

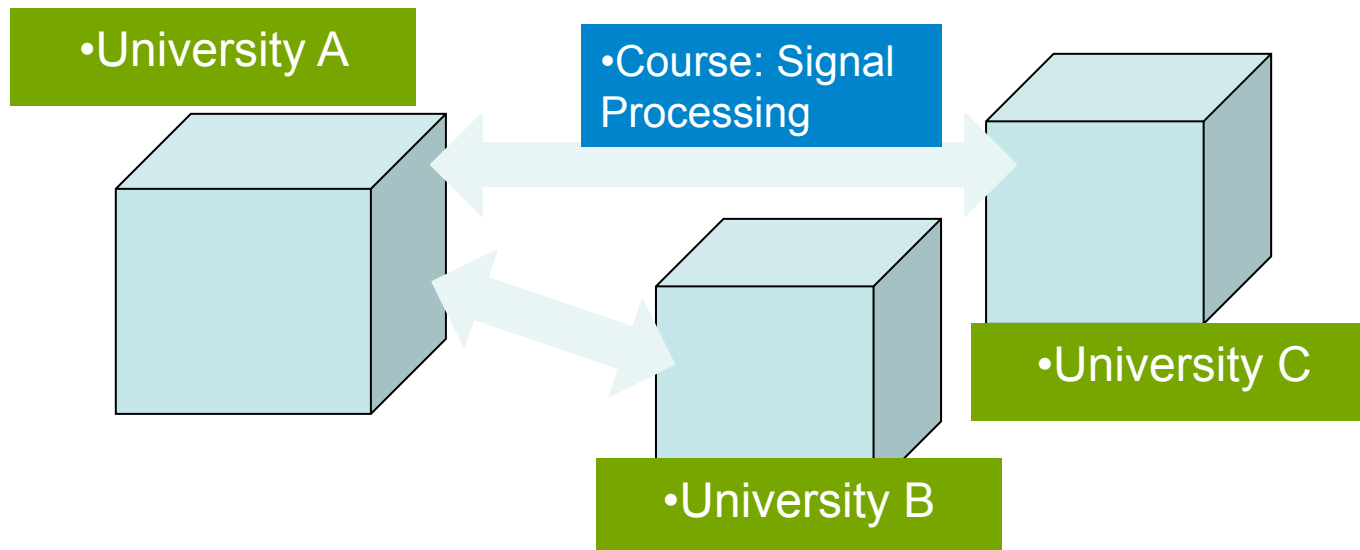
第64回 Dynamic Synchronization of Learning Contents among distributed Moodle systems

- Sharing Contents between isolated educational institutes in emerging countries, such as Indonesia, is really important issue under very limited network bandwidth.
- A proposed dynamic synchronization method solve this issue.
How does it work?



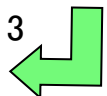
Necessities : Sharing contents

- Sharing learning contents over distributed LMSs is an important issue for building and maintaining *contents*.

