D3.5 Report on ECO social network integration features

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Elearning, Communication and Open-data: Massive Mobile, Ubiquitous and Open Learning

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Abstract	This document describes how integrations with social networks are being developed in ECO platforms. With these new features, participants will be able to share results and other contents through Facebook, Twitter, Google plus.
Keywords	Technology, platform, social network, integration, sharing, facebook, g+, twitter

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Table of contents

1. Introduction 5
2. Requirements 7
3. Description of integration 9
3.1. EcoPortal 9
3.2. ECO MOOC platforms integration 12
WeMOOC: 12
OpenMOOC: 13
iMOOC: 21
OpenEdx: 24
LogiAssist: 27
ARLearn: 31
4. CheckList Requirements/Integrations 32
5. Conclusion 32

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Executive Summary

This document describes the improvements that have been made to each component within the ECO architecture with regard to social features required to support creation of sMoocs.
A general user profile has been created on EcoPortal and its data is also available on each connected platform. The user's dashboard on EcoPortal provides quick access to each enrolled course and provides progress information.

Social Sharing have been implemented on EcoPortal and most platforms.

A total of 15 social requirements that were proposed by WP2, like activity streams, microblogging karma and badges, were analysed and when technical possible implemented on the MOOC platforms. This deliverable reports on the implementation of each of those requirements.

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1. Introduction

In order to comply with the social requirements that our pedagogical work package (WP2) set some months ago in the deliverable 2.6 “Web 2.0 requirements analysis”, the ECO platforms providers have analysed and developed a series of social features, so that MOOC creators will be able to adjust their courses following the pedagogical model set in ECO and create authentic sMOOCs.

ECO platforms now offer new ways of communication among the participants of our MOOCs by using the new social features. In this way, the course designers will be able to engage participants to the social interactions and provide them with richer and more stimulating learning experiences.

ECO platforms also offer new ways of increasing motivation such as karma, reputation and badges features.

In section 3 of the present document, WP3 aim to describe how each ECO platform and the ECO Portal comply with the fifteen social requirements set by WP2, which are listed and descripted in section 2.

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2. Requirements

From the pedagogical framework, the essential requirement for achieving a real sMOOC is to provide a networked learning, interaction, communication, dialogue and peer feedback.
For that, in the section 8.1 "Affordances for social learning and gamification" of the deliverable D2.6 "Web 2.0 requirements analysis", the WP2 listed a series of requirements that our ECO platforms must comply:

Req. code	Short Description	Description
REQ1	Rich user profiles	The learner is the owner and decides what information of the profile is made available to whom. ● A template for a rich user profile, containing at the minimum the demographic details, such as name, age, gender, avatar or picture, but also interest, educational background, expertise, occupation, context information, communication style preferences and learning ambitions, and ways to contact them. ● A mechanism to import profile information from social network sites, like Facebook, LinkedIn. ● A mechanism to view profiles of other learners. ● An option to see who is enrolled in the course. ● A mechanism to collect contact, at a minimum displaying name, date, and contact details, and preferably a picture. ● Social connections - follow (like Twitter), friend (like Facebook), circle (like Google+). ● A record of historical actions, gathered in an activity stream that can be filtered on date and person, and is localised to context. ● Own content published could also be aggregated in the profile page.
REQ2	List of members	An option to see who is enrolled in the course. ● Search for people based on several criteria, such as name, similar or same course, location, interest. ● Geo-localisation to assist in finding people near them.
REQ3	Activity stream	A record of historical actions, gathered in an activity stream that can be filtered on date and person, and is localised to context.
REQ4	Personal Blog	A personal writing space (blog or equivalent) is required to allow learners to create contributions. A course blog can be used in addition, but learners should have access to a personal blog as well. When learners already have an active blog outside the platform, they should be able to integrate that via a blog aggregator or RSS feed. Commenting and rating/linking should be possible.
REQ5	Course Blog	A course blog can be used, when the design of the course asks for it, but preferably learners should be allowed to use their personal blog, either internal in the platform or external. ● Personal blogs should be aggregated into the course blog. ● A blogroll should be used to list all blogs. ● Blogpost can be filtered on topic, poster and date. ● Comments to blogposts should be possible.

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REQ6	Microblogging	Microblogging (like Twitter) or updates (like Facebook or Google plus). Again, preferably learners can integrate existing tools, for example via a Twitter feed or RSS feed. ● If microblogging is not possible within the platform, a good integration with at least one of these networks is desirable.
REQ7	Wiki	● Wiki to allow joint production and collaboration. ● Depending on course design a course wiki or an assignment wiki.
REQ8	Group creation	● Possibility for group creation by participants or by course organizers to support group tasks. ● Joint group area populated with communication and collaboration tools. ● Search for people based on several criteria, such as name, similar or same course, location, interest ● Geo-localisation
REQ9	Evaluation	● Annotation all kinds of activities, resources, people/contacts, contributions (blog, wiki, etc) own and made by others. ● Rate or like all kinds of activities, resources, people/contacts, contributions (forum, blog, wiki, twitter, etc) ● Tag all kinds of activities, resources, people/contacts, contributions (forum, blog, wiki, twitter, etc) ● Bookmark all kinds of activities, resources, people/contacts, contributions (forum, blog, wiki, twitter, etc)
REQ10	Sharing	● Share all kinds of activities, resources, people/contacts, contributions (forum, blog, wiki, twitter, etc) to others e inside and outside the platform. ● Comparable to Add it icons. ● Recommending all kinds of activities, resources, people/contacts, contributions (forum, blog, wiki, twitter, etc) to others e inside and outside the platform. ● Applies also to resources, people, contributions created outside the platform and/or MOOC, thus importing.
REQ11	Content syndication	● Option to import RSS feeds, twitter feeds. ● Blog aggregator.
REQ12	User dashboard	● User dashboard: to aggregate their publications or those of the people that they follow. Own content published could also be aggregated in the profile page. ● Aggregating and organising annotations, ratings, likes, bookmarks.
REQ13	Progress bar	A progress bar is visible to all students during the course. Course designers can assign percentages of completion for each unit and activity, so users can monitor their progress in a motivational way.
REQ14	Achievement/badges system	Learners earn badges by completing certain units or doing certain activities, or depending on grade. Once the learners obtain a certain number of basic badges/achievements they can opt to get a non-academic but official certificate of successful course completion.
REQ15	Karma/reputation system	A level or karma system that allows learners to gather different user karma and overall points.

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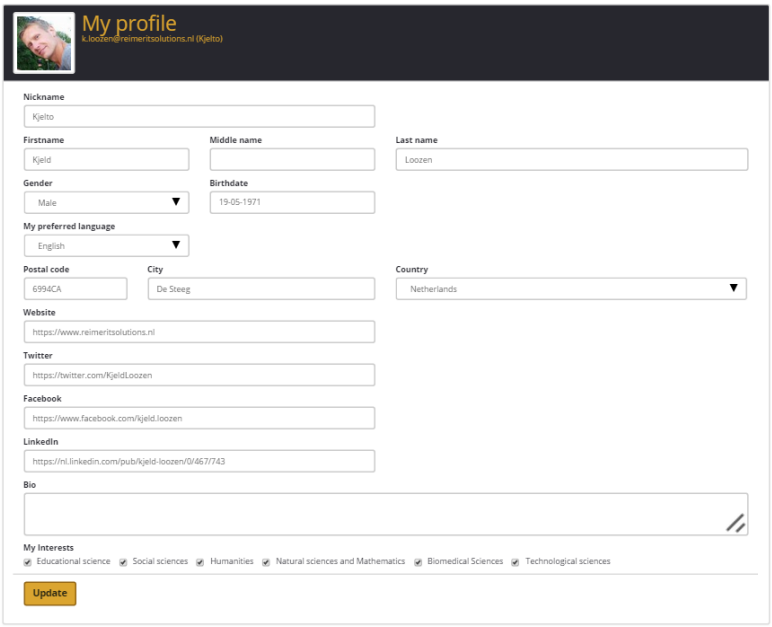
3. Description of integration

3.1. EcoPortal

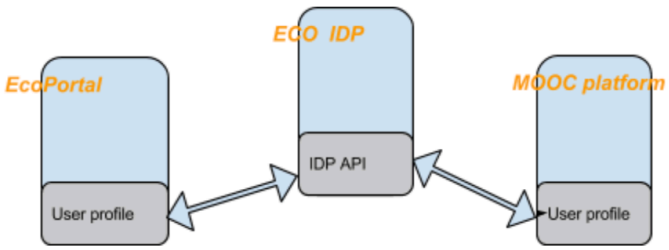
Though the requirements from WP2 are focussing on MOOC platform requirements, some of these requirements are also used to improve the usability of EcoPortal.

