



Platform for widespread uptake of certified, accessible and easy-to-use AAL mobile apps in Europe

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1 Introduction

1.1 About this document

In this document, we propose a guide for developers and users for explaining in the ZocAALo website how to use the platform and the marketplace. The purpose of the guide is to be a help for possible doubt that the different ZocAALo users would need to solve during their experience in the website. In this document, we have elaborated the guide divided in two blocks, developers and users. Cognitiva Unidad de Memoria, has elaborated the deliverable with the collaboration of Tecnalía in the developer's part. The draft versions will be reviewed by all consortium members.

2 Developers Guides

2.1 ZocAALo for developers

Zocaalo is a platform providing a channel of distribution of mobile applications able to improve older people's living conditions. Its marketplace is meant to propose applications whose accessibility, usability and easiness of use are guaranteed. To do this, zocAALo proposes a certification process aimed to validate existing or new applications: the ones complying with zocAALo validation criteria will be included in the marketplace and labelled with a certification seal.

Developers have at their disposal the "ZocAALo styling guide" https://zocaalo.eu/wp-content/uploads/2018/06/zocaalo-ConditionDependentStyleGuide_V1.6.pdf, which consists of a collection of recommendations to improve the usability and accessibility of mobile applications for people with disabilities. The guide tries to provide a group of considerations about how to create multimodal accessible graphical user interfaces for the Android platform with the aid of the ZocAALo Framework design elements.

Additionally, a set of tools to facilitate the design and development of user-centered applications is available in the platform. This set is named "the zocAALo SDK". This SDK (version 1.1 at the time of writing this document) provides the following elements:

- **ZocAALo Styling Elements:** Core library providing enhanced standard Android elements (TextView, Button, etc.) that are customizable, centrally per app and while the app is running.
- **ZocAALo Styling Wizard:** Wizard to change the styles for the Zocaalo Custom Views on the fly.
- **ZocAALo Lint Checker:** Lint checks to make sure that the app uses Zocaalo Custom Views.
- **Swagger Code Gen:** Extension of the Swagger API to generate an Android library handling all synchronisation tasks between the local Android local storage and a back-end.
- **Loc8r Demo for Android:** Android app to demonstrate code generated with Swagger Code Gen for sync between back-end and Android.
- **MeetAAL Demo for Android:** Demo app that shows many of Zocaalo features (mainly Zocaalo Styling Elements and Zocaalo Styling Wizard).
- **ZocAALo App Template:** Empty app that can serve as starting point of a new Zocaalo app. It contains main app setup, making use of Zocaalo Custom Views (Styling Elements), Zocaalo Styling Wizard and ZocAALo Lint Checker.

After the development of the application, developers will need to get the ZocAALo certification seal. Once obtained, the application will appear in the ZocAALo marketplace, a place where relatives, caregivers and professionals will search for the most suitable and trusted applications oriented to elderly people.

2.2 Do I need an account?

You will need to register as a ZocAALo developer in the Marketplace (<https://zocaalo.eu/my-account/>) and follow the guidelines to start the certification of your application. During the certification step, an automatic process will analyse the application source code and its user interfaces for usability and accessibility rules according to the Zocaalo styling guides. ZocAALo technicians and their automated systems will be responsible for validating applications to confirm that the requirements detailed in the zocAALo certification process are fulfilled. An exclusive metamodel will certify that the applications that developers want to publish are accessible and usable by senior users, so the applications that pass the analysis of this automatic certification tool receive the zocAALo certification. To confirm that the metamodel is valid it has been analyzed and questioned by a group of fifteen experts and recognized experts, outside the consortium of the project. End-user-oriented organizations and external qualified professionals are involved in ZocAALo to verify what elderly people need and those perspectives are taken into account within the certification platform.

Finally, your application will be available in the ZocAALo marketplace, a place that will allow you to expose your products, so they are easier to find and compare by buyers. One of the advantages of selling or offering services through a marketplace is that it groups a wide variety of products in a single space, and allows suppliers to care about marketing, positioning, and brand building. An added feature of the marketplace is that it will have the right to accept or not some sellers or products depending on your business model and the certification process. The zocAALo platform's marketplace will be used both by seniors and by professionals working directly in this sector, such as caregivers, nurses or educators. It does not pretend to compete against Google Play Store or App Store, but wants to be a tool promote the disseminate AAL solutions.

