

Assignment 5

Video Report

Paper Prototyping

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Contents

1	Introduction	2
2	Video Feedback Analysis	3
2.1	Expectations versus Reality	3
2.2	Statistics Analysis	3
2.3	Suggestion-based Improvement	7
3	Paper Prototyping	8
3.1	Prototype Description	8
3.2	Key Tasks	11
4	Conclusion	11

1 Introduction

Our app is a social media which allows its user to discover new information about people who left their footprints in history. Every user-page functions as a box where the historical profiles unlocked by the user are displayed. To unlock a historical profile, firstly the user can take a picture of herself or of another person, and then the app will associate this picture with a historically relevant person, such as Socrate or Abraham Lincoln, for example. Alternatively, the user can unlock this profile through her friends. And here the social side of the app comes into play: when the user decides to share her discovery with her friends, the unlocked historical profile is made visible on the public feed - where all the discoveries achieved by the user friends are displayed.

With our app - called V.I.P. - our goal is double. Learning in a funny and social way and challenging a popular nowadays conception of VIP, suggested by other apps like Instagram, where the VIP are often defined as very important for superficial reasons - while of course our VIPs have been selected according to their impact on society, politics, science, philosophy, economy, art, etc.

Through a one minute video, we tried to transmit an idea of learning which can defeat boredom by means of the social and interactive nature of our app. For this reason, we divided our video in three parts. In the first one, we depicted two young boys in a state of boredom. We enhanced this feeling by portraying them in very heavy and gloom environments, full of cement and dull colours - and with a plain music playing in background. Then we have the moment of the discovery, during which a third person shows the app to the boys. And finally, on a shining meadow, with a music full of energy, we show social and funny interactions between the two initially bored boys and other young people, thus suggesting that our app, by its funny way to share knowledge, can make the difference when we do not want to feel bored. Of course, after the discovery part, we included in our video also a moving frame in which we show the actual app while it is working.

While the premise of our video sounded to us fairly convincing, the feedback that we have collected after having shown the video to two class of young girls and boys was much more eloquent. In the next section, we will dive deeply into the collected data to understand if these two gentle and willing classes, or at least a part of them, actually liked our idea and if our video was clear and persuasive enough to make them like it.

2 Video Feedback Analysis

2.1 Expectations versus Reality

TODO (Stefano)

2.2 Statistics Analysis

The video made during the last group project showed the children how our application should work and in which way it can be used. This experience was incredibly useful in terms of feedback mainly due to the data gathered from the questionnaire that the kids filled out.

The aim of this section is to analyze the results of the questionnaire from a statistical point of view and try to get the maximum out of the data collected. In order to achieve this, we will first look at the samples we gathered the data from and we will then go through each different type of information collected. With this in mind, we will be on the perfect track to perform an analysis of the main ideas and tendencies qualitatively, before moving onto a quantitative step by representing the data collected through graphs for easier readability. Finally, we will conclude our analysis by enumerating and discussing the suggestions that have been made by the children.

The Sample - Where does our data come from?

The quality of a study depends on numerous factors such as the tools used, the way the data is represented, the pertinence of questions and so on. However, among all of this, a primary one, essential for a good study, is the sample, that is to say, the source from where the data is collected from. For this project, our sample consisted of 128 children aged from 11 to 12 years old. This is undoubtedly a good source of feedback, firstly because our application targets this specific demographic and, secondly, because we got a large number of different opinions making this already a rather good basis for our project. That being said, one opinion was stating that the application was more suitable for younger children, thus, it would have been interesting to have some children aged of 9 to 10 in order to see if their opinion would have drastically changed or not but in a general way, we consider our data as reliable.

The Type of our Data - What did we get?