Req1: User profile

A user can maintain his general ECO profile on EcoPortal. Supported items include name, nickname, gender, profile picture, geographic information, bio, social network url's and interests.



This user profile information is accessible for all MOOC platforms via the API of the ECO IDP. This API also offers a method to update a user's profile. In this way, a user could update his/her profile from a MOOC platform and these updates are transferred to the common user profile on the EcoPortal. This mechanism is illustrated in the figure below.



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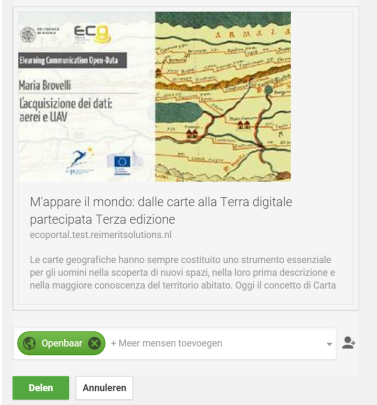
Req10: Sharing

EcoPortal offers the possibility of sharing a course on the social networks Facebook, Twitter and Google+. "Share buttons" are available in the course details of the course catalog and also on the user's dashboard. When a course is shared, a dedicated preview is added to the user's personal message by showing the course image, title and description.

Facebook:

Google+:



Twitter:

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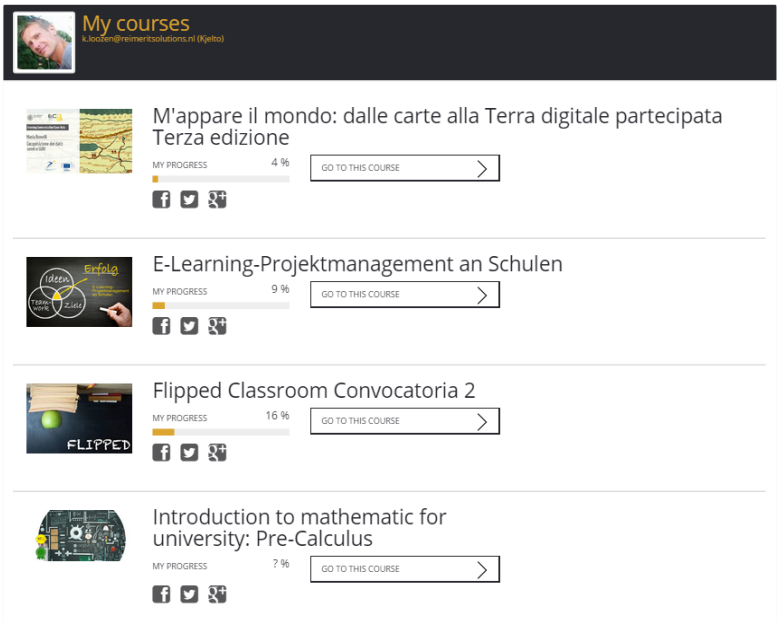
The shared url starts EcoPortal in a special 'course highlight mode' in which the details of the course are shown and allows the user to go to the course. Technical details of this mechanism are being described in D3.4 (2nd edition).
This course highlight page on EcoPortal is shown in the image below.

Req 12/13: User dashboard, Progress bar

In EcoPortal a user can access his dashboard. This page shows the courses a user is enrolled in, his progress on each course and a direct link to go to those particular courses.
The course progress information is gathered by an ECO Backend function which in turn requests this information on each connected MOOC platform. Technical details of this mechanism is being described in D3.4 (2nd edition).



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3.2. ECO MOOC platforms integration

WeMOOC:

CODE	Short description	How the requirement is fulfilled
REQ1	Rich user profiles	WeMOOC relies on the public profile available on the EcoPortal.
REQ2	List of members	Currently, a list of all enrolled members list can be activated by users with edition privilege. Administrators can inspect users enrolled in a MOOC, assign and unassign users from MOOCs.
REQ3	Activity stream	Social activities of users can be shown at hub and course levels.
REQ4	Personal Blog	Not available.
REQ5	Course Blog	Blog can be activated by users with edition privileges.
REQ6	Microblogging	Not available.
REQ7	Wiki	Wiki can be activated by users with edition privileges.
REQ8	Group creation	Not available.
REQ9	Evaluation	In WeMOOC, users can comment and rate message board threads, wiki pages, blog entries, uploaded documents and courses.
REQ10	Sharing	In WeMOOC, users can share message board threads, wiki pages, blog entries, uploaded documents and courses.
REQ11	Content syndication	Option to import RSS feeds, twitter feeds Blog aggregator
REQ12	User dashboard	WeMOOC relies on the user dashboard available on the EcoPortal.
REQ13	Progress bar	WeMOOC shows the progress in a percentage system, instead of representing a progress bar.
REQ14	Achievement/badges system	WeMOOC have his own badge/certification system, but relies on the badge features available on EcoPortal.
REQ15	Karma/reputation system	WeMOOC has currently a reputation system in the message board section. The specific user ranks are awarded based on the number of posted messages.

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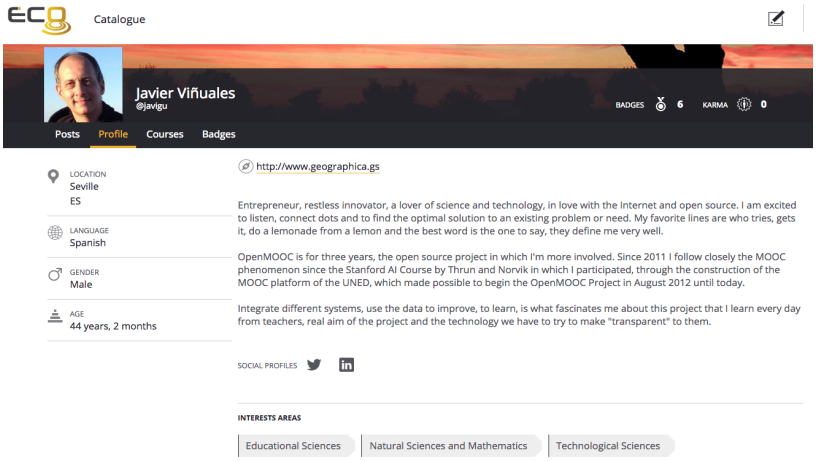
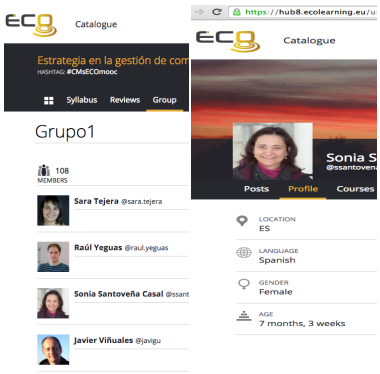
OpenMOOC:

Code	Short description	How the requirement is fulfilled
REQ1	Rich user profiles	We have improved the profile to get all the info from the EcoPortalu common profile of ECO  The OpenMOOC profiles has the following: ● Demographic details, such as name, age, gender, avatar or picture, but also interests and a short bio space in which you can include your educational background, expertise, occupation, context information, and learning ambitions. ● Your web and social profile in Facebook, Twitter and Linkedin to open ways to contact with you. ● Badges and karma you have earned. ● Courses you are enrolled in. ● Collection of posts you have written in the internal microblogging system. You can also see other learners in your group' profile  ● A record of historical actions, gathered in an activity stream related with hastashs in your microblog posts that you filter clicking on the hashtag, person or doing a search against hashtag or a chain like these: https://hub8.ecolearning.eu/user/posts/hashtag/ECO_CAM https://hub8.ecolearning.eu/user/posts/search/marketing

