Milestone 3

PEI 2019/2020

Group 4 – UA CRIS

Prototype development conditions

Since our project is being designed for the university, we had to have in mind the standards and templates that are already being used.

We began by drawing our idea of the application. Since we have been studying this project since the beginning of the semester, we were able to have a pretty good idea of what we wanted to do.

Having a specific list of key functionalities, such as choosing which publication data to import to RIA, filter the available publications or edit the data to import, we designed the first phase of our prototype.

With this first phase completed we moved on to the second phase, which we presented to our advisor and to three researchers that have been helping us through the semester and have a deeper understanding of the problem at hand.

Their opinion was crucial because they noticed some functionalities of the application that hadn't been integrated, as well as the lack of display of some data that would be helpful for the user understanding of the application.

Adjusting the prototype with the suggestions made, we moved on to the final phase of our prototype, presenting it to what will be our clients.

For the chance to successfully present the progress done so far, we can only thank José Vieira and the three researchers that have been with us since the beginning: Filipe Trancho from sTIC, Luís Carvalheiro from CESAM and Rúben Silva from CICECO. With their help we also reached researchers from IEETA, CESAM and CICECO.

Said connection gave us very good ideas on the user interface side, since they have been importing publications to RIA manually and had a pretty good idea of what would make their life easier.

With this we made our prototype more user friendly and ready to deliver.

Prototype development conditions - Difficulties

When it comes to problems faced, even though we had a pretty good idea of the core functionalities of the project, we do not have nearly enough experience in this matter as people of have been working with RIA.

The opinions from researchers at UA were extremely important but they do not solve our problem that easily. We managed to develop a prototype and define the core functionalities but surely there will be small changes to face the problems we might encounter.

As we dig deeper in RIA's functionalities, we will surely face many issues, not only on what it can and cannot do but also on the comparison of the data we can retrieve from external sources (ex ORCID) and what RIA requires.

State of play

For now we can affirm we have successfully implemented the ORCID and RIA APIs into our project, as well as PTCRISync, originally built in Java, which made it necessary to build an API to make the data available in the framework we are using to develop CRISUA: .NET Framework.

Over the course of the last month the planned tasks were divided in Sprints, according to the SCRUM framework and Agile development. In the said Sprints, and benefiting from the successes mentioned above, we managed to achieve noticeable progress in the growth of the project, as listed below:

- Obtain a list of UU/IUPI from all the UA's researchers in RIA
- Obtain a list of DOIs of the publications from researchers identified in the list above
- Obtain a list of DOIs of the publications through researchers ORCID ID via PTCRISync
- Obtain the list of missing publications (difference) - needs testing
- Establish of the home screen
- Establish the user interface (prototype)
- Choice of the software library from which the user interface will be developed

Future development

Now that we have created the database, the next task is to implement methods to save the metadata extracted from ORCID and Ria.

We still don’t have access to an API that would allow us to inject metadata in Ria’s repository.

As said above, the user interface prototype is now completed, so we will proceed to its implementation in ASP .NET MVC.

We were given a template in this technology (ASP .NET MVC) and we have started working on it to build it accordingly with the prototype, not only the frontend but the integration with the PTCRISync, RIA and the database.