

# User manual

Electrical consumption meter visualization

26/11/2020

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## 1 Introduction

This manual describes how to use the visualization section of the Electrical Consumption Meter project. For information about the usage of other parts of the system, consult previous documentation.

## 2 Entering the visualization section

To enter the visualization section, navigate to the URL of the system, then click the “Visualize” button. This step is demonstrated in Figure 1.

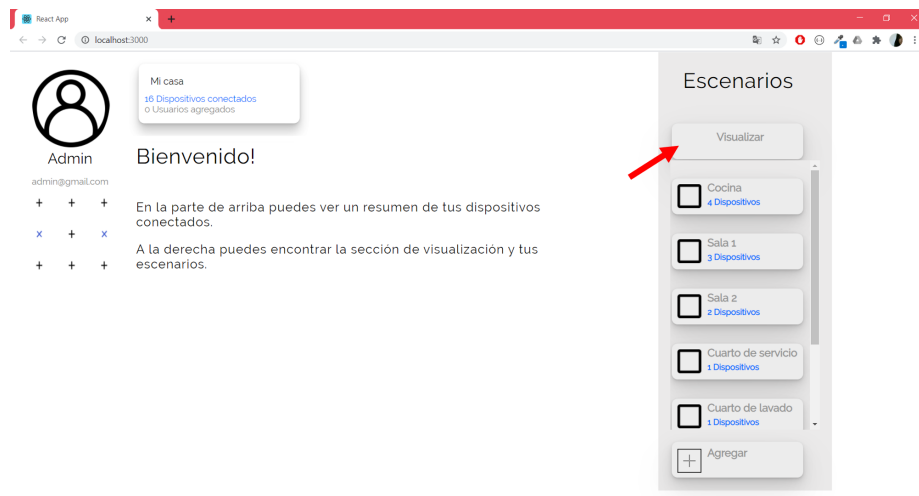


Figure 1: Entering the visualization section.

## 3 Selecting a view

When the visualization is first entered, the month view is selected. To switch to a different view, select the desired view in the dropdown menu. This is demonstrated in Figure 2.



Figure 2: Changing view.

## 4 Month view

When the month view is first entered, the data for the current month will be displayed. To change the month being visualized click the date picker. This action is demonstrated in Figure 3.

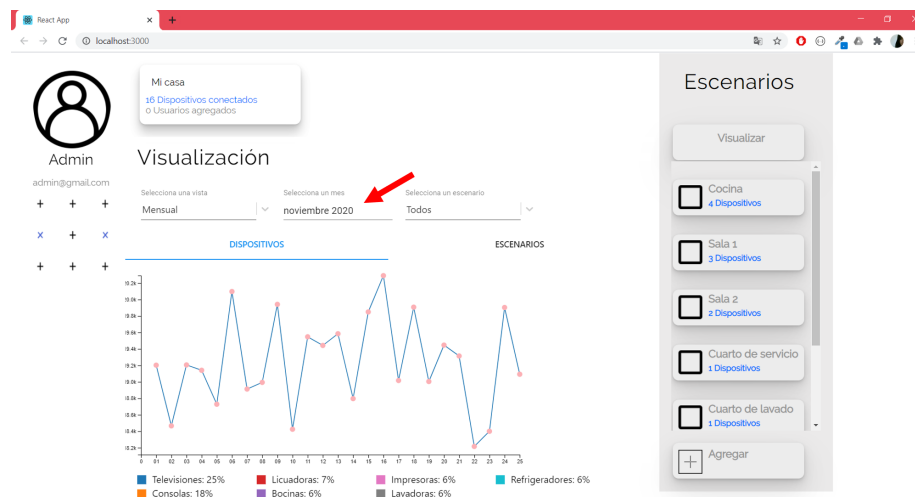


Figure 3: Changing the displayed time frame for month view.

A modal will pop up, the year and the month can be selected. After a selection is made, click “Ok”, to cancel click “Cancel”. A preview of this step

is shown in Figure 4. The chart will now displayed the newly selected month.