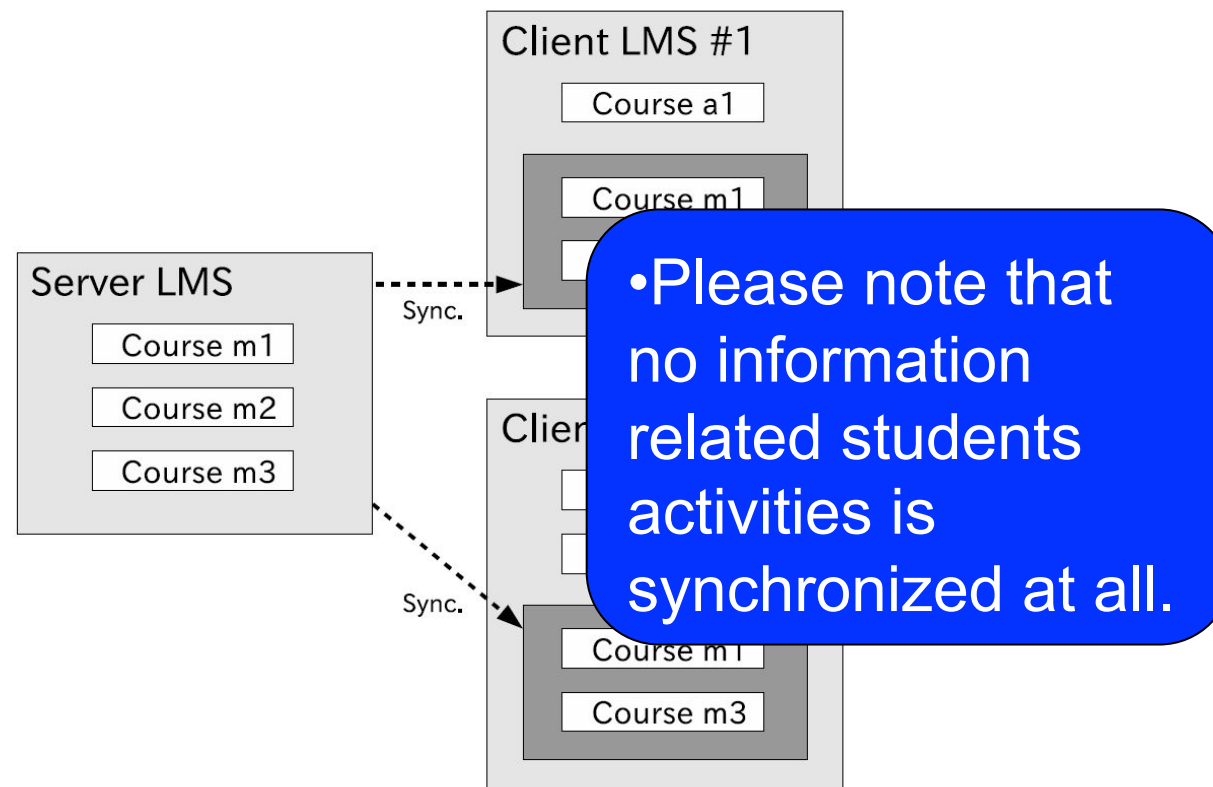


Necessities & Objectives

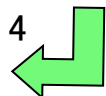
- For the countries such Indonesia, the bandwidth of internet is very limited so that data amount is essential for implementation.
- Differential updates of contents for group of LMSs are not provided by usual LMS including Moodle.
- We introduce a dynamic synchronization between distributed Moodle systems.



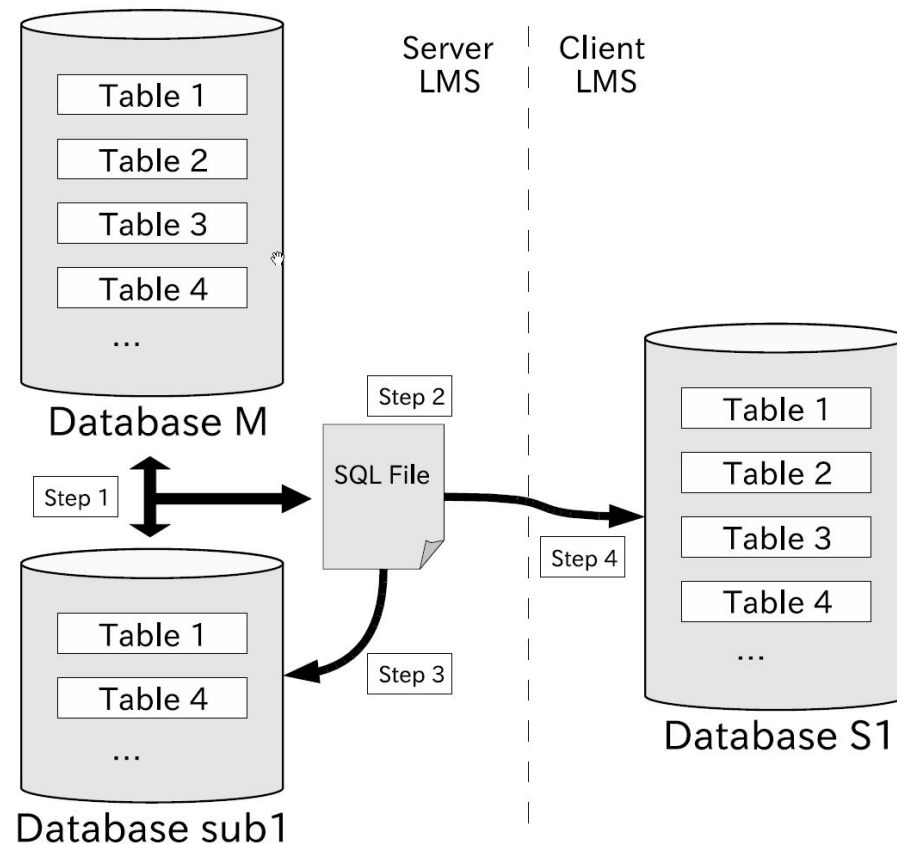
Implementation method on Moodle



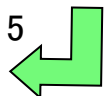
Selected course are synchronized with specified Moodles.



