

# Sprint 2 review

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Electrical consumption meter visualization

22/10/2020

## Previous sprint

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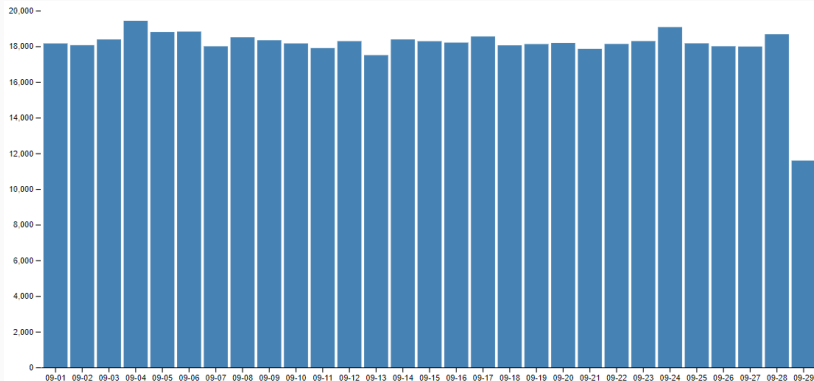
## Simulated data

- The simulated data returned by the server previously had this structure

```
▼ [
  ▼ {
    "day": "09-01",
    "consumption": 18157
  },
  ▼ {
    "day": "09-02",
    "consumption": 18062
  },
  ▼ {
    "day": "09-03",
    "consumption": 18384
  },
  ...
]
```

# Chart

- A chart for the month view was developed



## **Simulated data server**

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## New structure for the data

- The chart type was changed to a stacked bar chart in order to display contributions by each type of device
- The format for the simulated data returned by the server had to be restructured

```
▼ {  
  "day": "10-19",  
  "Refrigeradores": 1314,  
  "Microondas": 1152,  
  "Licuadoras": 1466,  
  "Cafeteras": 1352,  
  "Televisiones": 5355,  
  "Consolas": 3794,  
  "Impresoras": 1166,  
  "Lavadoras": 1155,  
  "Bocinas": 1227,  
  "Luces": 1237  
},
```

# Data grouping

- Previously, the data could only be grouped by month
- Now it can be also grouped by week to support a new view for the chart.

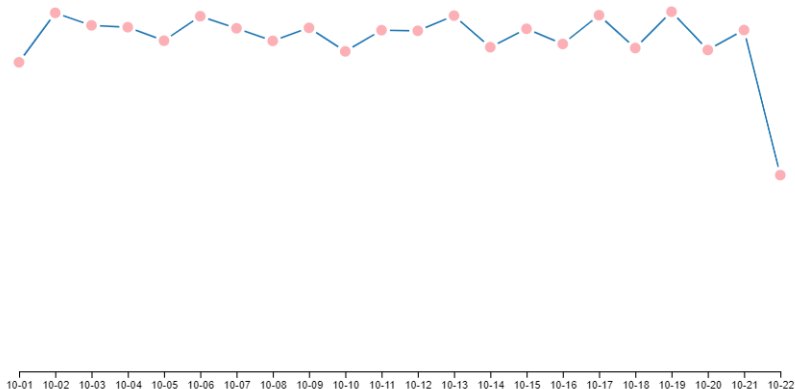
# Chart development

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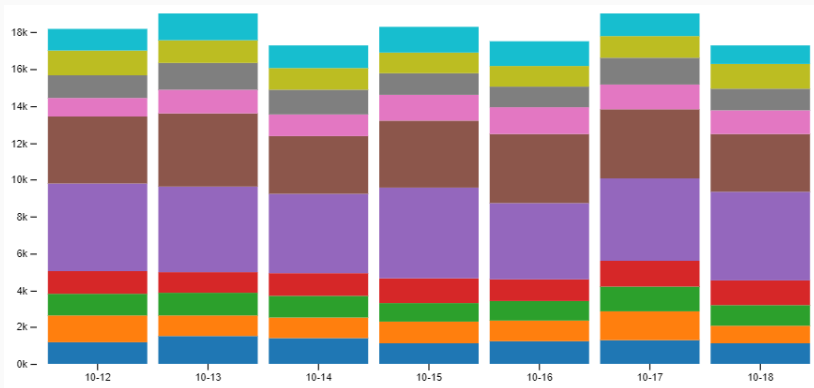
## Month view

- The chart for the month view was previously a bar chart
- To avoid overwhelming the user with information it was switched to a line chart