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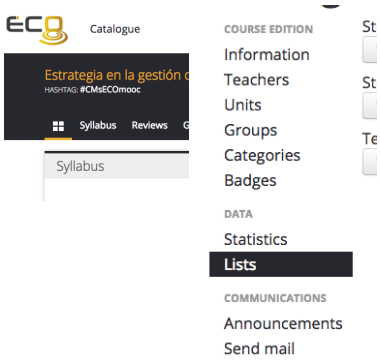
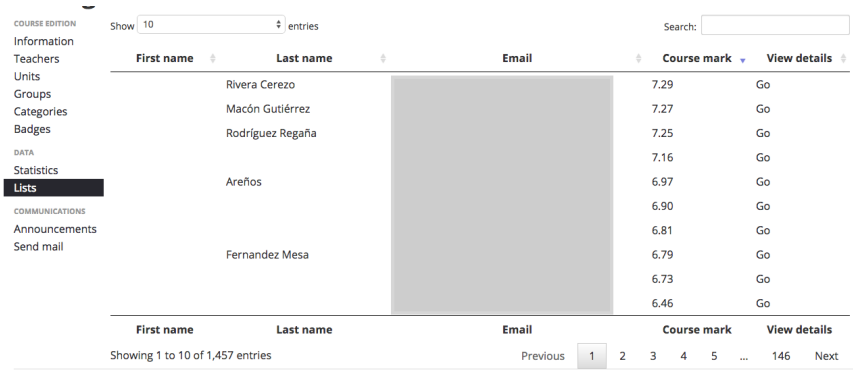
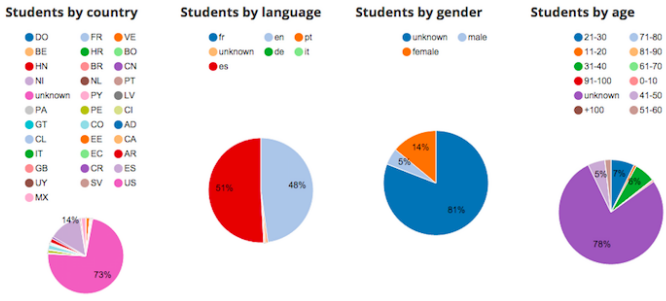
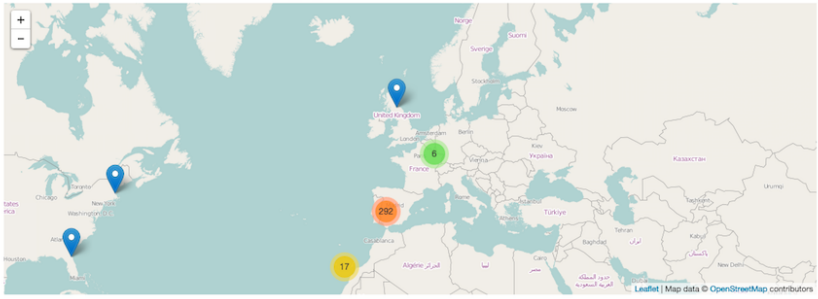
REQ2	List of members	You can access the complete list of learners or teachers using the administration interface of a course. You can access this interface either if you are a teacher of the course or you are marked as stuff member of the platform.   • You can search for people based on name, surname, email or course mark. • The geo-localisation is data is only available in the course administration panel form now. This info is anonymous, so you can see the number of learners per country and their points in a clickable map. **Demographic statistics**  **Students by location (672 of 1457)** 

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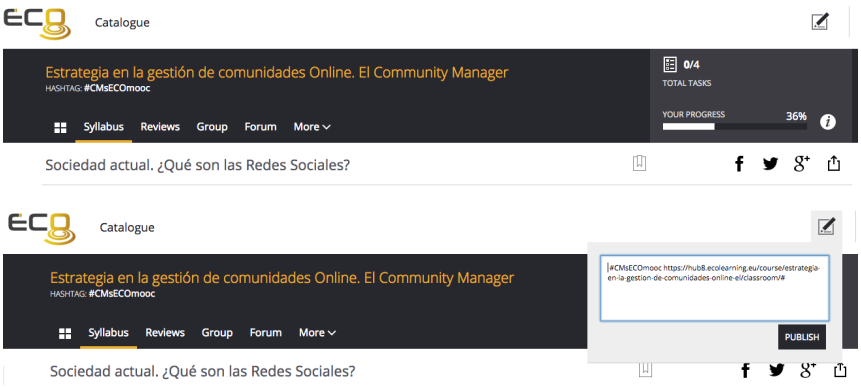
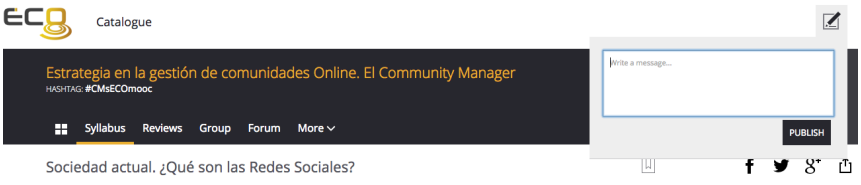
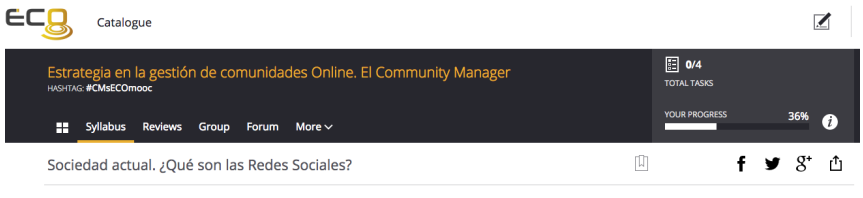
REQ3	Activity stream	OpenMOOC stores the historical actions and for now only the admin group can use this info in order to generate reports. Some info is shown in the teacheradmin panel of every course, as you can see in the REQs above described.
REQ4	Personal Blog	OpenMOOC has an internal microblogging system that can be used either to publish in your profile or share in other locations like the group wall or the dashboard (by using the group or the course hashtag, respectively).
REQ5	Course Blog	The same as above,using a different hashtag.
REQ6	Microblogging	OpenMOOC has a powerful microblogging system that can be used from any location of the course, in order to share a comment related to the context  Or by clicking on the post icon near the avatar image. 
REQ7	Wiki	Not available in OpenMOOC
REQ8	Group creation	Only the teachers team can create groups. You have to choose the number of members to create a group. OpenMOOC allows the learner to change from a group to another. All the activity is gathered to be used in the future, like the geolocalization to allow searching people near you by hand or automatically through a machine learning algorithm.
REQ9	Evaluation	Learners can do annotations and use a hashtag to publish in the microblog or in the forum.
REQ10	Sharing	You can share in your social networks any kind of content, from any location of a course, by using the sharing buttons. 

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Facebook

Twitter

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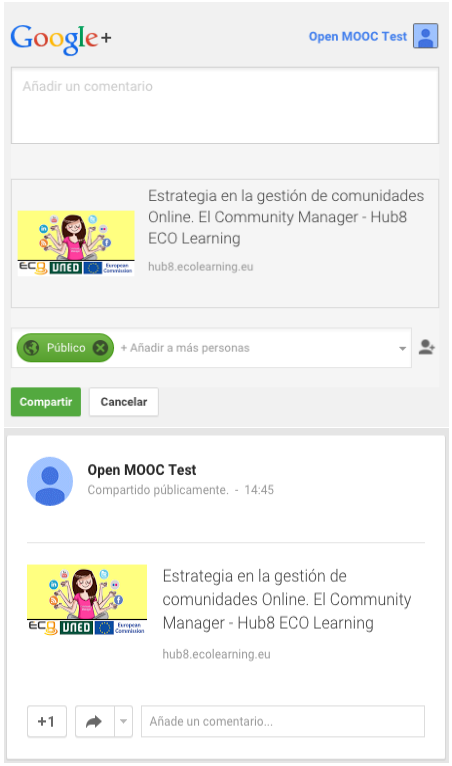
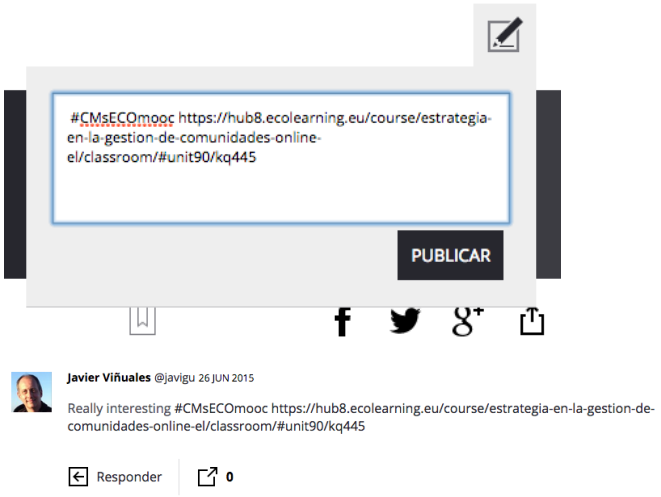
		Google+  Internal microblog 
REQ11	Content syndication	Not available in OpenMOOC.
REQ12	User dashboard	OpenMOOC provides the user with a complete preconfigured dashboard with direct access to the content where you are located in the course syllabus, tasks, the timeline of the microblog and notifications from the teachers team. It's preconfigured because usability, to provide the best user experience to the user and to provide the best support to them.

