

Interacção Pessoa-Máquina

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Drops

Stage n: 4



Realizado por:

48157, João Reis

52315, Sofia Rocha

52748, Xavier Pacheco

53657, Carolina Lopes

Lab class N° P1

Group N° 8

Professor:

Teresa Romão

URL of our prototype

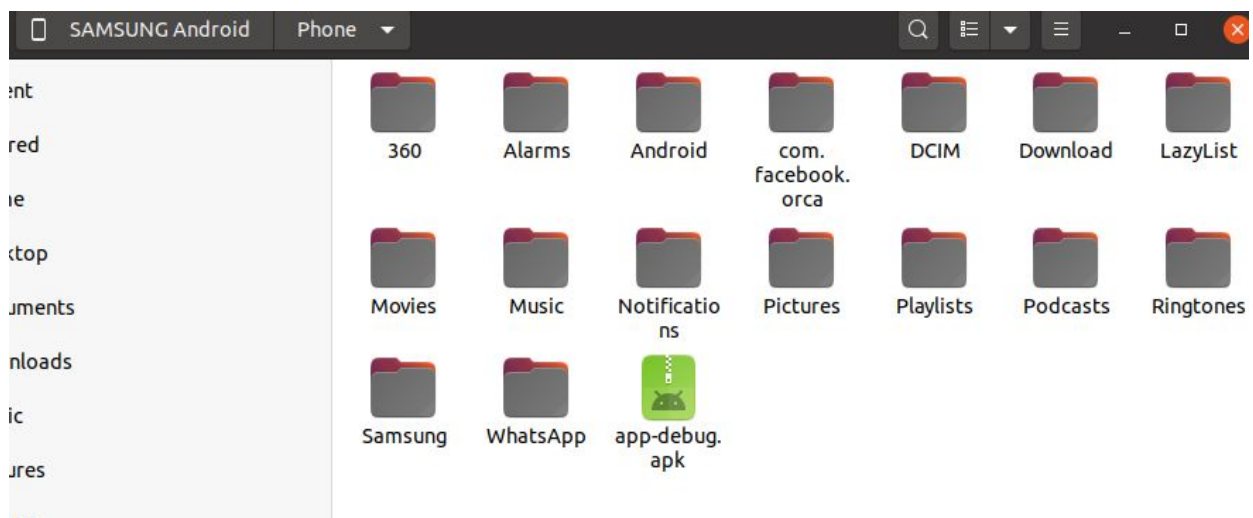
Our prototype is available for downloading on our project website page.

The download is available on: [Google drive](#)

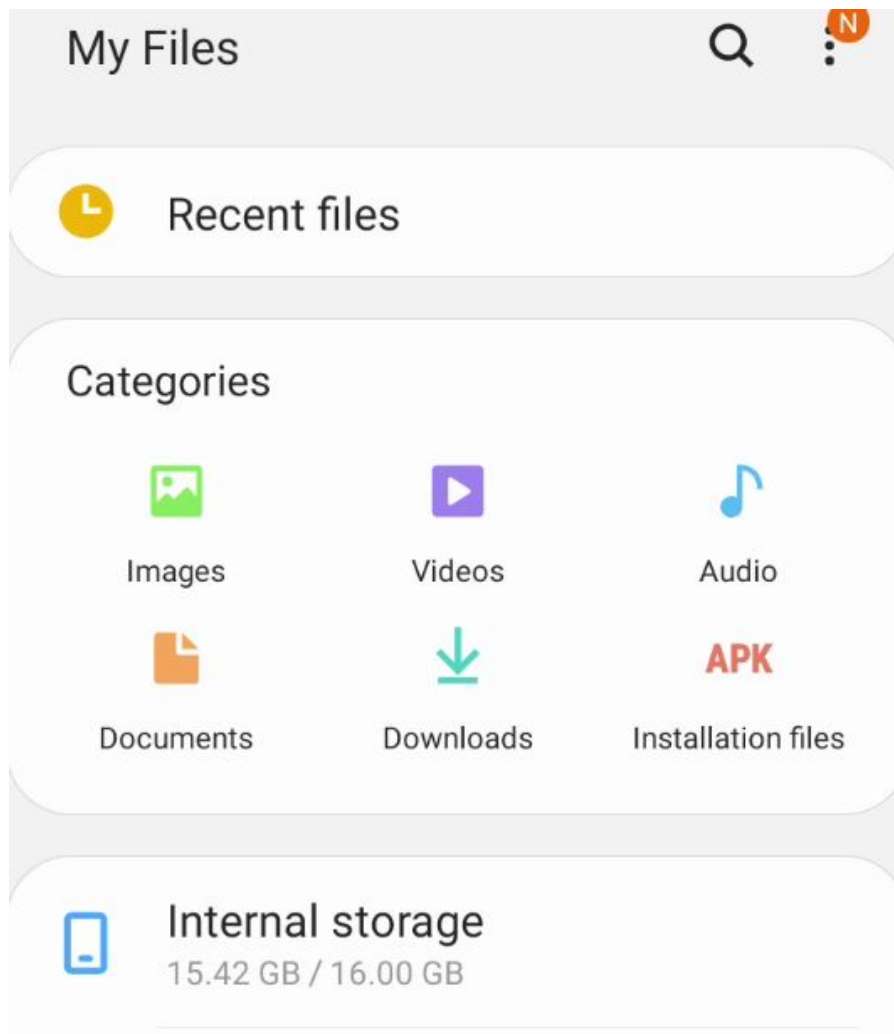
Startup instructions

Firstly, go to our website and press on the download button.

