STARBOTS COFFEE

The robotic cafeteria by The Construct

What is Starbots?

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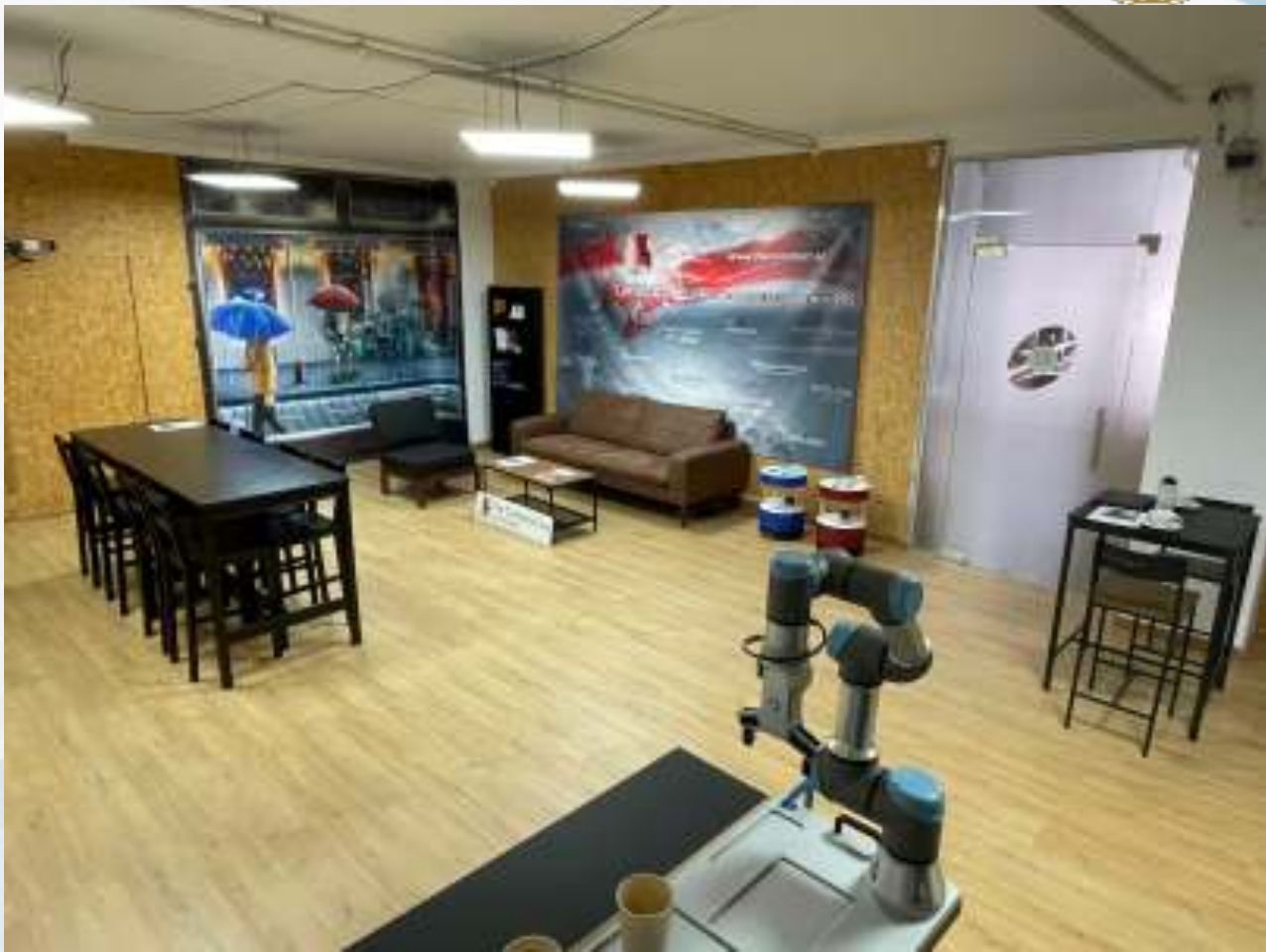

