

Analysis of COVID-19 Data Representation in Spain

(Phase 3: Wearable and Public interactive designs)

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1. General Idea

In this phase the idea is to inform users about the most important updates of covid-19 through a wearable system designed for Apple watch. (In this project only apple watch is considered, but obviously all these setting can be applied to android watch too.)

Moreover, it provides practical information and guidelines for the pandemic situation through some measures like body temperature and a heatmap of crowded areas to avoid.

In addition, the public interface is also designed to inform users about latest updates as well as trying to raise public awareness about the latest restrictions and rules related to pandemic situation and the virus in general.

2. Introduction to wearable design

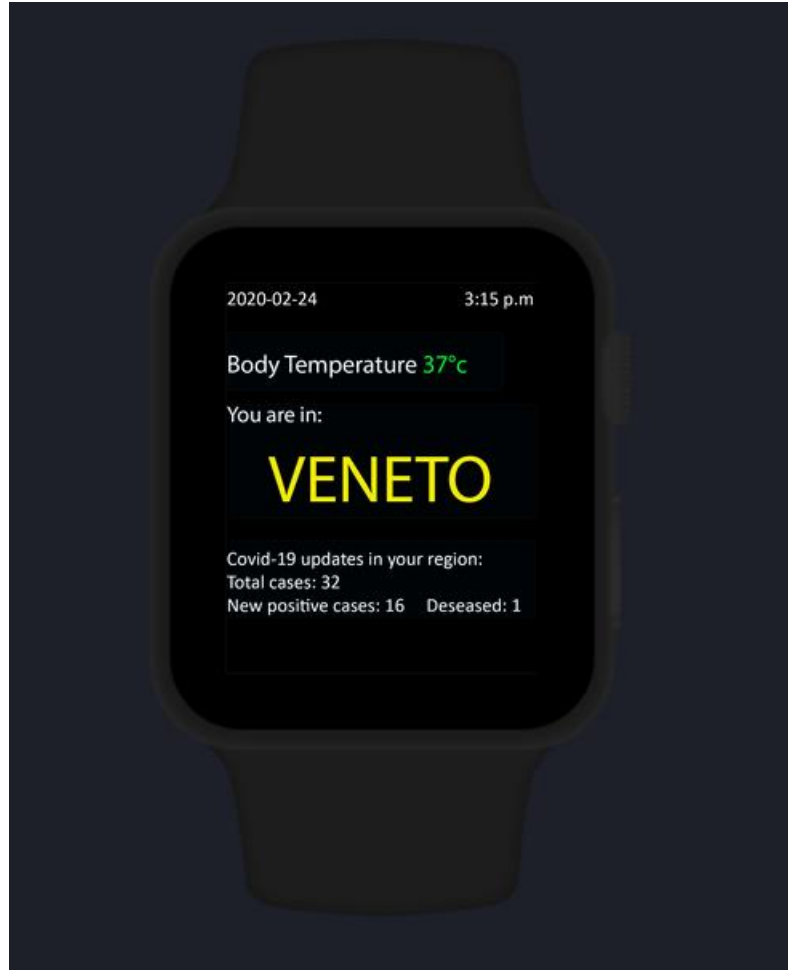


Figure 1

Description: On the homepage first part is body temperature since it is the main symptom of covid-19 and it is almost the most important measure. If the body temperature of user is normal it is shown in green color, and if it is higher than normal it is shown in red color. If user taps on this part, then the system directs the user to another page with further information which will be discussed later in this report.

In next part, the province of the user is shown on the screen using the location of the device. Moreover, in case according to the latest updates the related province is in either yellow, orange or red condition, the name of the province

will be shown in the correspondent color. Also, if the user taps on this part it will be directed to another page with further information about the related situation and latest restrictions and guidelines.

In the last part, the latest updates of the number of total cases, new positive cases and deaths on a daily basis in the related province is shown. Also, if user taps on this part, it will be directed to a new page with chart related to its province.

