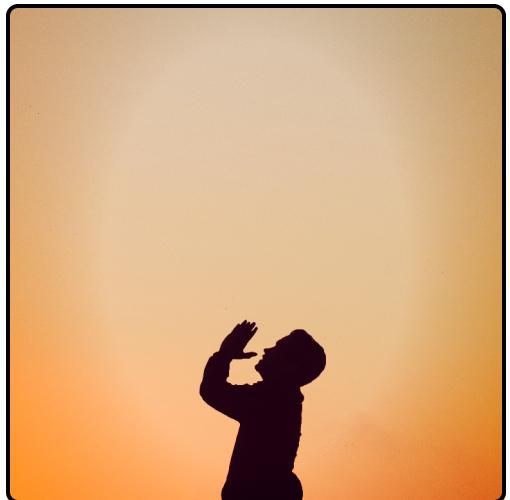


# WIND TURBINE GENERATOR

SPRINT 1



# TEAM



Francesc Contreras  
Software Engineer & Data Analyst



Marc Visa  
Software Engineer



Albert Pérez  
Full-Stack Engineer

# PRODUCT BACKLOG

24 Open ✓ 0 Closed		Author ▾	Label ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	<span>●</span> Read Documentation Acelerometer ADXL345 <span>learning</span>						
	#24 opened 8 days ago by elskater98     Done 3						
<input type="checkbox"/>	<span>●</span> First Contact with electronic components <span>learning</span>						
	#23 opened 8 days ago by elskater98     Done 8 ○ 3 tasks done						
<input type="checkbox"/>	<span>●</span> Read Documentation ESP-01 <span>learning</span>						
	#22 opened 8 days ago by elskater98     Done 3						
<input type="checkbox"/>	<span>●</span> Read Documentation DHT11 <span>learning</span>						
	#21 opened 8 days ago by elskater98     Done 3						
<input type="checkbox"/>	<span>●</span> Revise Material <span>good first issue</span>						
	#20 opened 8 days ago by elskater98     Done 2						
<input type="checkbox"/>	<span>●</span> Read Documentation about NodeMCU module <span>learning</span>						
	#19 opened 15 days ago by mvp17     Product Backlog 3						
<input type="checkbox"/>	<span>●</span> Sprint Documentation <span>documentation</span>						
	#18 opened 15 days ago by elskater98     Done 8						
<input type="checkbox"/>	<span>●</span> MQTT Broker Development <span>enhancement</span>						
	#17 opened 15 days ago by elskater98     Product Backlog 8						
<input type="checkbox"/>	<span>●</span> Arduino interaction with R.Pi <span>enhancement</span>						
	#16 opened 15 days ago by mvp17     Product Backlog 8						
<input type="checkbox"/>	<span>●</span> Data Consumer: Ultrasonic LED bar representation <span>enhancement</span>						
	#15 opened 15 days ago by mvp17     Product Backlog 8						
<input type="checkbox"/>	<span>●</span> Data Consumer: Data log and Screen representation <span>enhancement</span>						
	#14 opened 15 days ago by mvp17     Product Backlog 8						
<input type="checkbox"/>	<span>●</span> Data Producer 2 development <span>enhancement</span>						
	#13 opened 15 days ago by mvp17     In progress 8						
<input type="checkbox"/>	<span>●</span> Data Producer 1 development <span>enhancement</span>						
	#12 opened 15 days ago by mvp17     Done 8						

<input type="checkbox"/>	<span>●</span> Test Data Producer 2 <span>testing</span>						
	#11 opened 15 days ago by elskater98     Product Backlog 5						
<input type="checkbox"/>	<span>●</span> Test Data Producer 1 <span>testing</span>						
	#10 opened 15 days ago by elskater98     Done 5						
<input type="checkbox"/>	<span>●</span> Test MQTT Broker <span>testing</span>						
	#9 opened 15 days ago by elskater98     Product Backlog 5						
<input type="checkbox"/>	<span>●</span> Test Supervision Station <span>testing</span>						
	#8 opened 15 days ago by elskater98     Product Backlog 5						
<input type="checkbox"/>	<span>●</span> Read Documentation MCP23017 <span>learning</span>						
	#7 opened 15 days ago by elskater98     Product Backlog 3						
<input type="checkbox"/>	<span>●</span> Arduino interaction with ESP-01 <span>enhancement</span>						
	#6 opened 15 days ago by mvp17     Product Backlog 8						
<input type="checkbox"/>	<span>●</span> Read Documentation I2C Protocol <span>learning</span>						
	#5 opened 15 days ago by elskater98     Done 2						
<input type="checkbox"/>	<span>●</span> Read documentation LCD Screen/Display <span>learning</span>						
	#4 opened 15 days ago by elskater98     Done 2						
<input type="checkbox"/>	<span>●</span> Install ChibiOS to Raspberry Pi <span>enhancement</span>						
	#3 opened 15 days ago by elskater98     Product Backlog 3						
<input type="checkbox"/>	<span>●</span> Prepare Raspberry Pi Environment <span>learning</span>						
	#2 opened 15 days ago by elskater98     Product Backlog 3						
<input type="checkbox"/>	<span>●</span> Prepare Arduino Environment <span>learning</span>						
	#1 opened 15 days ago by elskater98     Done 3 ○ 3 tasks done						

