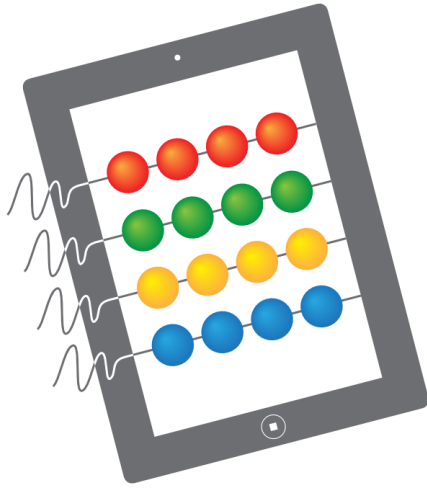




FP7 ICT STREP Project



LEARN PAD

Deliverable D2.4

Core Platform Implementation

Second Version

<http://www.learnpad.eu>



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Abstract

Deliverable D2.4 consists of a second and final 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 M27 can be retrieved, as well as instructions for experimenting it.

Keyword List

platform, prototype

Document History

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0.1	ToC	Jean Simard
0.2	ToC	Jean Simard
1.0	First Draft	Jean Simard
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3.0	Candidate Final	Guglielmo De Angelis, Jean Simard
3.1	Added clarifications about the Example of models available in the platform	Guglielmo De Angelis
4.0	Final Release	Antonia Bertolino, Guglielmo De Angelis, Jean Simard

Document Reviews

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Candidate Final	29 Apr. 2016	3.0	Antonia Bertolino	

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1 Introduction

Deliverable D2.4 “Core Platform Implementation - Second version” concerns the second and final 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 final 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* [1] neither it will explain implementation choices.

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;
- Chapter 3 points to every piece of available documentation and communication with the community
- With respect to the open-source software, Chapter 4 describes how to access, to build, and test the *core development projects* [2] in the platform;
- Chapter 5 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 M27 can be downloaded at:

<http://www.learnpad.eu/docs/learnpad-master-M27.zip>

The status of the build of the platform is monitored by means of the continuous integration tool 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-v5.0>

¹<http://www.github.com>

²<https://travis-ci.org/>

3 Documentation of the Learn PAd Platform

In general, any documentation will be find in the Source Code repository. The main entry point to the documentation is the `README.md` file.

<https://github.com/LearnPAd/learnpad/blob/master/README.md>

On this documentation, you'll find an up-to-date status of the build of the platform (coming from Travis-CI), a presentation of the platform as well as the Learn PAd project in general and some instructions to build and execute the platform.

Also, you'll find some specific documentation for each component inside each folder. For example, documentation of the Collaborative Workspace component can be found in the `README.md` file inside the folder `lp-collaborative-workspace`.

<https://github.com/LearnPAd/learnpad/blob/master/lp-collaborative-workspace/README.md>

Other interesting piece of documentation is the interaction with the community. Keeping historic of every problem that happened or every contribution is an important documentation. For all contributions, they can be found on the Pull Request interface of Github.

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

And also, every issues raised by the community can be found on Github.

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

4 Working with the Learn PAd Platform

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

4.1. 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
```

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

```
./build
```

4.2. Run the Platform

After the build, a complete Learn PAd instance will exist. Each independent component provides anything needed to be executed in its `out/` folder: a `start` and `stop` script with all needed resources. Each one of the component can be executed with the `start` script. However, a convenient script allow to run all the components at once by running the following command should be run from the root of the project in the terminal:

```
./launch start
```

All running components can then be stopped with the similar command:

```
./launch stop
```

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

4.3. Example of Models

The Learn PAd Platform version “officially” released at M27 includes the models files that have been developed for, and used during the demo for the Y2 Review. Such models can be used for testing and practising with the platform without the need to instantiate from scratch the a new set of models. Each model instance is distributed in two different formats:

- a file representing as modeled by the Learn PAd modelling environment in ADOxx (i.e. `.adl`),
- a ZIP archive containing (i.e. `.zip`):
 - an XML file representing the complete Learn PAd model-set instance
 - an image for every model from the model-set
 - a map defining clickable area of the image for each model of the model-set (i.e. `.map`)

- a BPMN 2.0 XML file for every business process in the model-set (i.e. .bpmn)

The models can be imported into the platform using the following command line