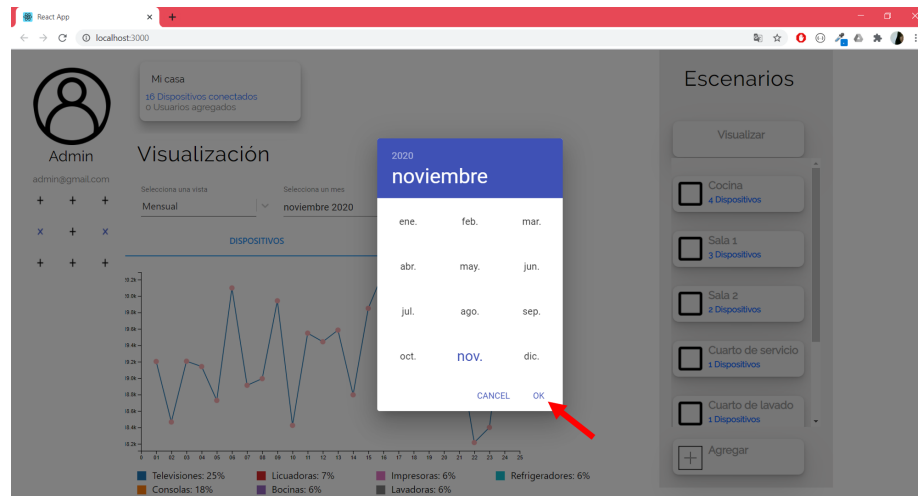


Figure 4: Selecting a month.

## 5 Week view

When the week view is first entered, the data for the current week will be displayed. To change the week being visualized click the date picker. This action is demonstrated in Figure 5.

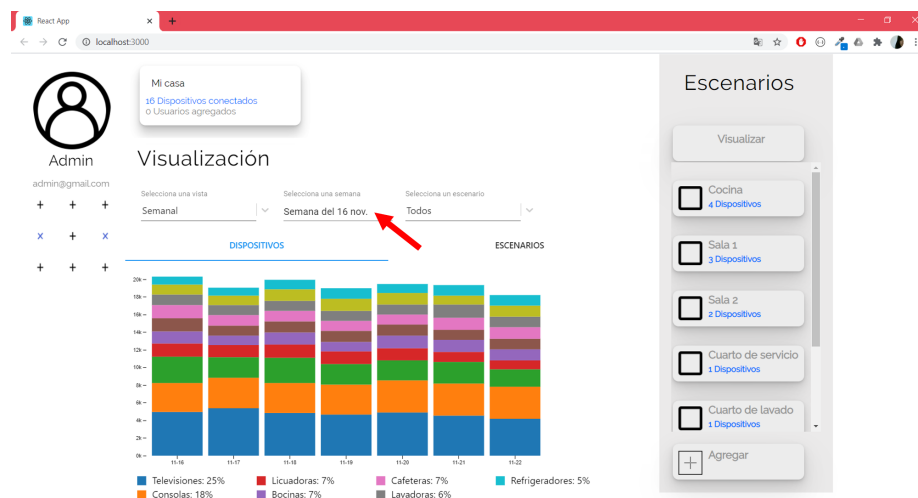


Figure 5: Changing the displayed time frame for week view.

A modal will pop up, the desired week can be selected. After a selection is made, click “Ok”, to cancel click “Cancel”. A preview of this step is shown in Figure 6. The chart will now displayed the newly selected week.

