


## Technical Documentation Platform Setup and Customization of the Circular Learning Space (CLS)




-  The purpose of this document is to provide a brief overview of the technical cornerstones of the CLS platform's setup, configuration, and customisation.

### Software Platform

#### Infrastructure Setup

- Software
  - [Moodle Workplace](#) (current version Moodle 4.5.6) commercial Moodle version available through Moodle Certified Partners and Service Providers only
- Hosting:
  - Managed service incl. hosting and administrative support (2nd line application support for customer admins)
  - Hosting includes SSL, application and server security updates, backups and consumed bandwidth
  - Server hosted within the EU (Dublin, Ireland)
  - Suitable for at least up to 70,000 active users in a year, supporting up to approximately 2,500 to 3,000 concurrent users
  - A minimum of 550GB of usable storage

#### Custom Development

-  Digital age of consent verification step embedded in the registration form/process: configuration sets the age when an individual can consent to terms and conditions and their data being legally stored and processed for a given country (If the user enters an age which is lower than the configured Digital age of consent for their country then the user is unable to proceed and register an account.)
-  Extension of core Moodle Workplace reports to include an additional field for reporting on user creation date (with the code being contributed to Moodle for inclusion in future Moodle Workplace versions)
-  Program completion tracking for custom report: report on program completions, including those for users who have since been deleted from the site (based on custom reporting DB, which is populated from CoreDB and stores the data anonymised)

- **IN USE** School Management (School Code): supports registering users to enter a school code when registering with a certain school to be assigned a job assignment (“Student”) with the correct organisation and position (i.e. within the related school).
- **IN USE** Custom Dynamic Rules condition: provides a means to issue milestone certificates when a specific number of courses out of a group of courses is met. This feature is used to account for the main project KPI “Milestone Completion” which is met under the following conditions:
  - The user has completed a particular introduction course

AND

- The user has completed a second particular introduction course

AND

- The user has completed 1 course out of a list of 18 thematic courses available through different learning plans on the LMS.

- **IN USE** Certificate Issues Reporting Source Extension: extends the reporting source “Issued certificates” to report on the basis of the certificates issued by the custom dynamic rule condition

to include Job assignment information about the user the certificate has been issued to allow teachers and partners to identify which school (a school is modelled as a “department” using Moodle Workplace’s organisational hierarchy feature) the user belongs to.

- **IN USE** Custom Course Format: allows for customisation of course headers, section elements (activities), and implements course and section progress bars.
- **DEVELOPED, NOT IN USE** Conditional access restrictions on embedded YouTube videos based on collected consent: implemented "consent button" so users can give their consent to embedded YouTube videos and make the display of YouTube videos depending on the user's consent. The user should also be able to change this consent at any time.

The customer has indicated that the consent provided for embedded YouTube videos should be separate from the standard site policy agreement.

- **DEVELOPED, NOT IN USE** Warning and Deletion of Inactive Users: warning messages are sent to users who have not visited the site for a while and if they still do not log in again, delete their account. Times, periods and actions are adjustable.
- **DEVELOPED, NOT IN USE** Custom footer displaying the project partner logos according to their partner type (footer display configurable in the site administration)

## UI/UX Customisation

- Custom design based on the provider's default premium theme (Spark), implemented through mainly custom CSS (by the provider). Site administrators can select from custom blocks (marketing grids, marketing sections, marketing cards, etc.) to build custom elements on the dashboard, custom pages, etc.
- [Language support](#) for the main project languages:
  - MWP interface language selectable by the user, currently supporting 27 languages (Albanian, Bulgarian, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italiano, Lithuanian, Latvian, Macedonian, Polish, Portuguese, Romanian, Serbian, Slovak, Slovenian, Spanish, Swedish, Ukranian, Turkish), partially language pack customization required
  - Content pages partially translated via Multi-Language Content (v2) plugin (e.g. FAQ content, Site policy agreement)
  - Learning content is offered in the same languages respectively through unique course instances.

## Organisation/Configuration

### User Organization

- Use of email-based self-registration (age minimum 13+) with confirmation email.
- Utilising several custom profile fields to collect the relevant information (e.g. Gender, Age, Nationality, etc.) and fulfil reporting requirements.
- Use of Moodle Workplace's organisation structure to accommodate different user groups (schools), providing them with their own area (also providing the main privacy feature concerning GDPR).
- Use of job assignment within the organisation structure to enable "teacher rights" to allow teachers, as well as implementation partners, to monitor students' progress and Course/Learning Pathway/Milestone completion.
- Use of dynamic rules to handle a variety of automatic tasks:
  - Allocation of registered users to specific schools,
  - Initial allocation of registered users to Introduction Learning Pathways,
  - Allocation of users to Learning Pathways based on user selection of "Leading Courses",
  - Issuing of certificates for Learning Pathway Completion and Milestone Completion.
- Use of Moodle badges awarded for course completion (to be extended and externalised in 2026-2028).

- Use of Custom Reports to satisfy KPI reporting needs as well as support teachers and implementation partners with students' progress reports.
- Data requests (Subject Access Requests in GDPR) and deletion requests are enabled for users (GDPR compliance).
- Current user base usage:
  - 1.400+ schools
  - 160.000+ users overall (envisaged to further grow 2026-2028), with 37.000+ active yearly users
  - 1700+ users with “teacher rights” (teacher as well as implementation partners)
  - 27 countries with dedicated language support (interface language as well as learning content language)

#### **Content Organization**

- 500+ overall individual courses (including 2 introductory courses, 16 thematic courses, 4 teacher courses, 4 teacher notes courses and their translated versions), envisaged to further grow and currently organised in 8 Learning Pathways (in each language)
- Content media mix includes text, images/graphics, audio, embedded video, interactive elements via H5P content, external tools (Miro templates, custom apps developed by course development partners and consultants).