



Index

Current Conditions

1. Shortcut to index
2. Navigation menu
3. Title with current pi location and sensor read time
4. Current sensor data



2

1

Current data from: pi 1

3

Located at Josh

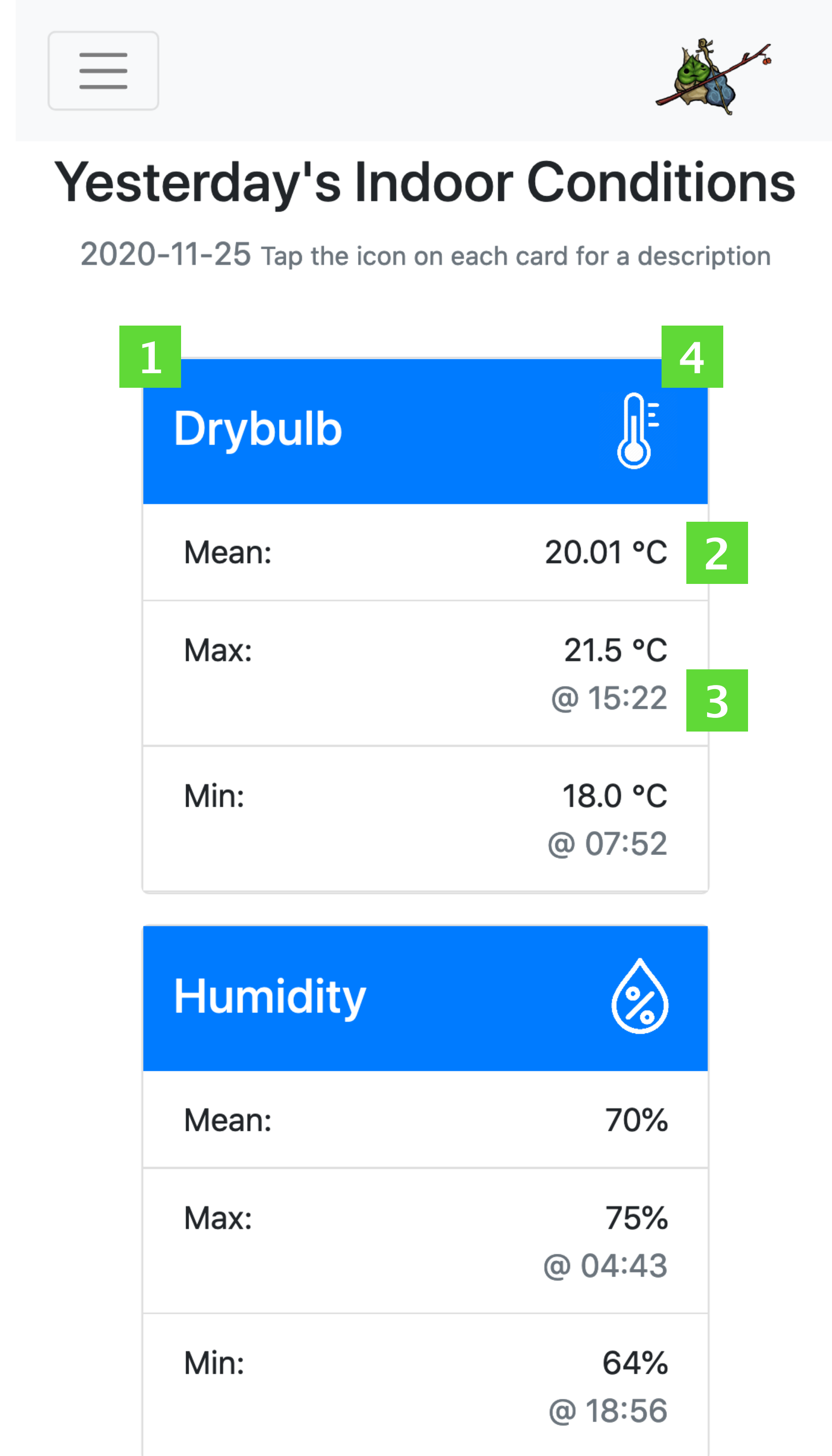
Last read at 12:00

Drybulb:	20 °C	4
Relative Humidity:	67%	
RH for 1 kPa VPD	57%	
Dewpoint	13 °C	
Vapor Pressure Deficit:	0.78 kPa	
Light:	317 lux	