As if finding a good sample was not difficult enough, another essential factor is the quality of the questionnaire and this becomes especially true in the case of children. The questionnaire was made to give the children the ability to develop their ideas and bring suggestions, meaning that all the answers given were, before all, qualitative and not quantitative. In other words, the data consisted of very heterogenous answers, some very developed whereas others were binary. This brings variety to the data along with a layer of complexity in terms of analysis as it becomes harder, and to an extent subjective, to really “count” the opinions. In order to best capture this information, we chose to perform a qualitative analysis first by highlighting the general tendencies of the answers before doing a more “robust” quantitative analysis. Keeping in mind the data we have,

our analysis has, of course, a part of subjectivity and there would be probably some other way to analyze it.

General Tendencies - What came out of this globally?

Before trying to put our data in a numerical form, we can already look at it to get a general tendency. When we speak about general tendency here, we are not talking about the variance, but simply referring to main ideas or opinions that come out of the data. We were able to identify three general tendencies:

Application useless and potentially boring in the middle/long term That was, unfortunately, one of the main tendencies. A certain part of the opinions has pointed out that our application would be simply useless or boring relatively quickly. The problem was that in all these opinions, almost no real reason was given. One was pointing out that he prefers playing “real games” than educational apps and another more interesting opinion admitted that even though he found the idea was great, he would be bored quite quickly due to the fact that the picture taking process is repetitive.

Application very interesting and original for the learning process and the discovery of history through it Fortunately, there was another main tendency, even more present than the first one, that finds the application really interesting and the idea original. The kids pointed out that the learning process embedded in the app under the form of an interactive game would not only be interesting in terms of knowledge but also nice for comparing the portrait with other people. Globally, the children seem quite interested by the famous people especially for the history behind them; some opinions stated that it would be a funny way to learn history. Two children said that they found the idea great because they would discover new areas of interest. This process of learning and discovery was one of the main objectives of the app and thus, hopefully, the children seem to agree on that.

Partial or total misunderstanding of the application concept A third tendency, less present than the other two is a partial or total misunderstanding of the app. In other terms, the children did not understand the idea behind the app. Some of them were honest and wrote it, while others, through their comments, were taking the app for something else (a scanner, a snapchat filter extension with old portraits, ...). And in our opinion, this tendency is even more present than we think for the simple reason that a lot of opinions were binaries, that is to say, “yes” or “no”; thus probably, a part of these children did not understand well the concepts and simply gave “no” as an answer. After having discussed between us, it is true that our video was probably kind of unclear for the children that were not in the front of the class and instead of putting a music with texts, a voice would have probably helped them understanding the app better.

Quantitative Analysis - Can we make the data more readable?

By definition, qualitative answers like our data are more complex to analyze for the simple fact that they are not numbers (scale, ratio, ...) and consequently, constructing graphs and other representations becomes harder. Thus, we had to find a way to convert our data in a quantitative way. We decided to get two main ideas out of the data:

Do the child like the app? Would they use it?

Both of these opinions are put on a scale from 0 to 2, 0 being absolutely not, 1 being maybe, 2 being for sure. For every opinion out of the 128, we took the freedom to grade it accordingly to this scale. For us only, we added two more columns, a binary one for the writing (if the child writes correctly or not) and one for the class the child was in (first or second class). We wanted to highlight a potential correlation between their ages or their level at school and their opinions on the app. However, we didn't get any really meaningful correlations.

Page n.	Do you like it?	Would you use it?	Writing	Class	Notes
	0 - nope	0 - nope	0 - bad	1	Suggestions, ideas, problems, ...
1	0	0	0	1	
2	0	0	0	2	
3	0	0	1	1	
4	1	0	1	1	not suitable for kids
5	1	0	1	2	
6	2	2	0	1	
7	2	2	1	1	
8	1	1	1	1	
9	0	0	1	2	
10	2	2	1	1	make the app faster and easier
11	2	2	0	1	change the background
12	1	2	1	2	
13	1	0	1	1	explanations in the app
14	2	2	1	2	it is good to learn in a funny way
15	2	2	1	1	
16	1	0	0	2	
17	2	2	0	1	
18	2	0	0	1	innovative idea but not useful for children
19	2	2	0	2	adding fuctionalities to modify pictures
20	1	2	1	2	
21	1	0	0	2	
22	2	0	0	1	
23	2	2	1	1	
24	2	1	0	1	maybe adding some functions (but nothing specified)
25	2	2	0	2	
26	1	0	0	2	
27	2	1	0	2	
28	2	2	1	1	
29	2	0	0	1	