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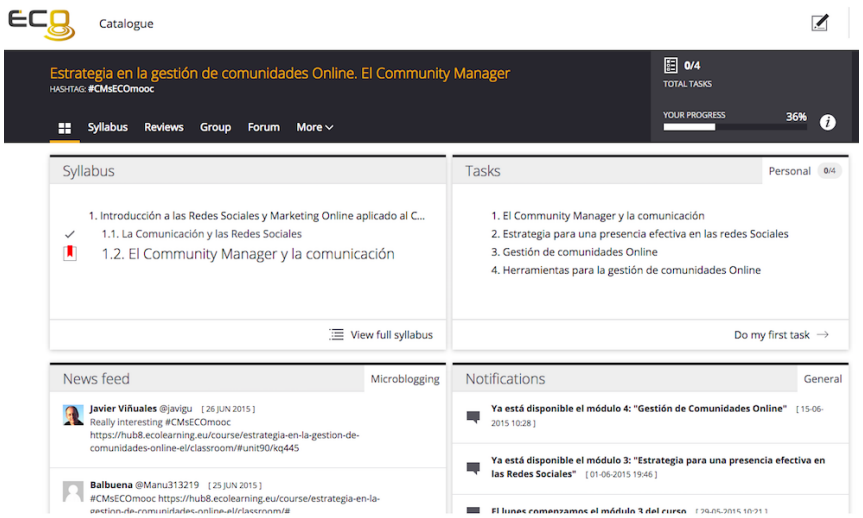
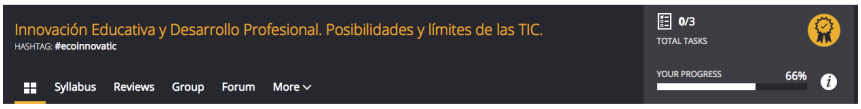
		
REQ13	Progress bar	OpenMOOC has an interface area to show progress, with a progress bar, a counter of tasks done, an icon if you get the certificate of the course  and a link ("i") to access directly to all the info about progress by unit, pill and total score you got in the course.

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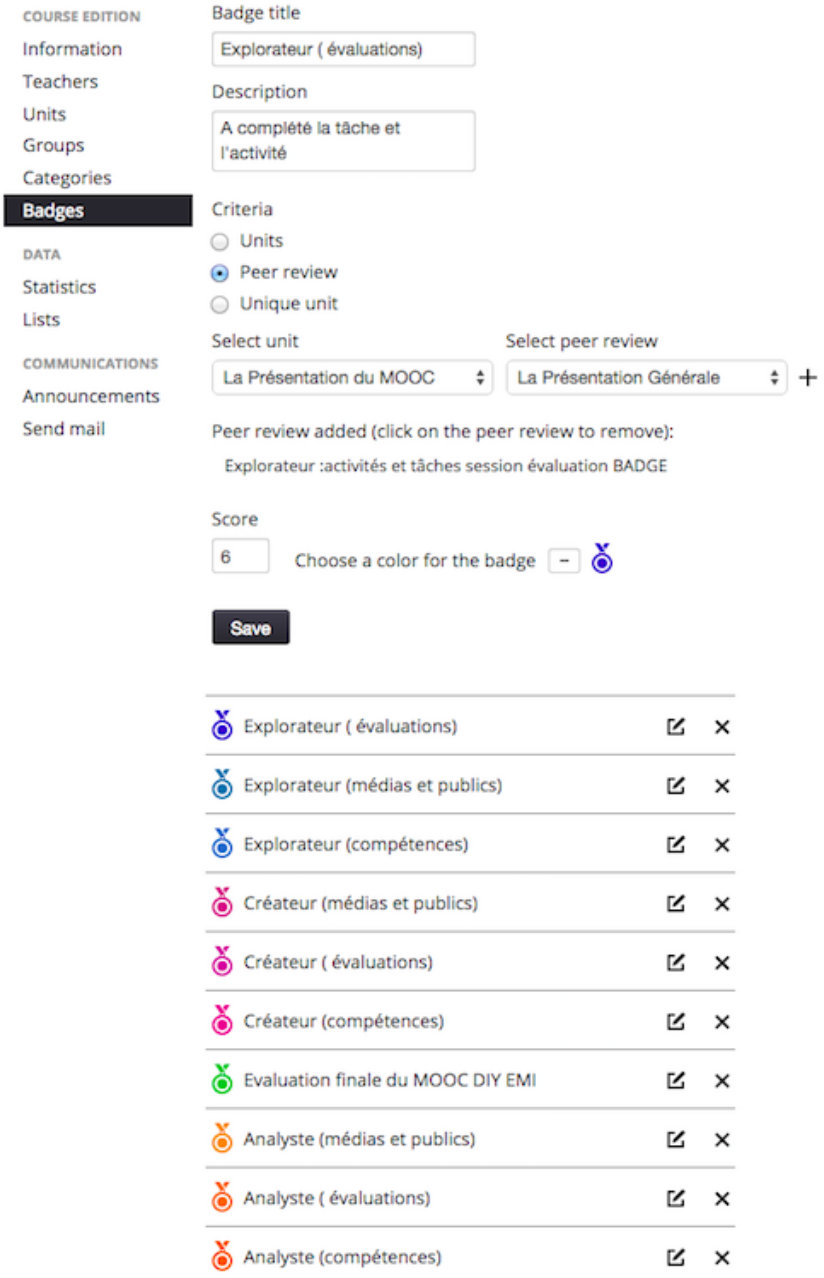
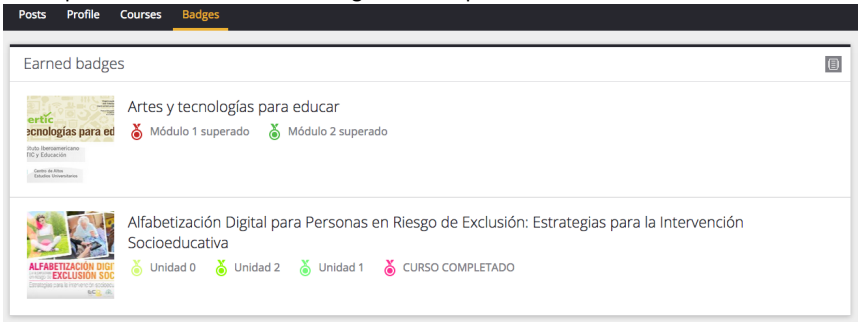
REQ14	Achievement/badges system	OpenMOOC provides a badge system. These badges can be linked to • a single unit criteria • a unit and the previous unit all of them completed criteria • a set of peer assessment criteria.  Participants can see the earned badges in their profile. 

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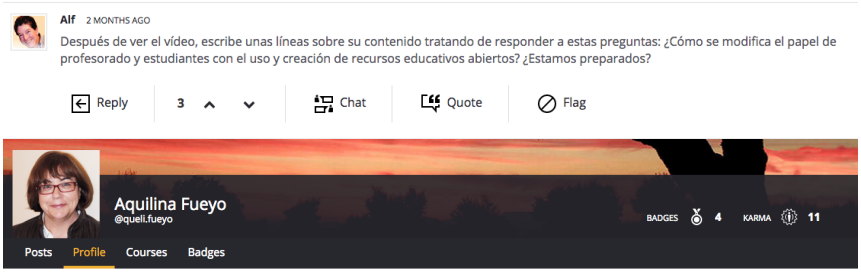
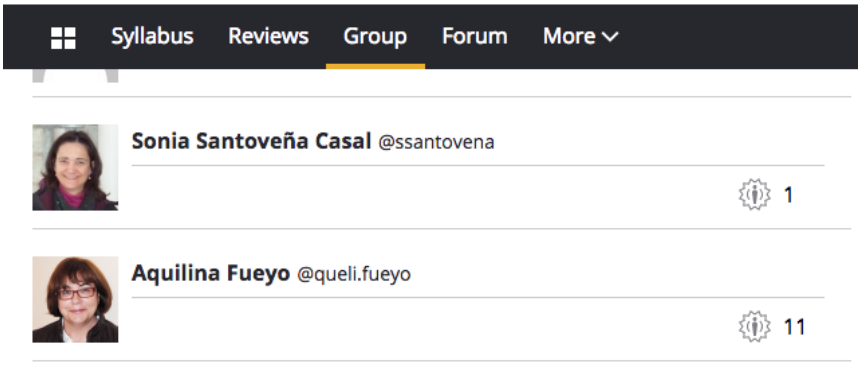
REQ15	Karma/reputation system	OpenMOOC uses the upvotes and downvotes in the forum posts you publish to calculate the karma number. It is also shown in the participants' profile.  Everybody can see the karma, is public. You also can see the karma in the list of members of the group you are in the course 