```
curl \
  --verbose \
  --user "superadmin:LearnPAss" \
  --request PUT \
  --header "Content-Type:_application/octet-stream" \
  --data-binary "@<modelset-file>" \
  "http://localhost:8080/xwiki/rest/learnpad/me/corefacade/importmodelset
  /<modelsetid>?type={ADOXX|MD|LPZIP}"
```

where <modelset-file> is the path to the model-set file to be imported, while <modelsetid> is an arbitrary (unique) identifier of the model-set inside the platform.

In the M27 release, the models refer to the business process *Titolo Unico* within a *SUAP office*. Specifically *Titolo Unico* is the standard set of procedures to follow in order to start a new business activity; while the *SUAP office* is the designated office in the Italian Public administrations that regulates and coordinates entrepreneurs setting up a new company.

The files in the platform are located into :

learnpad/lp-model-environment/src/test/resources/LearnPAd-Y2-Models/

where the folder *SUAP-TitoloUnico/CorrectModels* contains models that pass the verification procedures included into the Learn PAd core platform, while *SUAP-TitoloUnico/ModelsWithError*s contains the models with some inconsistencies and failing the verification procedures. Only the models passing all the verification procedures are actually imported into the platform.

After a model-set in *SUAP-TitoloUnico/CorrectModels* has been successfully imported but before testing the platform, the following test-user has to be created :

Name : Barnaby

Surname : Barnes

User-id : bbarnes

e-mail : barnaby.barnes@learnpad.com

5 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` [1] 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.

For the last steps of the project, a evaluation of the platform will be realized on a significant number of real users. These Civil Servants will be presented with another deployment of the platform on the servers of Regione Marche. This deployment will be tested and stabilized, especially on the evaluated functionalities. This deployment on the infrastructure of Regione Marche allow also a better confinement about privacy.

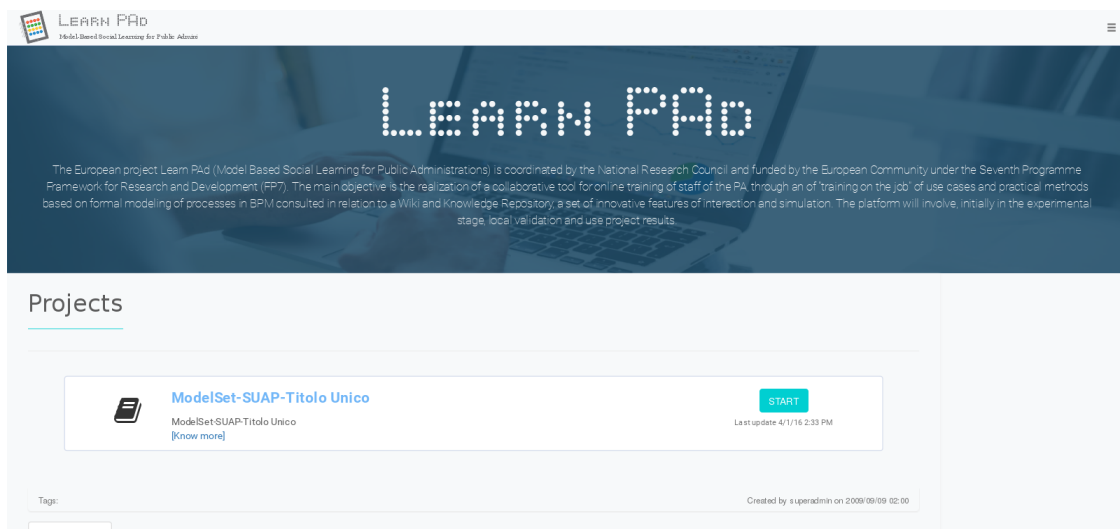


Figure 5.1: Learn PAd Platform Testbed

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 5.1), 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.

Bibliography

- [1] F. Mancinelli, editor. *Platform Architectural Description*. Number Del. D2.1. The Learn PAd Consortium, 2014.
- [2] R. Woitsch, editor. *Project best practices, support tools and integration plan*. Number Del. D7.1. The Learn PAd Consortium, 2014.