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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 For staff, unpublished items highlighted with an icon which tells you why the item is not visible to students.

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. Starter analytics in module and tools. (We hope to build on this.)

LTI

1. Support for system-wide and module-specific LTI applications.
2. Add pre-configured tools into your module.

3. Built-in LTI tools include Turnitin, Panopto.

**System**

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.


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.

<table>
<thead>
<tr>
<th>END-OF-SEMESTER FEEDBACK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>E. I. provided feedback on 19 May 2018 via Gradebook.</td>
</tr>
<tr>
<td>G. I. provided feedback on 4 Jan 2018 via Email.</td>
</tr>
<tr>
<td>L. I. provided feedback on 3 Jan 2018 via Gradebook.</td>
</tr>
<tr>
<td>I. provided feedback on 28 Dec 2017 via Announcement.</td>
</tr>
</tbody>
</table>

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.

Students' left menu (tools) visibility
1. Staff can show/hide items under Module and the individual tools on the left sidebar.

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.
Files

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, lecturers can directly set the feedback release dates as well (instead of setting it within the Turnitin submission folder).

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.
2. Allow lecturer to modify system generated marks for each individual question.
3. Allow lecturer to comment on students' answers on individual question.

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

<table>
<thead>
<tr>
<th>Rubric Name</th>
<th>Each performance statement represents</th>
<th>Excellent</th>
<th>Satisfactory</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A range of points</td>
<td>7 - 10 points</td>
<td>3 - 6 points</td>
<td>0 - 2 points</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quoted Examples</th>
<th>Nice and relevant Quotes</th>
<th>Just nice. More will be good.</th>
<th>Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Big Data</th>
<th>Overwhelming of data</th>
<th>Relevant data. Room for more.</th>
<th>Too little data presented</th>
</tr>
</thead>
<tbody>
<tr>
<td>86 %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add a Criterion.
1. Ability to map marks to grades.

### Gradebook Settings

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.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Mark Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>95</td>
</tr>
<tr>
<td>A</td>
<td>90</td>
</tr>
<tr>
<td>-A</td>
<td>85</td>
</tr>
<tr>
<td>B+</td>
<td>80</td>
</tr>
<tr>
<td>B</td>
<td>75</td>
</tr>
<tr>
<td>B-</td>
<td>70</td>
</tr>
<tr>
<td>C+</td>
<td>65</td>
</tr>
<tr>
<td>C</td>
<td>60</td>
</tr>
<tr>
<td>D+</td>
<td>55</td>
</tr>
<tr>
<td>D</td>
<td>50</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

[+ ADD]

[DONE]

[CANCEL]
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 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

Add a

Event/Item Name

Description

When

Where

Publish

Content

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.

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.

**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.

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**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.

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**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.

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**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/icr/Zoom](https://wiki.nus.edu.sg/display/icr/Zoom).