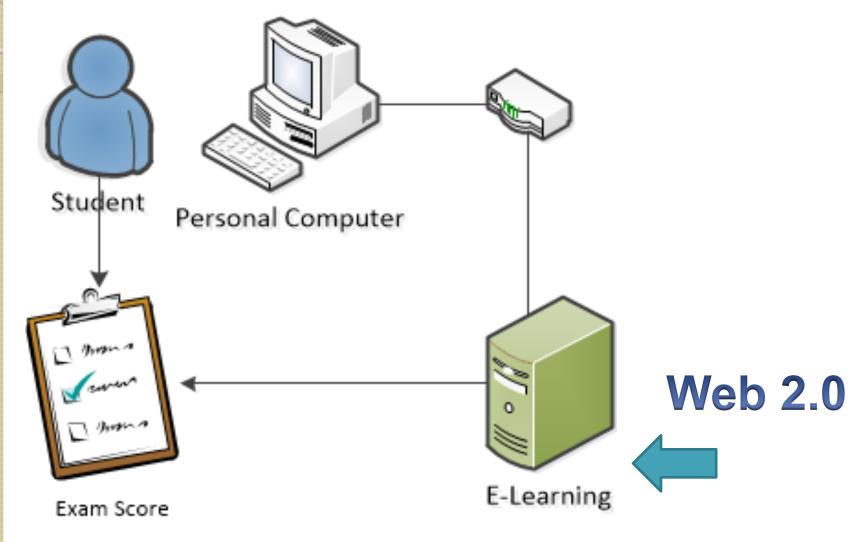
Oscar Wongso

CONCEPTUAL GAMIFICATION FRAMEWORK FOR E-LEARNING SYSTEM BASED ON WEB 2.0 TECHNOLOGIES

Outline

- Problems
- Objectives
- Overview of Conceptual Gamification
 Framework
- Demonstration
- Conclusion

Problems



Maranatha Chirstian University

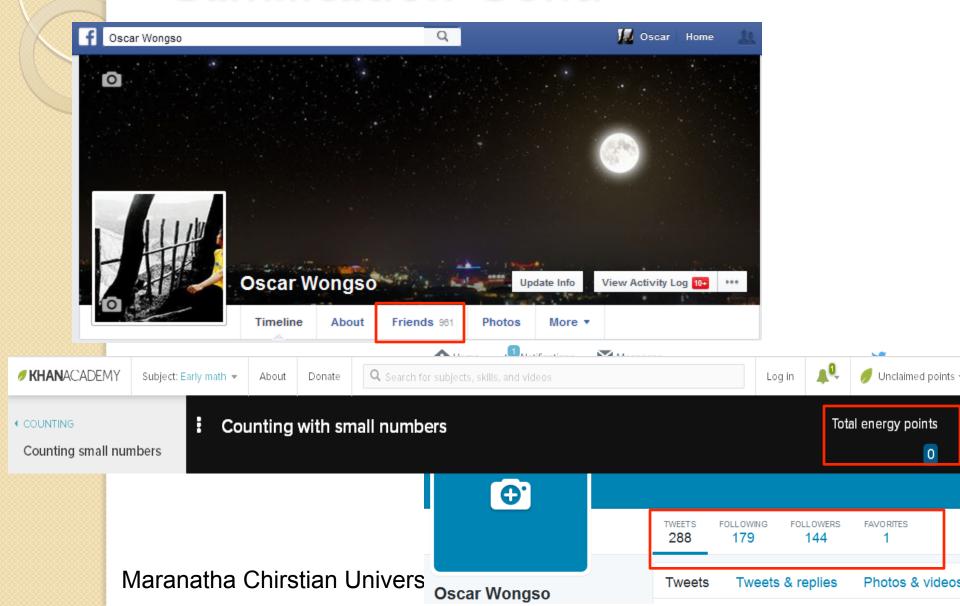
Gamification

Gamification

"The act of making non-games application into games, by implementing game mechanics in the design" (Muntean, 2011)