* Real cafeteria managed by robots
* Built by The Construct to teach robot fleet management

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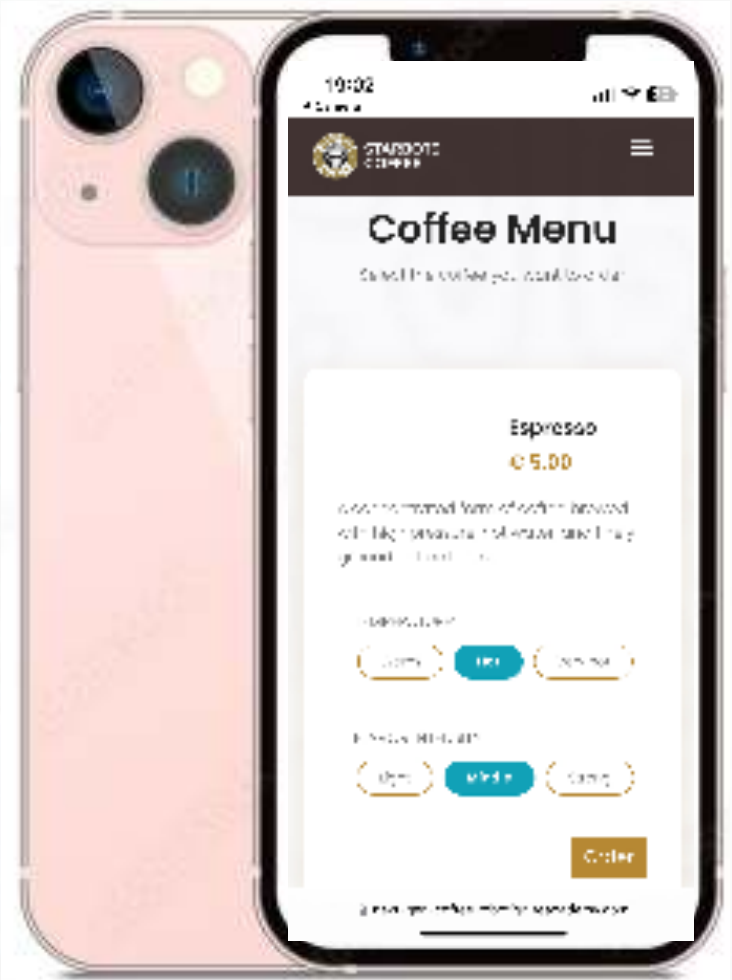
How To: 1st you scan the QR code