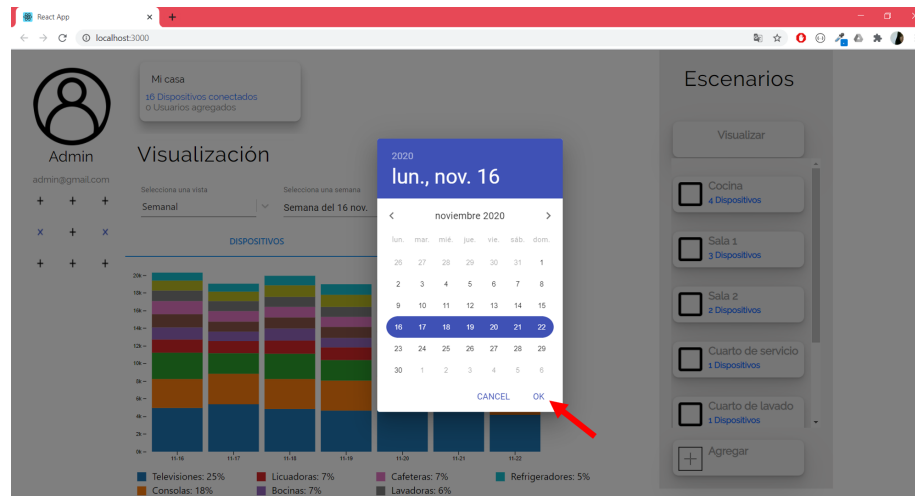


Figure 6: Selecting a week.

## 6 Day view

To view a breakdown by type of device for a specific day, first enter the month view and select the desired month. Then click on the red circle that represents the target day. This action is demonstrated in Figure 7.

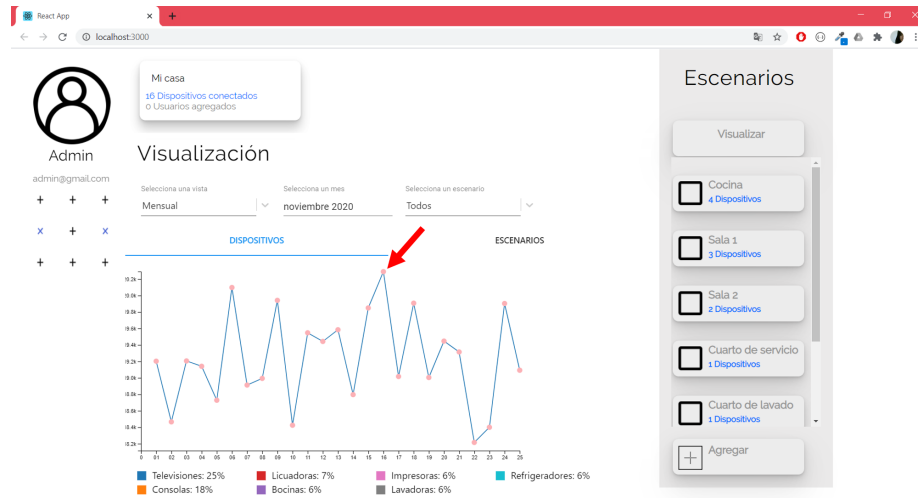


Figure 7: Selecting a day for the day view.

After this, the breakdown for the day that was clicked will be displayed next to the chart. This is demonstrated in Figure 8.

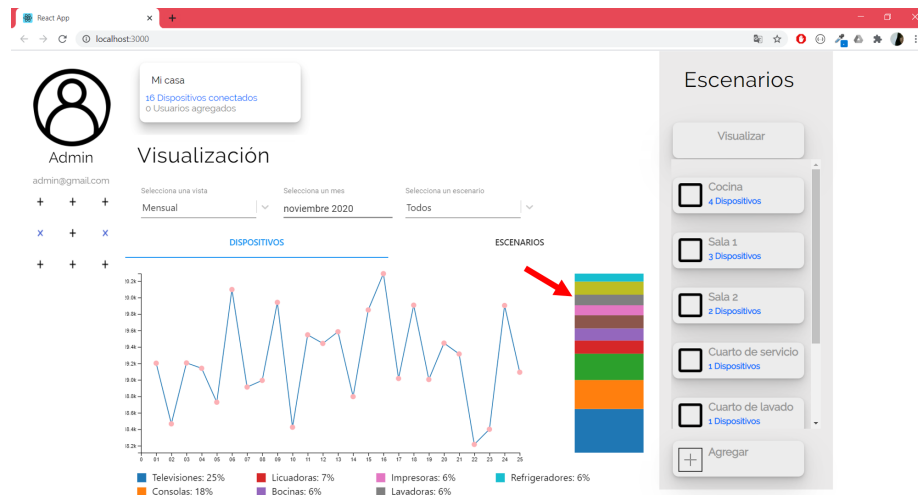


Figure 8: Day view preview.

