H2020-SC1-DTH-2018-2020

CO-ADAPT

Type of Action: RIA Research and Innovation action

Topic: Adaptive smart working and living environments supporting active and healthy ageing

Grant Agreement no: 826266

Open source release of platform
(Deliverable D4.4)

Start date of the project: December 1, 2018   Duration: 42 months

Project funded by the European Commission within the Horizon 2020 programme for research, technological development and demonstration		
Dissemination Level		
PU	Public, fully open	☐
CO	Confidential, restricted under conditions set out in Model Grant Agreement	X
CL	Classified	☐

Notices

For information, please contact the project coordinator, Prof Giulio Jacucci, e-mail giulio.jacucci@helsinki.fi.

This document is intended to fulfil the contractual obligations of the CO-ADAPT project, which has received funding from the European Union's Horizon 2020 Programme, concerning deliverable D4.3 described in contract 826266.

Confidential

Table of Revisions

Version	Date	Description and reason	Author	Affected sections
1.0	31/07/2020	Cover document for open source release	A. Pnevmatikakis, A. Idrizi, G. Matikas	

Author(s)

    −   Aristodemos Pnevmatikakis, Akis Idrizi, George Matikas (iSprint)

List of Abbreviations

Confidential

Table of Contents

1   Executive Summary

The COADAPT project is releasing the code of its platform as open source under the Apache License version 2.0. The goal of the release is to facilitate researchers into building similar platforms for the collection and sharing of data based on strict user roles by adapting the offered code.

This document accompanies deliverable D4.4, Open source release of the platform. The actual deliverable is the open source code of the platform and its documentation.

2   Introduction

The role of the COADAPT platform being release as open source is to collect participants' data and offer them to the front-end applications that need them, while ensuring that these data are displayed on a need-to-know basis, i.e. by enforcing user roles.

The user roles implemented are part of the user management aspects of the platform. They dictate what administrators, sub-administrators, supervisors, therapists and participants can do, i.e. how they can interact with the collected data. These roles form the user tier of the user management data model. The roles are also associated with different organisational levels at the organization tier of the user management data model. These levels are the organisations, their studies, the sites where the later are run and the groups of participants. All these entities of the platform can be found in the Entities project, while the access to their stored instances in the database is established in the Repository project.

The platform exposes its functionalities via a REST API, whose code can be found in the UserManagement.WebAPI project.

3   Open source release

3.1   Repository

The open source release of the COADAPT platform software is hosted on Github as a public project under the Github organisation of Innovation Sprint, the partner responsible for building the software, to be found at:

https://github.com/innovation-sprint-sprl/COADAPT-Platform

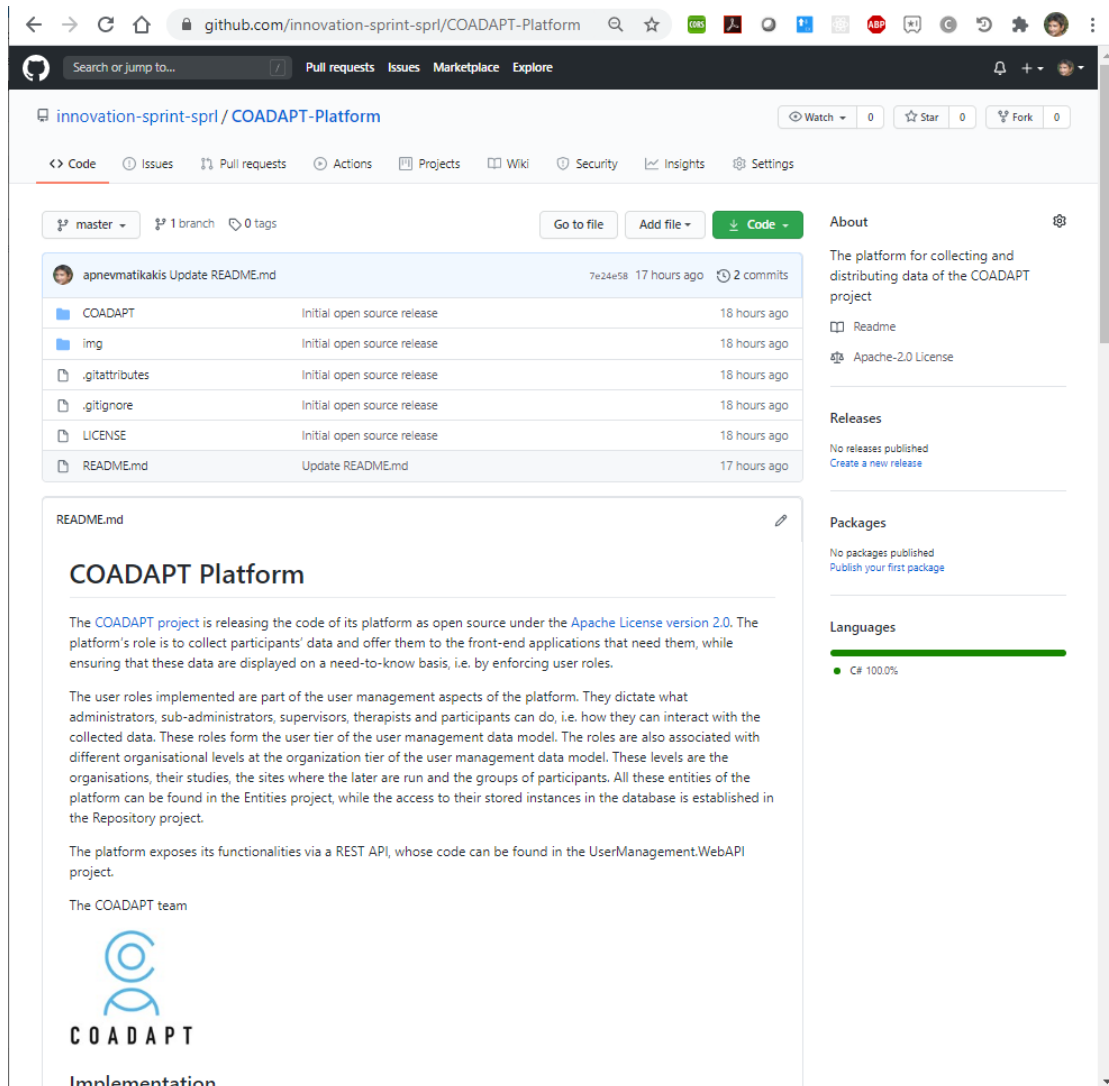A screenshot of the initial page of the project is shown in Figure 1

