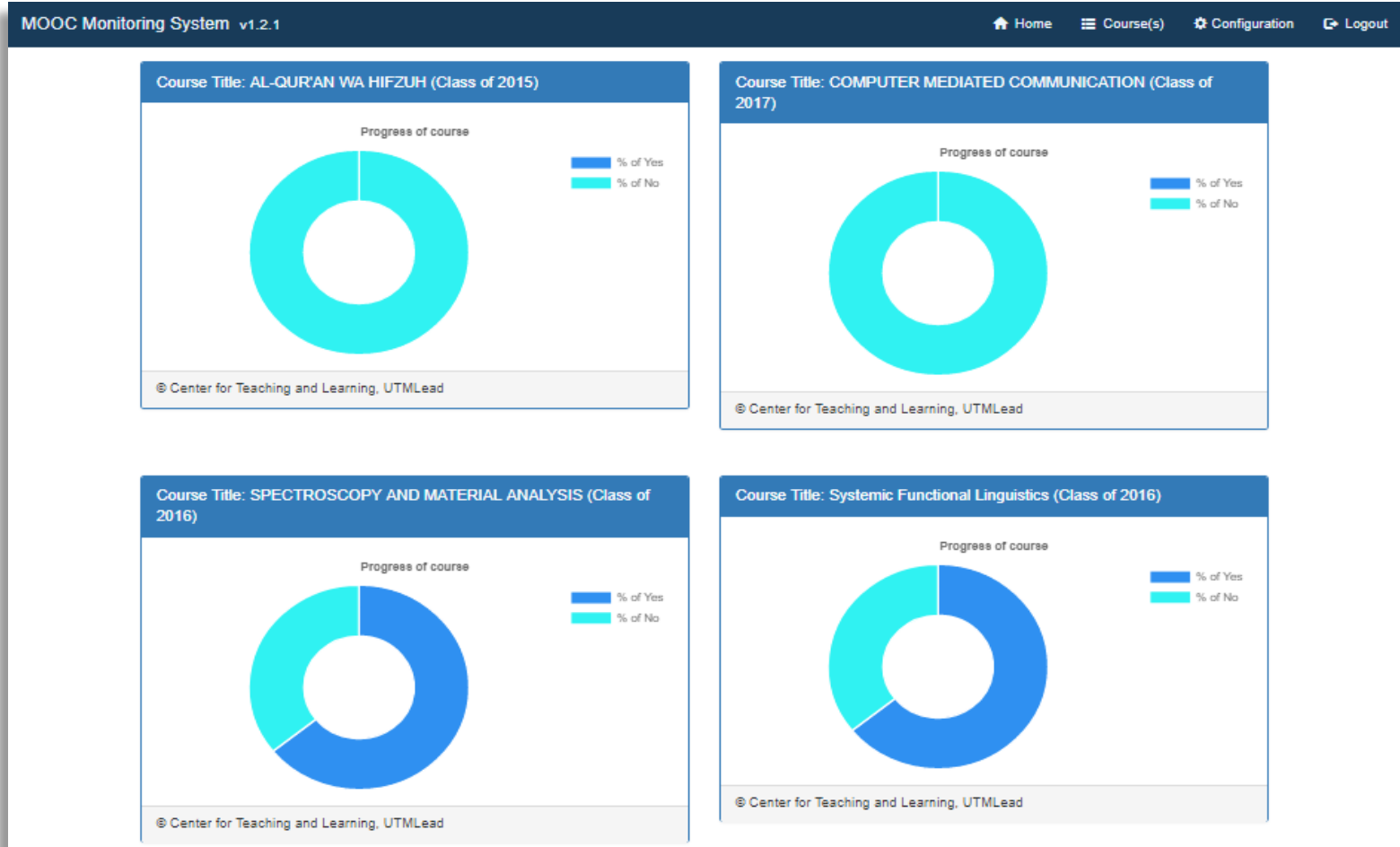
No	Course Name	Course Code	Course URL	Role	
1	AL-QUR'AN WA HIFZUH (Class of 2015)	al-quranwahifzuh	https://www.openlearning.com/courses/al-quranwahifzuh	LEADER	Manage this course
2	COMPUTER MEDIATED COMMUNICATION (Class of 2017)	ComputerMediatedCommunic	https://www.openlearning.com/utm/courses/ComputerMediatedCommunic	MEMBER	Manage this course
3	SPECTROSCOPY AND MATERIAL ANALYSIS (Class of 2018)	SpectroscopyForMateriaV2	https://www.openlearning.com/utm/courses/SpectroscopyForMateriaV2	LEADER	Manage this course
4	Systemic Functional Linguistics (Class of 2018)	SystemicFunctionalLingui	https://www.openlearning.com/utm/courses/SystemicFunctionalLingui	MEMBER	Manage this course