## 7 Legend

The types of devices that correspond to each color in the chart are displayed in a legend below it. Next to the type of device, the percentage of consumption that it contributes to the time period shown in the chart is displayed. Figure 9

shows an example of this.

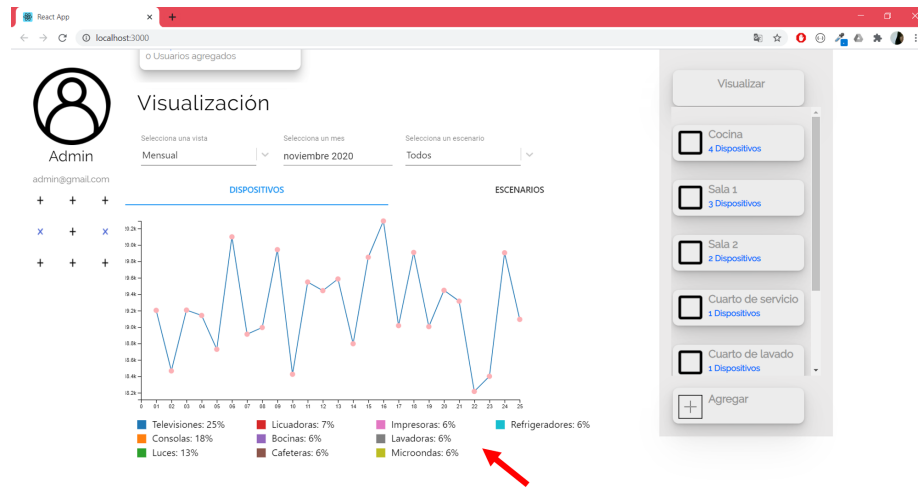


Figure 9: Chart legend.

## 8 Rooms visualization

### 8.1 Filter by room

To only visualize the charts corresponding to the consumption of a specific room, select the desired room from the dropdown menu, this action is display in Figure 10.

### 8.2 Consumption by room

To visualize the consumption by room click the “Rooms” tab, a new chart corresponding to this will be displayed. This is demonstrated in Figure 11.



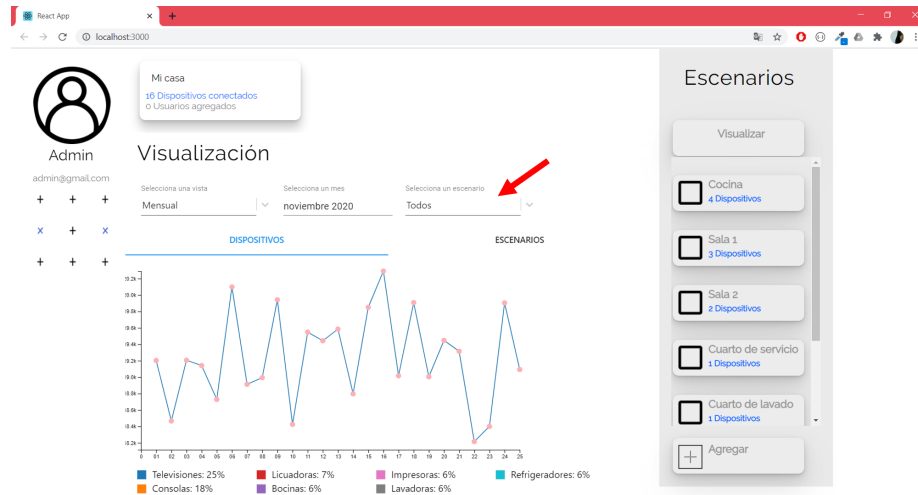


Figure 10: Filtering by room.



Figure 11: Visualizing consumption by room.