# SPRINT BACKLOG

↳ Sprint: Oct 28 - Nov 12

Start Oct 28, 2021 Due by Nov 12, 2021 Duration: 16 days

(47) / 55

## Story Points

Completed	Remaining	Total
47	8	55

85%

## Issues and pull requests

Completed	Remaining	Total
11	1	12

92%

## Remaining issues and pull requests

### Story points

- ⌚ Data Producer 2 development enhancement  
wind\_turbine\_generator #13 added 7 days ago ●●● In progress

(8)

## Completed issues and pull requests

### Story points

- ✓ Prepare Arduino Environment learning  
wind\_turbine\_generator #1 added 15 days ago ●●● Closed
- ✓ Read documentation LCD Screen/Display learning  
wind\_turbine\_generator #4 added 7 days ago ●●● Closed
- ✓ Read Documentation I2C Protocol learning  
wind\_turbine\_generator #5 added 7 days ago ●●● Closed
- ✓ Test Data Producer 1 testing  
wind\_turbine\_generator #10 added 0 days ago ●●● Closed
- ✓ Data Producer 1 development enhancement  
wind\_turbine\_generator #12 added 7 days ago ●●● Closed
- ✓ Sprint Documentation documentation  
wind\_turbine\_generator #18 added 7 days ago ●●● Closed
- ✓ Revise Material good first issue  
wind\_turbine\_generator #20 added 7 days ago ●●● Closed
- ✓ Read Documentation DHT11 learning  
wind\_turbine\_generator #21 added 7 days ago ●●● Closed
- ✓ Read Documentation ESP-01 learning  
wind\_turbine\_generator #22 added 7 days ago ●●● Closed
- ✓ First Contact with electronic components learning  
wind\_turbine\_generator #23 added 7 days ago ●●● Closed
- ✓ Read Documentation Accelerometer ADXL345 learning  
wind\_turbine\_generator #24 added 7 days ago ●●● Closed

(3)

(2)

(2)

(5)

(8)

(8)

(2)

(3)

(3)

(8)

(3)



# SPRINT GOAL

**Initiation**, with electronic components  
how to program them, and **start working** with the project.

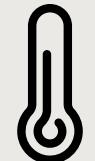
A photograph of a wind turbine with three blades, set against a backdrop of trees and a cloudy sky. The image is partially visible on the left side of the slide.

# SPRINT DEFINITION

User Stories

## Temperature & Humidity

As user I will obtain those parameters of the Wind Turbine Generator.



