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General

Improved user experience

1. De-cluttered interface.
2. More consistent placement of items between tools.

Improved user workflow

1. Several tasks, particularly some bulk tasks, can be performed in fewer clicks.
Mobile-friendly

1. LumiNUS can be used on web browsers on desktop, laptop, tablet and mobile devices.

Drag-and-drop for ordering of records
1. List items can be re-ordered by drag-and-drop.

Streamline *Edit Mode* and *Preview Mode* into one view

1. Consolidated view for staff and students.
2. For staff, unpublished items highlighted with an icon.

Advanced permissions
1. Ability to grant access to individual students within the class or a group.

**Data visualization**

1. Data visualization of module and various tools.
2. Better analytics in module and tools.

**LTI**

1. Support for system-wide and module-specific LTI applications.
2. Add pre-configured tools into your module.
   (If you find any tools which help in enhancing teaching and learning in NUS, do drop us a message.)

3. Built-in LTI tools include Turnitin, Panopto.
1. Full set of RESTful APIs.
2. Powerful RESTful API documentation on Swagger.
3. Microservice architecture.
4. Fault isolation.
5. Cloud portable.

Module

Module Settings
1. Easily configured to Non-Academic Modules (formerly known as Corporate Courses).
2. Introduction of L3 flag.
3. Academic Career and Term to replace academic year and semester.
   This allows flexibility to cater for different types of course programme.

<table>
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End-of-Semester Feedback

1. Remind lecturers to provide feedback when the semester is ending.
2. Display of who have provided the feedback and via which mode.

Class Management

1. Ability to grant access to tools via the Tutorial Groups. Eliminates the need to import from Tutorial Groups to Class Groups.
2. Support for sub-groups for Class Groups.

Guest Management

1. Enhanced guest account protection with better password retrieval workflow.
**Students' left menu (tools) visibility**

1. Staff can show/hide items under Module and the individual tools on the left sidebar.

   - **Class & Groups**
   - **Attendance**
   - **Task Report**

   **TOOLS**
   - **Announcements**
   - **Chat**
   - **Consultation**
   - **Files**
   - **Forum**
   - **Gradebook**
   - **Multimedia**
   - **Poll**
   - **Quiz**
   - **Survey**
   - **Web Lectures**

**Tasks**

1. Show upcoming tasks and events like exams, signed-up consultation slots to students.
2. Staff can see a consolidated task report for the module.
Support feedback period in student submission

1. Introduction of deadline option in addition to the folder closing date. This allows the lecturer to indicate the deadline for student assignment submission.
2. With the separation of the deadline and closing date, it allows students to view comments/feedback made after the deadline and before the folder closure.
3. For turnitin submission, it allows lecturer directly set the feedback release dates as well.
Support multiple file uploads

1. Multiple file upload by drag-and-drop.
Extra Folder operations

1. Allow lecturer to move one/multiple folders to another folder
2. Allow lecturer to copy one/multiple folders to another folder
3. Allow lecturer to edit settings of multiple folders at once

Activity Log

1. Allow lecturer and student see their own activities (upload, download, delete etc) even the folder is closed.
2. Allow student to download their own submissions even the folder is closed.
3. Allow lecturer to view audit logs about student activities on submission folders

Forum

Ability to configure advanced settings in forum

1. Limit the number of replies.
2. Enforce character or word limits.
3. Indicate if a post requires student response.
Pin forum discussion threads

1. Pin/sticky important forum threads at the top.
Follow post instead of the entire forum

1. User can subscribe to the posting which he/she is interested in instead of the entire forum.
Quiz

Mark Essay by Rubrics

1. Instead of allocating marks to essay questions, you can now mark them by rubrics.

Questions

1. Drag and drop the questions into different sections of the quiz.
2. Support multiple numeric range answers for numeric fill-in-the blank questions.
3. Ability to re-use questions which created previously in other assessments or other modules.