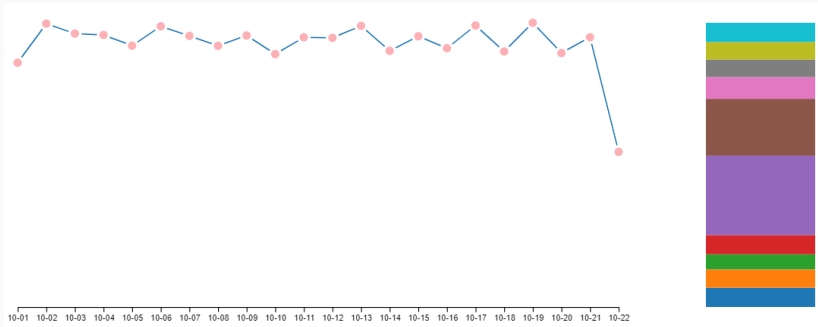
# Week view

- A week view was added
- The bar chart was assigned to this view



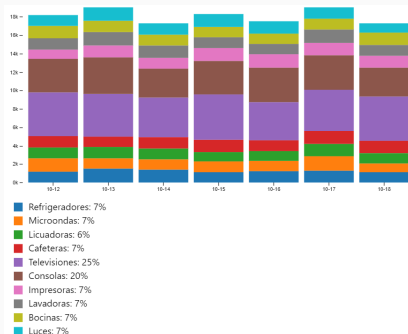
# Day view

- In the month view, if the user clicks the circle that represents a given day, the breakdown by device type for that day is shown next to the chart



# Legend

- A legend was added to indicate which type of device is represented by each color
- The percentage of consumption that a type of device contributes to the time period shown in the chart is also displayed



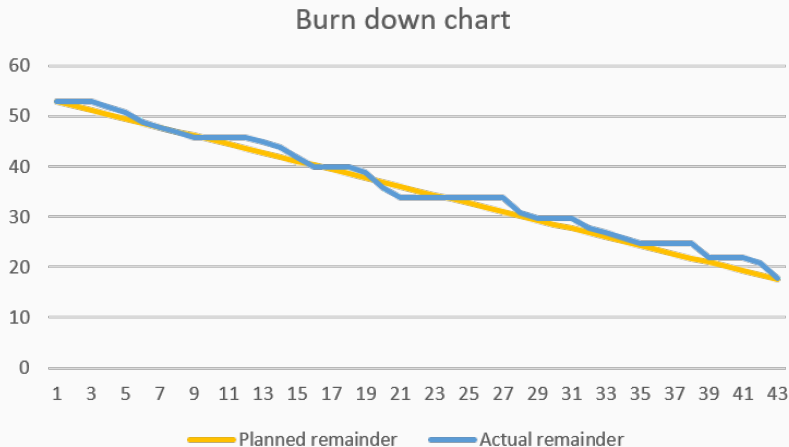
# Documentation

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- The project repository is available at <https://github.com/DanielaAlvarado/electrical-consumption-meter>

## Project follow up

- The burn down chart and a link to the Scrum board are included in the repository



- The following manuals are included in the repository
  - User manual
  - Technical manual
  - Installation manual

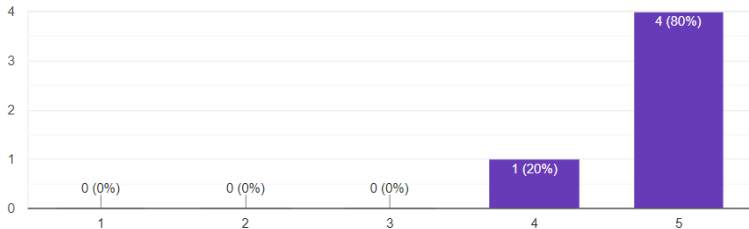


# Testing

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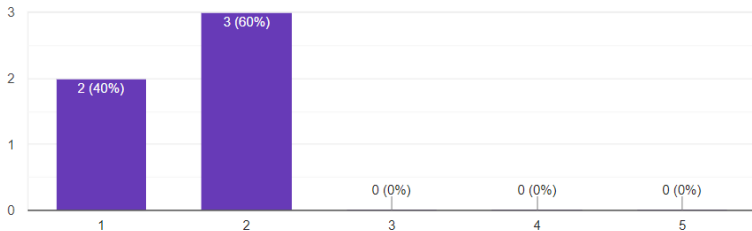
I think that I would like to use this system frequently.

5 responses



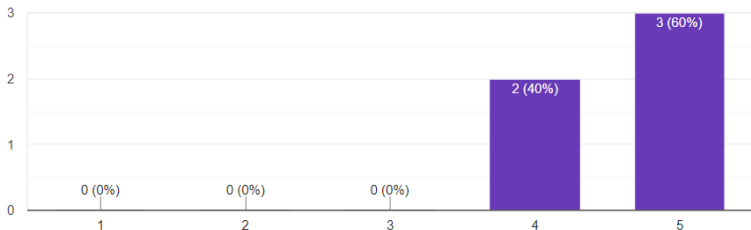
I found the system unnecessarily complex.