## Accelerometer

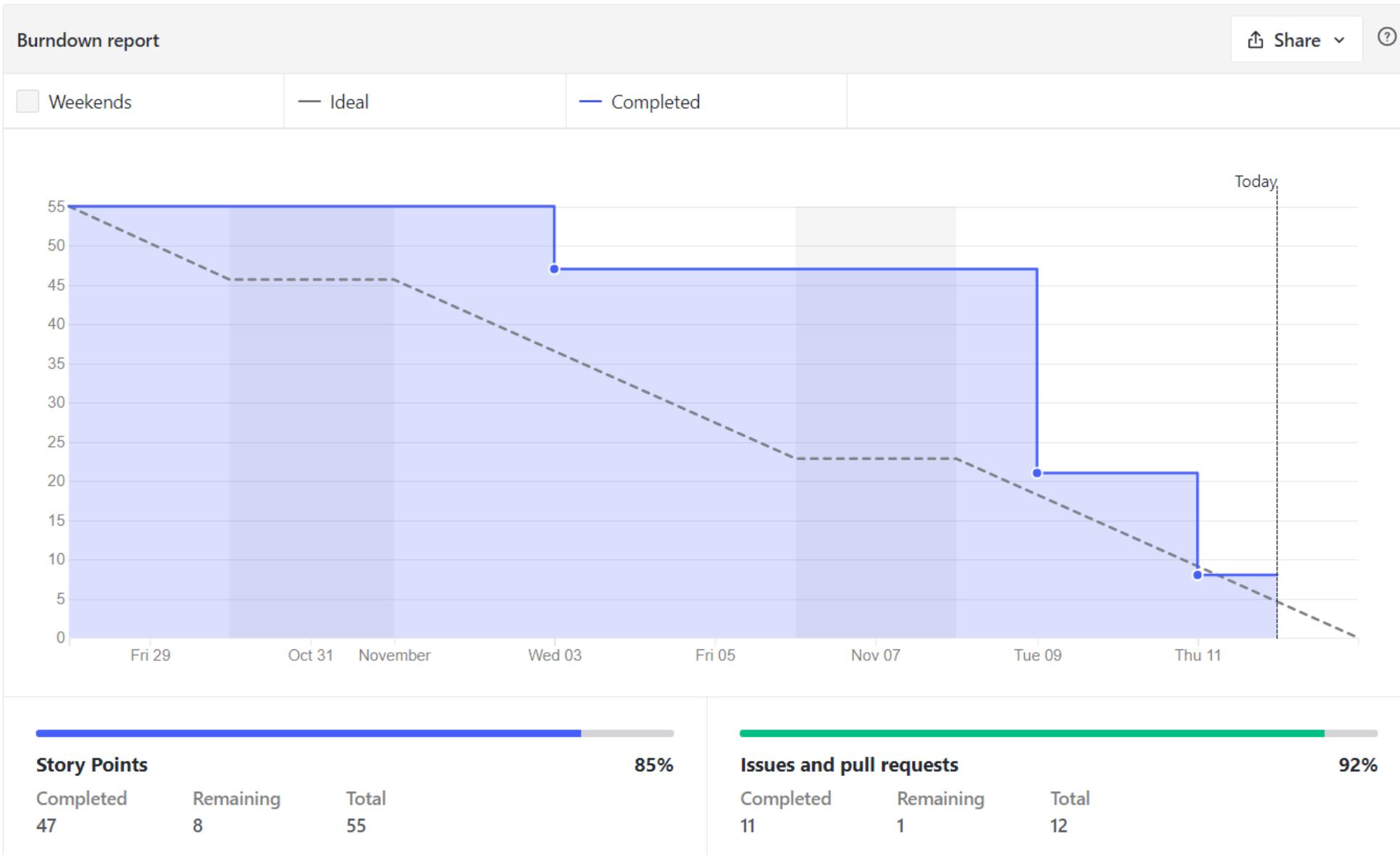
As user I would like to know the Wind Turbine Generator movement.



## Sprint Goal

Develop Data Producer 1 & Data Producer 2

# SPRINT REVIEW



14 days

30h dedication time

47/55

story points completion

# SPRINT REVIEW

Remaining issues and pull requests	Story points
<span>●</span> Data Producer 2 development <span>enhancement</span> wind_turbine_generator #13 added 8 days ago <span>0/0</span> In progress	8
<hr/>	
Completed issues and pull requests	Story points
<span>✓</span> Prepare Arduino Environment <span>learning</span> wind_turbine_generator #1 added 16 days ago <span>0/0</span> Closed	3
<span>✓</span> Read documentation LCD Screen/Display <span>learning</span> wind_turbine_generator #4 added 8 days ago <span>0/0</span> Closed	2
<span>✓</span> Read Documentation I2C Protocol <span>learning</span> wind_turbine_generator #5 added 8 days ago <span>0/0</span> Closed	2
<span>✓</span> Test Data Producer 1 <span>testing</span> wind_turbine_generator #10 added 1 days ago <span>0/0</span> Closed	5
<span>✓</span> Data Producer 1 development <span>enhancement</span> wind_turbine_generator #12 added 8 days ago <span>0/0</span> Closed	8
<span>✓</span> Sprint Documentation <span>documentation</span> wind_turbine_generator #18 added 8 days ago <span>0/0</span> Closed	8
<span>✓</span> Revise Material <span>good first issue</span> wind_turbine_generator #20 added 8 days ago <span>0/0</span> Closed	2
<span>✓</span> Read Documentation DHT11 <span>learning</span> wind_turbine_generator #21 added 8 days ago <span>0/0</span> Closed	3
<span>✓</span> Read Documentation ESP-01 <span>learning</span> wind_turbine_generator #22 added 8 days ago <span>0/0</span> Closed	3
<span>✓</span> First Contact with electronic components <span>learning</span> wind_turbine_generator #23 added 8 days ago <span>0/0</span> Closed	8
<span>✓</span> Read Documentation Acelerometer ADXL345 <span>learning</span> wind_turbine_generator #24 added 8 days ago <span>0/0</span> Closed	3