How To: 2nd, you order on the phone



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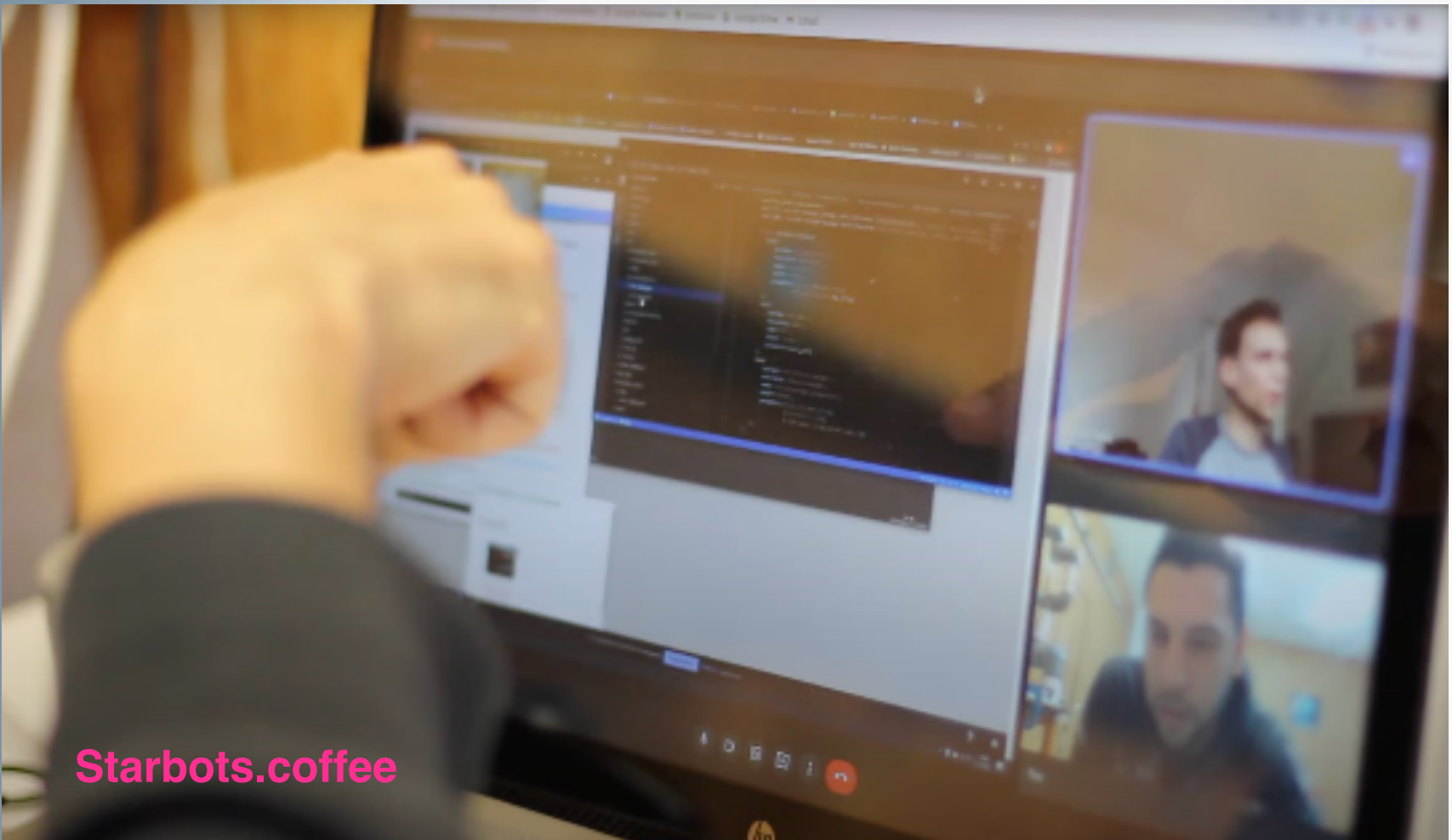