Figure 1: A sample of our summarized data

Now that we have a quantitative representation, we can build two graphs (figures 2 and 3) in order to make a more robust and precise analysis of our data based on the two questions above. We chose to represent the data as histograms and below is the summary of the responses to the first question, “do the children like the app?”.

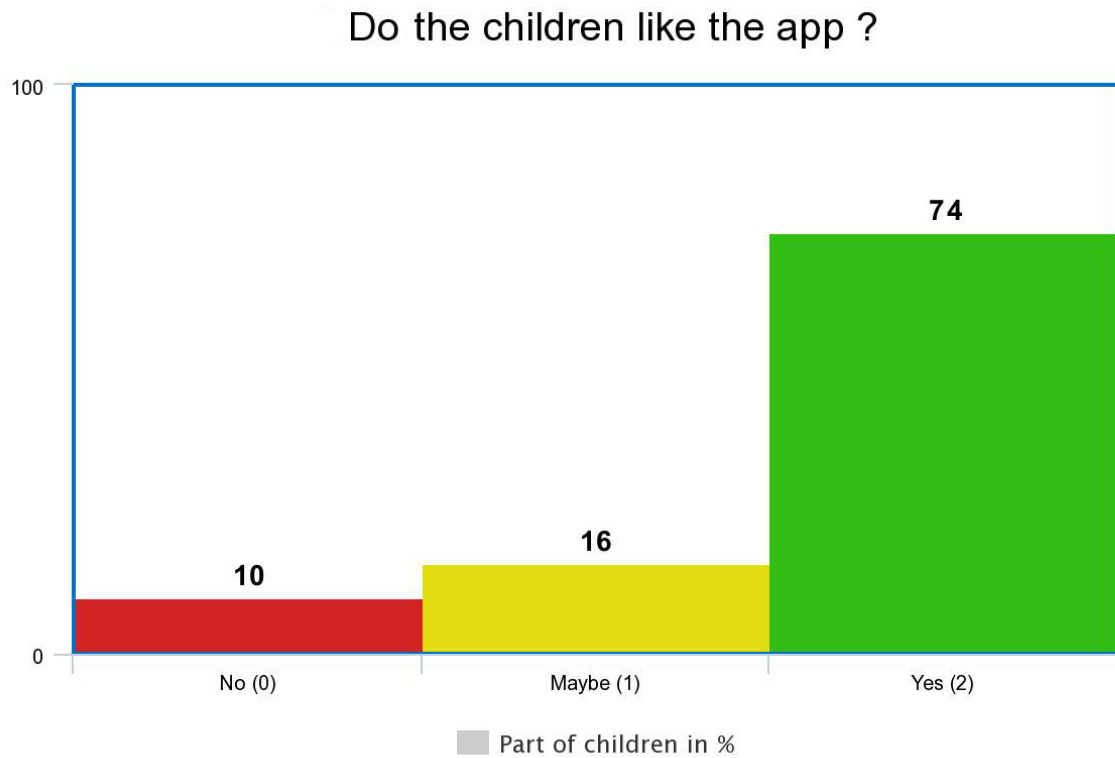


Figure 2: The first graph

This graph shows a net tendency of children liking the app which really shows that the idea is considered interesting and original. Ignoring those that are undecided, we got a rather good percentage of 74% against 10%, which means that the majority like the app and finds it interesting. Now a better question is, “would the children use it?” and here apparently, we get a sharp difference which shows that the children can like an application without planning to use it.

