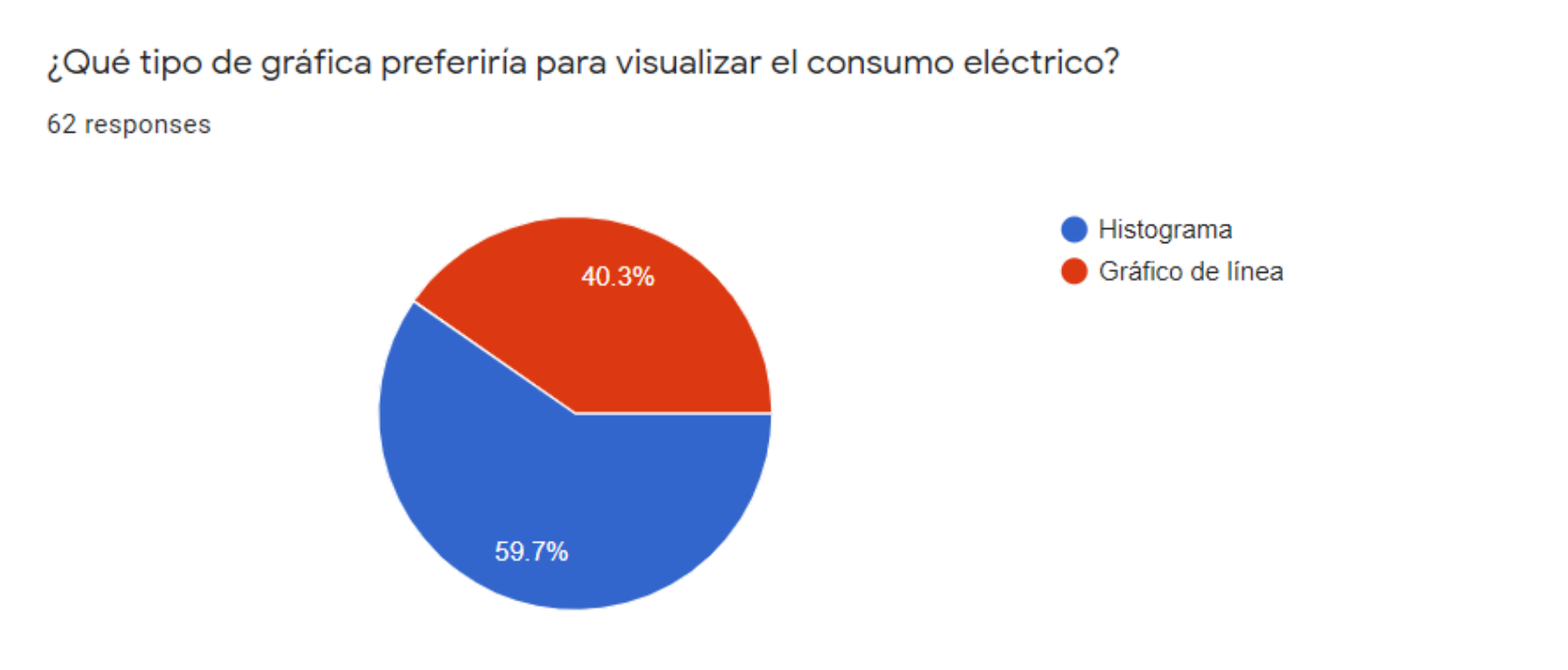
Sprint 1 review

Electrical consumption meter visualization

01/10/2020

Online survey

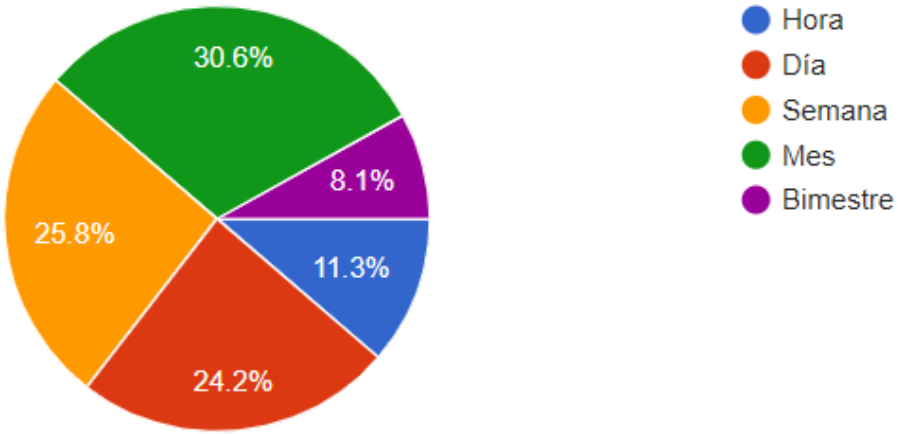
Type of chart



Time frame

¿Qué periodo de tiempo le gustaría visualizar? En base al periodo de tiempo para hacer la visualización de los datos de consumo, ¿Cómo te gustaría definirlo? Por...

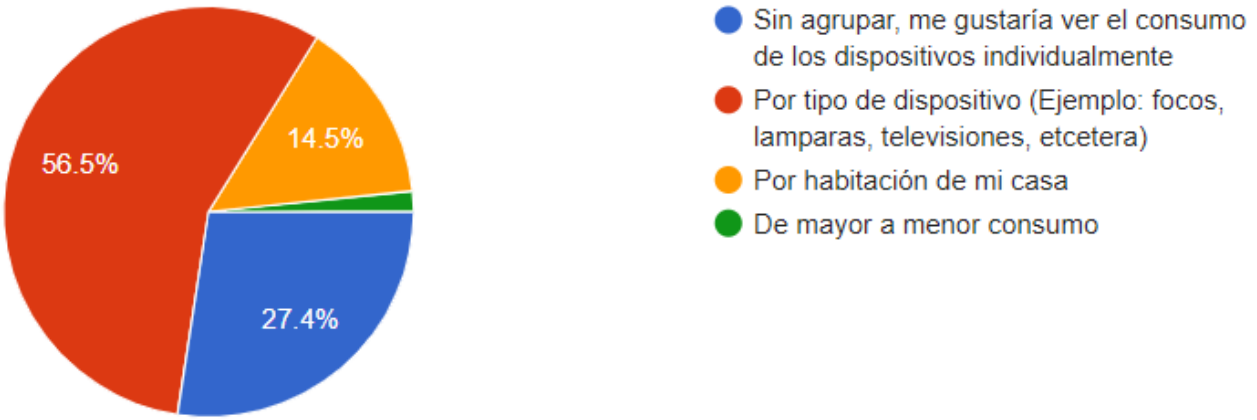
62 responses



Device breakdown

¿Cómo le gustaría agrupar los dispositivos para visualizar su consumo? Y, ¿Cómo te gustaría visualizar los dispositivos?