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Yesterday's Data

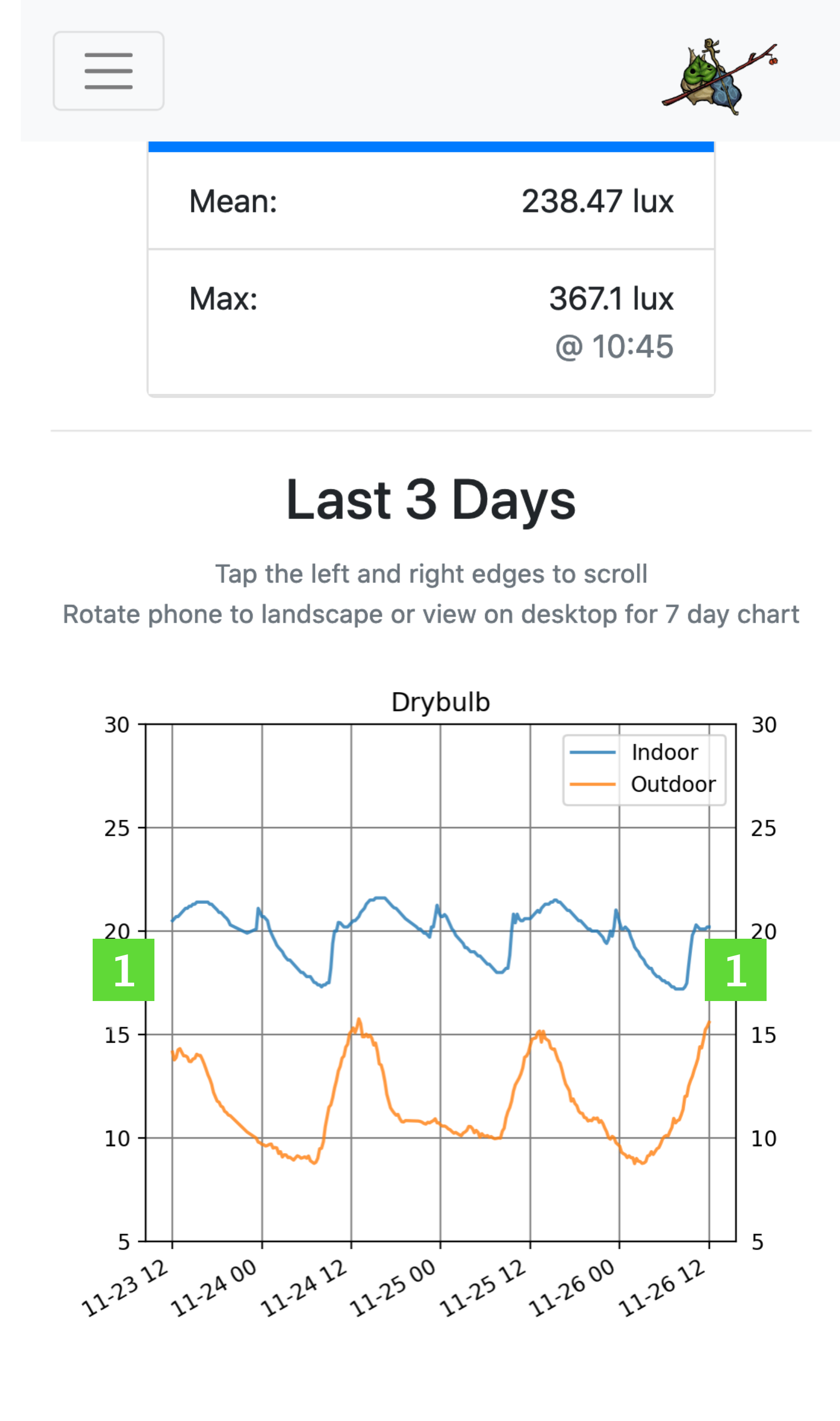
1. Data Type
2. Data
3. Time of min/max (in grey)
4. Tap the icon on each card to show an explanation of each metric