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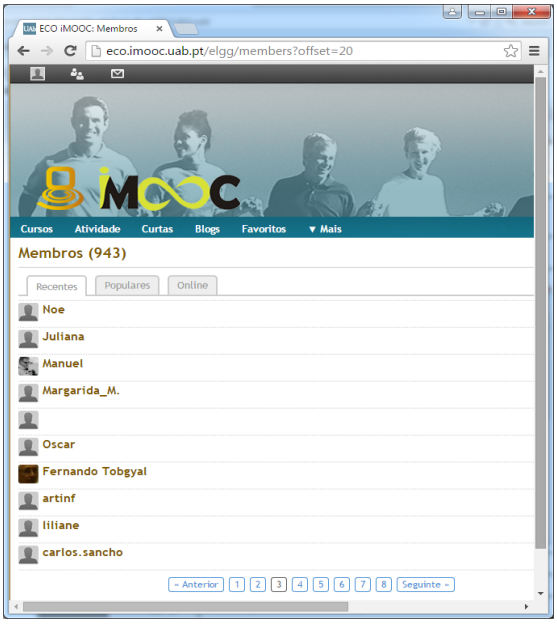
iMOOC:

. code	Short description	How the requirement is fulfilled
REQ1	Rich user profiles	Profile fields can be added in the social module by the administrator.
REQ2	List of members	Social module provides list of members out of the box. 
REQ3	Activity stream	Social module provides activity stream (river) out of the box
REQ4	Personal Blog	Social module has blogs.
REQ5	Course Blog	Course module provides blogs (both personal and course-wide).

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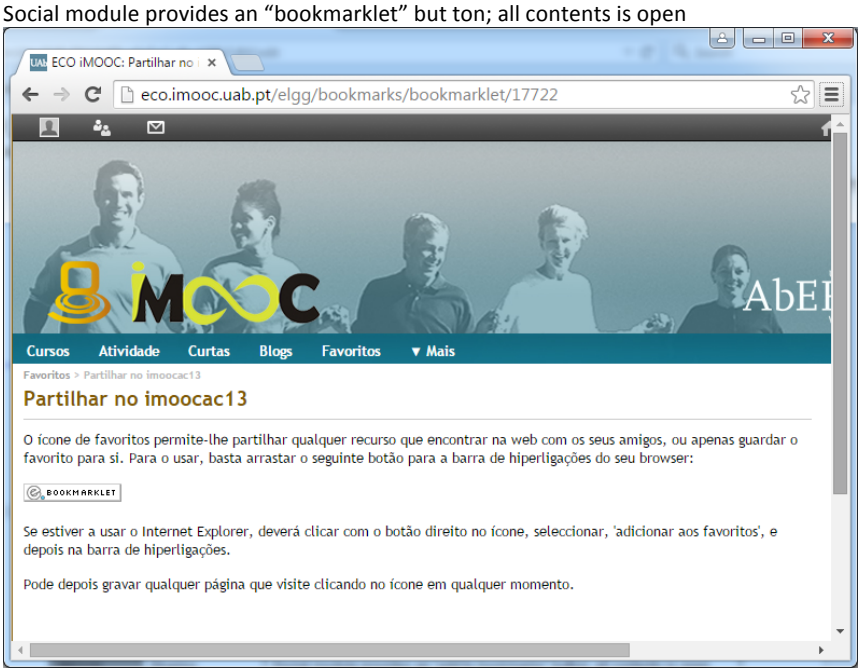
REQ6	Microblogging	Provided by social module (the wire)
REQ7	Wiki	Provided by both social and course modules.
REQ8	Group creation	Social module allows users to create groups.
REQ9	Evaluation	Social module: comments, likes; Course module: rating
REQ10	Sharing	Social module provides an “bookmarklet” but ton; all contents is open 
REQ11	Content syndication	RSS feeds available for course forums, and all contents in the social module
REQ12	User dashboard	Social module provides a customizable dashboard for each user
REQ13	Progress bar	Available as a plugin in the course module

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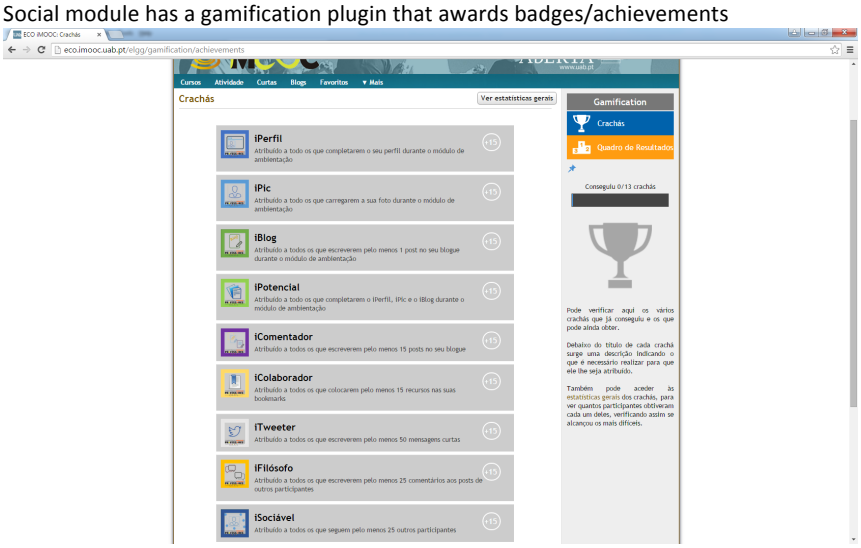
REQ14	Achievement/badges system	Social module has a gamification plugin that awards badges/achievements 
REQ15	Karma/reputation system	User karma plugin in social module

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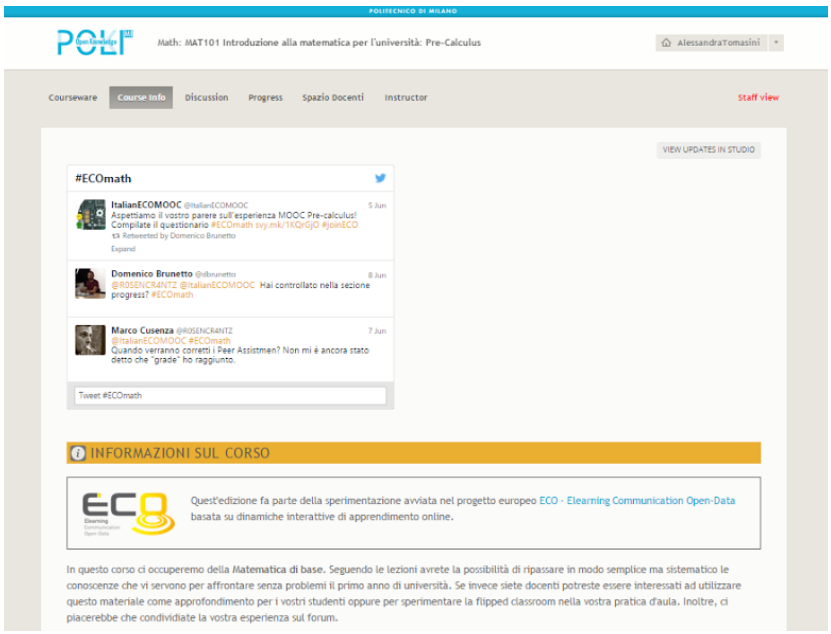
OpenEdx:

. code	Short description	How the requirement is fulfilled
REQ1	Rich user profiles	This feature can be integrated when OpenEdx will develop it (see the roadmap)
REQ2	List of members	Not required
REQ3	Activity stream	Each course has its own schedule page
REQ4	Personal Blog	Not required
REQ5	Course Blog	Not required
REQ6	Microblogging	Integration of Twitter as microblogging tool in order to optimize its value. 
REQ7	Wiki	Available as platform tool but not present in Pre-Calculus course as not required by teachers
REQ8	Group creation	This feature can be integrated when OpenEdx will develop it (see the roadmap)

