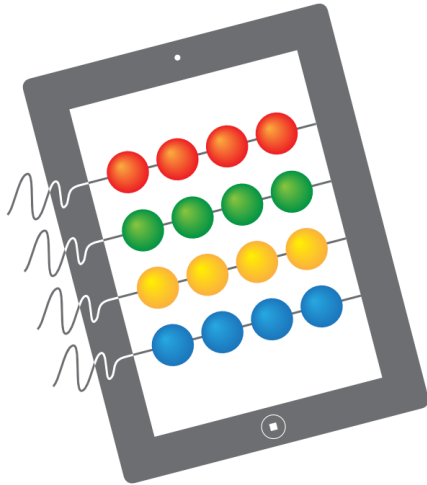




FP7 ICT STREP Project



LEARN PAD

Deliverable D2.2

Core Platform Implementation

First version

<http://www.learnpad.eu>



LINAGORA



n|w Fachhochschule
Nordwestschweiz



*WIKI



Project Number	: FP7-619583
Project Title	: Learn PAd Model-Based Social Learning for Public Administrations

Deliverable Number	: D2.2
Title of Deliverable	: Core Platform Implementation
Nature of Deliverable	: Prototype
Dissemination level	: Public
Licence	: Creative Commons Attribution 3.0 License
Version	: 4.1
Contractual Delivery Date	: 31 July 2015
Actual Delivery Date	: 31 July 2015
Contributing WP	: WP2
Editor(s)	: Guglielmo De Angelis, Jean Simard
Author(s)	: Mehmet Albayrak (BOC), Francesco Basciani (UDA), Antonello Calabrò (CNR), Massimo Casali (MAR), Guglielmo De Angelis (CNR), Caleb James DeLisle (XWIKI) Nesat Efendioglu (BOC), Sandro Emmenegger (FHNW), Damiano Falcioni (UNICAM), Daniele Gagliardi (FHNW), Tom Jorquera (LIN), Jean Simard (XWIKI), Giorgio Oronzo Spagnolo (CNR), Wilfrid Utz (BOC)
Reviewer(s)	: Andrea Polini (UNICAM)

Abstract

Deliverable D2.2 consists of a first version of the Learn PAd core platform. The deliverable is of software nature. In this accompanying documentation we provide a mapping of places and links from where the “official” released version of prototype at M18 can be retrieved, as well as instructions for experimenting it.

Keyword List

platform, prototype

Document History

Version	Changes	Author(s)
0.1	ToC	Jean Simard
0.2	ToC	Jean Simard
1.0	First Draft	Jean Simard
2.0	Internal Release	Guglielmo De Angelis
3.0	Candidate Final	Guglielmo De Angelis
3.1	Added clarifications about the Learn PAd Developer Space	Guglielmo De Angelis
3.2	Added clarifications about the Learn PAd Developer's Repository	Guglielmo De Angelis
3.3	Added clarifications about the Testbed	Guglielmo De Angelis
3.4	Typos fixed	Jean Simard
4.0	Final Release	Antonia Bertolino, Guglielmo De Angelis, Jean Simard
4.1	Typos fixed	Antonia Bertolino

Document Reviews

Release	Date	Ver.	Reviewers	Comments
ToC	1 Jun. 2015	0.2		
Draft	26 Jun. 2015	1.0		
Internal	17 Jul. 2015	2.0	Andrea Polini, Antonia Bertolino	
Candidate Final	24 Jul. 2015	3.3	Antonia Bertolino	

Table Of Contents

1	Introduction	1
1.1	<i>Structure of the Deliverable</i>	1
2	Developer’s Repositories	3
3	Working with the Learn PAd Platform	5
3.1	<i>Get the Sources and Build the Platform</i>	5
3.2	<i>Run the Platform</i>	5
4	A Testbed for the Learn PAd Platform.....	7
	Bibliography	9

1 Introduction

Deliverable D2.2 “Core Platform Implementation” concerns the first version of the Learn PAd platform. This informal accompanying document points out the links and places where the source files as well as related information about this first prototype can be found. It is not a detailed explanation of the architecture of the platform which you can find in deliverable D2.1 *Platform Architectural Description* [2] neither it will explain implementation choices.