[Back](#)

© Center of Teaching and Learning, UTM

Staff can manage the courses for the MOOC that they developed

Prototype



Summary of progress during MOOC development

Prototype

MOOC Monitoring System v1.2.1 Home Course(s) Configuration Logout

Welcome FEIRA Course still not evaluate
[View report](#)

Course Name	Course Category
AL-QUR'AN WA HIFZUH (Class of 2015)	Life-long Learning Course

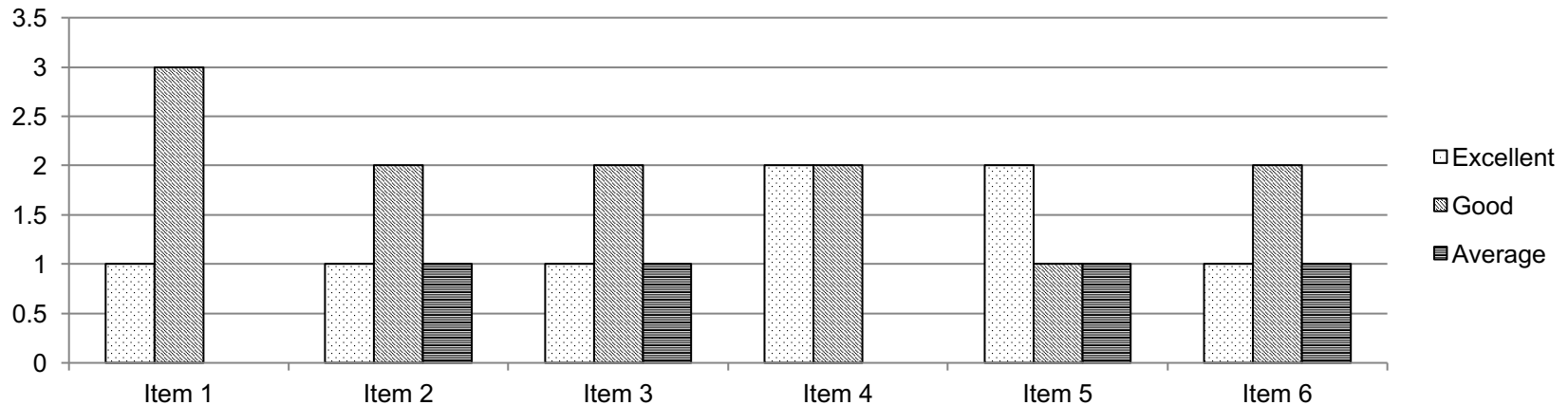
No.	Criteria	Yes	No
1	<i>Logo at IPT Landing Page</i>		
	Logo KPT	<input type="radio"/>	<input type="radio"/>
	Logo IPT	<input type="radio"/>	<input type="radio"/>
	Logo MOOC IPT	<input type="radio"/>	<input type="radio"/>
	High resolution of logo (clear logo) *(all logo)	<input type="radio"/>	<input type="radio"/>
	<i>Logo at IPT Course Page</i>		
	Logo KPT	<input type="radio"/>	<input type="radio"/>
	Logo IPT	<input type="radio"/>	<input type="radio"/>
	Logo MOOC IPT	<input type="radio"/>	<input type="radio"/>
	High resolution of logo (clear logo) *(all logo)	<input type="radio"/>	<input type="radio"/>
2	<i>Promotional Video</i>		
	Course overview	<input type="radio"/>	<input type="radio"/>
	Course outcomes	<input type="radio"/>	<input type="radio"/>
	Other relevant information (e.g.: Prior knowledge)	<input type="radio"/>	<input type="radio"/>
	Call for participation	<input type="radio"/>	<input type="radio"/>
3	<i>Information in the course information page is sufficient (before join the course)</i>		