5 responses



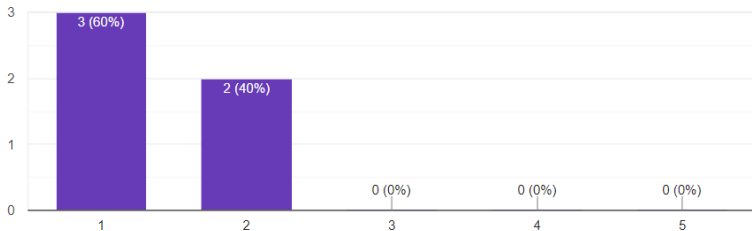
I thought the system was easy to use.

5 responses



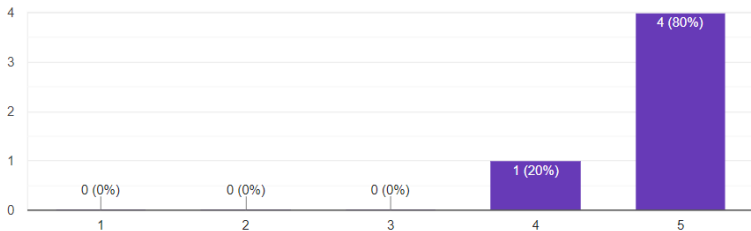
I think that I would need the support of a technical person to be able to use this system.

5 responses



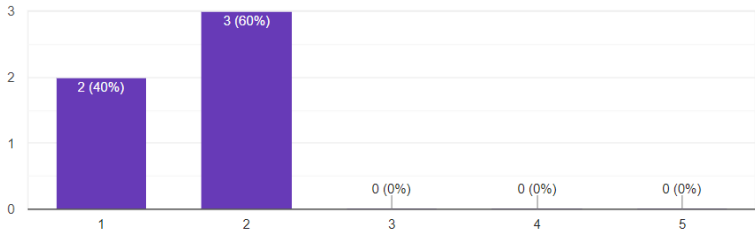
I found the various functions in this system were well integrated.

5 responses



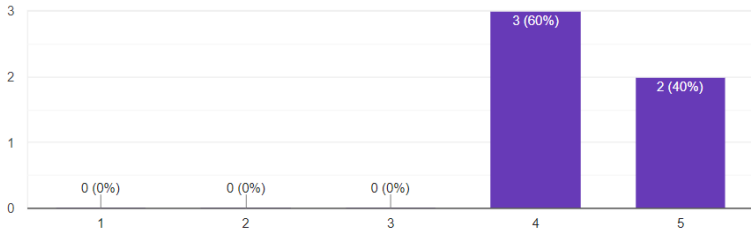
I thought there was too much inconsistency in this system.

5 responses



I would imagine that most people would learn to use this system very quickly.

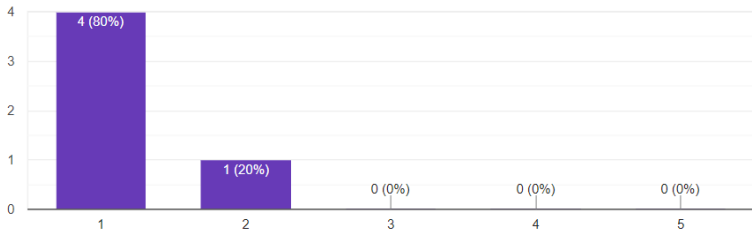
5 responses





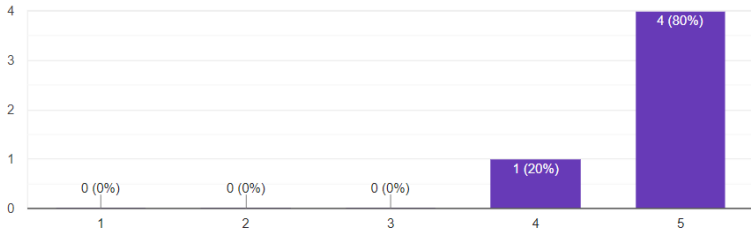
I found the system very cumbersome to use.

5 responses



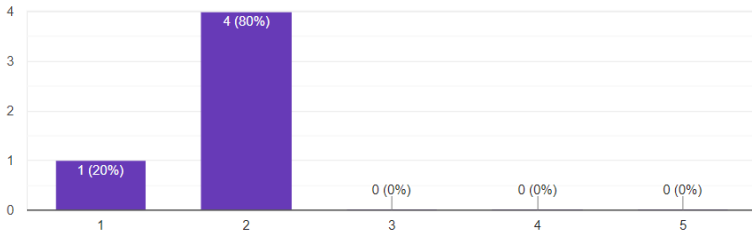
I felt very confident using the system.

5 responses



I needed to learn a lot of things before I could get going with this system.

5 responses



- The following functionalities will now be demonstrated
  - As a user, I want to see a breakdown of electrical consumption by device in the time frame shown in the chart, so that I can know which devices are contributing more to my consumption
  - As a user, I want to select a specific day in the chart and visualize the breakdown by device for that date, so that I can identify the device that consumed the most energy on that day