A more focused description about both the best practices, and the tools that have been setup in order to facilitate the development and the deployment of the Learn PAd prototypes were presented in the deliverables D7.1 [4], and D7.2 [1].

1.1. Structure of the Deliverable

The document is organized as follows:

- Chapter 2 reports how to access both the source-code repositories and the other facilities available for the developers of the Learn PAd platform;
- With respect to the open-source software, Chapter 3 describes how to access and build the *core development projects* [4] in the platform;
- Chapter 4 introduces to a running instance of the Learn PAd Platform that the consortium makes available as a testbed.

2 Developer's Repositories

As stated in the Consortium Agreement, most of the source code of the platform is placed under the open source license (defined and certified by Open Source Initiative). Therefore, the source code of the Learn PAd platform that is released under any open-source licence can be accessed on the web at the following address:

<https://github.com/LearnPAd/learnpad>

Since every partner is using `git` and GitHub¹ to implement, this link is always an up-to-date version of the Learn PAd platform. Nevertheless, a snapshot of the Learn PAd Platform version “officially” released at M18 can be downloaded at:

<http://www.learnpad.eu/docs/learnpad-master-M18.zip>

The status of the build of the platform is monitored by means of Travis-CI² and is accessible at the following link:

<https://travis-ci.org/LearnPAd/learnpad>

Travis-CI reports each time the build of the last version of Learn PAd is breaking.

Parts of the Learn PAd platform are released under closed-source licences; specifically this software is mostly related to the development of the modelling environment. The Learn PAd Modelling Environment implemented on the ADOxx meta-modelling platform is accessible at the Learn PAd Developer Space:

<http://www.adoxx.org/live/web/learnpad-developer-space/space>

The latest version of the Learn PAd Modelling Environment implemented on the ADOxx platform can be freely downloaded at:

<http://www.adoxx.org/live/web/learnpad-developer-space/prototype-v3.0>

¹<http://www.github.com>

²<https://travis-ci.org/>

3 Working with the Learn PAd Platform

In the following it is reported how to get, to build, and to run the Learn PAd platform from the source file under a linux-like operating system.

3.1. Get the Sources and Build the Platform

The first action required is to locally clone the Learn PAd repository from GitHub:

```
git clone https://github.com/LearnPAd/learnpad.git
```

Once the repository is cloned, it could be required to import possible sub-modules:

```
cd learnpad
git submodule init
git submodule update
```

Finally, the build can be triggered by running the build script in the root directory of the project.

```
./build
```

3.2. Run the Platform

After the build, a complete wiki instance will exist in the directory `lp-platform` and this will be the core of the platform. In order to run the platform, the following command should be run from a terminal:

```
./lp-platform/out/start
```

The running instance of the platform can be stopped by launching command:

```
./lp-platform/out/stop
```

Once an instance of the Learn PAd platform is started, it will be accessible on your local machine at `http://localhost:8080`.

4 A Testbed for the Learn PAd Platform

A running instance of the Learn PAd platform is also deployed on an XWiki server for testing purposes. It allows to manipulate the platform in a pretty recent version. A new deployment is done every time a significant new feature has been added or a blocking bug has been fixed. This instance is available at the address:

<http://testbed.learnpad.eu/>.

The main goal of this testbed is to facilitate the developers of the several components aggregated into the Learn PAd Core Platform [2] to test how their own software interacts with the components developed by the other partners. This testing server may change a lot along time because of manipulations of partners. The actual demonstration environment for the Learn PAd platform will be deployed later on a dedicated virtual-machine into the Mcloud platform, i.e., the IAAS cloud service provided by Regione Marche. Needed formal activities to enable the switch of the server have already started since April 2015.