Link to online view: https://invis.io/MQ102SR78FPA#/443704452_Home

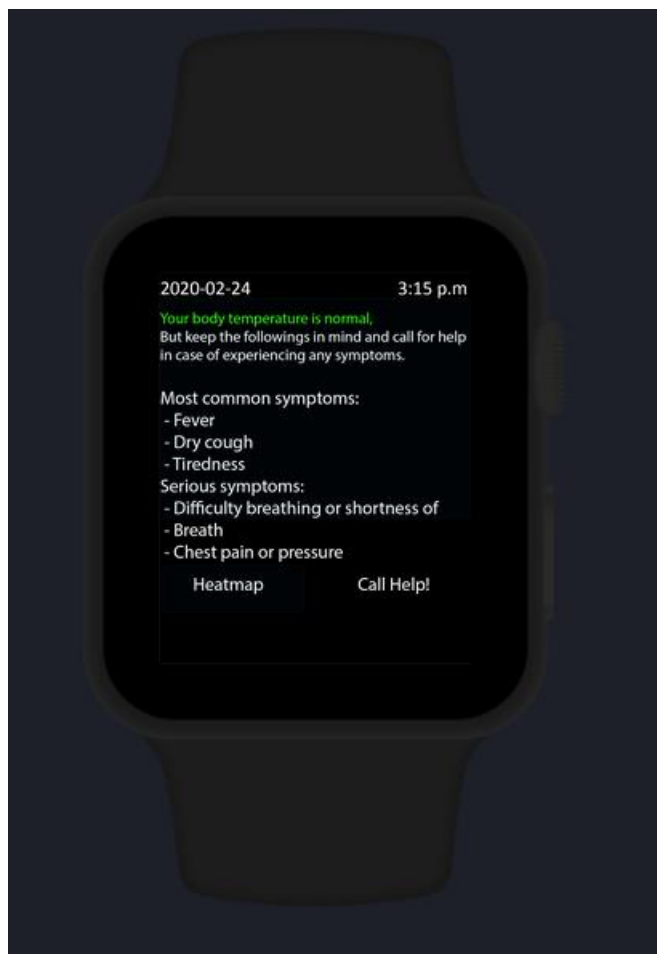


Figure 2

Description: This is the result page if user taps on “body temperature” in the homepage. This page consists of personalized guidance based on user’s body temperature, including most common symptoms of covid-19.

Moreover, on bottom of the page user has two options: one directing the user to a heatmap of crowded areas nearby, and one is call for help which by tapping on it, it will call the emergency number dedicated to covid-19.

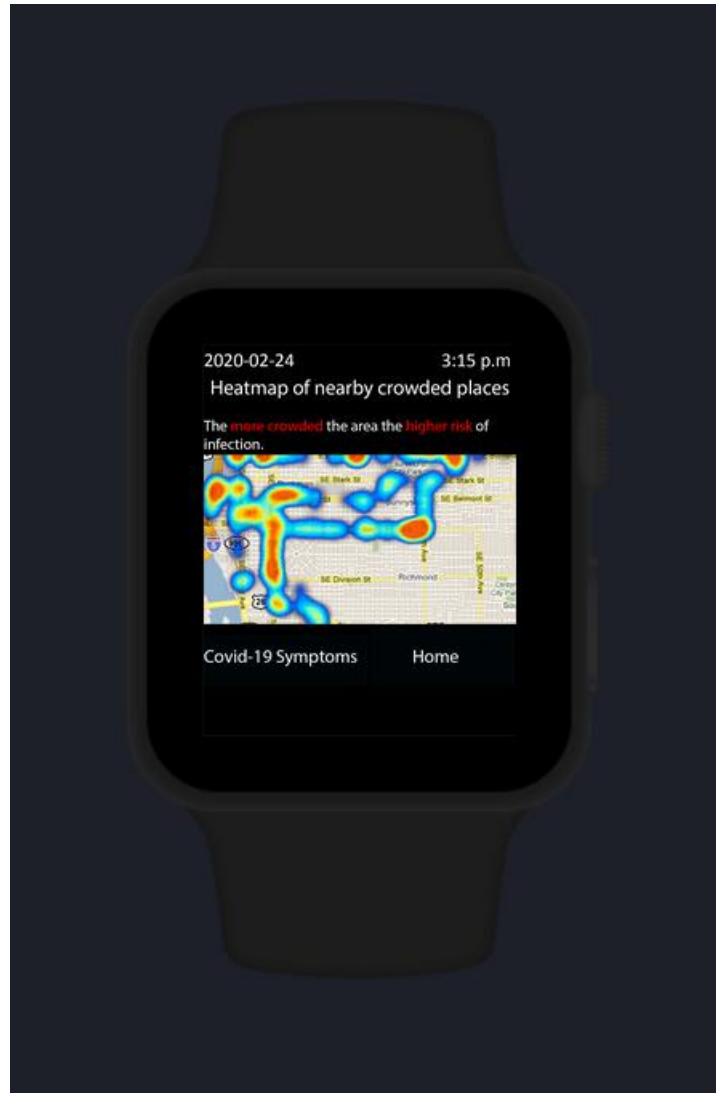


Figure 3

Description: This is the result page if a user taps on “Heatmap” on the previous page in figure 2. On this page, a heatmap of nearby crowded areas is provided in order that the user be informed about those areas and to avoid them. Also, on the bottom of the page, the user can choose either to go back to the previous page by tapping on “Covid-19 Symptoms”, or return to the homepage.