Leader evaluate their own MOOC development progress

System Evaluation

Type	Items
Likert Scale	[1] How do you rate the easiness to navigate the system?
	[2] How do you rate the easiness to find the information in the system?
	[3] How do you rate the functionality of the system in terms of performance?
	[4] How do you rate the graphical user interface design of this system?
	[5] How do you rate the system in terms of user-friendliness?
	[6] How do you rate the operational performance of this system?
Open-ended	If you did not find the website as easy to navigate, what problems have you encountered, and where?
	Have you noticed any errors or omissions in the information provided?
	If yes, please tell us what error or omission was made, and if possible, please cut and paste the link to the page where you have found errors.
	Did you experience any technical issues with the site? If so, please provide a brief description.
	Do you understand the concepts of the system?
	Has the system satisfied your academic requirements for developing MOOC?
Do you think this monitoring system is better than the manual MOOC progress evaluation approach?	

System Evaluation



Likert Scale (1 – Very Poor to 5 – Excellent)

“how to update the progress from no to yes?”

how can i know the progress of each topic in the mooc (should have detail progress on that)

how can i calculated the total duration of my video in the moocs?”

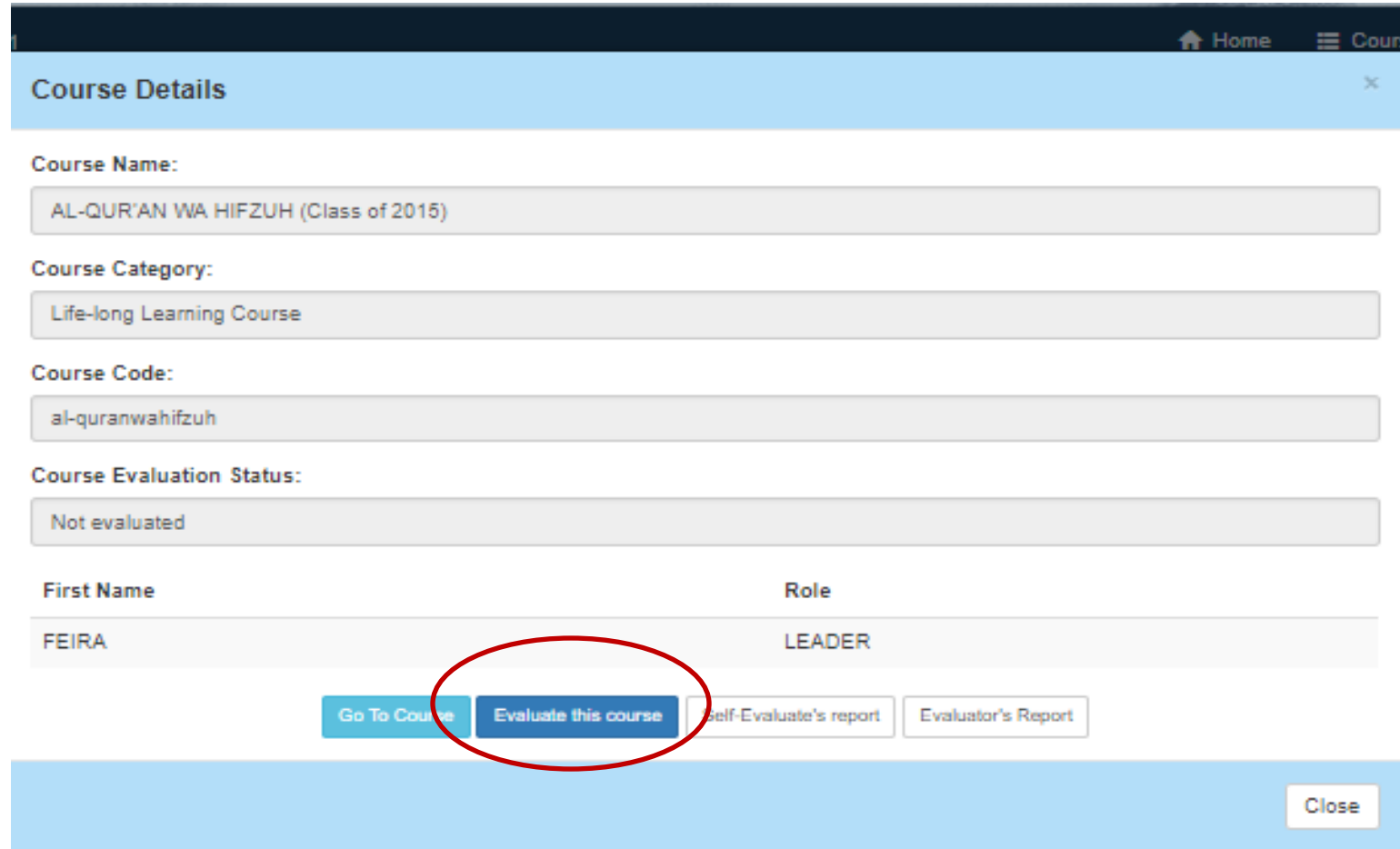
Comments from User 3

System Improvement

Center of Teaching and Learning v1.0						Home	Checklist	Logout
Welcome admin								
Course Name						Course Category		
ACADEMIC ENGLISH SKILLS (Class of 2017)						Niche Course		
No.	Criteria	0	1	2	3	4		
1								
Logo at IPT Landing Page								
Logo at IPT landing page and each IPT MOOC course (banner)								