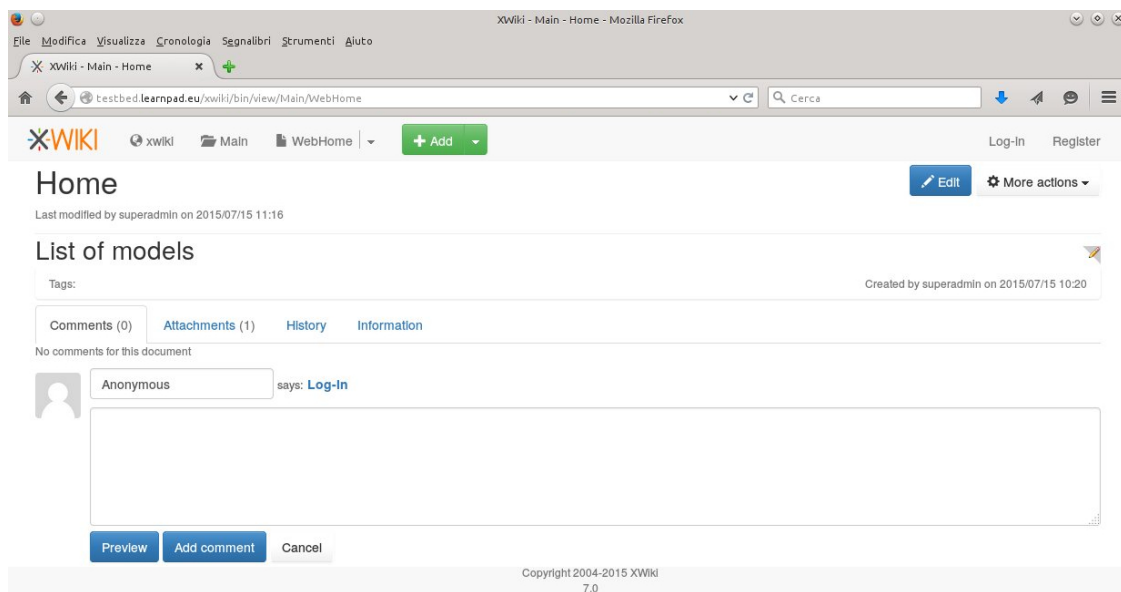


Figure 4.1: Learn PAd Platform Testbed

Note that by accessing the testbed with a browser, it returns the web pages of the running instance of the platform. Often, these web pages may result or appear empty (see Figure 4.1), but this is normal. In fact, as described above the main purpose of the testbed is to provide a technical mean to the developers in order to test their components; thus the most proper way of interacting with the testbed is not with a browser, yet. Also, since it's a testing server, data may be erased either at each new deployment, or periodically.

In this platform, you are able to upload a new model from one of our Modelling tools (e.g. MagicDraw or ADOxx). Modelling tools are then able to verify the models (please refer to deliverable D4.1 [3] for more details about the verification process). Once the models have been verified, they are imported into the wiki.

All imported models are listed in the main page and you can browse them. For each element of the model, a *feedback* button is available at the bottom. If the civil servant, looking at the model, wants to give a feedback about the current page he/she is browsing, he/she can do so through these buttons. All of these feedbacks are aggregated and sent to the modelling tools when asked. The modeller can then try to address the feedbacks in order to improve the models.

Bibliography

- [1] F. Mancinelli, editor. *Integration Tools and Systems*. Number Del. D7.2. The Learn PAd Consortium, 2014.
- [2] F. Mancinelli, editor. *Platform Architectural Description*. Number Del. D2.1. The Learn PAd Consortium, 2014.
- [3] B. RE, editor. *Quality Assessment Strategies for BP Models*. Number Del. D4.1. The Learn PAd Consortium, 2015.
- [4] R. Woitsch, editor. *Project best practices, support tools and integration plan*. Number Del. D7.1. The Learn PAd Consortium, 2014.