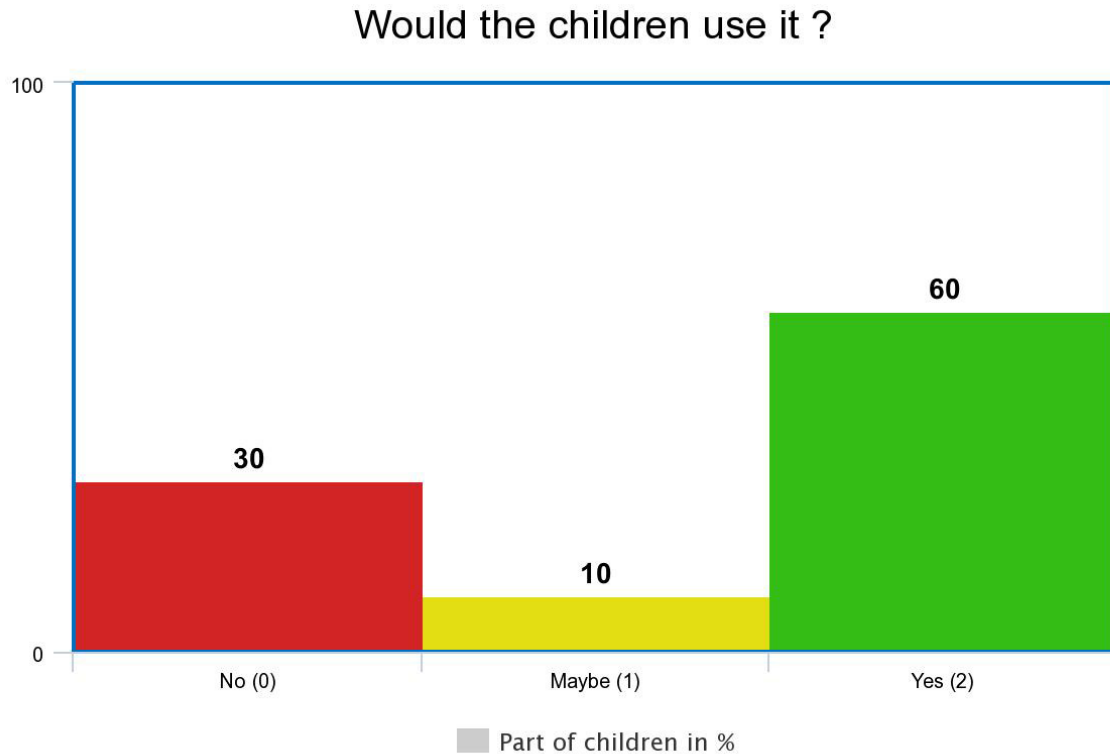


Figure 3: The second graph

Here the tendency is a bit worse, with a small majority of children that would use it against one third of children that would definitely not use it. For the first question, the ratio liked/non-liked was 7, here the ratio is only 2. Thus, even though the children seem to like the app, they are less excited by the idea to use it. As explained in some opinion, the “educative” side seems to be a barrier; children said that since they are studying enough in school they prefer playing for real on their phone and relaxing rather than continue to learn while playing. We can then clearly see that the response to our app is not unanimous and that even though we try to create a game behind it, the majority of children did not consider it as such.

2.3 Suggestion-based Improvement

Now comes the interesting part, having made the questionnaire in such a way that children were able to develop their answers. Even if the majority did not make any comments on it, we got from some children some really good suggestions and potential improvements for the app. Here are those that were the most noteworthy.

One child was pointing out the fact that characteristics of the person could be added in order to improve the matching process. Although it would somehow break the game aspect, it is true that a variant of our app could have been done to be an educative purpose only application used per classroom in which children were asked to choose proposed characteristics (only positive attributes) of their classmates in order for all children in the class to get associated to a given portraits based on their classmate attributes. The teacher would supervise the process and discuss the results with the children and by doing that children would get in contact with famous people and history through an educative,

in-class game.