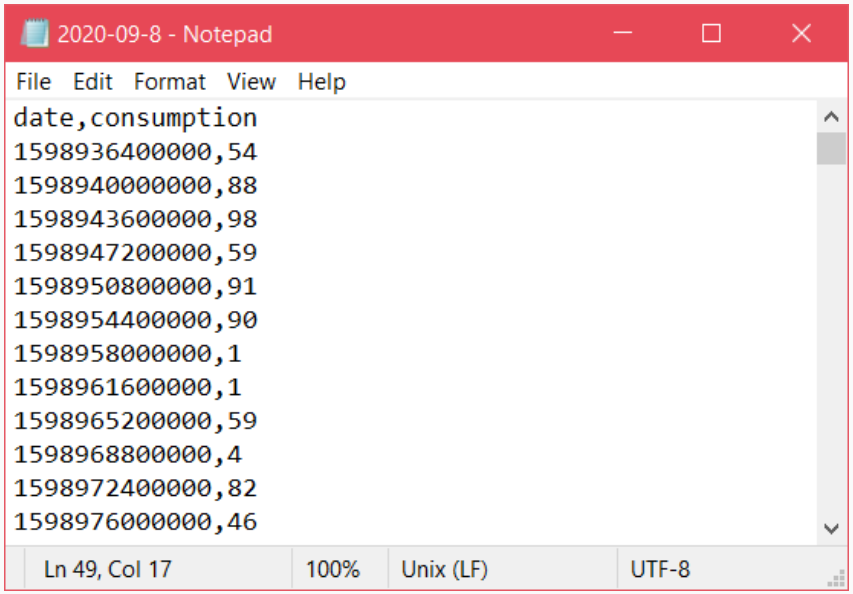
62 responses



Simulated data

Simulated data server

- Node.js and @dunebird/dune npm package
- Generates data for a certain month and stores it in a CSV file
- The simulated consumption for each device is stored by the hour



Data grouping

- The server contains routes to group the data by a certain time frame
- At the moment, the data can only be grouped by month

