D5.1 – EnTimeMent web portal

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Instrument	FET Proactive
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[1] **PU** = Public, **PP** = Restricted to other programme participants (including the Commission Services), **RE** = Restricted to a group specified by the consortium (including the Commission Services), **CO** = Confidential, only for members of the consortium (including the Commission Services).

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Introduction

An early version of the EnTimeMent web portal has been created since the beginning of the project. It is a repository continuously updated by partners, in order to support both the internal activities in the consortium and research communities. A main goal is to share documents and data, and to disseminate results and events outside the Consortium. It includes different thematic areas:

- a "blog/events" area of the website includes the description of research results and a calendar of scientific and dissemination events and activities
- a "results" area is devoted to the dissemination of results: open access scientific papers and public deliverables, datasets and experiments materials, software system prototypes, with the possibility of downloading materials
- A "repository" area will be added to enable visitors of the site to access the EnTimeMent repository of datasets and recordings that will be made publicly available to the research communities
- A "download" area will further enable users to download test-bed, software and application prototypes that will be made publicly available to the research communities.

Furthermore, a private area of the web portal based on NextCloud is also available to partners, and possibly third parties and external board members, for discussion, exchanges of materials, and coordination of activities.

The first version of the portal has been made publicly available at beginning of February 2019 (2nd month of activity of the project). It is hosted on a UNIGE server and will receive a long-term maintenance service, also beyond the end of the project. The portal can be accessed at the following address:

<center>http://entimement.dibris.unige.it</center>

Private repository: http://entimement.dibris.unige.it/nextcloud

A Twitter account on EnTimeMent is also available.

The EnTimeMent web portal has been designed to support mainly the following users and stakeholders:

- the community of researchers involved in the EnTimeMent project (e.g., to share documents, scientific data and software in a safe and effective way)
- the wider community of external researchers, who are informed on scientific outputs, public events related to the EnTimeMent project, can access and download papers and other public documentation, can link to the project archives of multimodal recordings, etc
- ICT practitioners and researchers
- researchers and practitioners from a wide range of disciplines, from neuroscience to computer science and engineering, to social sciences and humanities.
- stakeholders including care givers, health institutions, artistic and cultural institutions, sport and wellness, entertainment, and in general cultural and creative industry.

In this deliverable, we present the current version of the web portal and the technical solutions we implemented to satisfy user requirements for both the above mentioned communities, and the features required by the project as described in the technical annex.

This web portal is intended as a living repository, so the description in this deliverable reflects its state at the 3rd month of the project (March 2019): continuous improvements and novel materials will be constantly uploaded during the whole project life.

The project logo and visual design is not yet available at the time of delivery of this document. The Web portal will benefit within the first public dissemination activities (summer 2019) an appropriate logo and visual design, with the support of professional experts in visual design.

1. Web Portal description

The EnTimeMent web portal has been developed using the open Joomla software platform, version 3.4.8 (https://www.joomla.org). We decided to use this CMS for the following reasons:

- it provides a user-friendly Graphical User Interface (GUI) to create and manage content also by non-technicians
- it is an open source platform, continuously updated by a very wide community, guaranteeing that the last version is free from security weaknesses
- it supports the creation of users with different access rights, allowing for example to provide all partners with a user account able to modify the pages content (to insert news, update the existing ones, and so on) but hiding the administrative tools of the portal (e.g., site maintenance, menu setup, and so on).

For the EnTimeMent Web portal we exploited the Joomla *ProtoStar* default graphical template, as depicted in Figure.1: https://www.joomla.org/announcements/release-news/5478-joomla-3-0-3-released.html

Figure.1 - The EnTimeMent web portal home page, exploiting the *ProtoStar* Joomla template.

The page content has a fixed width and is centered in the browser window. Once available, the EnTimeMent logo and visual design will be added. The EU H2020 logo is included, providing the link to the corresponding EU portal. A main menu enables the navigation to the different areas of the portal:

| Home | Consortium | Objectives | Blog/Events | Documents | Results | Platform | Press | Private |

Figure.2 - The EnTimeMent web portal menu items structure (logo and visual design are provisory)

- **Home**
  The page shown by default when reaching the web portal. It contains the project overview (as depicted in Figure.1) and, in the lower half of the page, the most recent documents (e.g. scientific papers) from the Blog section. That is, the home page is automatically updated as soon as new contents are posted in the blog.
- **Consortium**
  It contains the names and links to the project's partners.
- **Objectives**
  In this page is fully detailed the main goal of the EnTimeMent project, along with the focused arguments of the single objectives step.
- **Blog/Events**
  It describes the project's research results and short reports about dissemination events and activities. This is the most dynamic section of the website, constantly offering new contents to the portal's visitors.
- **Documents**
  It contains the list of all the published and public reports, and also a link to a private area for the project's partners access.
- **Results**
  The public deliverables (including appendices) of the project, and scientific articles and papers are available for download in this page. Articles include the complete citation.
- **Platform**
  The EnTimeMent recording and playback platform and tools will be delivered by the project and will be available for download on this page. The platform installation and setup procedure will

be fully documented once delivered by the Consortium, to enable the external communities of ICT practitioners and researchers to exploit the EnTimeMent software modules for other research activities and applications.