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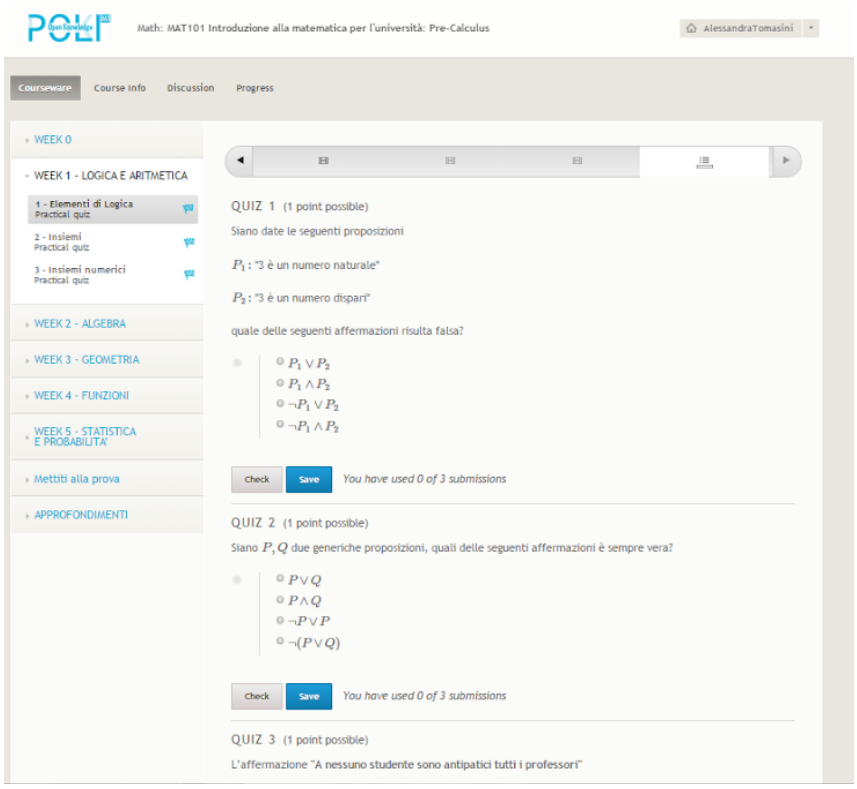
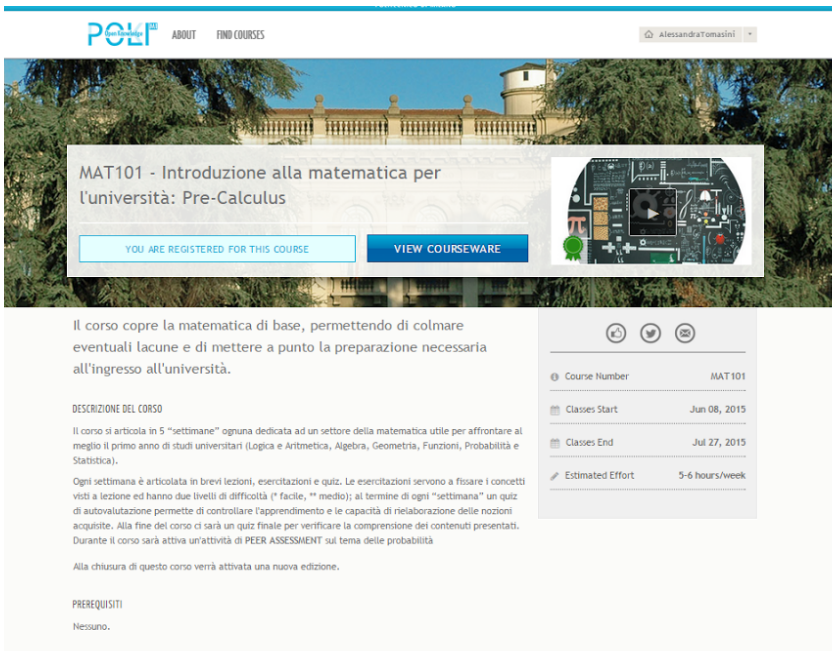
REQ9	Evaluation	Available through quizzes, Peer Assessment. Based on grading system 
REQ10	Sharing	Available through Facebook, Twitter 
REQ11	Content syndication	Not required

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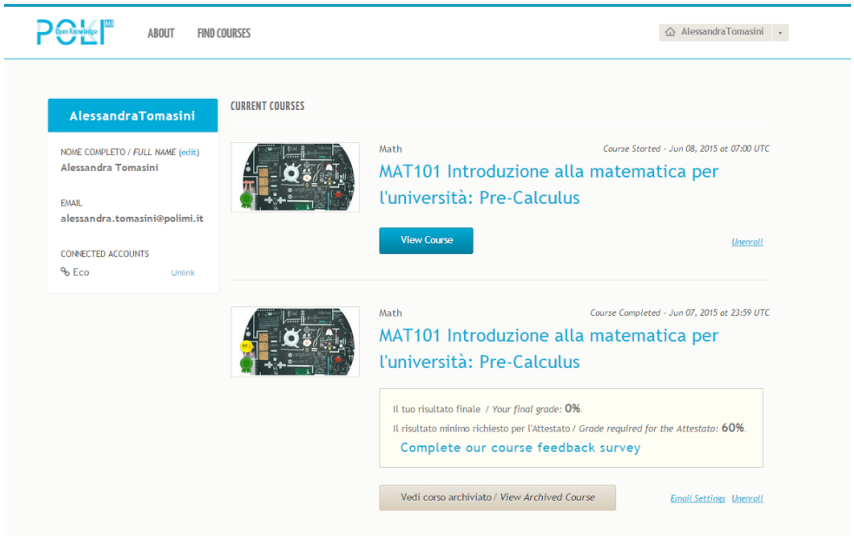
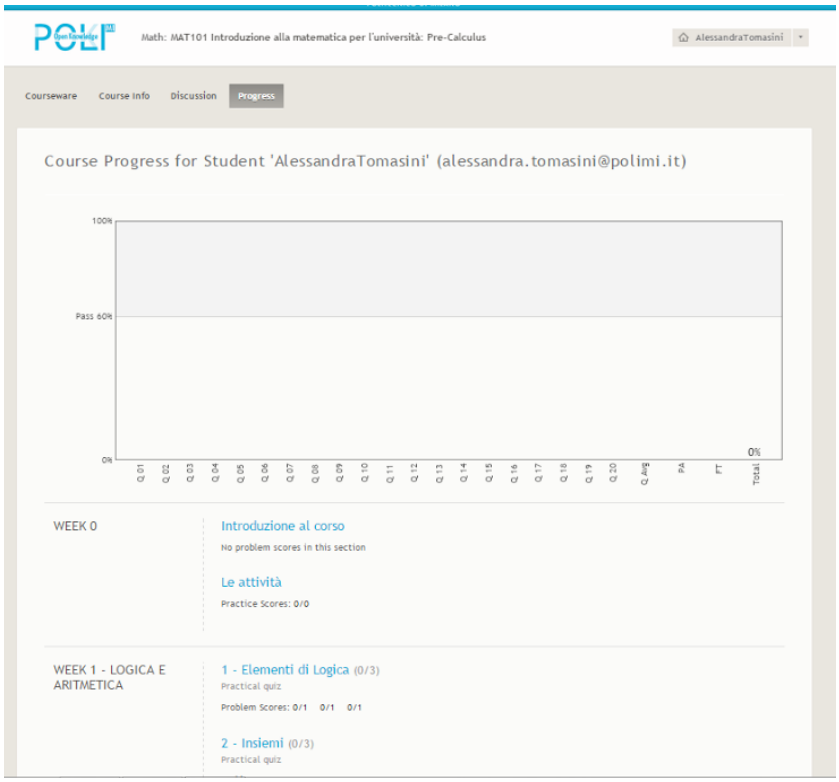
REQ12	User dashboard	Available 
REQ13	Progress bar	Available 
REQ14	Achievement/badges system	Available in Progress page. Future development of Data & Analitics
REQ15	Karma/reputation system	Not scheduled by OpenEdx