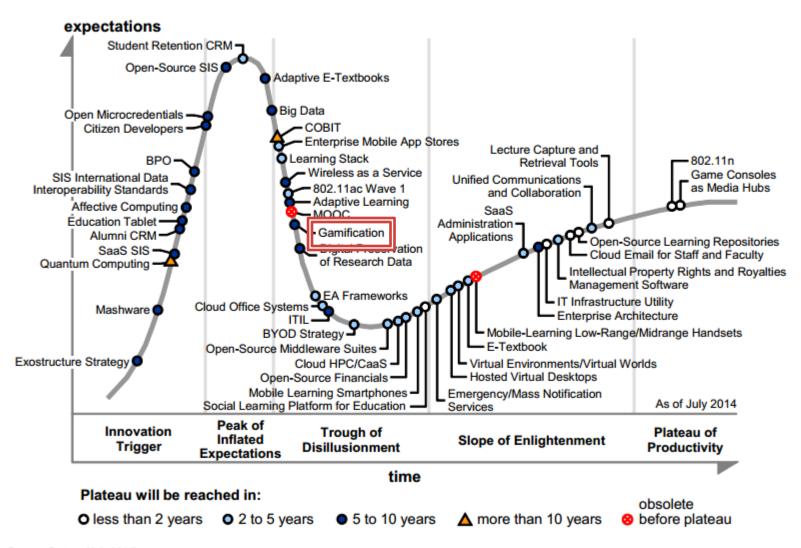
"Combine Intrinsic & Extrinsic Emotion to raise Motivation" (Viola, 2011)

Gamification Cont.



Problems Cont.

(Gartner Hype Cycle For Education 2014)



Source: Gartner (July 2014)