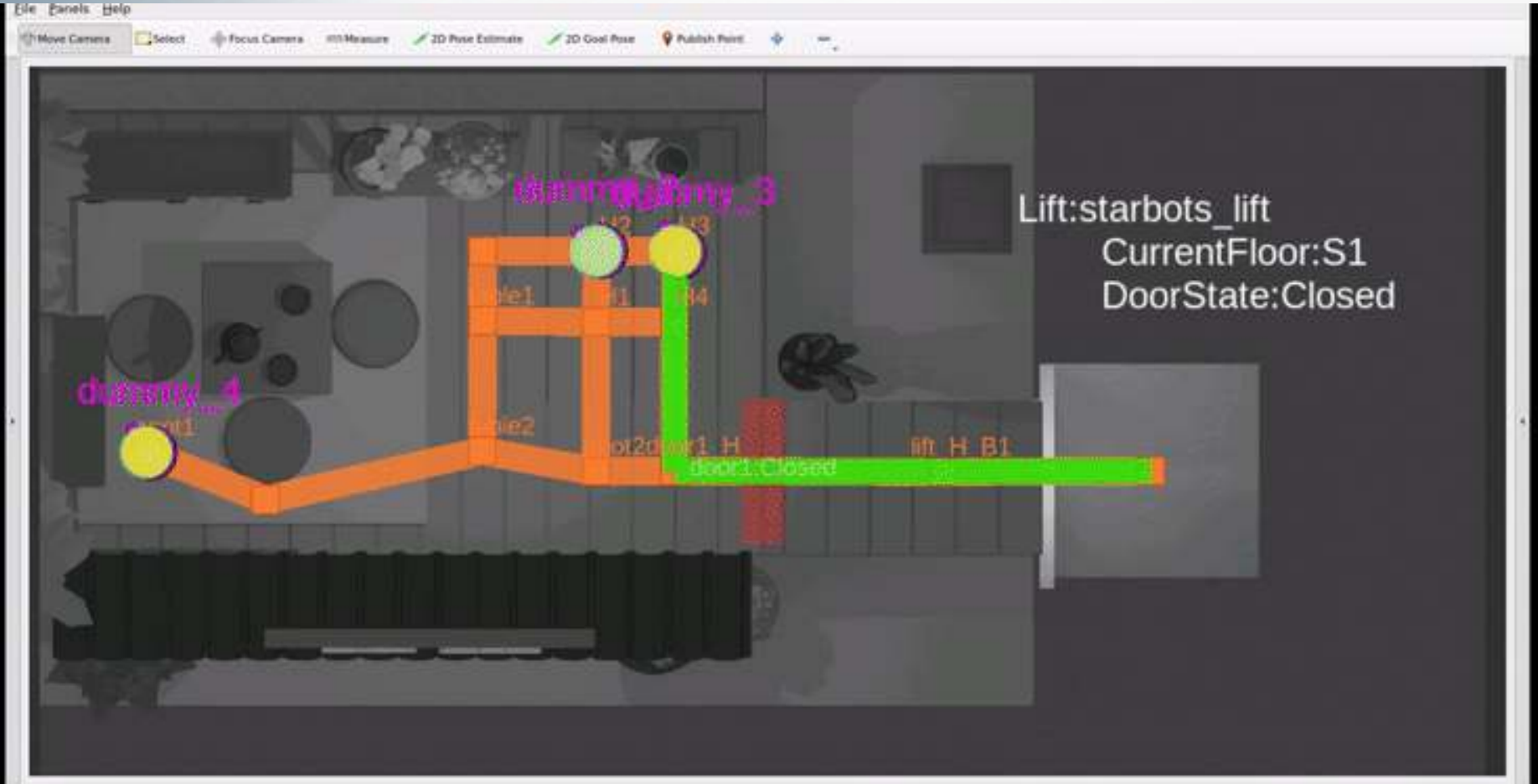
How To: 3rd, robots prepare and deliver it to your table