14 days

30h dedication time

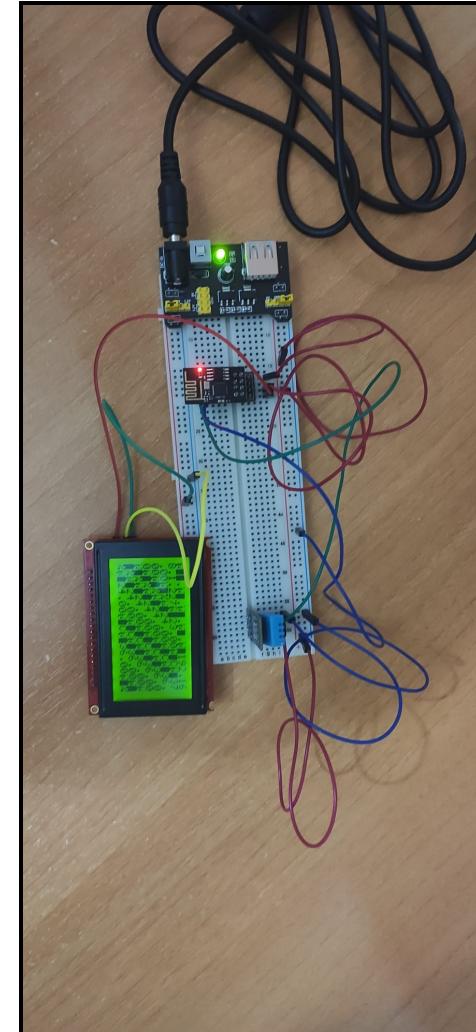
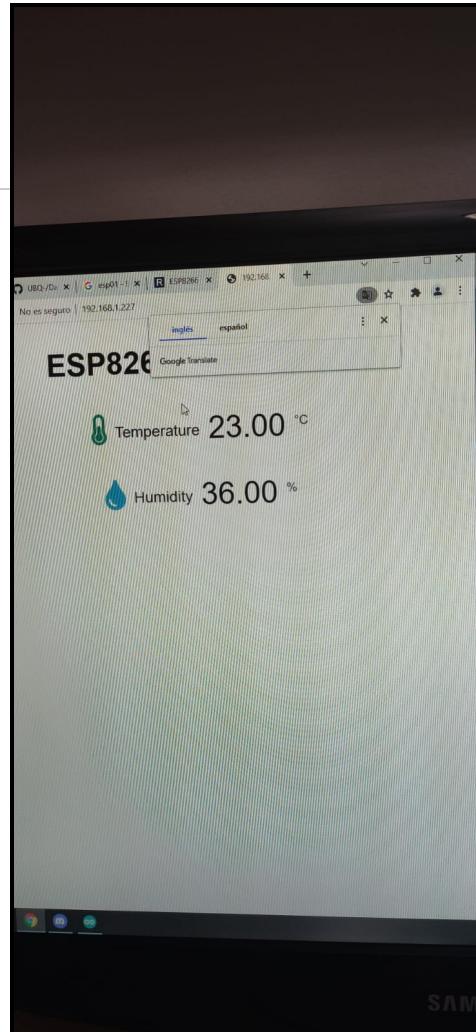
47/55

story points completion

# DATA PRODUCER 1

## Material

1. ESP-01 (3.3 V)
2. Protoboard
3. LCD Screen (5V)
4. DHT11 (3.3 V)
5. VCC Protoboard Adapter (3.3V, 5V)
6. ESP Programmer Module (**Driver required**)
7. Wires



# NEXT SPRINT

Remaining issues and pull requests	Story points
● Read Documentation MCP23017 <span>learning</span> wind_turbine_generator #7 added 0 days ago  Sprint Backlog	3
● Test MQTT Broker <span>testing</span> wind_turbine_generator #9 added 0 days ago  Sprint Backlog	5
● Test Data Producer 2 <span>testing</span> wind_turbine_generator #11 added 0 days ago  Sprint Backlog	5
● Data Producer 2 development <span>enhancement</span> wind_turbine_generator #13 added 0 days ago  In progress	8
● MQTT Broker Development <span>enhancement</span> wind_turbine_generator #17 added 0 days ago  Sprint Backlog	8
● Read Documentation about NodeMCU module <span>learning</span> wind_turbine_generator #19 added 0 days ago  Sprint Backlog	3
● Documentation Sprint 2 wind_turbine_generator #25 added 0 days ago  Sprint Backlog	3