Less restriction

1. Allow lecturer to modify questions, sections and quiz settings even after students attempted the quiz. Attempts will be re-marked automatically based on the latest modification.

Improved Statistics

1. Introduction of overall class statistics which shows the median, average, standard deviation, highest and lowest scores.
2. Visual display in the form of bar chart to indicate the correct and incorrect attempts for each of the questions so that can see at one glance which questions the students are weak in.
3. Display of point biserial correlation for each question analysis.

Gradebook

Weightage

1. Assign weightage to different graded items.
Rubrics

1. Rubrics to help students understand how their assignments are being evaluated, which help students understand what is expected of them and at which level they are performing.
2. Allow for accurate, unbiased, and consistent scoring.
3. Ability to assess student learning, especially areas like behaviour or performance.
4. Descriptive feedback to students.
5. Help students self-improve by comparing their work against the rubric.
6. Improve efficiency of rating or scoring student learning by keeping the rater focused on what is important.
Grading schema

1. Ability to map marks to grades.
This is a global grading schema that will automatically apply to all your graded items in Gradebook. If you decide not to have this apply to a particular item, you may override it under ‘Graded Item Settings’ by recalibrating the schema for that particular item.

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Learning Flow (formerly Lesson Plan)

Learning Flow is blended into the module

1. Learning Flow has been integrated more fully into the module.
2. Display of events (lectures, tutorials, labs) if the Learning Flow is created by the academic calendar. (Coming soon in Jan 2019)
   Staff need not create an individual official event for the respective week.
3. Drag and drop the activities across the weeks/topics.
4. Statistics that indicate the percentage of students who have yet access the activities for each week/topic.

Add more items to Learning Flow

1. Add any LumiNUS content to the learning activities, and better support for the flipped classroom.

Add an Event/Item

TOpic 2

Add a: Lecture
   Lab
   Lecture
   Tutorial
   Conferencing Meeting
   Other Event

Assignments
   Evaluation
   Forum Discussion
   Poll
   Quiz
   Submission

Content
   File
   Reading
   Library Resource
   Multimedia Channel
   Multimedia item
   Survey
   Weblink
   Web Lecture

2. Ability to link student submission folders in learning activities of Learning Flow.
3. Ability to link entire Multimedia Channel.
4. Ability to add LTI tools into the week/topic. (coming soon in July)

Multimedia

Ability to search for videos across the channels
1. Where text can be detected, ability to search within videos for content.

**Add from MediaWeb**

![Image of MediaWeb interface]

**Playlist**

1. Ability to group together videos based on the common theme that play in order, one right after the other, which increase one’s watch session time.
2. Auto-play.

**Poll**

**Simpler flow for poll**

1. Directly create a question without the need to create a Poll as a shell.
2. Ability to re-use questions which created previously in other survey/poll or other modules.

**Web Lectures**

**Automated publishing and self-recorded lectures**

1. Option to automate the publishing of Web Lectures.
2. Ability to create web lecture and upload self-recorded lectures.

**Removal of Multimedia Bank**

1. Multimedia Bank which used to exist in IVLE will not be in LumiNUS. However, you can still add previously added videos.

**NUS Libraries**
Eliminate the dependencies between library resources admin and staff

1. Library admin can add the library resource to a module even before the lecturer(s) create a module.

Chat

Chat with students using TeamUp

1. Set up chat groups, without the need for mobile numbers, using TeamUp. After you set up in TeamUp, copy the TeamUp link and add it to LumiNUS.

Conferencing

Conferencing with students using Zoom

1. Set up web conferencing using Zoom.
Zoom allows you to conduct online meetings and trainings with high definition (HD) video and audio and a full suite of collaboration tools, screen sharing features and breakout rooms. If you intend to schedule regular remote meetings, conferencing sessions, virtual classrooms or training webinars, then Zoom can meet your needs.

For more information on this service, please refer to this link: https://wiki.nus.edu.sg/display/ict/Zoom.

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