- **Press**
  Articles in local and international media, including newspapers and magazines.

- **Private**
  This is a password protected area of the web portal, exploited by the partners in the consortium for discussion, exchanges of materials, and coordination of activities. To this aim, a NextCloud shared private repository has been setup, and the corresponding link is reported in the private area of the website. Also, a private FTP server has been set up, and the login information is reported in this part of the portal. Figure.3 depicts the current version of the private area. The page contains links to reserved media (e.g., pictures, mocap data, videos).

Figure.3 - The EnTimeMent web portal private area.

2. Web Portal System information

Figure.4.1 and Figure.4.2 show some of the Joomla portal administration tools, to manage and customize both the graphical and user-friendly menu-commands, and even more detailed configuration settings, to adjust and tune each single page behaviour.

Figure.4.1 - The EnTimeMent web portal customization tools – global settings

Figure.4.2 - The EnTimeMent web portal customization tools – detailed settings

3. NextCloud Documents Sharing Tool description

To manage in a friendly and fast way the exchanging of EnTimeMent related documents among the partners, the *NextCloud file-sharing and communication platform* has been adopted:

https://nextcloud.com/

The NextCloud platform is an open source, and self-hosted software platform. It has been installed into the same server hosting the project's website. The NextCloud platform offers different levels access to shared files (Administator access, Partners access), in order to maintain easily accessible the updated documents within the partners community. Future developments may include access to exterbal community of researchers and CCI. Figure.5 shows the login form to enter the NextCloud documents sharing platform:

- the "administrator-user" account (UNIGE) created the "user-level" account "*EntimeUser*" to let other partners enter the portal, and work inside a protected area.

- the partners can then access to single documents file or to full folders, by accessing the portal through a common web-browser, and logging with the "user-level" account.
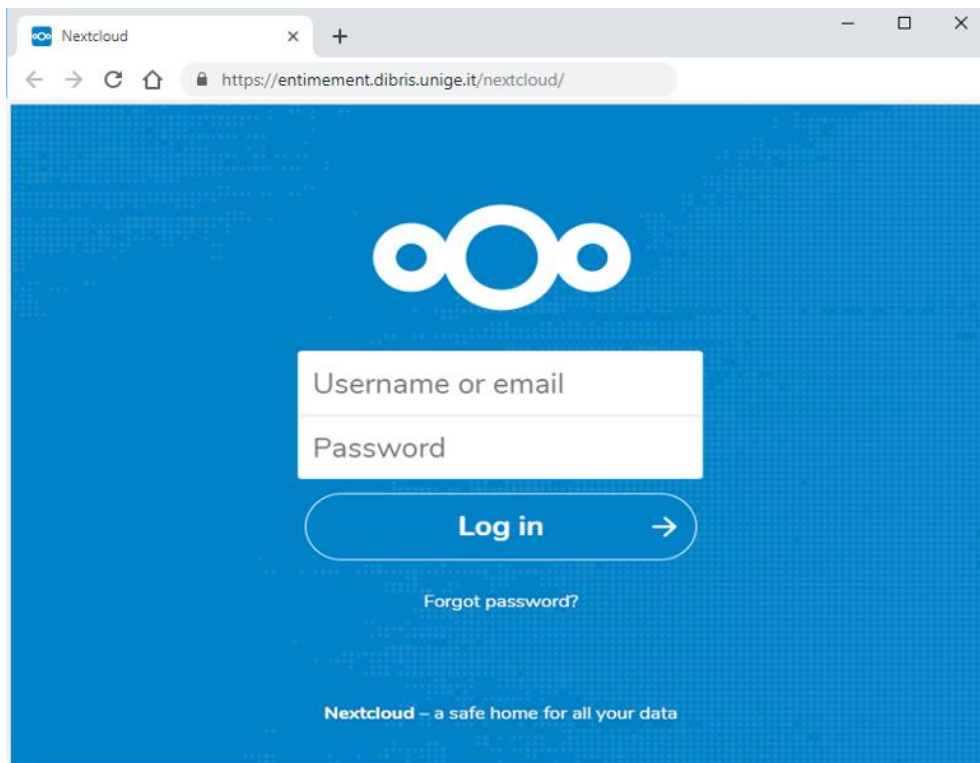