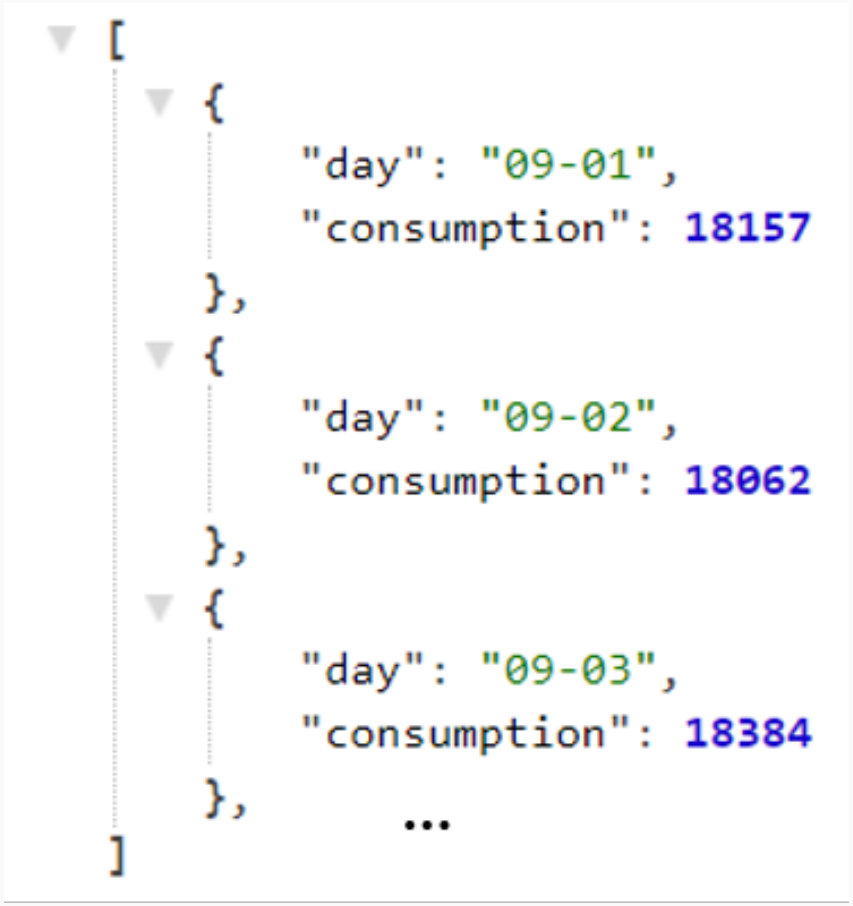


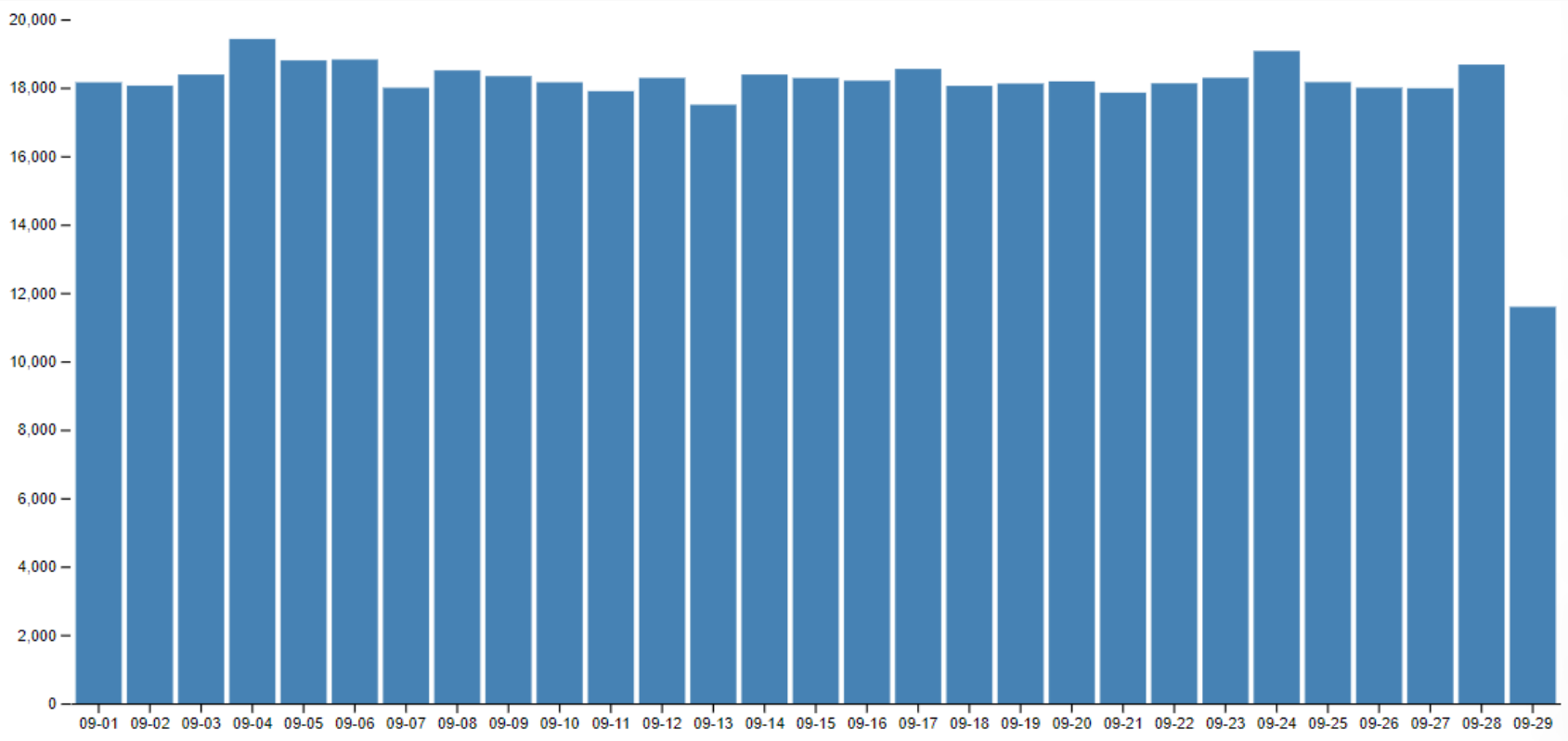
Chart development

D3 library

- The D3 library was used to develop a bar chart using the grouped data

Chart result

- The X axis represents the days of the month
- The electrical consumption is measured in the Y axis