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Charts

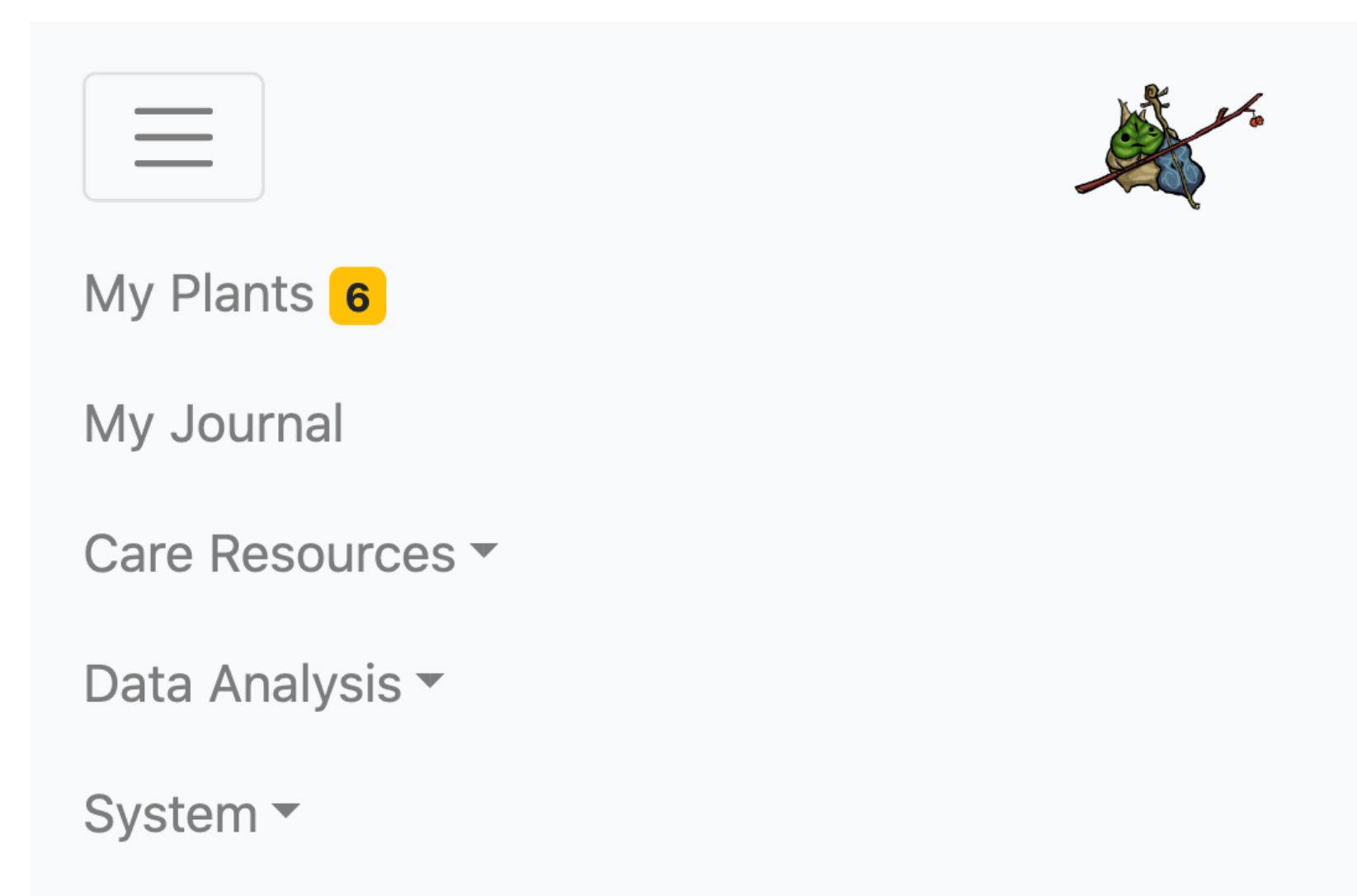
1. Tap the left or right side of the chart to scroll through the different charts (dry bulb, relative humidity, VPD, Lux)
2. 3 day charts are optimized for mobile screens
3. Rotate your phone to landscape or view on laptop/tablet for the full 7 day chart



Navbar

How to get around

1. **My Plants** – manage plants being tracked by the system
2. **My Journal** – add, view and manage journal entries for your plants
3. **Care Resources** – Mostly under construction at the moment, but come here to add missing plant species
4. **Data Analysis** – dig deeper into the data collected by your pi's sensors
5. **System** – Change system settings and view logs for troubleshooting