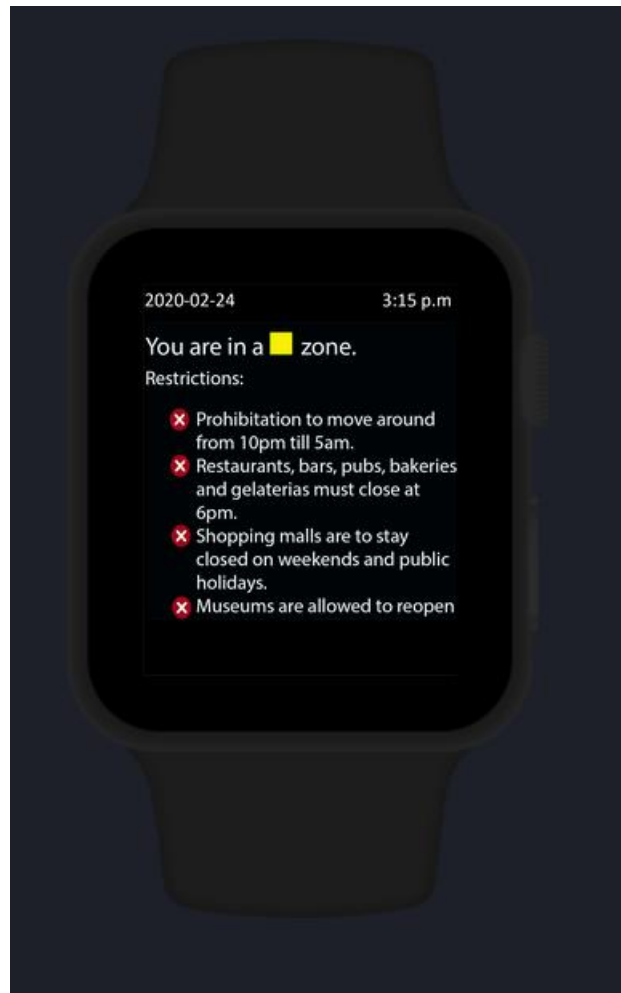


Figure 4

Description: This is the result page if a user taps on the province name on the homepage. This page provides guidelines and latest restrictions about the color code of the related province. Also, by tapping anywhere on this page, the user will be redirected to the homepage.