Time frame selection

- A date picker was added to select the desired month to visualize

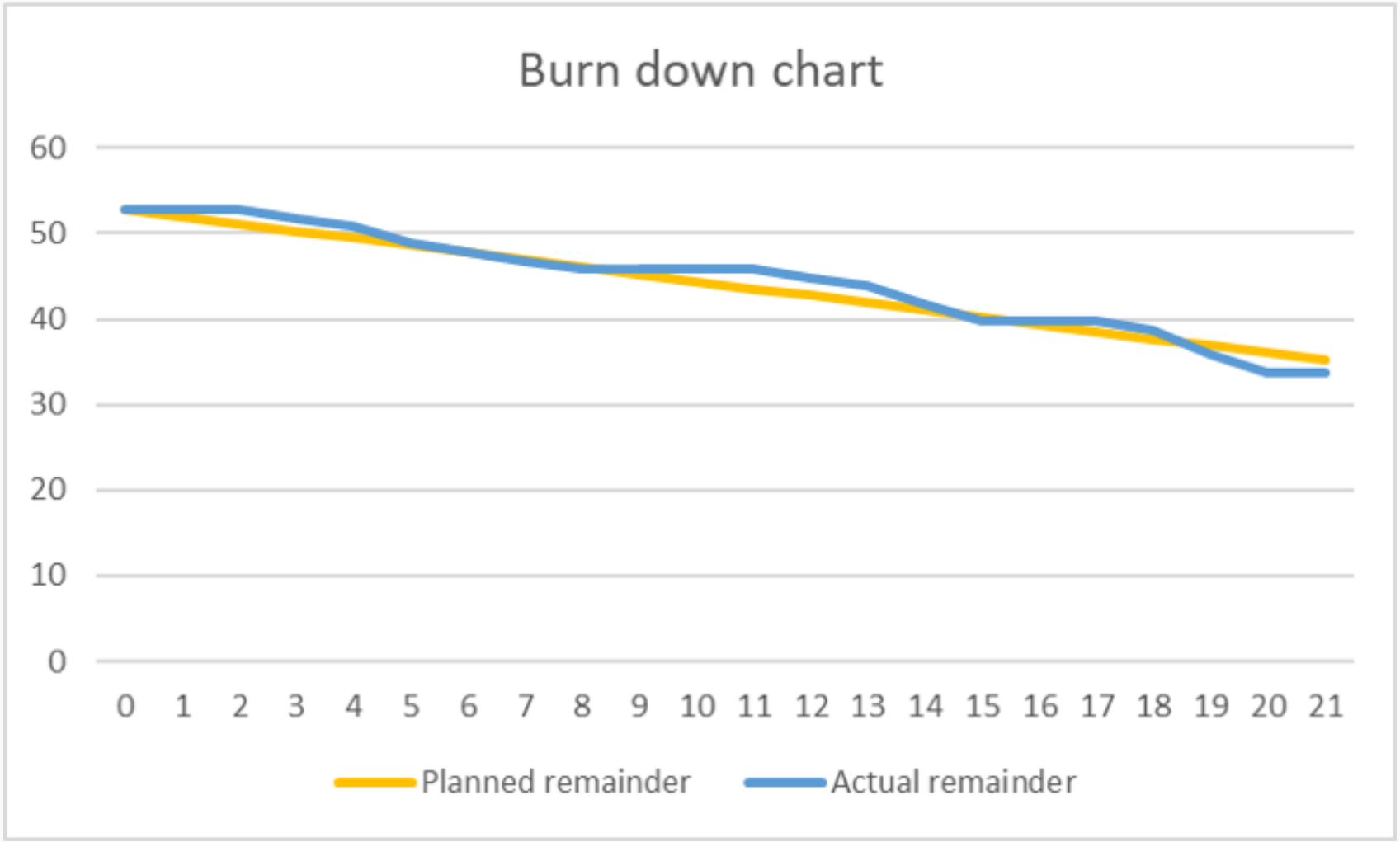
Documentation

Source code

- 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



Manuals

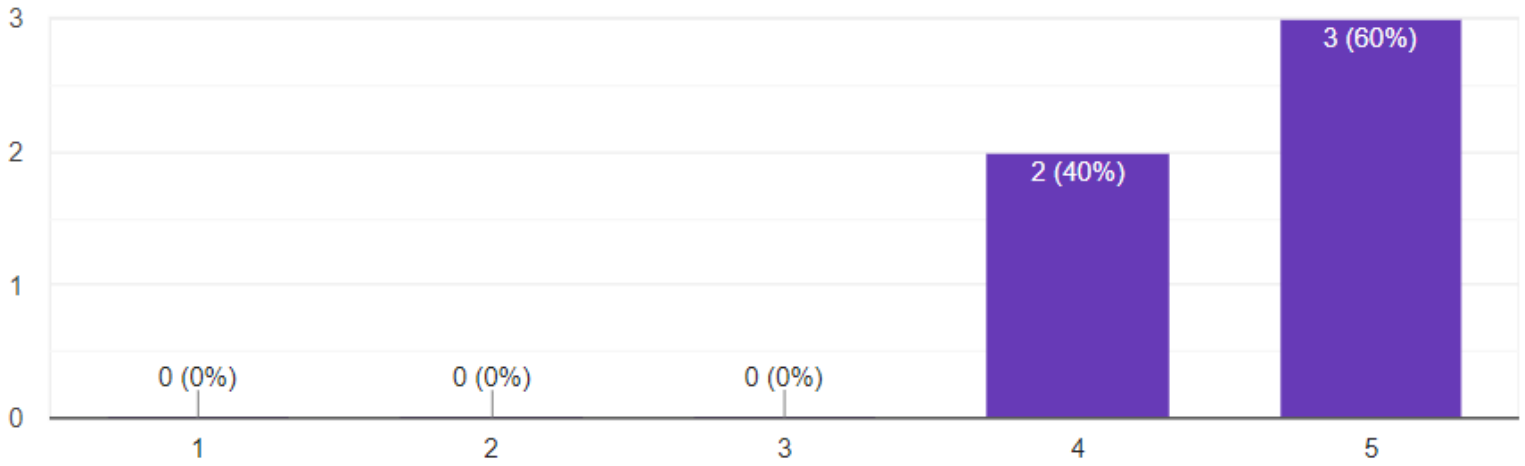
- The following manuals are included in the repository
  - User manual
  - Technical manual
  - Installation manual