Figure.5 - The NextCloud project's documentation portal

The NextCloud platform GUI is similar to common computer operating system resource managers, like *MS-Windows Explorer* or *Apple-MacOS Finder* software. Figure.6 shows a typical access to a NextCloud's documents repository, containing documents and folders, with a simple GUI based on a few set of command icons, to manage the common and frequently operations; e.g. upload a file, move to a folder, rename, delete, etc.
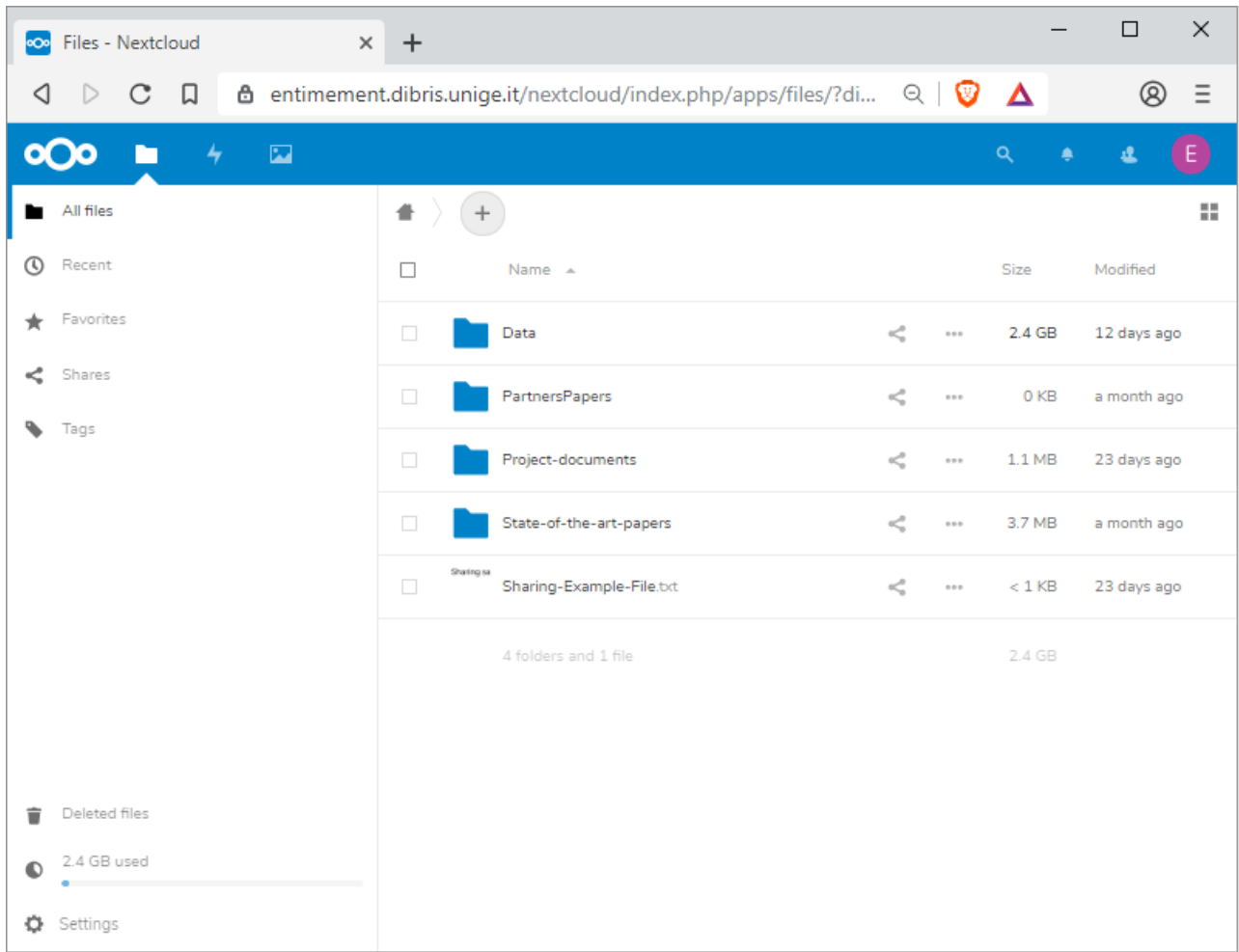
Figure.6 - The NextCloud interface for managing documents and folders