What is its purpose?

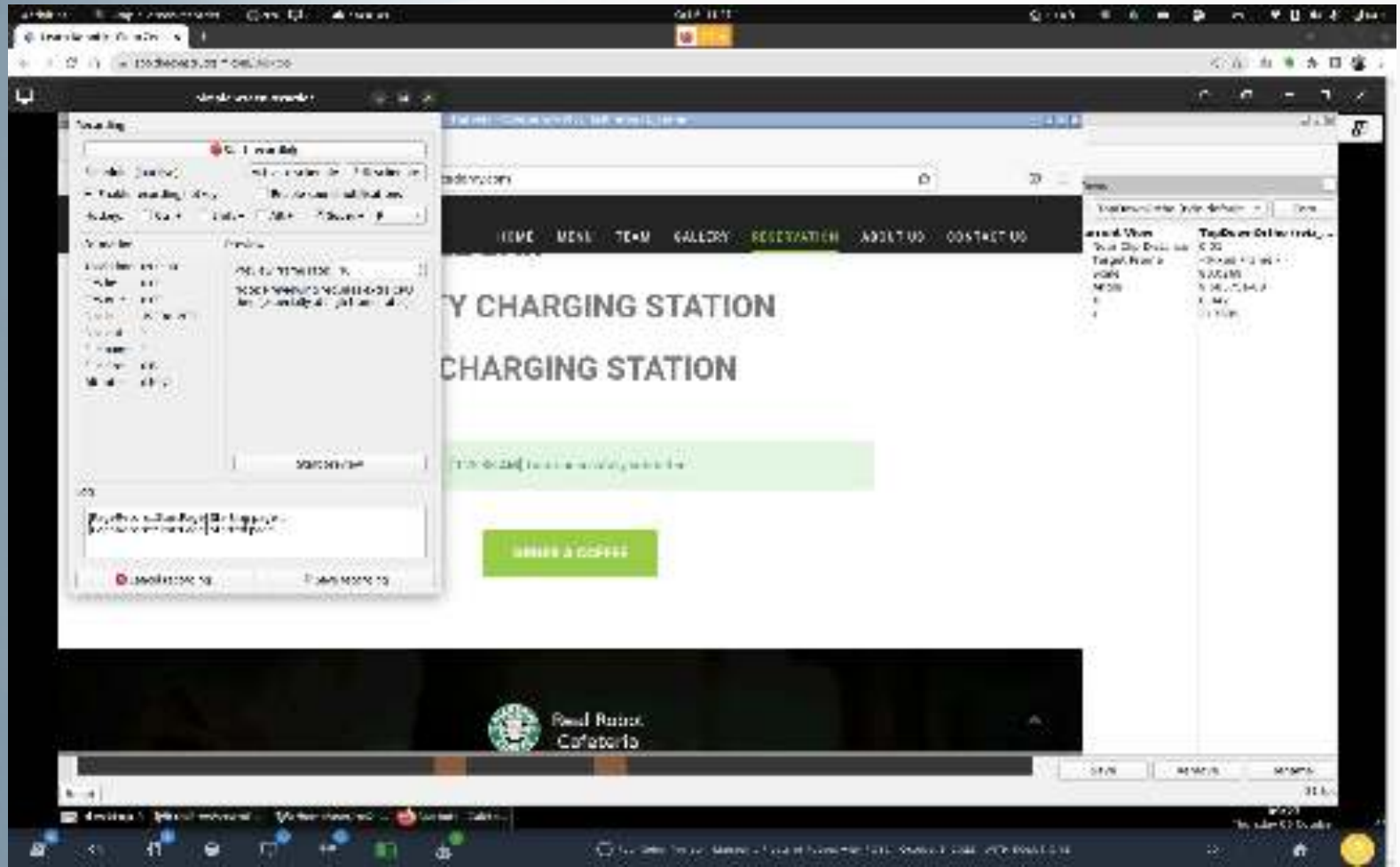
We provide this lab to our remote students