Figure 1: CO-ADAPT Platform open source release at Github.

The software release id documented in a comprehensive README.md file (the beginning of which is shown in Figure 1), together with installation instructions.

3.2   Platform software

The COADAPT platform is built using C# and the .Net Core 2.2 framework. The database hosting the user management and participant information data is MySQL, built with the Entity Framework and the "code first" approach.

7

To setup the database you need to add your database credentials for the development and production databases in the settings files *appsettings.Development.json* and *appsettings.Production.json* respectively:

```
"MySQLConnectionString": "server=localhost;userid=<Your DB
user>;password=<Your DB password>;database=coadapt; Allow User
Variables=true"
```

Then you need to use .NET Core EF to create the database from the migrations, running:

```
dotnet ef database update
```

from the terminal while in the COADAPT/UserManagement.WebAPI directory.

This will create a data model slightly updated from the one presented in D4.1, since the platform has been updated since the delivery of that document. Essentially the data model depicted in Figure 2 is an update of Figure 1 of Section 4 in D4.1.
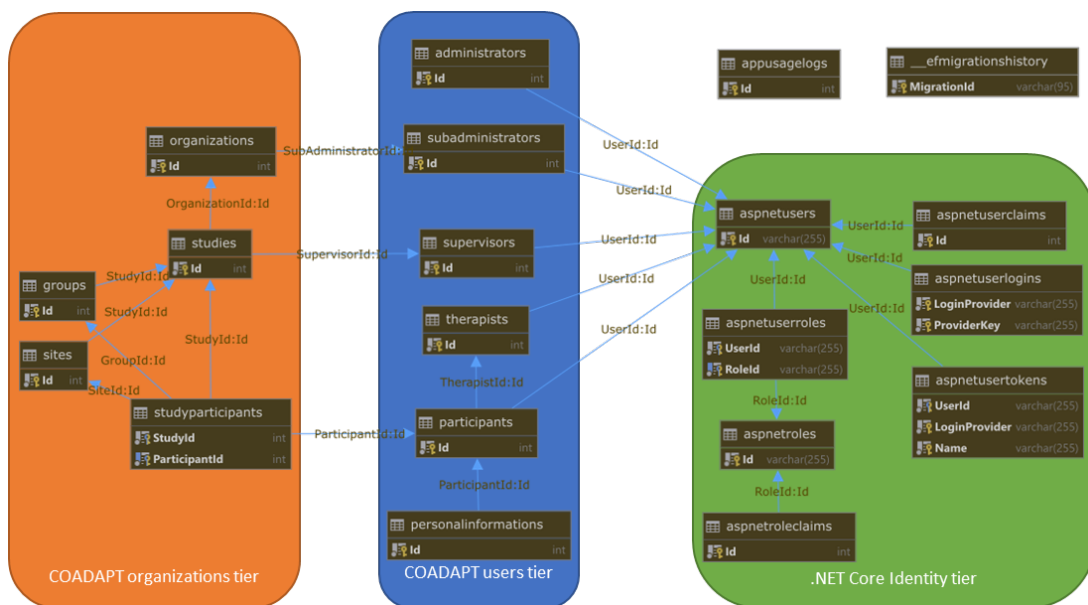

Figure 2: CO-ADAPT Platform data model.

3.3 License

We aimed at a permissive license for the release and chose Apache License version 2.0, allowing any use, commercial or not, of the software. We chose this over the MIT license, since Apache's more explicit wording is more liked by lawyers. We discarded the GPL licenses since we aim at allowing commercial use of the platform software.