Located at JOSHI

Last read at 12:00

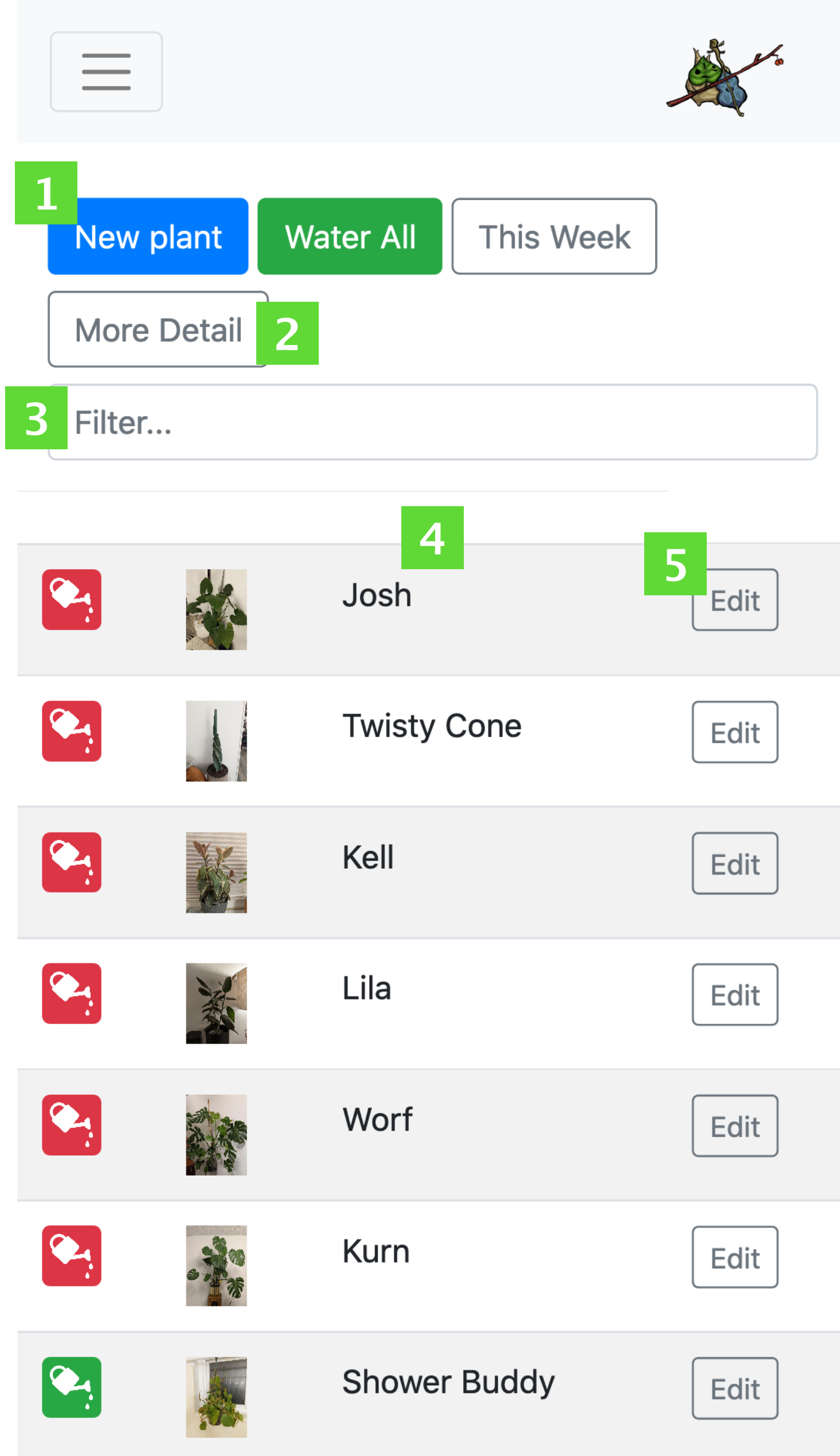
Drybulb:	20 °C
Relative Humidity:	67%
RH for 1 kPa VPD	57%
Dewpoint	13 °C
Vapor Pressure Deficit:	0.78 kPa
Light:	317 lux

Yesterday's Indoor Conditions

My Plants

Track and manage your plant collection


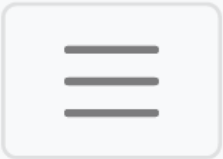
1. Add a new plant to your collection
2. Links to the expanded my plants table, overview graphs, graveyard/list of sold plants
3. Filter the table to find specific plants
4. Table of basic plant collection info (rotate phone or view on tablet/laptop for more info)
5. Edit this plant



My Plants – Watering

Keep those plants moist and happy

1. Water all plants in your collection
2. Water this plant
 1. Red = Water now
 2. Yellow = Watering day coming soon
 3. Green = Plenty of time left!
 4. Grey = Watering Disabled (ignore)
3. If you make a mistake, edit the “last watered” field
4. Show 7 day look-ahead (see next slide)



New plant















1Water All

This Week

4


More Detail

Filter...