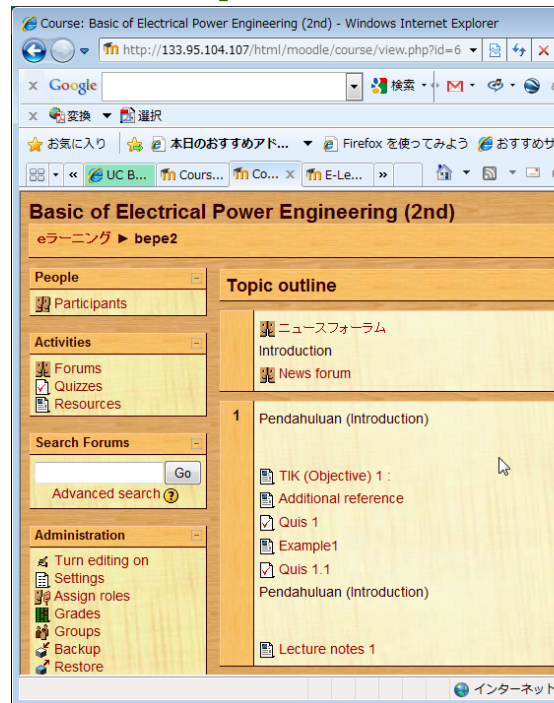
Implementation method on Moodle



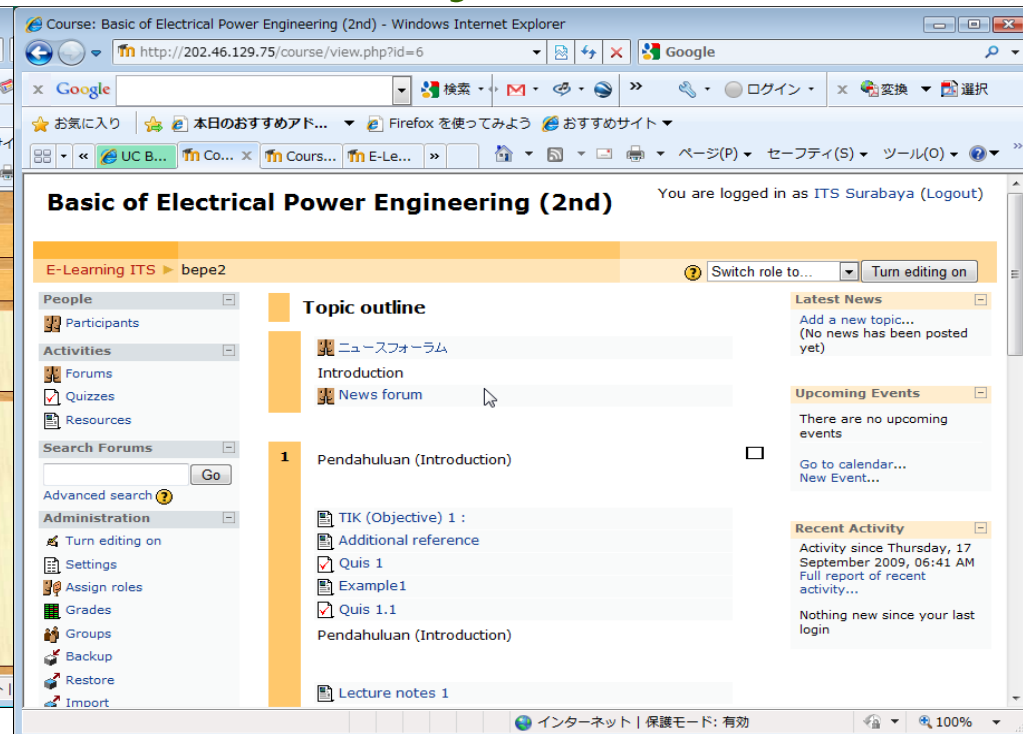
Synchronization method of contents by SQL operation.



Examples of Contents Synchronization



•Server Moodle in KU



•Client Moodle in ITS, Ind.

- Example of text synchronization between Kumamoto University and ITS

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