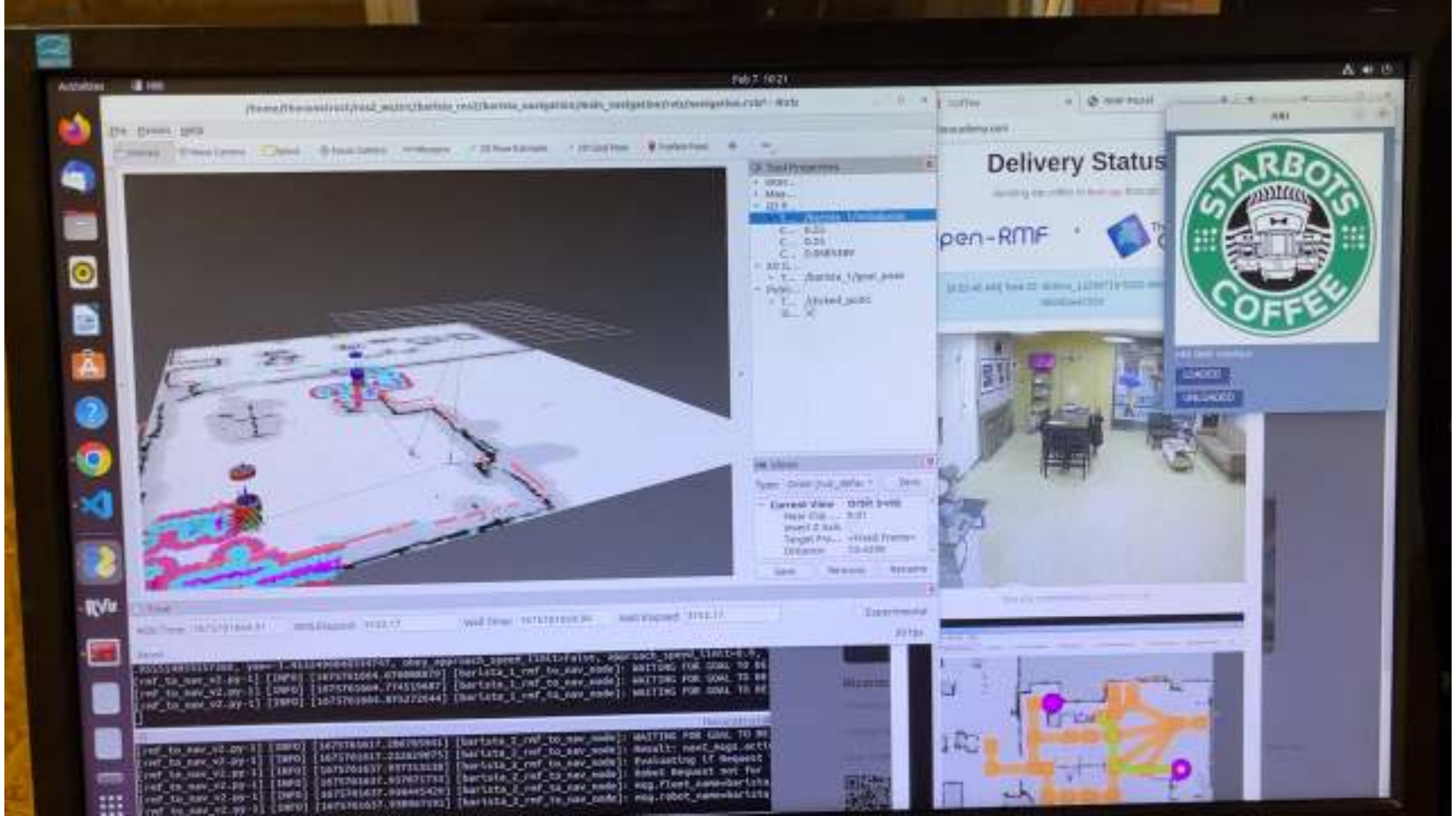


While studying Open-RMF



They test their programs in a real environment




Delivery Status
STARBOTS
COFFEE

How does it work?