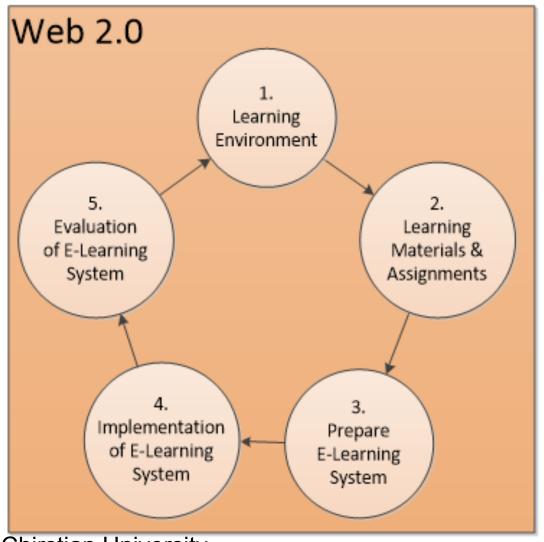
Objectives



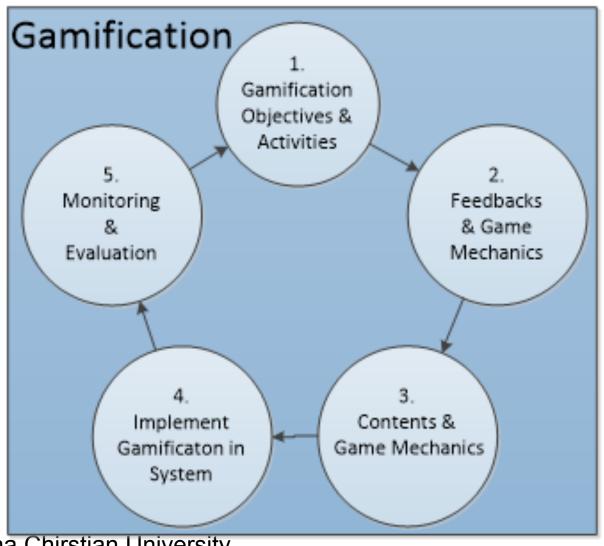
ADDIE Model



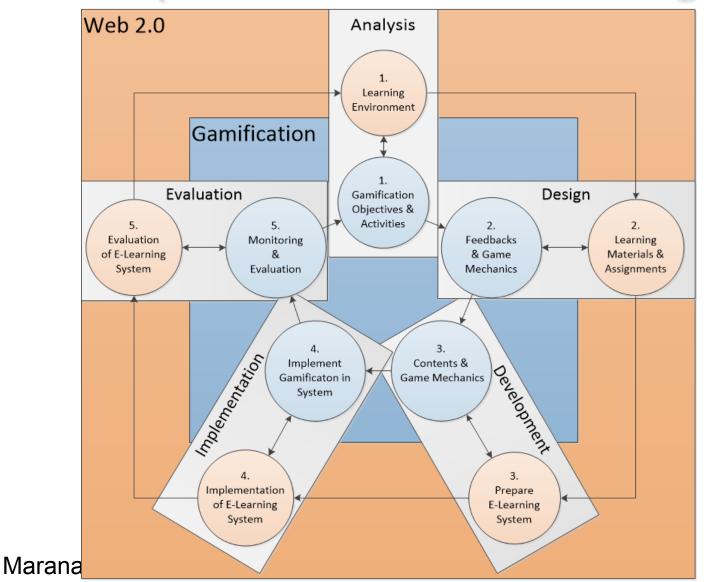
Web 2.0 Framework Analysis



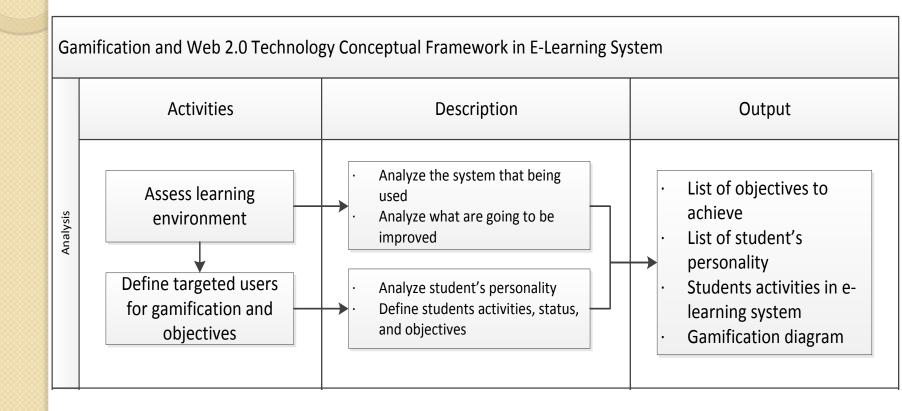
Gamification Framework Analysis



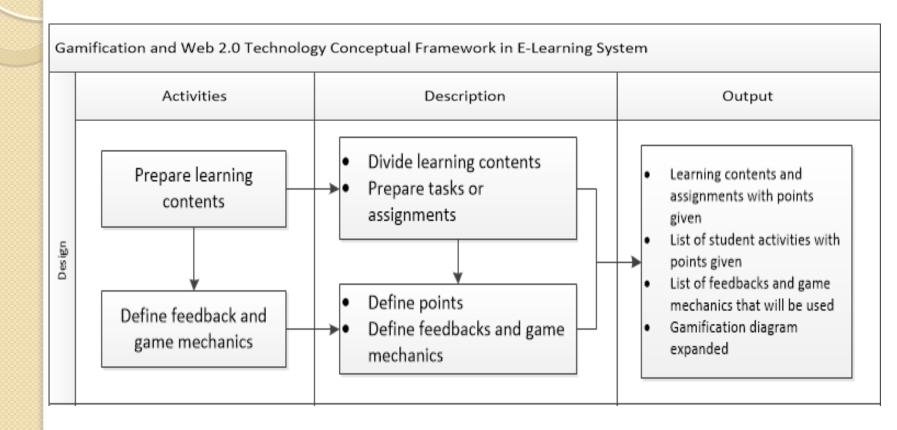
Conceptual Framework Design



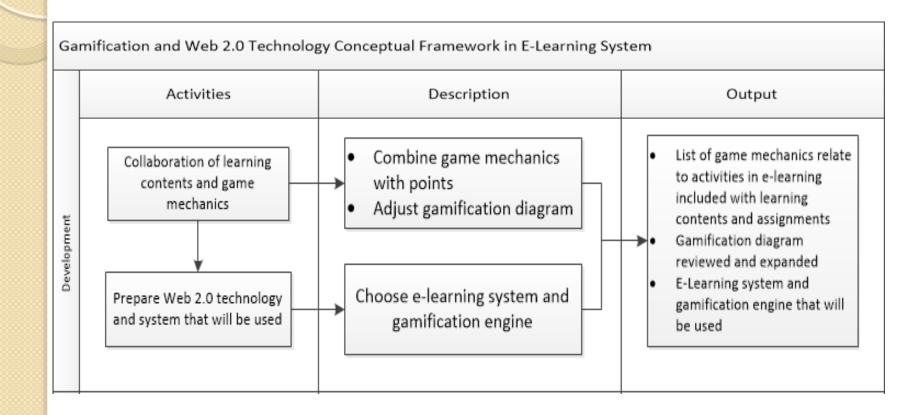
Analysis



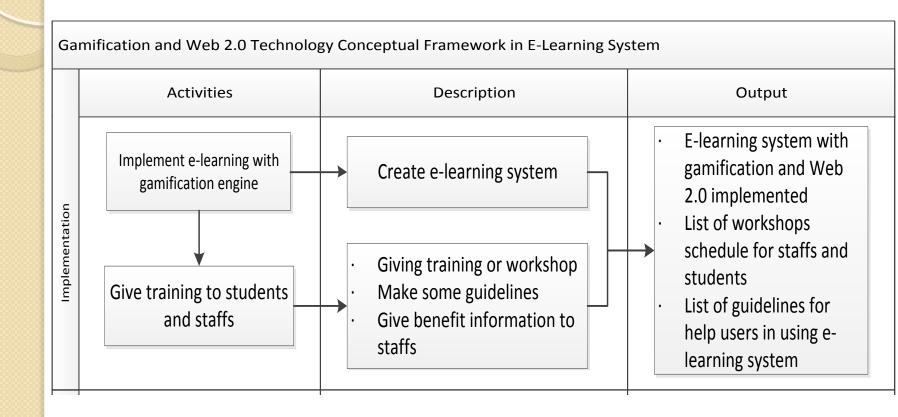
Design



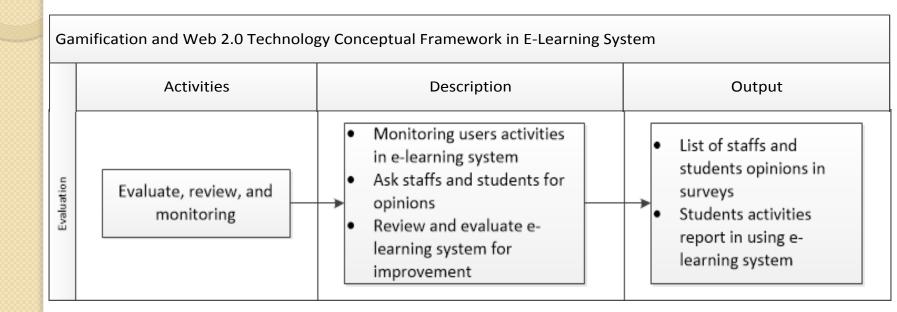