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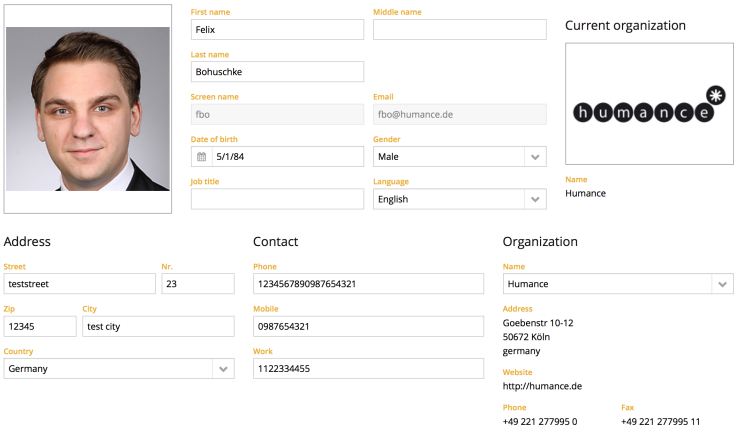
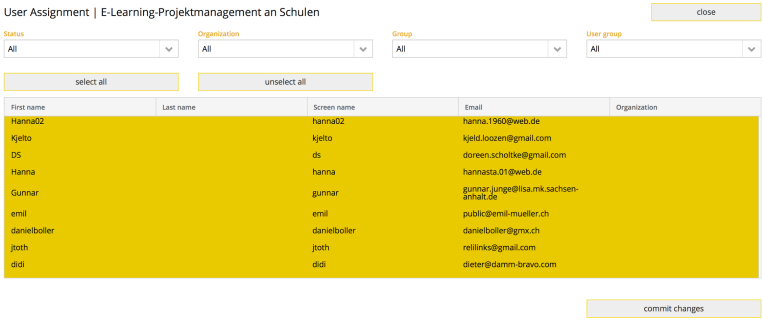
LogiAssist:

. code	Short description	How the requirement is fulfilled
REQ1	Rich user profiles	User profiles of Logi Assist are displaying the following user information: • Personal profile picture • Personal account data, like first name, middle name, last name, screen name, email address, date of birth, gender, job title and preferred language • Address information like street name, house number, zip code, city and country • Contact information like phone number, mobile number and work number • Logo of current organization • Information about current organization like organization's name, organization's address and contact information 
REQ2	List of members	Currently, a list of all members are visible for users with administrator privilege. Administrators can inspect users enrolled in a MOOC, assign and unassign users from MOOCs. 

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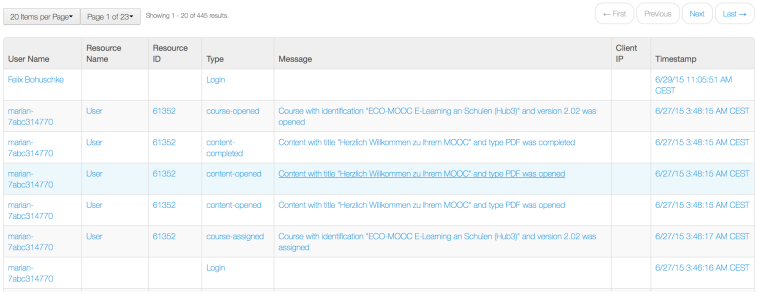
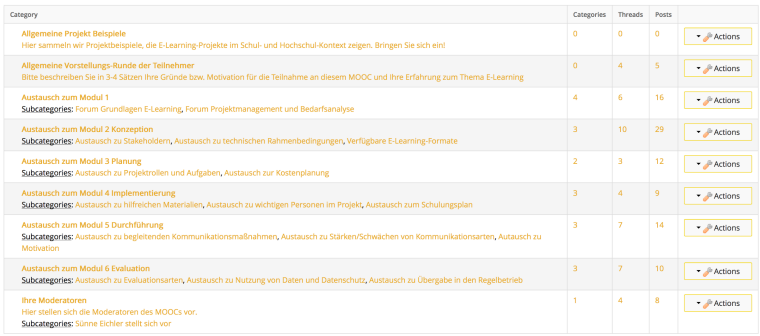
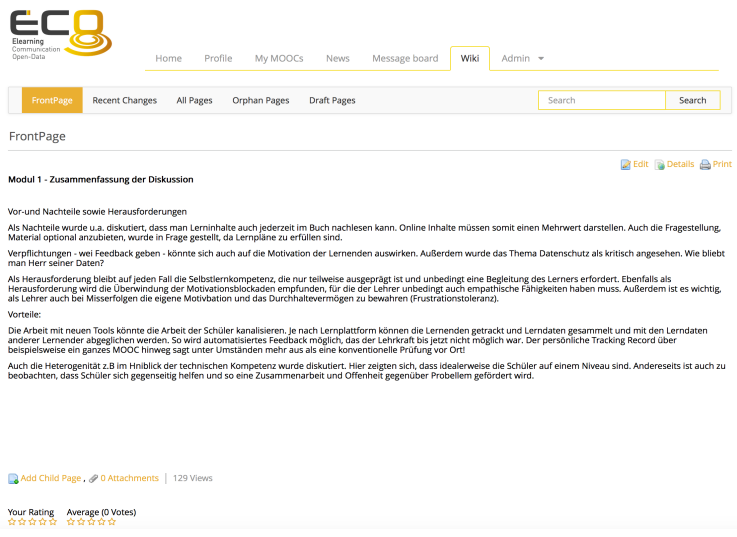
REQ3	Activity stream	Preparations are done. Currently, user activities are tracked and saved in the database. The visual representation of those activities is currently in development.  20 Items per Page · Page 1 of 23 · Showing 1 - 20 of 445 results. ← First · Previous · Next · Last → User Name · Resource Name · Resource ID · Type · Message · Client IP · Timestamp Felix Bohuschke · Login · 6/29/15 11:05:51 AM CEST marian-7abc314770 · User · 61352 · course-opened · Course with identification "ECO-MOOC E-Learning an Schulen (Hub3)" and version 2.02 was opened · 6/27/15 3:48:15 AM CEST marian-7abc314770 · User · 61352 · content-completed · Content with title "Herzlich Willkommen zu Ihrem MOOC" and type PDF was completed · 6/27/15 3:48:15 AM CEST marian-7abc314770 · User · 61352 · content-opened · Content with title "Herzlich Willkommen zu Ihrem MOOC" and type PDF was opened · 6/27/15 3:48:15 AM CEST marian-7abc314770 · User · 61352 · content-opened · Content with title "Herzlich Willkommen zu Ihrem MOOC" and type PDF was opened · 6/27/15 3:48:15 AM CEST marian-7abc314770 · User · 61352 · course-assigned · Course with identification "ECO-MOOC E-Learning an Schulen (Hub3)" and version 2.02 was assigned · 6/27/15 3:46:17 AM CEST marian-7abc314770 · Login · 6/27/15 3:46:16 AM CEST
REQ4	Personal Blog	A personal blog is currently not available. But every member of the Logi Assist platform has access to the wiki and message board in which personal pages can be created easily.
REQ5	Course Blog	Logi Assist offers a message board for all MOOCs.  Category · Categories · Threads · Posts Allgemeine Projekt Beispiele — Hier sammeln wir Projektbeispiele, die E-Learning-Projekte im Schul- und Hochschul-Kontext zeigen. Bringen Sie sich ein! · 0 · 0 · 0 · Actions Allgemeine Vorstellungs-Runde der Teilnehmer — Bitte beschreiben Sie in 3-4 Sätzen Ihre Gründe bzw. Motivation für die Teilnahme an diesem MOOC und Ihre Erfahrung zum Thema E-Learning · 0 · 4 · 5 · Actions Austausch zum Modul 1 — Subcategories: Forum Grundlagen E-Learning, Forum Projektmanagement und Bedarfsanalyse · 4 · 6 · 16 · Actions Austausch zum Modul 2 Konzeption — Subcategories: Austausch zu Stakeholdern, Austausch zu technischen Rahmenbedingungen, Verfügbare E-Learning-Formate · 3 · 10 · 29 · Actions Austausch zum Modul 3 Planung — Subcategories: Austausch zu Projektrollen und Aufgaben, Austausch zur Kostenplanung · 2 · 3 · 12 · Actions Austausch zum Modul 4 Implementierung — Subcategories: Austausch zu hilfreichen Materialien, Austausch zu wichtigen Personen im Projekt, Austausch zum Schulungsplan · 3 · 4 · 9 · Actions Austausch zum Modul 5 Durchführung — Subcategories: Austausch zu begleitenden Kommunikationsmaßnahmen, Austausch zu Stärken/Schwächen von Kommunikationsarten, Autausch zu Motivation · 3 · 7 · 14 · Actions Austausch zum Modul 6 Evaluation — Subcategories: Austausch zu Evaluationsarten, Austausch zu Nutzung von Daten und Datenschutz, Austausch zu Übergabe in den Regelbetrieb · 3 · 7 · 10 · Actions Ihre Moderatoren — Hier stellen sich die Moderatoren des MOOCs vor. Subcategories: Sünne Eichler stellt sich vor · 1 · 4 · 8 · Actions
REQ6	Microblogging	Microblogging is currently not available. But every member of the Logi Assist platform has access to the wiki and message board in which personal pages can be created easily.
REQ7	Wiki	An portal wide wiki is available for all members of the Logi Assist hub.  ECO Elearning Communication Open-Data Home · Profile · My MOOCs · News · Message board · Wiki · Admin FrontPage · Recent Changes · All Pages · Orphan Pages · Draft Pages · Search · Search FrontPage Edit · Details · Print **Modul 1 - Zusammenfassung der Diskussion** Vor-und Nachteile sowie Herausforderungen Als Nachteile wurde u.a. diskutiert, dass man Lerninhalte auch jederzeit im Buch nachlesen kann. Online Inhalte müssen somit einen Mehrwert darstellen. Auch die Fragestellung, Material optional anzubieten, wurde in Frage gestellt, da Lernpläne zu erfüllen sind. Verpflichtungen - wei Feedback geben - könnte sich auch auf die Motivation der Lernenden auswirken. Außerdem wurde das Thema Datenschutz als kritisch angesehen. Wie bliebt man Herr seiner Daten? Als Herausforderung bleibt auf jeden Fall die Selbstlernkompetenz, die nur teilweise ausgeprägt ist und unbedingt eine Begleitung des Lerners erfordert. Ebenfalls als Herausforderung wird die Überwindung der Motivationsblockaden empfunden, für die der Lehrer unbedingt auch empathische Fähigkeiten haben muss. Außerdem ist es wichtig, als Lehrer auch bei Misserfolgen die eigene Motivbation und das Durchhaltevermögen zu bewahren (Frustrationstoleranz). Vorteile: Die Arbeit mit neuen Tools könnte die Arbeit der Schüler kanalisieren. Je nach Lernplattform können die Lernenden getrackt und Lerndaten gesammelt und mit den Lerndaten anderer Lernender abgeglichen werden. So wird automatisiertes Feedback möglich, das der Lehrkraft bis jetzt nicht möglich war. Der persönliche Tracking Record über beispielsweise ein ganzes MOOC hinweg sagt unter Umständen mehr aus als eine konventionelle Prüfung vor Ort! Auch die Heterogenität z.B im Hinblick der technischen Kompetenz wurde diskutiert. Hier zeigten sich, dass idealerweise die Schüler auf einem Niveau sind. Andereseits ist auch zu beobachten, dass Schüler sich gegenseitig helfen und so eine Zusammenarbeit und Offenheit gegenüber Probellem gefördert wird. Add Child Page , 0 Attachments | 129 Views Your Rating · Average (0 Votes)