Testing

SUS Test

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

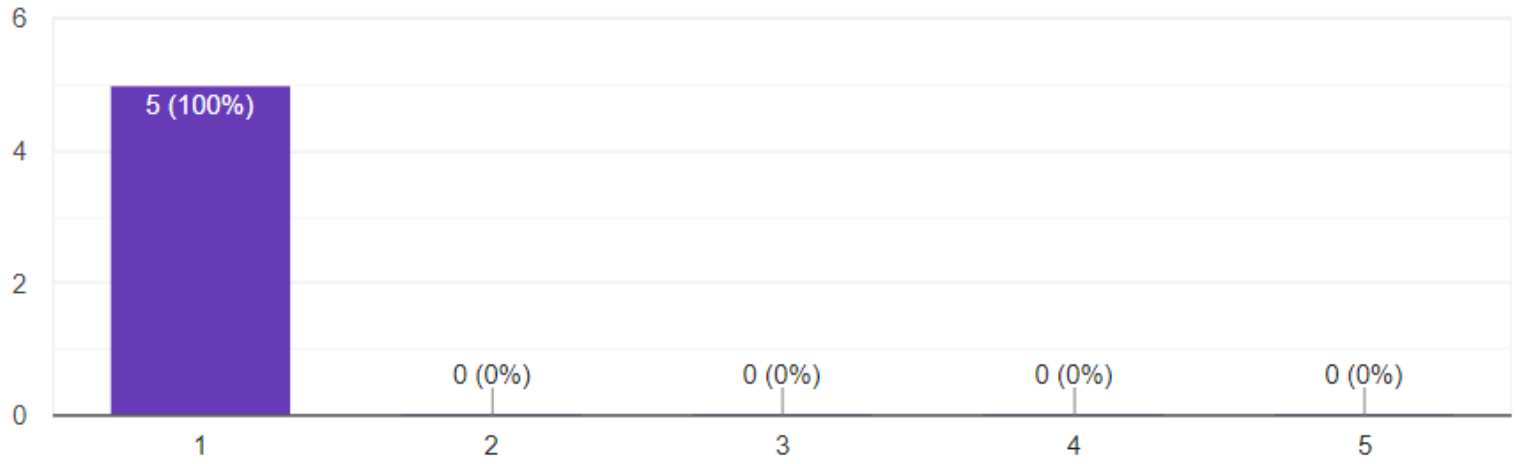
5 responses



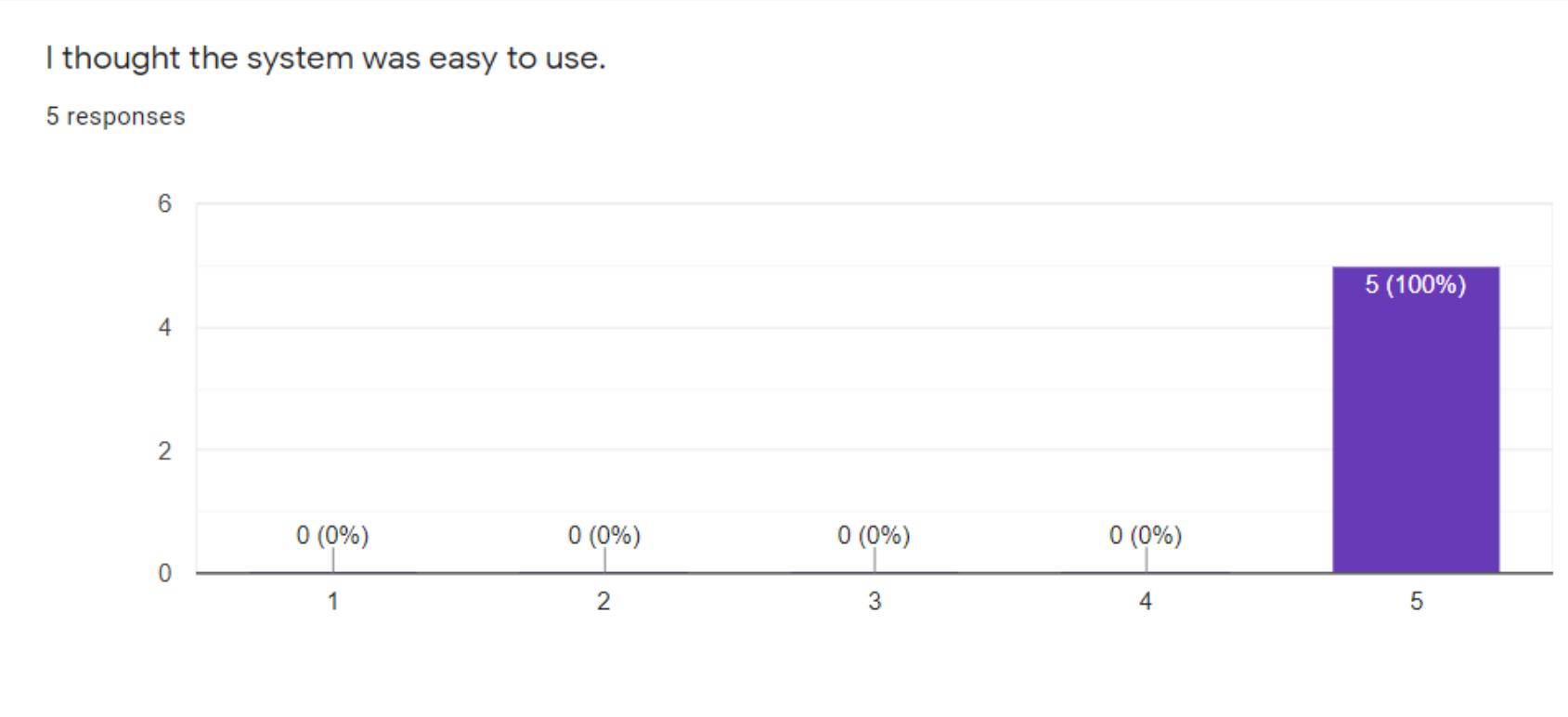
SUS Test

I found the system unnecessarily complex.

5 responses



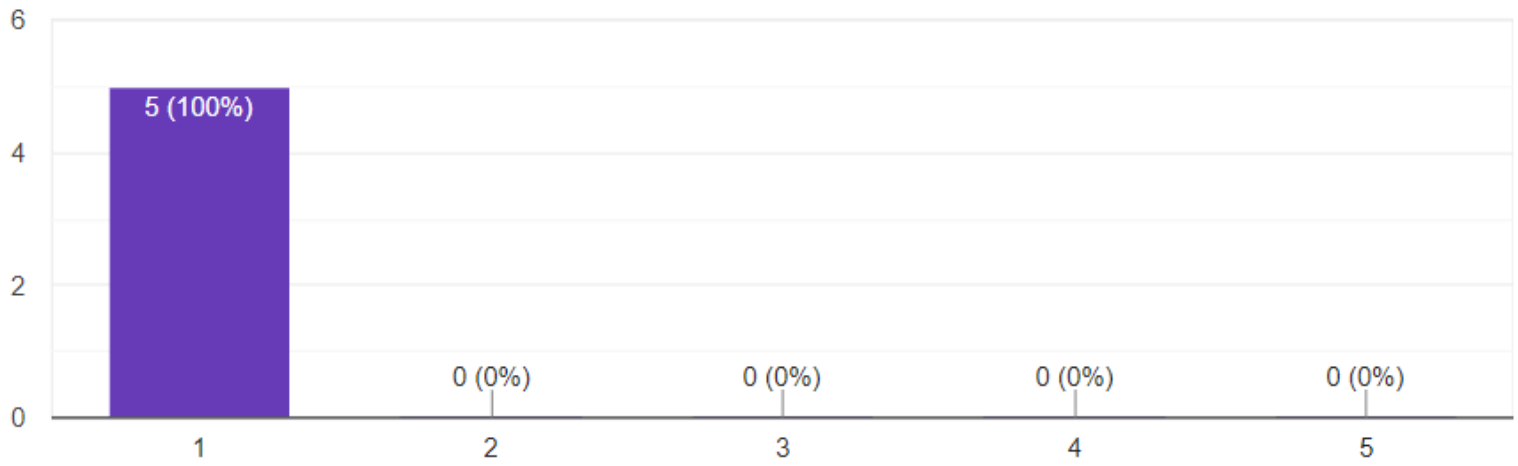
SUS Test


I thought the system was easy to use.
5 responses
6
4
2
0
0 (0%)
0 (0%)
0 (0%)
0 (0%)
5 (100%)
1
2
3
4
5