Another child stated that modern VIP should be added in the app as they are more interesting than the past ones. It's a good idea as modern famous personage would probably add other dimension in the app, like science, biology, physics (with Higgs for example). One of its classmates was also pointing out the possibility to add fictional VIP (from films and series) but that would break the educative aspect of the application (adding Jon Snow from Game of Thrones would be not really useful in term of knowledge and history).

Another very good opinion stated that the presence of a search bar would be nice in order to specifically search for a given personage, a bit like a Wikipedia of famous people. That would be an interesting and optional feature for children not interested in the game aspect but more interested by the information and the personages themselves.

3 Paper Prototyping

3.1 Prototype Description

We have built a prototype through Adobe XD where we store all of the screens that we will require our test-users to navigate, this is mainly due to the fact that we think it will be more realistic for a tester to go through a computer interface themselves instead of following a "human computer".

The prototype is visible here:

<https://xd.adobe.com/view/820a8023-9d70-489d-73ee-ca30038b3491-f43b>

This approach we have chosen will also help out with taking notes regarding how our application is used as the tester is, effectively, dealing with a real interface. We will definitely have someone act as a guide in case the user gets lost, someone to gather data and we will avoid having a third member taking the role of the computer.

This prototype will include the main features of our application. To begin with, we will have a login screen to the app as the user will have their own personal account (Figure 4). The user will then reach the front page (Figure 5) where the global feed will be in view; here you will be able to see a "Person of The Day" along with their description, friend requests and recent achievements by friends and people alike.

From there you will also be able to view the profile of others along with your personal one (Figure 6) where their unlocks will be displayed accompanied by the pictures taken, here you can view an in depth character description of such unlocks (Figure 7), if you select them. Within the main page, you will also be able to enter the camera mode of the application where you will be able to take a picture to unlock a character to share with all the other users.

A search functionality is also included such that a user can look for their friends over the app to add them.

Along with everything else, there will be a settings menu (Figure 5) to modify your personal profile, view privacy and policies information and get in touch with the developers in case a problem arises.

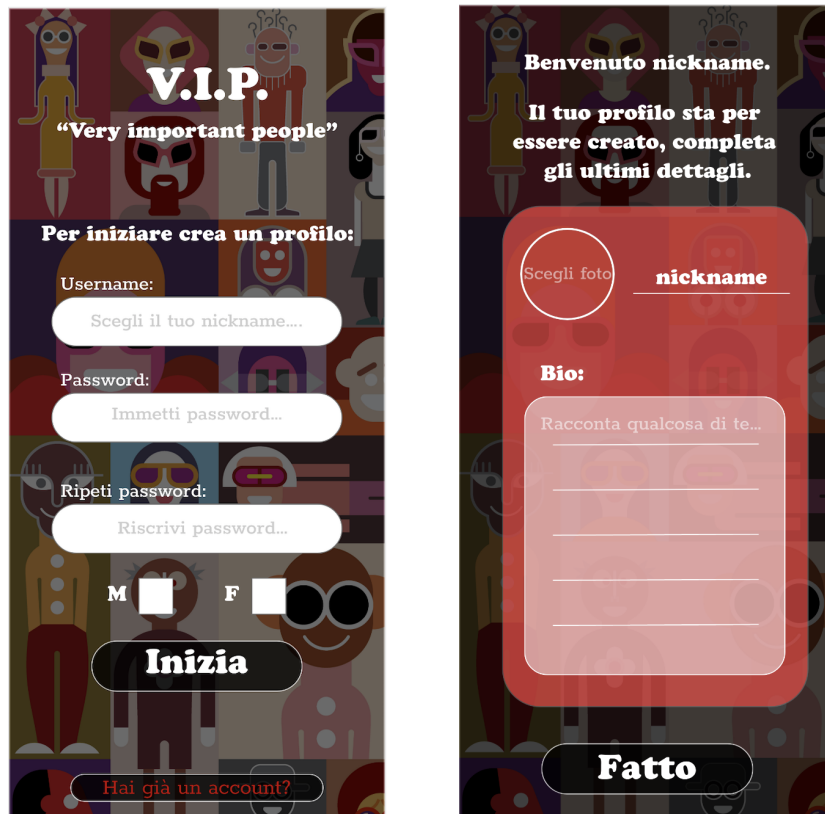


Figure 4: The login (left) and account creation (right) pages



Figure 5: The home page (left) and the settings menu (right)