3 Users Guides

As it is mentioned before, the guide will be inserted in the website and it will be divided in two sections: developers and users. In the “users section” of the website, it will appear at the beginning the next text:

"Do you use applications that help you to take care of your health and well-being or your elderly family member or friends?"

"Are you still not familiar with the use of this kind of tools, but would you like to use it safely and with guarantees?"

"Would you like to know what applications are specially designed to be accessible and easily used by elderly people?"

ZocAALo is the solution!

Access to our Marketplace which offers the most suitable and trusted application oriented to elderly people.

In the website, the different title’s sections will appear and when you “click” on it, the information about this section will become unfolded.

3.1 Zocaalo for end-users

As a possible user interested in the platform, you should know that when you browse the web you will find one hand information for development companies and information and sections for the applications end users. The end user’s section is the “Marketplace”, where you could find the applications you need and those that offer guarantees.

3.2 Do I need an account?

For knowing the information that the Marketplace offers and as possible final user of applications that are in it, you do not need a user account of zocAALo. This is mainly aimed for application development companies, interested in their applications pass the certification process that makes them accessible and easily usable for the elderly people.

3.3 3.3. How to look for an application

Once we access to the Marketplace, all the available applications will appear, in the upper left corner we can see which ones have the "ZocAALo certification seal" which

guarantees that it is an application that complies with the accessibility and usability rules for the elderly.

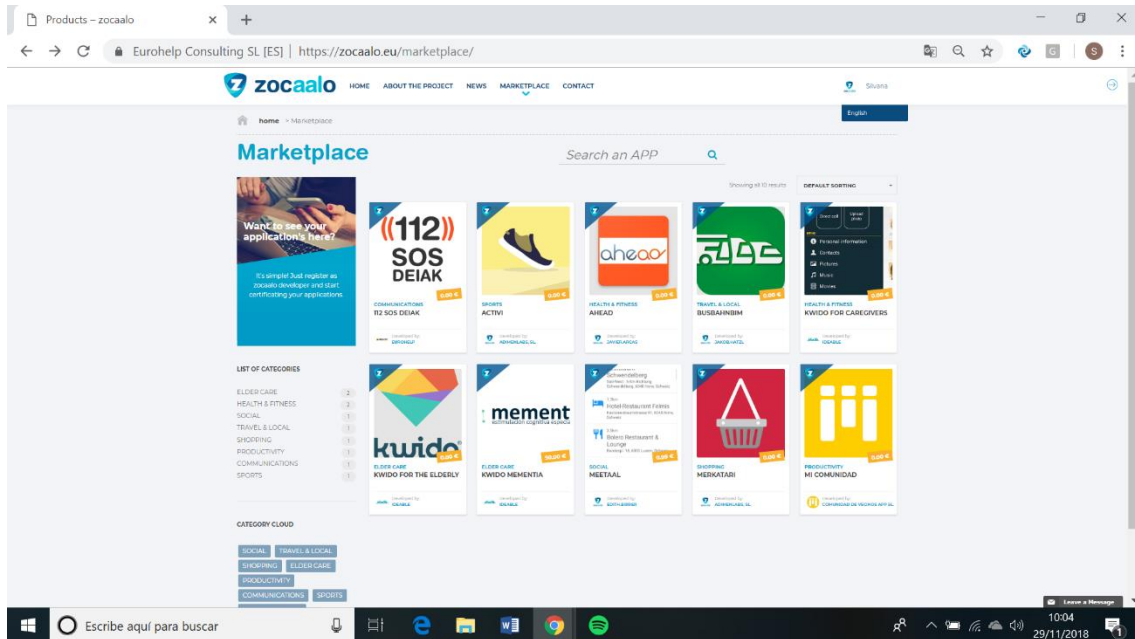


Fig. 1 zocaalo marketplace apps (seal in the up left corner)