Development



Implementation



Evaluation

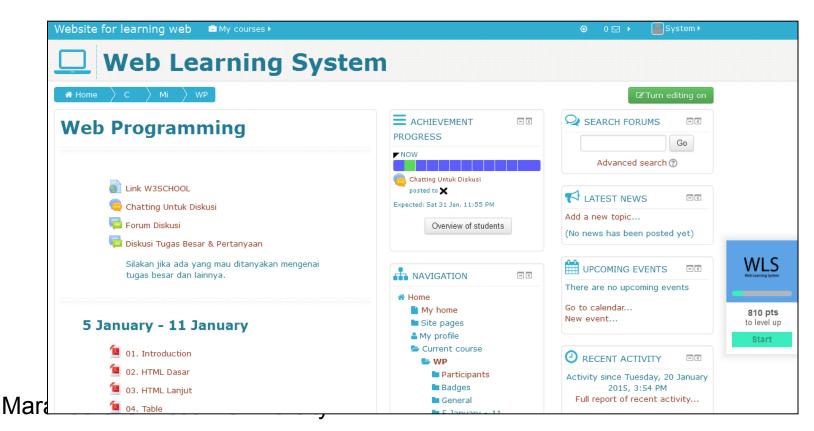


Demonstration

(WebLearningSystem.tk)

Case Study:

Faculty of Information Technology (Maranatha Christian University)



Analysis



Analysis Gamification Diagram



Design

Lesson Materials		
Introduction		
HTML Part I		
HTML Part 2		
Table		
Form + Introduction to PHP		
CSS Part I		
CSS Part 2		
Javascript Part I		
Javascript Part 2		
Jquery		
Introduction to HTML5		
XML and XHTML		