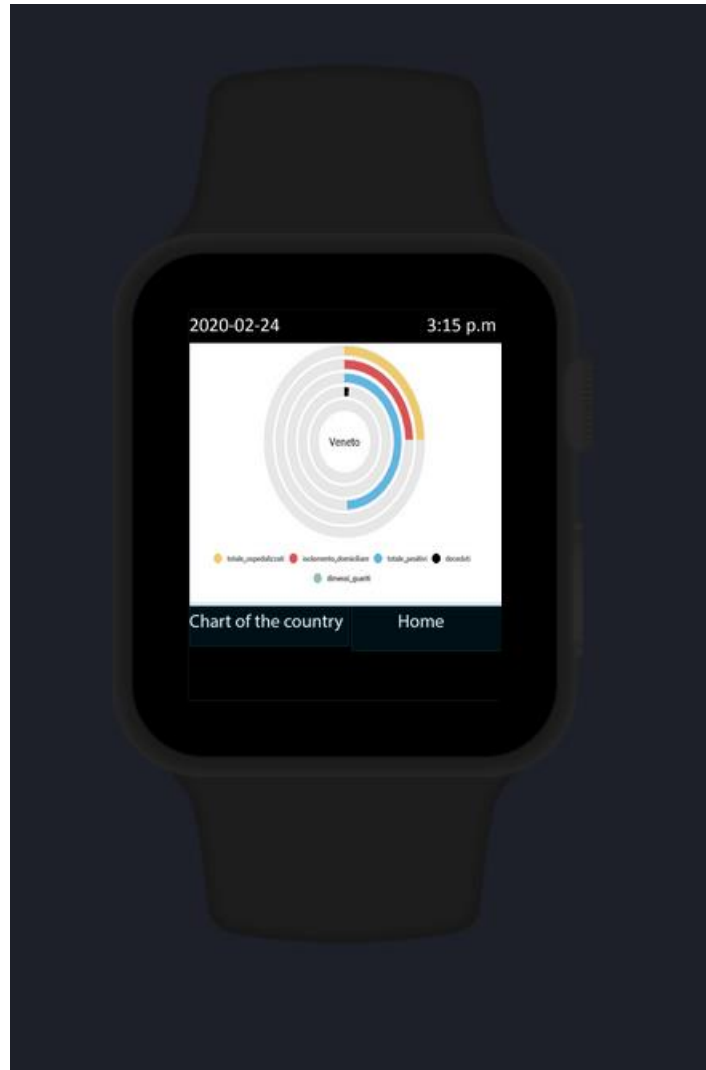


Figure 5

Description: This is the result page if a user taps on the number of total/positive cases/deceased cases on the homepage. It provides daily information based on a chart specialized for the related province. (This chart is fully explained in the phase 2 of the project.)

On the bottom of the page, the user has two options: one redirects the user to the homepage and the other directs the user to a new page with a chart related to the whole country.

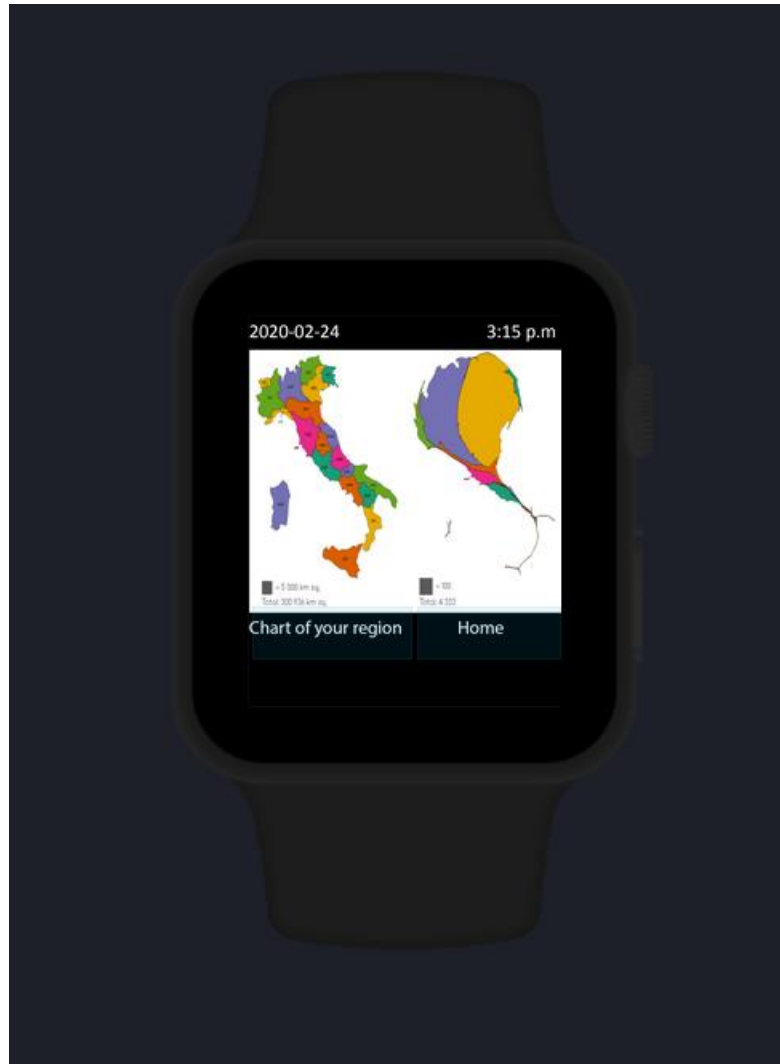


Figure 6

Description: This is the result page if a user taps on the “chart of the whole country” in the previous page in figure 5. It provides a daily information-based cartogram of the whole country. (This chart is fully explained in the phase 2 of the project.)

On the bottom of the page, the user has two options: one redirects the user to the homepage and the other directs the user to the previous page in figure 5.

3. Introduction to Public Interface



Figure 6

Description: In the top left part date, and time along with the real feel temperature is shown.

In the top right part, a daily info based radar chart is provided. (This chart is fully explained in phase 2 of this project.)

In the right middle part, a quick information and instruction of covid-19 related behavior outside is provided.

Also, the emergency phone number and an advertisement to the application on smartphone/smart watches is shown to encourage public on installing and using them.

Moreover, at the end the number of vaccinated people is shown.

Link to online view:

<https://projects.invisionapp.com/boards/6X41MAEMQVH/>