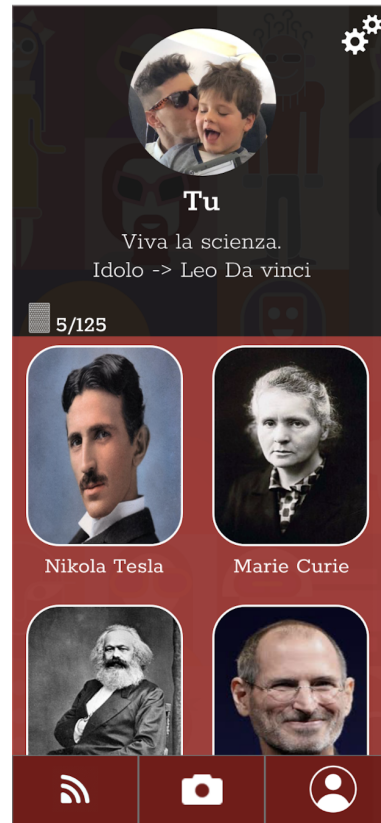
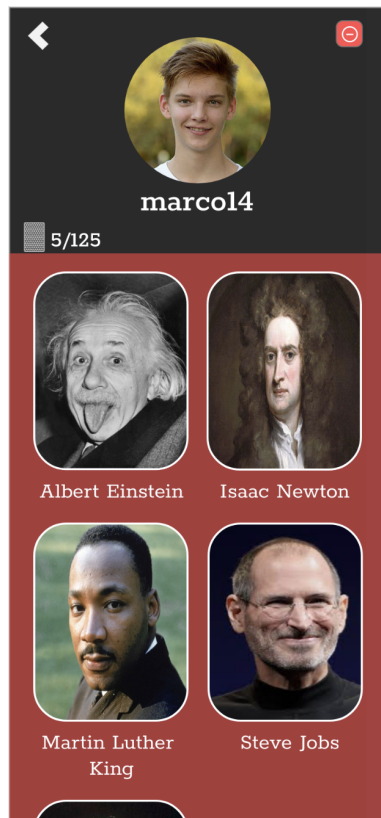


Figure 6: A friend's profile (left) and the user's profile (right)

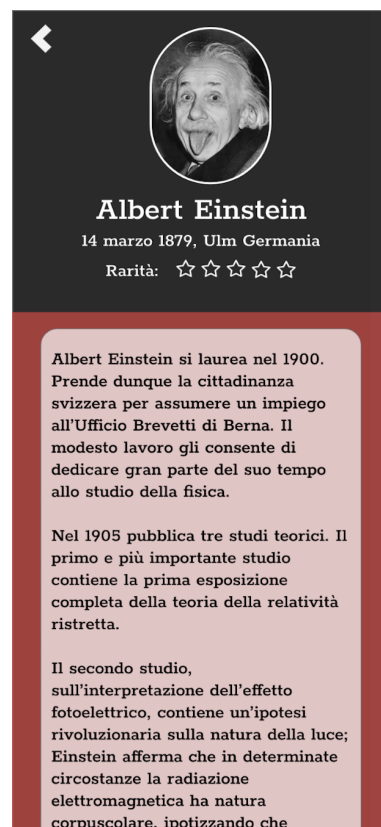


Figure 7: The discovery of a VIP (left) and their description (right)

3.2 Key Tasks

There are several functionalities that are important to be able to use our application. We are intending to test these key tasks with the following steps:

The first job we want the user to perform is “creating an account”. The user should know where to insert name and password, where to indicate his gender and eventually how to upload a profile picture. In that way we can test if the button indications and the registration sequence are clear for the user. Also, this task is a kind of warm up for the user. He should get used to interacting with the adobe XD prototype and to imagining the screen picture as a smartphone.

