Moodle / O365 Integration

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# Moodle Background

Moodle (**M**odular **O**bject-**O**riented **D**ynamic **L**earning **E**nvironment[[1]](#footnote-1)) is a web-based virtual learning environment, providing administrators, instructors, and learners with a platform for managing learning content and for interaction with each other.

The core Moodle software is available under the GPL and is updated and maintained by “Moodle HQ,” a team of 30 based in Perth, Australia. Martin Dougiamas, a well-known proponent of open source software and virtual learning, is the benevolent dictator of the Moodle ecosystem. Initial versions of Moodle were made available in November 2001 and Moodle 1.0 was released in August 2002[[2]](#footnote-2). Moodle is written in PHP.

Moodle HQ owns all Moodle trademarks and licenses them to official partners in exchange for 10% royalties on Moodle-related business.

Institutions and businesses desiring to install and operate a learning system based on Moodle can use the free and open source software, but usually choose to work with a Moodle partner, paying for installation, hosting, and support.

Moodle is used by 64,000 sites and 71 million users in 235 countries[[3]](#footnote-3). In Europe, and in Spain in particular, Moodle is the “de-facto” standard learning management system. For K-12 it is the only LMS certified for official training; most of the teachers are trained accordingly; and almost every university has a large dedicated deployment.

# Why integrate with Moodle?

Increase student and faculty engagement through Office 365.

EDU space important for Office 365 because

* Students enter universities with Google IDs and ISVs cater to them by providing an LMS that integrates with everything Google. We want to change that.
* Student communities are very vocal about what they use and getting their feedback for office 365 services is a great driver for improving / innovating the service.

# Goals

* On board 3-4 big customers to use the plugin(s) we build generating new subscriptions for O365
* Make the plugin code open source for use by the Moodle Community
* Make Moodle + plugin available through Azure and potentially provide support through Open Tech

# Non Goals

* Build Moodle Apps / SDK for use on various platforms like Android, IOS and Windows

# Scenarios

|  |  |  |
| --- | --- | --- |
| Service | Scenario | Priority |
| AAD | Single Sign-On between Moodle and Office 365 | 0 |
| Calendar | Moodle block displaying user's calendar. | 0 |
| Mail | Moodle block displaying recent email. | 0 |
| OneDrive | Moodle block displaying user's files. | 0 |
| Calendar | When a new assignment is created by an instructor, an entry is added to all learners’ calendars. | 0 |
| OneDrive | An instructor can distribute a template file to all learners. | 0 |
| OneDrive | Share a file or group of files with a cohort (Moodle group). | 0 |
| AAD | Sync directories from Moodle to AAD | 1 |
| Mail | When a new assignment or course is created, send an email notification to users. | 1 |
| OneDrive | Associate a single central folder with a course for file sharing. | 1 |
| AAD | Create cohorts in Moodle based on groups in AAD. | 2 |
| OneDrive | Search all files accessible to a user. | 2 |
| OneDrive | Edit Office files from within Moodle interface. | 2 |
| OneDrive | Use content approval workflow in Moodle. | 3 |
| OneDrive | Use document versioning in Moodle. | 3 |
| Lync/Skype | Chat with users within Moodle. | 3 |
| OneNote | Create individual or shared notebooks for a course or assignment. | 3 |
|  | Analyze Moodle stats and provide visualizations. |  |
|  | Publish to Moodle from Office client apps. |  |

# Beta Customers

* Colegio Menor (Quito, Ecuador)
* UNITAR (Kuala Lumpur, Malaysia)
* INACAP (Santiago, Chile)

# Moodle Partners

* Remote Learner
* CV&A

# Design

## Work Items

TBD

## Dependencies

|  |  |  |
| --- | --- | --- |
| Dependency | Partner team | Risk assessment |
| O365 APIs released in production | ODP | Low |
|  |  |  |

# Release Vehicle

* Make Moodle available on Azure through the following channels, in priority order:
* VM depot image
* Web sites gallery
* Azure Store

# Open Questions

* Do we need any apps created in office / SP to accompany the plugins we create?
* Will users utilizing the Moodle mobile apps be able to access content in O365?
* Identify other scenarios based on forthcoming O365 APIs – spreadsheets, graph, OneNote.

1. https://moodle.org/mod/forum/discuss.php?d=27533&parent=129848 [↑](#footnote-ref-1)
2. http://docs.moodle.org/25/en/History [↑](#footnote-ref-2)
3. https://moodle.org/stats/ [↑](#footnote-ref-3)