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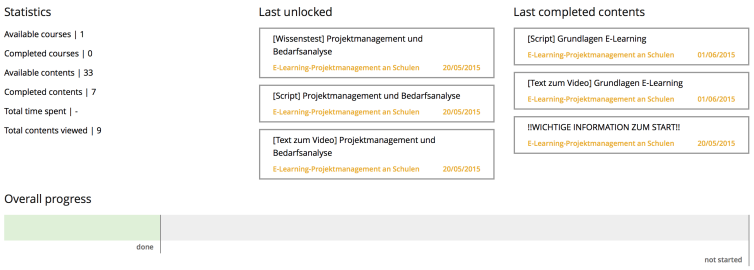
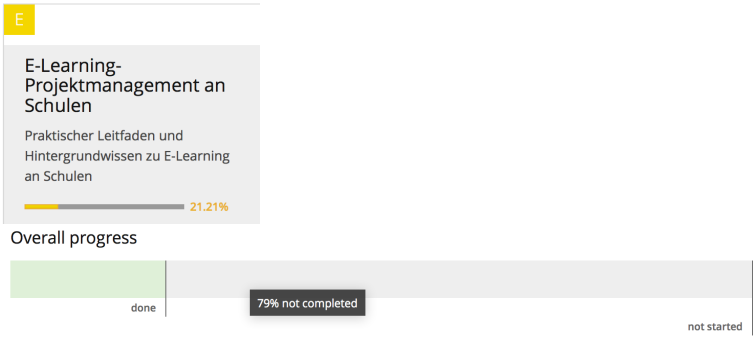
REQ8	Group creation	Currently group creation is not available. Group creation is currently in development.
REQ9	Evaluation	Learners can access their personal education data and evaluated data like how many time was spent, how often a course was opened or how high the achieved progress is in a specific MOOC or over all MOOCs available in the Logi Assist hub. Additional learning activities are sent to the ECO learning locker, allowing to evaluate gathered data from all members. Data are gathered e.g. if a learner accesses a MOOC or a content of a MOOC.
REQ10	Sharing	Logi Assist does not support content sharing in social media platforms as it is not applicable by the design of the platform.
REQ11	Content syndication	Currently, Logi Assist does not support content syndication.
REQ12	User dashboard	Every learner has his own dashboard in which current MOOC statistics, last unlocked contents, last completed contents and an overall progress are displayed. 
REQ13	Progress bar	In Logi Assist the learner can inspect the achieved progress for every MOOC. Every MOOC has a progress bar in the MOOC Explorer which easily displays the current progress. In addition, in the dashboard, the learner can see his overall progress over all assigned MOOCs. 

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REQ14	Achievement/badges system	A badge system is currently in development.
REQ15	Karma/reputation system	Logi Assist has currently a reputation system in the message board section. The specific user ranks are awarded based on the number of posted messages.

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ARLearn:

code	Short description	How the requirement is fulfilled
REQ1	Rich user profiles	When a user logs in to the ARLearn authoring environment the following information is shown: • personal profile picture • The user's name
REQ2	List of members	ARLearn does not disclose all of it's members as this conflicts with their privacy. Note that ARLearn is a cloud based system, featuring only one installation with users that are not aware of the ECO context. Nevertheless, it is possible to list all open courses en to list the authors of this course. For a given course, we can list the members of the course using a web service.
REQ3	Activity stream	User activities are tracked and saved to learning locker
REQ4	Personal Blog	This does not apply to ARLearn
REQ5	Course Blog	This does not apply to ARLearn
REQ6	Microblogging	This does not apply to ARLearn
REQ7	Wiki	This does not apply to ARLearn
REQ8	Group creation	For courses, authors can create various "runs" with different groups.
REQ9	Evaluation	For a game and run, learners can access their data and evaluated data like which responses they gave to questions, the pictures they have taken of the answers they have given to questions.
REQ10	Sharing	This does not apply to ARLearn as within a game users do not generally share content beyond a game.
REQ11	Content syndication	No
REQ12	User dashboard	No
REQ13	Progress bar	No
REQ14	Achievement/badges system	ARLearn has an open badges integration that enables an author to define mozilla open badges as a reward for an action.
REQ15	Karma/reputation system	Mozilla open badges integration

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4. CheckList Requirements/Integrations

Req	WeMOOC	OpenMOOC	iMOOC	OpenEdx	LogiAssist	ArLearn
REQ1	✓	✓	✓	X	✓	X
REQ2	✓	✓	✓	X	X	X
REQ3	✓	X	✓	✓	X	✓
REQ4	X	✓	✓	X	X	X
REQ5	✓	✓	✓	X	✓	X
REQ6	X	✓	✓	✓	X	X
REQ7	✓	X	✓	✓	✓	X
REQ8	X	✓	✓	X	X	✓
REQ9	✓	✓	✓	✓	✓	X
REQ10	✓	✓	✓	✓	X	X
REQ11	✓	X	✓	X	X	X
REQ12	✓	✓	✓	✓	✓	X
REQ13	✓	✓	✓	✓	✓	X
REQ14	✓	✓	✓	✓	X	✓
REQ15	✓	✓	✓	X	✓	✓

5. Conclusion

ECO platforms are now prepared with the necessary tools for creating real sMOOCs. Most of the features required in the deliverable D2.6 have been developed in one or more ECO platforms, so that ECO MOOCs provide the participants the mechanisms to social interacting among them and acquiring the knowledge through a more social learning model.

Besides, the access to the courses through the social networks has been improved. The EcoPortal has a new social functionality, therefore courses information can be easily shared through the main social networks.

The login and the sign on by using the social networks profiles is still a pending task. This is a desirable functionality that will be developed in the future but, due to its big complexity it is still in an analysis phase.

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