Revision´s manual:

Note: At this point the applicant thinks that all the necessary features to pass the test are already developed, including the Front in a simple enough way to show Full Stack skills, however there are some details that should be highlighted and other features that could be improved. These can be improvements to validations, counters, re-renders or Snackbar component.

- Regarding the image of the medicines: although Next.js (from Vercel) has a very good optimization for static images, it does not have the advantage of rendering dynamically loaded images without an extra server for it, so it was decided not to put them, it is clarified although it does not affect the operation of the application.

Note 2: some similar functionalities are done in a different way (such as the case of saving a medicine in the database and the case of saving a drone). This has been done intentionally with the idea of showing different abilities.

- The application prevents that more than 10 drones cannot be inserted, launching a message when preventing to open the dialog to insert a new drone.
- The following fields are validated in the Registering a drone form:
    - serial_number (TextField, required, non-zero or "", and less than or equal to 100)
    - model (Autocomplete, required)
    - weight (TextField of type number, required, greater than 0 and less than or equal to 500)
    - battery_capacity (TextField of type number, required, greater than 0 and less than or equal to 100)
    - state (Autocomplete, required)
- In the **AddMedications** form, the following fields are validated: (you must paste the content of a JSON object, if it does not have a simple one in medications.json)
    - name (required, letters, numbers, "-" y "_")
    - weight (required, float)
    - code (required, letters in uppercase, "_" and numbers)
    - image (not required)

Load data (variant: no commandline no scripts)
1. Edit .env file and set your settings to connect to the database
2. Copy the content of the file musala.sql "*/src/pages/api/musala.sql*"
3. Open the MySQL DMS you prefer and paste the code
4. Run script

Drone´s list

LOAD DATA

REVISION´S MANUAL

Frecuency dron...		
1	SET TIME	46 secs
Value in minutes		

☐ Checking available drones for loading   ⊕ ⬆ 👁 🗄

Serial number	Model	Weight limit	Battery capacity	State	Medication
cgfg	Cruiserweight	450	45%	LOADED	Felbamato, Fenofibrato
cgfg3	Middleweight	345	33%	LOADING	Felbamato, Famciclovir
fghf	Middleweight	500	98%	RETURNING	Famciclovir, Abraxane, Fentanilo, Farbital, Xigduo, Felbamato
fghfu7	Middleweight	500	98%	RETURNING	Farbital, Felbamato
gfjghj	Middleweight	54	35%	LOADING	Elemento-1

Registering a drone

1. Click on the button with the plus symbol

LOAD DATA

REVI...

Frecuency dron...		
1	SET TIME	40 secs

✕ Registering a drone

Serial nun...

cgfg
cgfg3
fghf
fghfu7
gfjghj

Serial number *   Select model * ▾   Select state * ▾

Weight limit *   Battery capacity *   Select medication(s) ▾

SAVE

Loading a drone with medication items

1. Click on the button with the symbol of a rectangle with an arrow pointing down. (It can also be done when registering a drone)

Weight limit	Battery capacity	State	Medication
450			
345			
240			
500			
500			nilo, Farbital
500			
140			

✕ Loading a drone with medication items

🔋   Select drone *

cgfg3   ✕ ▾

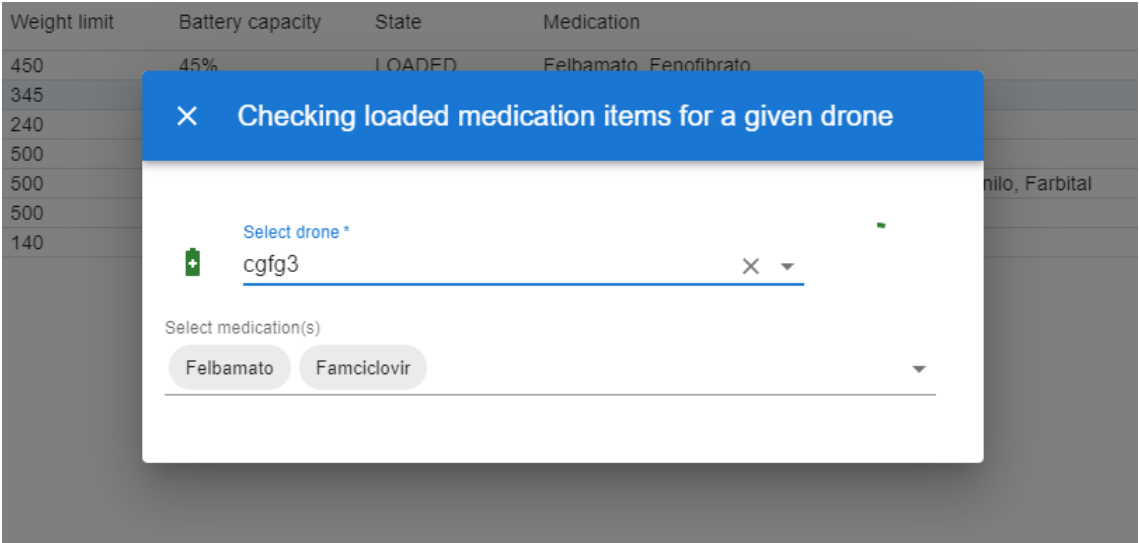Select medication(s)