The next task is “take a picture and discover a person”. Here, the user has to navigate in the menu bar to the camera, then take a picture and discover the V.I.P. associated to the picture. This quest needs more skills to abstract, as it is not possible to access any real camera from a prototype.

After that, the user should “add the discovered person to the gallery”. We want to know if he understands the process of collecting V.I.P.s by taking pictures.

Another main functionality of our application is providing interesting facts about the discovered V.I.P.s. We want the user to navigate to the gallery and look at a specific V.I.P. The task will be something like “find out information about Albert Einstein”. Like this we will know if the indications on buttons and labels in this part of the prototype are understandable.

Now, it is time to see if the social functionalities of our application are clear to the user: The main tasks here are “accept a follow request” and “look at marco14’s profile and tell us how many V.I.P.s he has already discovered”. Here again, the navigation in the menu bar is tested as well as the comprehensibility of signs indicating the acceptance or deny of a follow request and the symbols that show the number of discovered V.I.P.s.

The last challenge we want the user to perform is “find the settings menu”. The settings are located in the top-right corner at the user’s profile. We decided to add them there instead of in the menu bar as they do not contain tasks that are important for the main functionality of the application. Nevertheless, the user should be able to find them. This is what we want to test.

4 Conclusion

In conclusion, this group project has allowed us to observe how all the work put together in the previous assignments can be perceived by a large number of people - in this case, more than one hundred young girls and boys. We have understood the importance of not only planning the app in advance, but also of investing time to create a good strategy to present it and ultimately to sell it. From detecting the right persona, to make a short movie to present the idea of the app, from the metaphors to a nice GUI, everything plays a fundamental role when it comes to create an app which may have success with a certain

audience. As one may guess, all this previous work may save a lot of time, because it allows to correct the general design direction of the app in a relative short time. We have indeed been able to present our app without actually writing a single line of code - and as we know, to modify an app which has already been coded may require much more time than adjust it from the wireframes made with Adobe XD or similar programs which give the possibility to visualise a preview of the final work. A similar easier adjustment may involve the creation of a new story or metaphor through which one can sell the app. All these corrections can therefore be easier thanks to all the previous work of designing and of collecting feedback.

While having a good idea and presenting it in a fascinating way may represent key factors, also the actual way in which the data is collected may appear crucial. If the question is simple and clear enough, chances are that the answer will be more precise and less ambiguous, thus helping more those who are working on the project. Naturally, the same statement is also valid for the way through which the app is presented to the audience - in our case, our ideas were mainly expressed by means of a video. According to the data that we collected, we are able to observe a certain success, but also a significant amount of uncertainty - which may be caused both by the video and/or by the questionnaire, for the first is the tool through which we transmitted our idea and the latter the tool to collect the actual feedback. Of course, a precise question about the video content may clarify if, when it occurs, the problem is linked to the presentation video, which may be confusing, or if the problem is related only to a question which is not clear enough for a part of the class that we interviewed. Therefore, a solid questionnaire may immensely help to better understand if the app needs some corrections or if the work done is already on the right track.

To these final considerations, we should add that nothing will probably be as precious as showing our audience a prototype of app while it is actually working. On one hand, a good app presentation - through whatever media one may choose - may help to understand how the app might be perceived by the audience and help the designers to correct certain aspects of it - naturally, a good presentation may as well help to conquer a larger audience. On the other hand, no presentation may be useful for those who are working on the project as much as showing an actual prototype of the app to the sample users. This presentation will happen during the Group Assignment 6 and will be incisively revelatory.