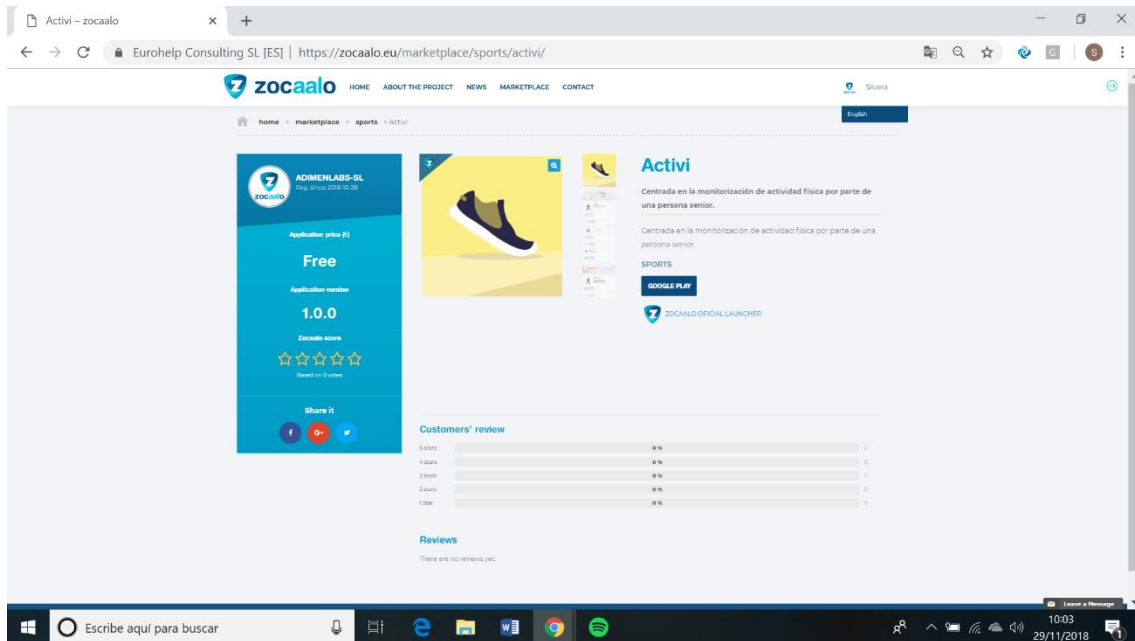


Fig. 2 zocaalo 1 apps look (seal in the up left corner)

As you will notice, the applications are order by default, but you can arrange them as you prefer using the tab on the right.

Likewise, the Marketplace offers a “search option” where you can write the name of an application you know or which you are interested in and you can know if it is available in our Marketplace.

3.4 Is it possible not to be the app that I am looking for?

Yes, in the ZocAALo Marketplace we can find those applications set aside for older people, whose developers would like to obtain the "ZocAALo certification seal". Our goal is that in the near future the project could be widely known and the largest possible volume of applications for this sector of the population wants to have it as guarantee. But initially it is possible that some application developers do not know it yet and therefore it is not yet included.

3.5 How to know if an app is interesting for me

Once we access the Marketplace, and find our desired application or we want to know more about an available application, we can access to the information by clicking on the name, inside the box.

In this way, we could read the descriptive information of the application, and we could see pictures about it in the central part of the window, and also in the blue box on the left we can know who is the developer of the app, what is the price (or if is free), which version is the most current, as well as knowing the users' score. This rating can be from two sources, the score of the ZocAALo users, or from the Google Play users.

3.6 Why the “ZocAALo certification seal” offers quality guarantee

The applications with the “ZocAALo certification seal” have successfully passed a certification process in which the aspects necessary for an application to be accessible and easily usable by older people have been assessed. In this process end-user organizations and qualified professionals are involved to verify what elderly people need and those perspectives are taken into account by the certification process that the platform subsequently carries out.

3.7 How to download an app

Once we are interested in an available application and want to install it on our device, we must continue the process by accessing "Google Play", access to it is facilitated through the blue button that appears below the application information. Clicking on that button, zocallo website will open a new window in Google Play to continue with the download and installation process. Once we do it, we can enjoy the application on our device.

3.8 Is it necessary to download the apps using "Google Play"?

Yes, ZocAALo Marketplace works as a specific search engine for applications that are easily accessible and usable by older people, but the subsequent download and installation process must be done through Google Play.

3.9 How to value and make a review for an app

It is not activated, because administrator had to review the qualification and in future it will be automatically.

3.10 Do you have any question?

For any questions or suggestions about ZocAALo, you can contact us through the form found in the "Contact" tab of the top panel of the website. Complete the fields that and send us your suggestions, we will be happy to help you.