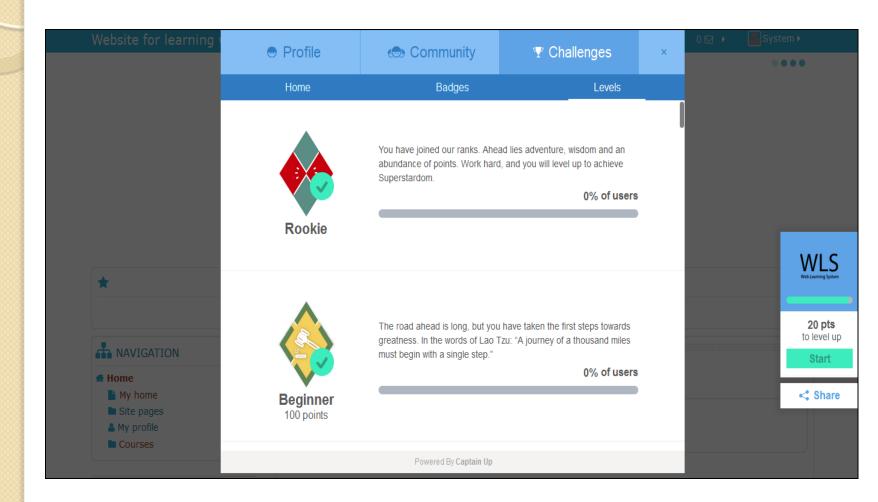
	Points
Student Activities	Given
Visit	30
Read Lesson Materials	50
Submit Assignment	40
Add or comment in forum	20
Propose new assignment	1000
Propose new lesson materials	1000

Development

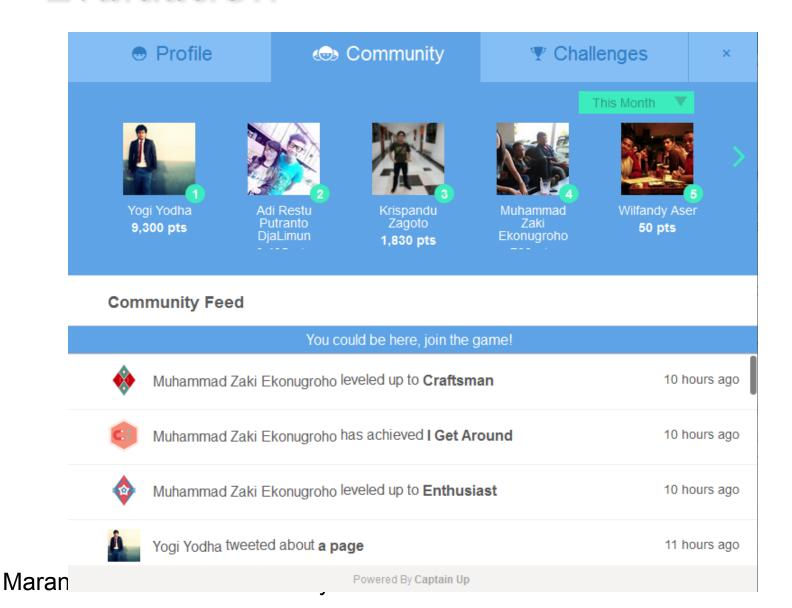
Achievement Titles Rookie	Points Required		Achievement Titles
	0	6100	Advanced
Beginner	100	7300	S pecialist
Novice	200	8800	Veteran
Apprentice	350	10000	Scholar
Enthusiast	500	12000	Virtuoso
Craftsman	700	14000	Star
Artisan	900	16000	Leader
Journeyman	1200	20000	Champion
Expressive	1500	32000	Governor
Skilled	1800	44000	Master
Adept	2100	79000	Grandmaster
Intermediate	2500	110000	Elite
Experienced	2900	220000	Guru
Proficient	3900	330000	Superstar
Professional natha Chirstian U	4900	650000	Legend

Implementation

(Moodle & CaptainUp)



Evaluation



Conclusion

Analysis

Analyze learning environment and define target user

Design

Prepare learning contents and game mechanics

Development

Combine learning contents with game mechanics

Implementation

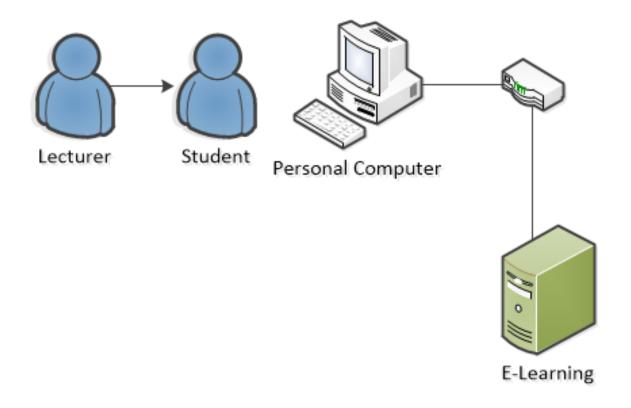
 Implement e-learning system and prepare training for users

Evaluation

 Evaluation and review of e-learning system and gamification design

Conclusion Cont.

Demonstration:



Thank You

Any Questions?