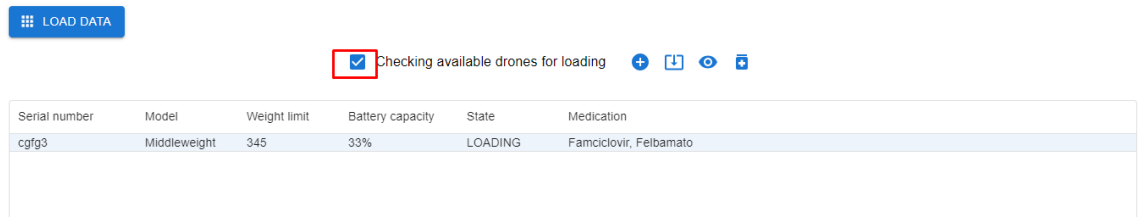Felbamato ⊗   Famciclovir ⊗   ▾

SAVE

Checking loaded medication items for a given drone

1. Click on the button with the icon of an eye (This can be seen in the list, and also in the Loading medications dialog)
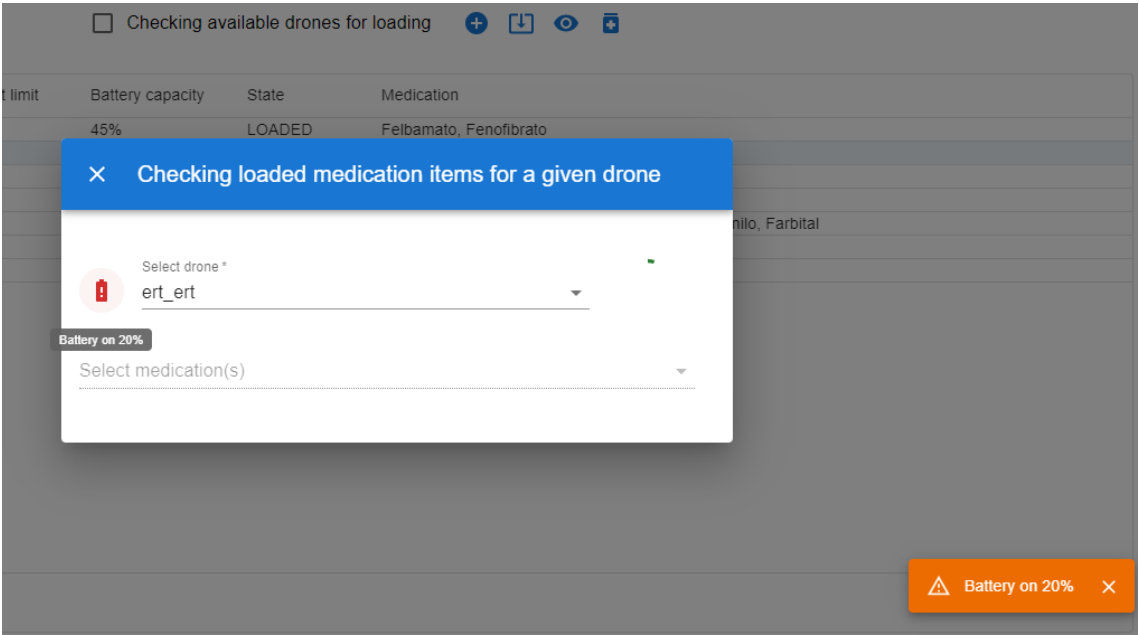

Checking available drones for loading

1. Check or uncheck the checkbox "Checking available drones for loading"

Check drone battery level for a given drone

1. There are three ways to do this: a) See Battery capacity column in the list of drones b) In the Loading medications dialog click on the battery icon. c) In the Checking loaded medication item dialog, click on the battery.

Testing with Jest

```
> javiertf-musala-exam@0.1.0 test
> jest

- info Loaded env from D:\Trabajo\Musala Soft\musala-javiertf-exam\.env
 PASS  test/app.test.js (11.719 s)
  testing...
    testing drones
      √ validates drone params creation (6 ms)
      √ Input/Output data must be in JSON format; (1 ms)
      √ length of the serial number less than or equal to 100 and defined (1 ms)
      √ weight limit less than or equal 500 and greater than 0 (1 ms)
      √ battery capacity less than or equal to 100 and greater than or equal 0 (2 ms)
    testing medications
      √ validates property name and string with letters, numbers, - and _ (1 ms)
      √ validates medication object with code property FALSY (1 ms)


Test Suites: 1 passed, 1 total
Tests:       7 passed, 7 total
Snapshots:   0 total
Time:        36.955 s
Ran all test suites.
```