You will be prompted with a google drive transfer button (if not, change to your fct email and try again please). To run our prototype you need to have your mobile phone in programmer mode. To do this, it's necessary to access the device settings and press the build number 7 times. After that connect the phone with a USB cable and put the apk file in the "phone" directory.



After that access your file managers and you should see an APK category.



Press it, navigate to our apk (you can identify it by the logo) and press install.

If you are prompted with a security risk option Press Install anyway (this is because android Os declares every non play store app as a security risk. If you are unable to install it please check your available storage, you should have at least 20MB. Please make sure the apk name is app-debug.apk (and not i.e app-debug(1).apk).

Briefing

We start our sessions by providing the users a brief sum of our project.

Our project consists of an “uber like” drycleaning service. The service contains structures around the city where you can rent “drawer-like” containers where you put your dirty laundry.

A distributor will pick up your containers and drop them off at the designated dry cleaner. The dry cleaner will then receive your clothes and do the treatment you requested. After that the process is reversed and you will be notified when your laundry is available for pickup at your preferred structure.

Scenarios

Our scenarios are all in different points of view. For this reason, if you desire to use the application from a specific role you must log in in that perspective, by ending your current session, if necessary.

First Scenario – Client

This first scenario is in the perspective of a customer.

Mr. John needs to wash his clothes, but he is very busy today. He has just acquired a new credit card and wishes to add it and use it in the app. The card details are : 1111222255556666; Date:12/20; ccv:568.

Then, he goes to the closest structure and reserves a new container.

He desires to wash his colored clothes with a medium cycle, drying and also ironing.

He didn't have a preference for any dry cleaner.

Second Scenario – Distributor

This second scenario is in the perspective of a distributor.

Mr. Anthony is a distributor and he has just arrived at Lisbon's pickup structure.

He needs to know which containers are supposed to unlock to pick up, put them in his car so he can deliver them to the laundry.

He also needs to leave the container 4, 6 and 12 in the structures so the clients can get their clothes.

After doing that he needs to go to Sarah's Laundry and drop off the containers there.

Third Scenario – Laundry

This last scenario is in the perspective of a laundry worker.

Mrs. Sarah has a laundry. She received a new container and needs to admit in the app, so she can open it.

Then she wants to wash the clothes and puts all the containers that arrived in the laundry to wash.

While she waits for the clothes to finish washing, she needs to know if there are containers ready to go, because she wants to put them in the proper place at the laundry, waiting for the distributor to arrive.

After that she wants to see if Mr. John, her favorite client, has all his containers ready to go.

URL of our project

This is the URL of our project website, where you can find a little bit of our project evolution: <https://drops-info.netlify.app/> .

Initially, our project title was Bubbles Express, but we decided to change it to Drops, because we thought it was a name that best captured the idea of our project.

For the development of our application we used Android Studio.

Our application limitations:

- In our prototype we didn't develop the map menus in the customer and in the distributor apps. Therefore, we decided, for the purposes of testing, that the prototype would implement a screen where it's possible to select the current location of the user and the driver (the user can be at the structure and the

driver can be either at the structure or at the laundry). The reason for this is because our app only allows the containers to be locked and unlocked near a designated structure and this was the best way we found to emulate this behaviour.

- We also assume in our prototype that there is only one customer, one distributor and one laundry (it's the default laundry).
- The scanner feature checks in all the containers that arrived at the Laundry and have not been checked in yet. You cannot see in the app how many there are to check in because you would physically see in the structure how many were to check in.
- There are only 5 containers in the system.
- Considering that our application is very practical we assume that when a customer reserves a new container, there is a light that indicates the container that is unlocked and the customer must take (all the others are locked). And for this reason there is no feedback on the application about the reserved container or the available ones.
- When an order is ready for the customer to pick up and he terminates the order, he needs to go to the profile page and then come back to the containers list and then finish the order.
- We also ask for special attention for using only the application's bottom navigation bar when you are at one of the principal screens. To emulate the dropoff and pickup, activities you would physically do, we decided to place the trigger on the back button, therefore to be successful you need to unlock and then press the back button.
- When the customer adds a new credit card this is not selected so the user needs to select it manually. To prevent problems we decide to give special feedback when the user tries to add an order with no card selected.
- When the distributor delivers containers (at the laundry or at the structure), the number of the orders completed increases. That should happen too in the laundry profile, but how it's similar to the distributor, it's not implemented.