2			Josh	3Edit
			Twisty Cone	Edit
			Kell	Edit
			Lila	Edit
			Worf	Edit
			Kurn	Edit
2			Shower Buddy	Edit

Watering Calendar

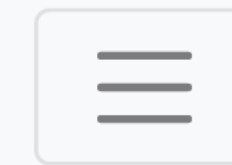
7 day look-ahead

<div> My Plants 6 My Journal Care Resources ▾ Data Analysis ▾ System ▾</div>							
Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
<div>Josh</div> <div>Twisty Cone</div> <div>Kell</div> <div>Lila</div> <div>Worf</div> <div>Kurn</div>					<div>Shower Buddy</div> <div>Doc Brown</div> <div>Phineas</div> <div>Ferb</div> <div>Ned</div> <div>Rhy</div> <div>Crowley</div> <div>Lwaxana</div>	<div>Victreebel</div>	

Add New Plant

Some key notes below

1. Names must be unique, but feel free to do “Fiddle 1”
2. Add new species in Care Resources → Plant Requirements Database
3. Leaf temp offset – leave at zero for now, but will come in handy later ;)
4. Pictures are optional



Add new plant to collection

Unique Name	<input type="text"/>
Species	<input type="text" value="none"/>
Location	<input type="text"/>
Purchased From	<input type="text"/>
Purchase Date	<input type="text" value="11 / 26 / 2020"/>
Watering Schedule (days)	<input type="text" value="7"/>
Last Watered	<input type="text" value="11 / 26 / 2020"/>
Substrate	<input type="text" value="Flowering house pla"/>
Pot Size (in)	<input type="text" value="4.00"/>
Leaf Temperature Offset (deg C)	<input type="text" value="0.00"/>

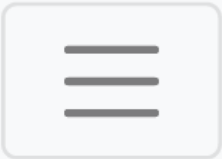
Upload
Picture

No file selected.

Plant Requirements

Only sort-of useful right now

1. Find plant species included in the requirements database here
2. Add new species
3. Follow the source links at the top for great care info from UofG Ext.!
4. This is sort of WIP but will be useful in future updates



New Requirement


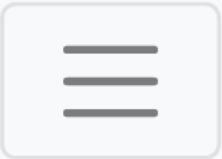
Info from guidance by [Prof. Bodie V. Pennisi](#), published by the [UofG Ext.](#)

ID	botanical_name	common_name	light_categor
1	Abutilon hybridum	Flowering Maple	1.0
232	Abutilon hybridum	Flowering Maple	1.0
2	Acalypha hispida	Chenile Plant	1.0
233	Acalypha hispida	Chenile Plant	1.0
3	Achimenes hybrids	Magic Flower	2.0
234	Achimenes hybrids	Magic Flower	2.0
4	Acorus calamus	Sweet Flag	2.5
235	Acorus calamus	Sweet Flag	2.5
5	Acorus gramineus	Miniature Sweet Flag	2.5
236	Acorus gramineus	Miniature Sweet Flag	2.5

Data Analysis

More opportunities to go overboard

1. **My Plants Overview** – Nerdy charts including a plant timeline, pot sizes, and others
2. **Stats By Plant** – View all-time data for each plant/location
3. **Raw SQL** – query the databases to view more data and troubleshoot
4. **Forecasting and Charting** coming in future updates!



[My Plants 6](#)

[My Journal](#)

[Care Resources ▾](#)

[Data Analysis ▾](#)

[My Plants Overview](#)

[Stats by Plant/Location](#)

[Raw SLQ Query](#)

[Forecasting](#)

[Charting](#)

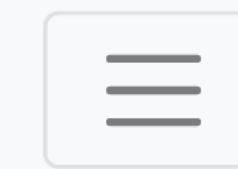
[System ▾](#)

Yesterday's Indoor Conditions

System Settings

Set up your datalogger

1. Name your pi
2. Enter your US timezone
3. Change to fahrenheit (bleh)
4. Change your pi's location
5. API key – free account needed for outdoor weather data
6. Lat/Long – also needed for outdoor weather
7. Add/remove sensors from the system
8. Add location – tracking something other than a plant? Maybe you have a greenhouse?



Change System Settings

Name	<input type="text" value="name"/>
Time Zone	<input type="text" value="US/Pacific"/>
Temperature Scale	<input type="text" value="C"/>
Current Location	<input type="text" value="Josh"/>
Ideal VPD	<input type="text" value="1"/>
OpenWeatherMap API Key	<input type="text" value="key"/>
Latitude	<input type="text" value="00.0000"/>
Longitude	<input type="text" value="000.0000"/>

☒ Temperature/Humidity Sensor

☒ Light Sensor

☐ Soil Moisture Sensor

[Update](#)

[Add new non-plant location](#)