Part I: its robots

Part I: its robots

- Prepare coffee
- Deliver it to tables
- Take out garbage

Part I: its robots

Barista Robot

Part I: its robots

Coffee Machine

Part I: its robots

Delivery Robots

Part I: its robots

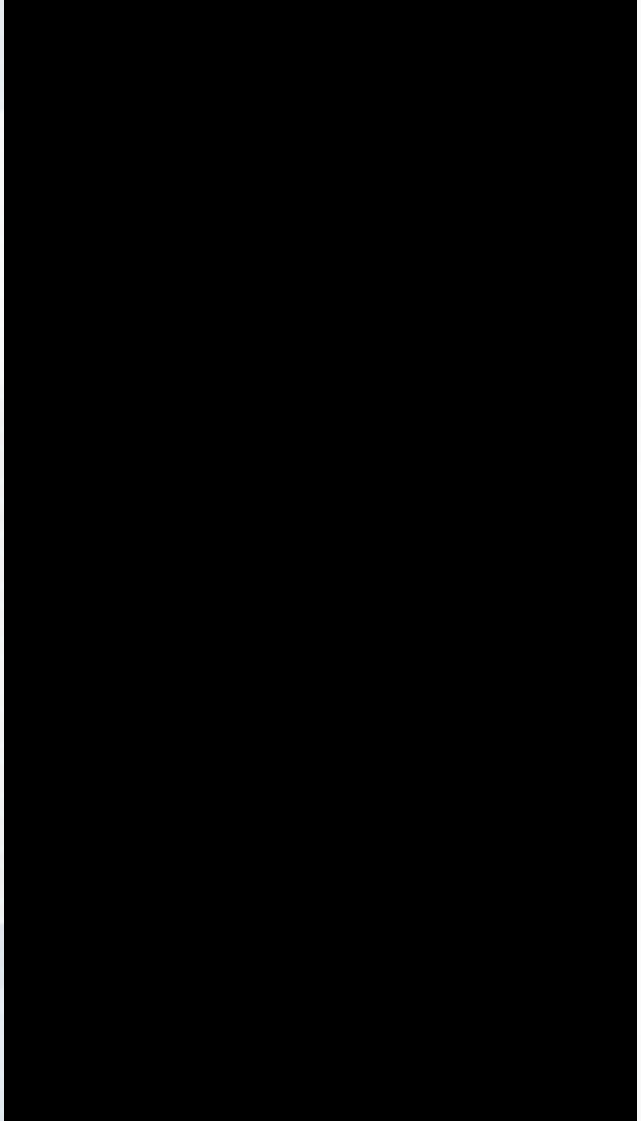
Delivery Robots

Part I: its robots

Cleaner Robot

Part I: its robots

Cleaner Robot



Part I: its robots

Door

Part I: its robots

Door

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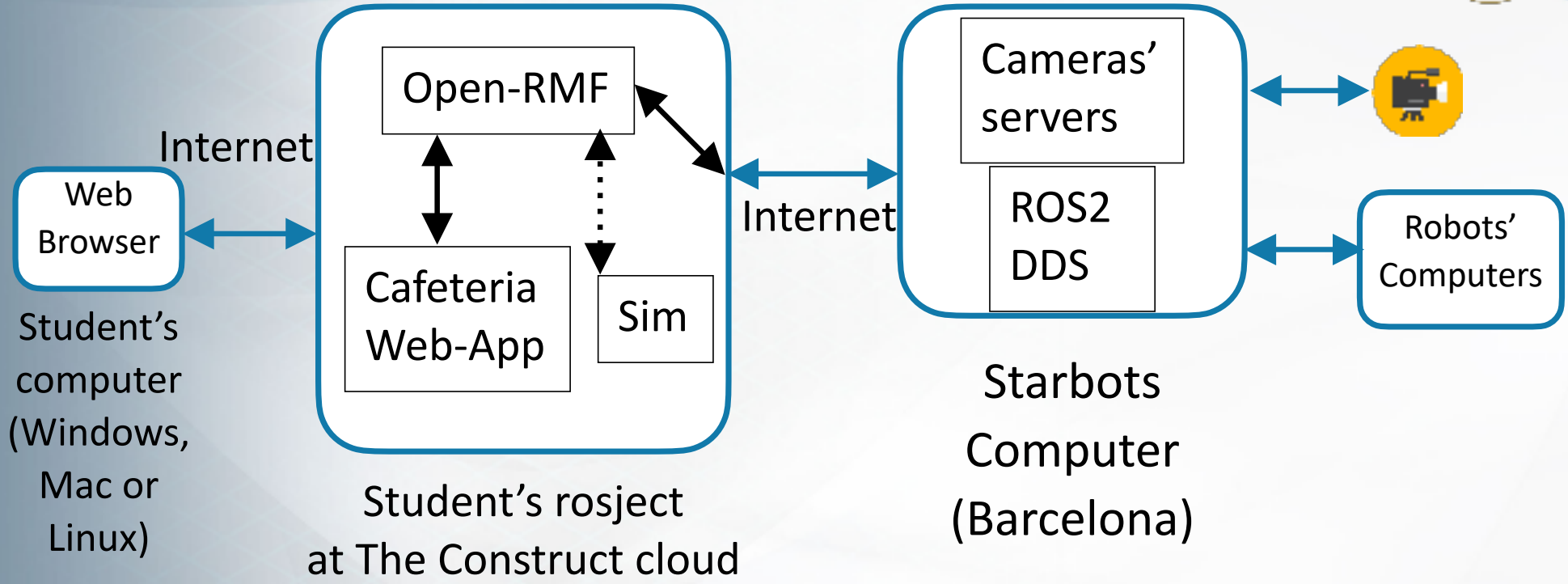
How does it work?