The NextCloud platform is also distributed as a computer's client software, to locally manage the content of the remote repository files. By downloading and installing the NextCloud client software, partners can access to local copies of the remote repository files, and will maintain them synchronized by simply configure the remote access with the same account details (account "*EntimeUser*" as detailed above). Figure.7 shows a NextCloud GUI, installed on a client computer running the MS-Windows operating system.
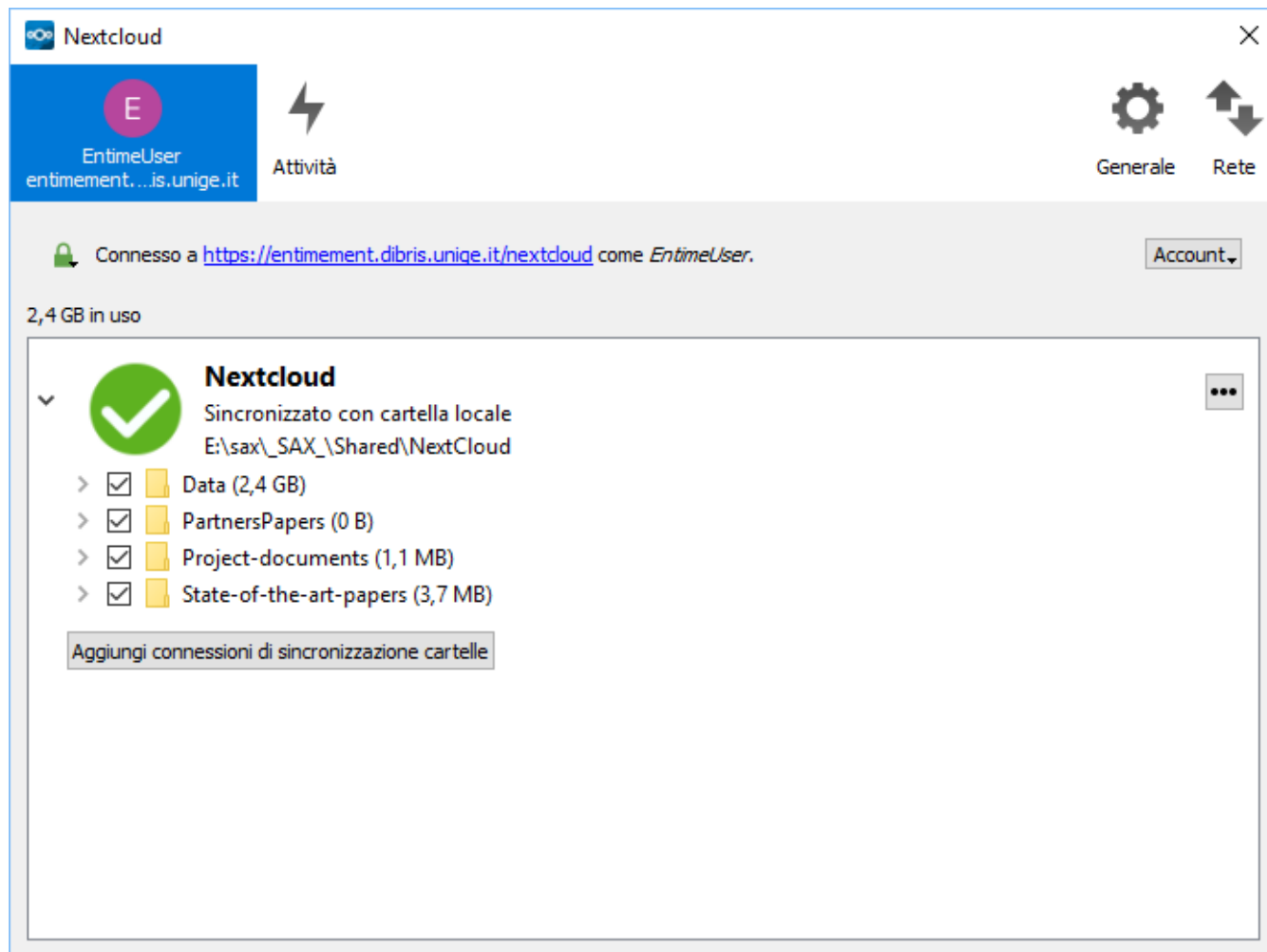
Figure.7 - The NextCloud's MS-Window client software GUI

4. Web Site System information

The NextCloud's web and repository services are hosted on a UNIGE server, and run the Apache open software on a Debian 4.9 Linux operating system. Some of the technical details of the installation are detailed below:

Setting	Value
PHP Built On	Linux webserver 4.9 Debian (2018-05-07) x86_64
Database Type	Mysql
Database Version	5.5.5-10.1.26-MariaDB-0+deb9u1

Setting	Value
Database Collation	utf8mb4_general_ci
Database Connection Collation	utf8mb4_general_ci
PHP Version	7.2.11 - 20181015
Web Server	Apache
Joomla! Version	Joomla! 3.9.0 Stable [Amani] 30-October-2018
Joomla! Platform Version	Joomla Platform 13.1.0 Stable [Curiosity] 24-Apr-2013