SUS Test

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

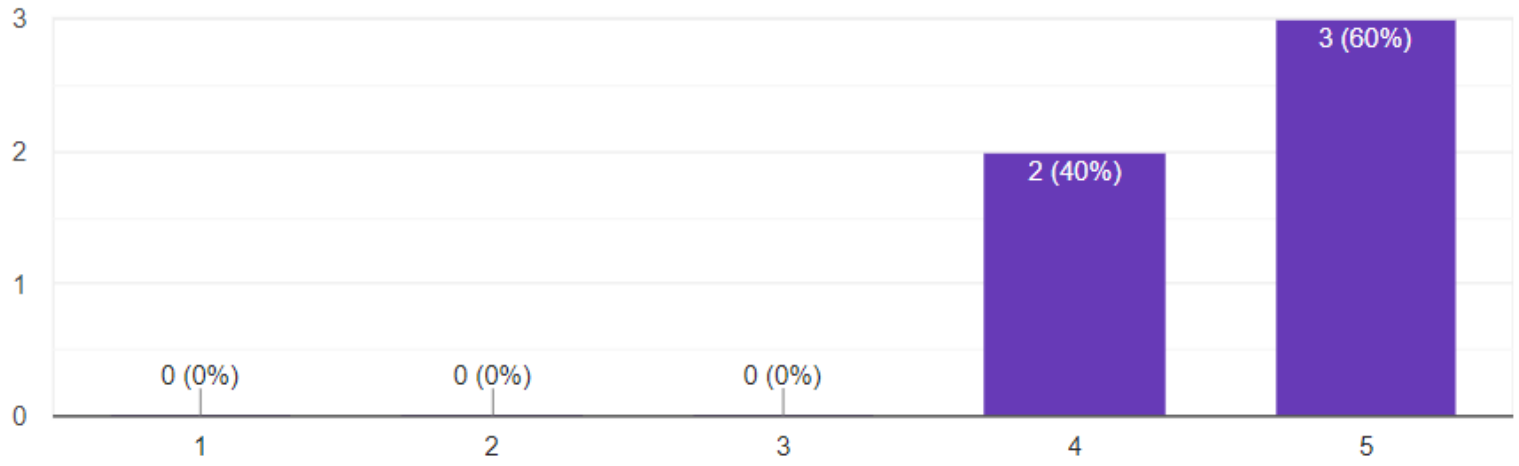
5 responses



SUS Test

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

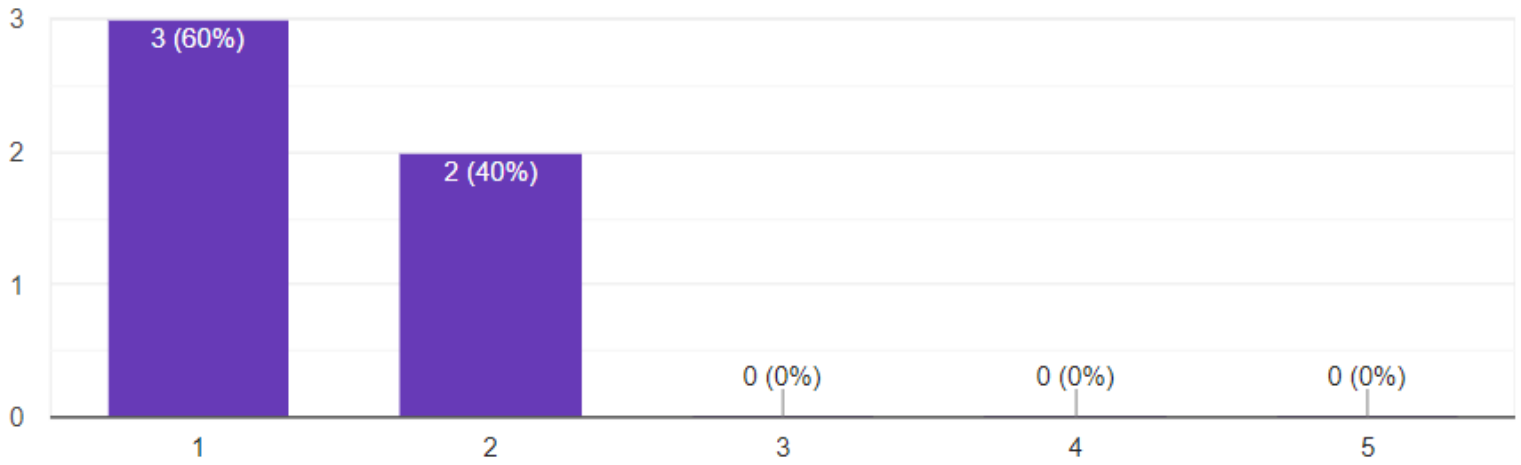
5 responses



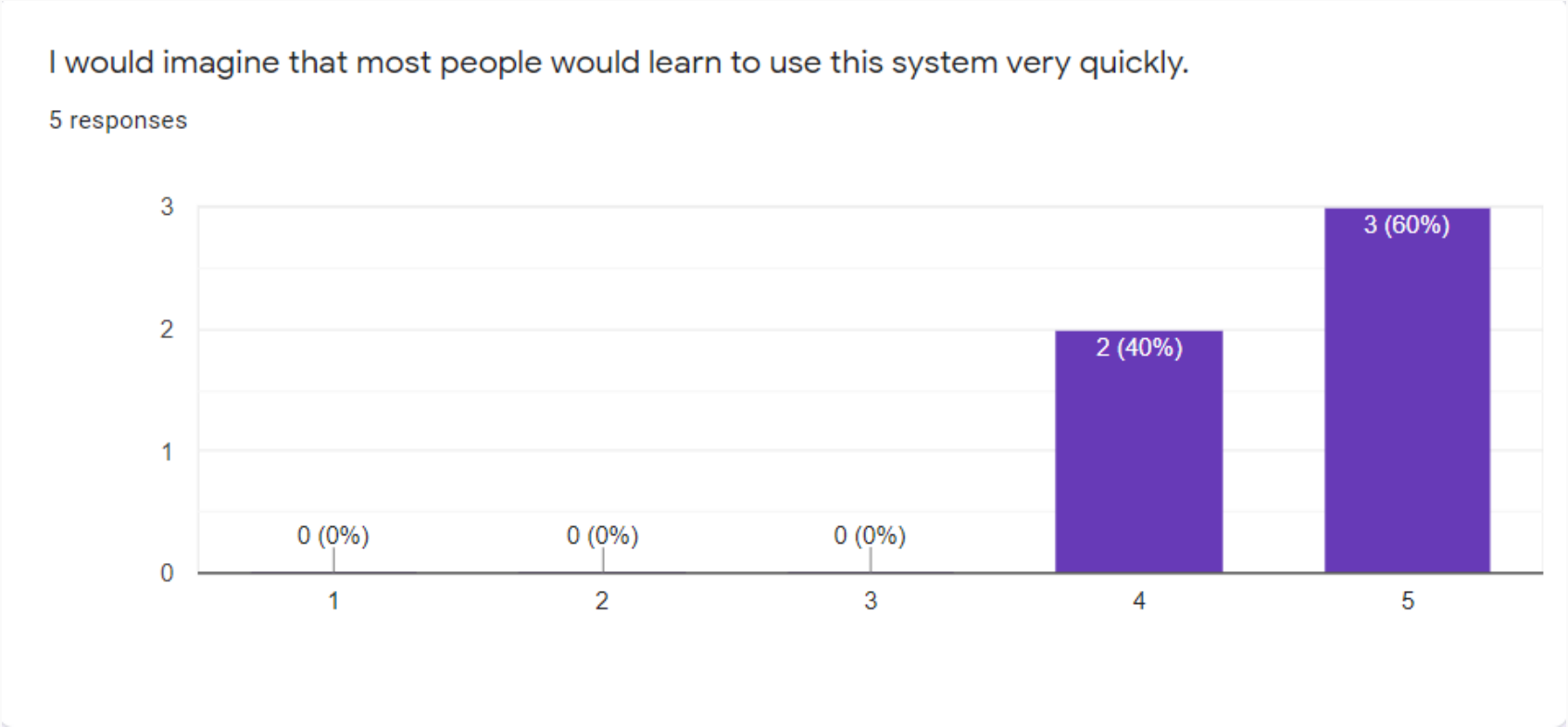
SUS Test

I thought there was too much inconsistency in this system.

