PR4 Summary – Repository of Re-usable Digital Microlearning Content for VET

The aim of R4 was to design and develop a web-based application, an online repository of vocational micro-learning contents, manageable by teachers inside or outside the VET schools. The collection of reusable digital microlearning content is of great benefit to vocational education and training for many reasons, like:

- *efficiency of teaching and time savings for teachers, as the micro-learning content that has already been created and proven is available and can be reused. This means that teachers and trainers do not have to create new content from scratch every time, saving time and resources.*
- *collecting available Open Educational Resources for the selected topics.*

Development of re-usable, high quality digital micro-learning contents (MLCs)

Teachers who successfully completed the blended course in PR2 developed minicourses for their students to prepare them for the project task defined earlier During this process they collected Open Educational Resources for their minicourses and developed their own digital microlearning content.

Teachers and partner companies utilized their professional expertise and ideas when creating these microlearning contents, while the methodological expert partner, ITStudy checked the digital micro-learning contents to make sure that they are motivating and pedagogically fit for the 21st century education.

Design and development of a multilingual online repository of re-usable digital micro-learning contents (MLCs)

The web application was developed integrating the features necessary for an online repository for sharing, re-using and managing digital micro-learning contents. First, in the design phase, the system requirements were clarified, and the wireframe of the platform was defined. Based on the agreement of the partners, the MLC website was set up with these features:

- *the content is in 4 languages (EN; IT; GE; HUN)*
- *clear search categories in a dropdown menu for language, subject, age group of students, industrial sector, type of content, learning objectives.*
- *self-registration form and user profile*
- *properly structured webform to upload content*
- *a clear user guide (How does it work?)*

Due to this design, the MLC web-application enables users to:

- *browse for free useable micro-learning units*
- *carry out a precise search for microlearning contents from multiple aspects*
- *download or share and reuse MLCs in 4 languages*
- *do self-registration easily*
- *upload content (own or published as an OER) in pre-defined formats*

The graphical design of the MLC site was in line with the project image elements and reflects its purpose. User experience features ensure easy navigation and profile management as well as simple handling of functions. The first set of micro-learning contents uploaded were those developed or collected by VET teachers completing the course in PR2.

Publishing and testing the MLC platform

The MLC platform was tested for its operation and possible bugs first by the partners and then by a number of VET teachers in each language. Test users: 12 from Germany, 3 from Italy and 10 from Hungary were asked to try every function the website allows and assessed its quality and useability by responding an online questionnaire developed by DEULA, the leader of this work package. Based on the feedback received the online repository of micro-learning contents was reviewed and made open for the public.

A key benefit of the MLC repository developed in the VETPROFIT project is the collaboration of five partner educational institutions that pool their expertise and resources to create and share high-quality learning content. This co-operation created a comprehensive and up-to-date repository that improves the efficiency and quality of vocational education and training. To access the repository, use this LINK: https://mlc.itstudy.hu/en or /hu, /it, /en.

Project basics

Title: Multidisciplinary, Project-based Digital Learning Content for VET
Acronym: VETPROFIT
Project ID: 2021-1-HU01-KA220-VET-000025350
Partner countries: Germany, Italy, Hungary
Coordinator: iTStudy Hungary Ltd.
Duration: 01 November 2021 – 31 October 2024.
Target groups:
VET- schools' leadership
VET teachers/trainers
Companies (Agriculture and IT sectors)
Beneficiaries:
 VET students
 Employers

Aim of the project

The aim of the project is to reflect the needs of the labour market in vocational education and training, to prepare teachers to work with companies to develop project tasks for students and future employees to solve real problems proposed by them. To achieve this objective, the partnership:

Objectives

- *review the curriculum, learning materials and teaching methods used in the initial training of IT and Agricultural sectors in the partner countries;*

- *train VET teachers of these sectors about the project method, related digital tools, innovative assessment practices and digital content creation;*
- *assign real-life project tasks for VET students, in close collaboration of teachers and labor market representatives;*
- *create a repository of project-based, re-usable, high-quality, motivating digital learning contents with an interdisciplinary approach;*
- *prepare students for successful project implementation by designing and delivering mini-courses for them;*
- *create a model to be published as a guide for teachers of other VET institutes.*

Partners

iTStudy Hungary IT Education and Research Centre. Hungary

DEULA - Nienburg GmbH, Germany

Fondazione ITS – JobsAcademy, Italy

Association of Hungarian Horticultural Vocational Training Institutions, Hungary

Premontre Vocational High School, Technical School and College, Hungary

Discovery Center Nonprofit Ltd., Hungary