<u>IPT LANDING PAGE</u> 1. Logo KPT 2. Logo IPT 3. Logo MOOC IPT 4. High Resolution of Logo (clear logo) *(all logo)		Landing and course page does not contain any of the elements	Landing and course page contain at least 2 of the 8 elements	Landing and course page contain at least 4 of the 8 elements	Landing and course page contain at least 6 of the 8 elements	Landing and course page contain at least all of the 8 elements		
<u>IPT COURSE PAGE</u> 5. Logo KPT 6. Logo IPT 7. Logo MOOC IPT 8. High Resolution of Logo (clear logo) *(all logo)								
2								
Promotional video criteria								
<u>Promotional video criteria:</u> 1. Course overview 2. Course outcomes 3. Other relevant information (e.g.: Prior knowledge) 4. Call for participation		No promotional video	Promotional video					
3								
Information before join the course								
<u>Information in the course information page is sufficient (before join the course)</u> 1. Course title 2. Course description / synopsis								

The role of an external evaluator was added to monitor the MOOC development quality by giving rating on the quality criteria

System Improvement



Course Details

Course Name:
AL-QUR'AN WA HIFZUH (Class of 2015)

Course Category:
Life-long Learning Course

Course Code:
al-quranwahifzuh

Course Evaluation Status:
Not evaluated

First Name	Role
FEIRA	LEADER

[Go To Course](#) [Evaluate this course](#) [Self-Evaluate's report](#) [Evaluator's Report](#)

Close

Staffs can view external evaluator report to improve their MOOC

Conclusion

- To meet the challenges of developing quality MOOC,
- The development of the UTM MOOC monitoring system requires continuous feedback from users.
- Rapid Prototyping Model assist system development while coping up with time constraint.



THANKS!

Any questions?

You can find me at

- educ.utm.my/nurbiha
- nurbiha@utm.my