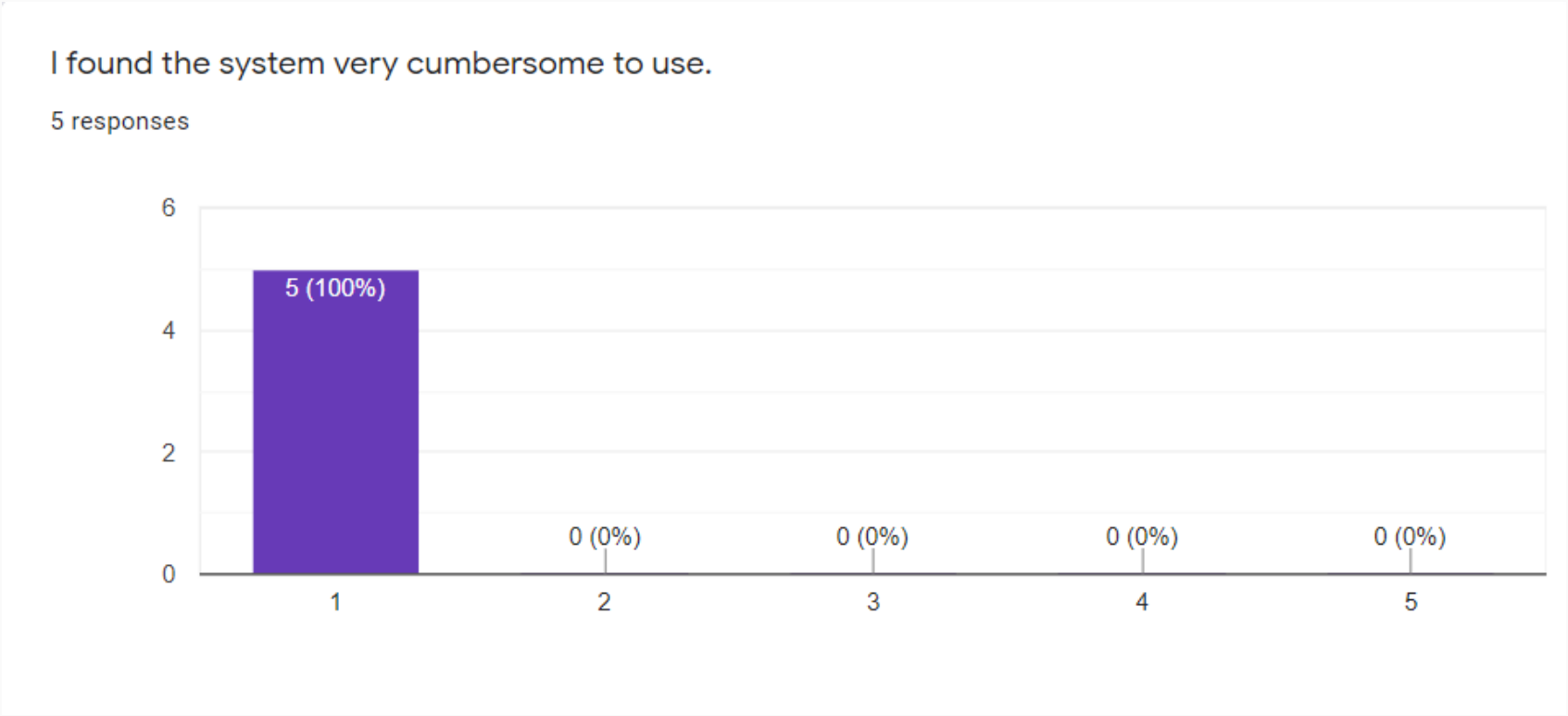
5 responses



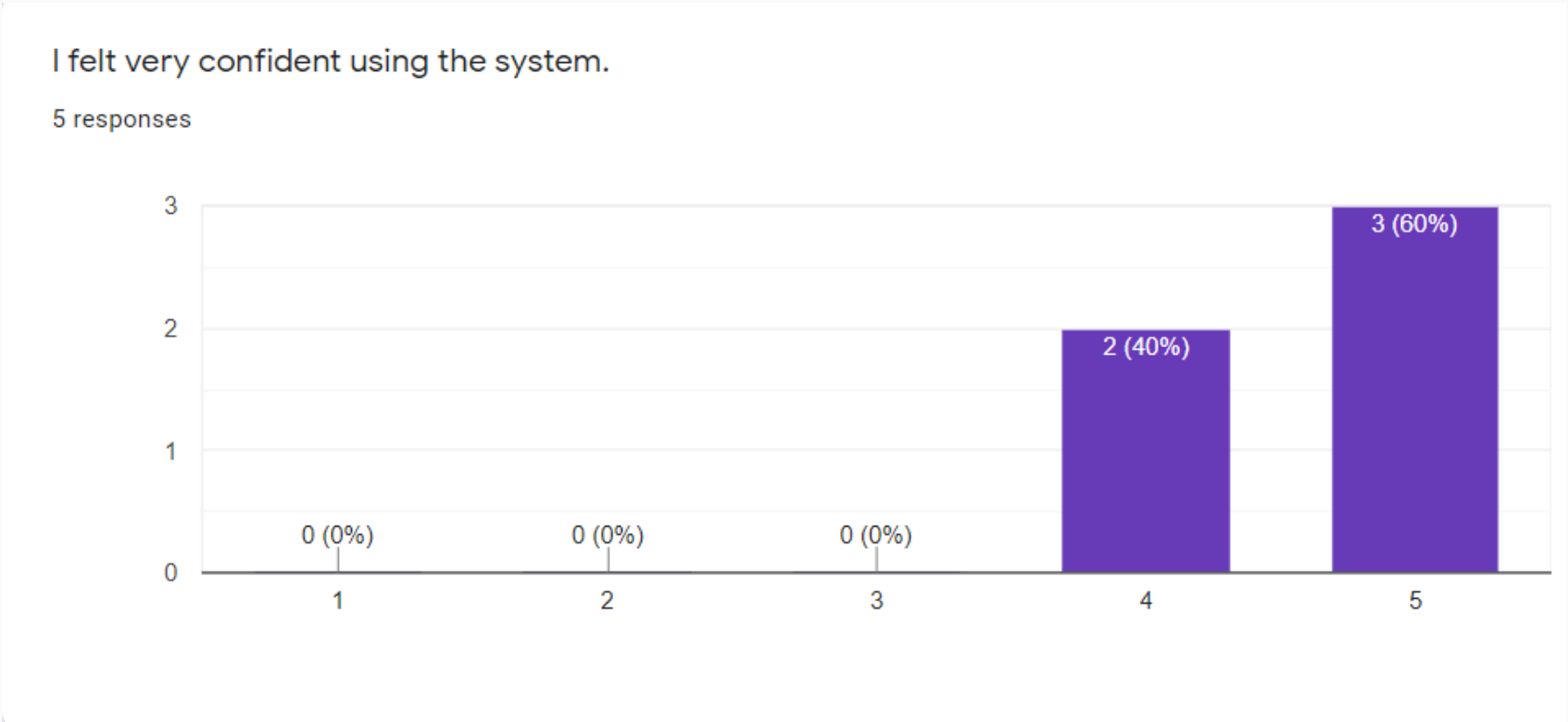
SUS Test


I would imagine that most people would learn to use this system very quickly.
5 responses
3
2
1
0
0 (0%)
0 (0%)
0 (0%)
2 (40%)
3 (60%)
1
2
3
4
5

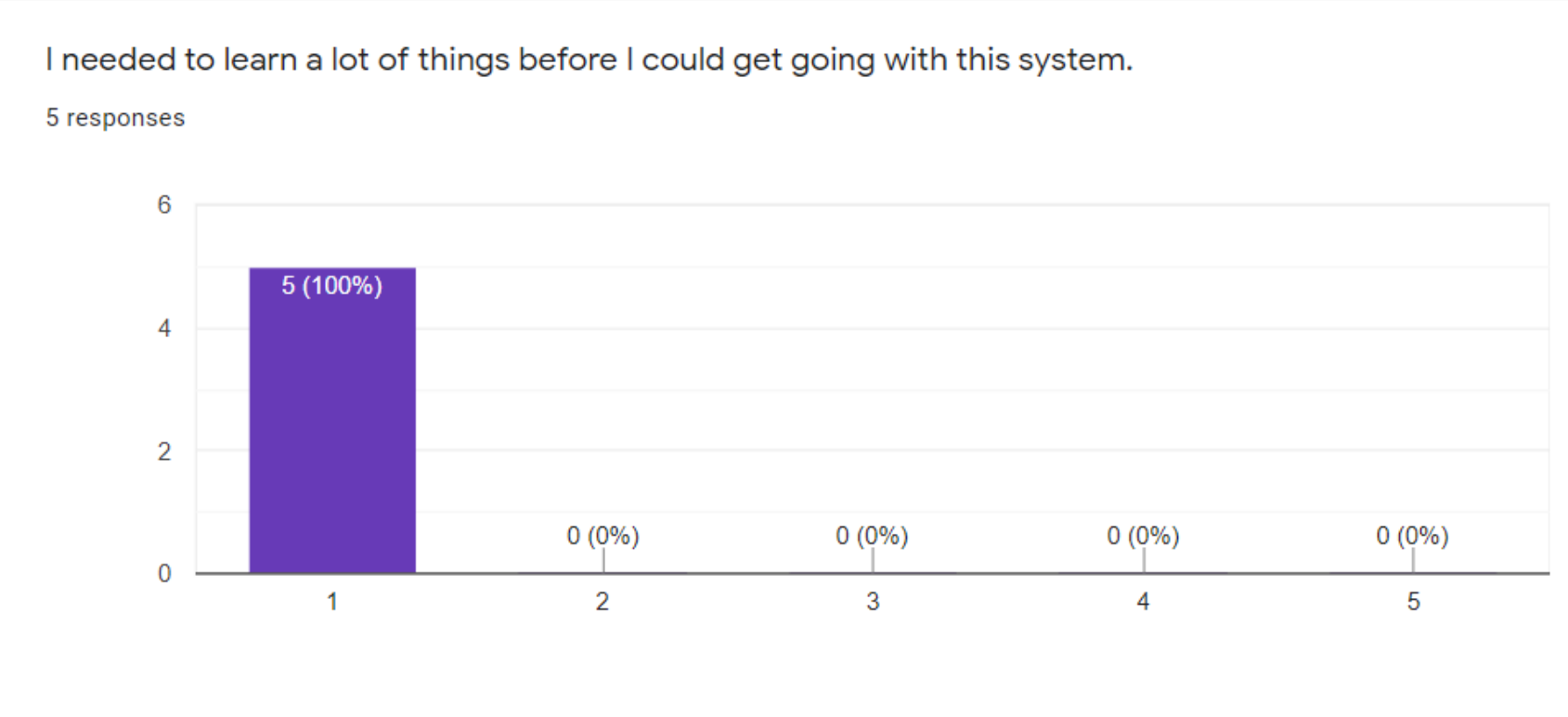
SUS Test


I found the system very cumbersome to use.
5 responses
6
4
2
0
5 (100%)
0 (0%)
0 (0%)
0 (0%)
0 (0%)
1
2
3
4
5

SUS Test


I felt very confident using the system.
5 responses
3
2
1
0
0 (0%)
0 (0%)
0 (0%)
2 (40%)
3 (60%)
1
2
3
4
5

SUS Test


I needed to learn a lot of things before I could get going with this system.
5 responses
6
4
2
0
5 (100%)
0 (0%)
0 (0%)
0 (0%)
0 (0%)
1
2
3
4
5

Functional testing

- The following functionalities will now be demonstrated
  - As a user, I want to visualize my electrical consumption in a specific time frame in a chart so that I can get a better overview of it
  - As a user, I want to modify the time frame that is displayed in the chart, so that I can see with more detail a specific period of time of my interest