

MOOC on MOOC



Quality Attributes of a MOOC Platform

MOOC4D

massive open online courses
for development

MOOC
on
MOOC



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MOOC4D

massive open online courses
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Platform Selection

- Which platform should I use to run a MOOC?

OPENedX

 course-builder
Course Builder

 moodle

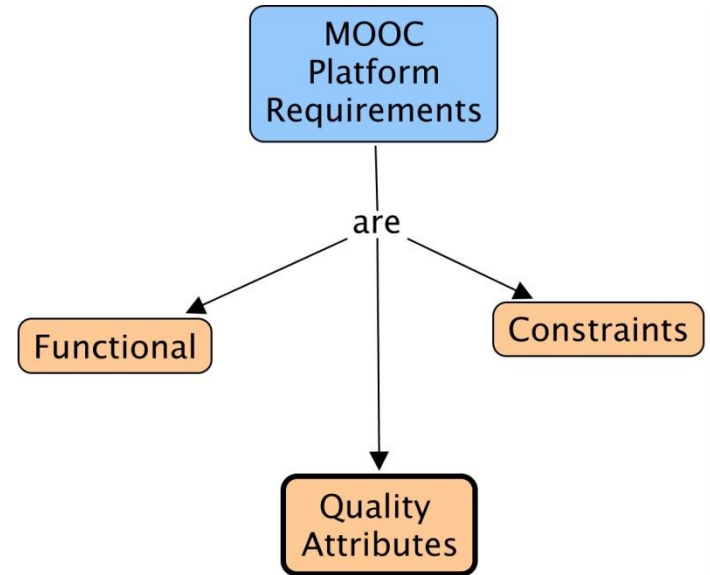
 canvas

mooKIT

Sakai

Platform Selection

- Methodology
 - Identify requirements
 - Compare available solutions

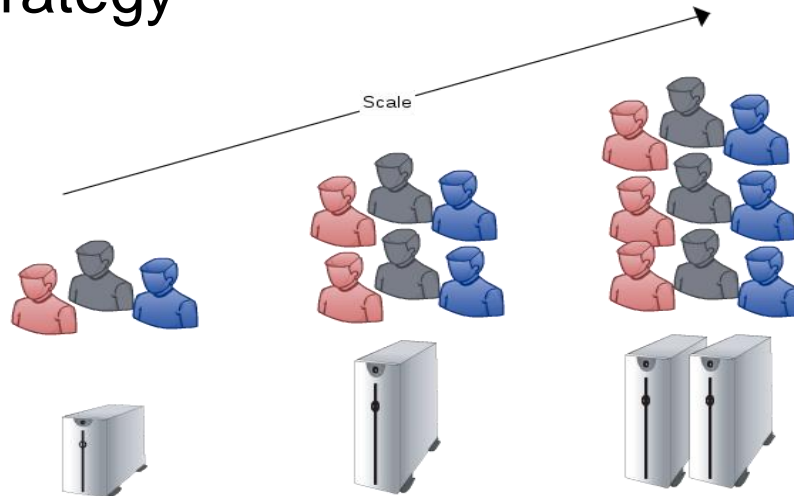


Quality Attributes

- Many quality attributes may be desired from a MOOC platform
- Focus would be on
 - Scalability
 - Usability
 - Availability
 - Performance
 - Interoperability
 - Configurability

Scalability

- Capacity : How many users can the platform handle ?
- Scalability: Ability to increase capacity using a cost-efficient strategy



Scalability

- MOOC requirement: How many students ?
 - Hard to predict
 - Registered users vs logged-in users
 - Events dependent : live sessions, exams
- Best strategy: Plan for 300,000 users
 - Won't be cost-effective as higher capacity means higher operational cost
- What do we want ?
 - Scalable platform

Usability

- Easy to use, efficient to use
- For students:
 - Course navigation
 - Access on mobile devices
 - Adaptive & responsive themes
 - Interactions
- For teachers:
 - Easy to create courses
 - Drag&Drop features

Availability

- Up-time of the service



We're Having Server Trouble

Getting you back to your courses is our top priority!

Availability

- In a MOOC platform
 - Geographically distributed users – different timezones
 - Better availability during live chat sessions, exams
 - Hard to achieve as any software is prone to failures
- How does the platform handles failures?
 - Quick fault-detection and quick fault-recovery
 - 24X7 technical support
- Overall availability would also depends upon the hardware infrastructure

Performance

- Response time
 - During chat sessions
 - During heavy load
- Low bandwidth connections
 - Low quality video streaming
- Overall performance will also depend upon hardware infrastructure
 - Power of hardware resources
 - Location of hardware resources



Loading...

Configurability

- Flexibility to configure the services
 - Change the process of content delivery
 - Branding
 - Emails
 - Restrict access

Interoperability

- Re-usability of course content
 - Import from existing platform
 - Export to standard format

Thank You