Part II: its software

Part II: its software

Open-RMF 2

Part II: its software



Part II: robots' computers

RO

RO

ROS 2 Nav

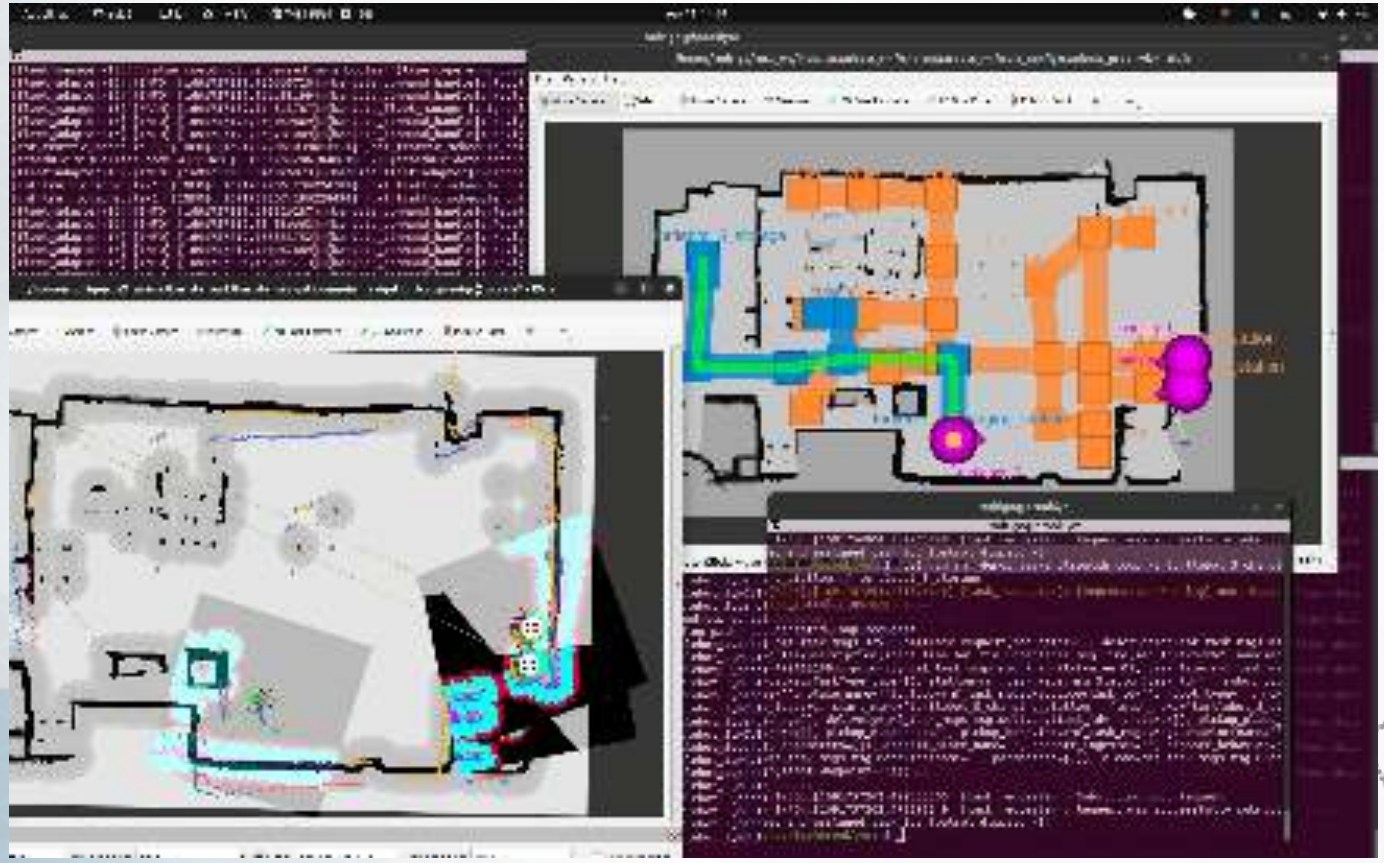
Coffee Computer (IoT API)

MoveIt2

Door Computer (Raspberry)

Part II: its software

Navigation lines



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Part II: its software

Task: Go to charge

Part II: its software

Open-RMF

Dispenser 1: prepare a coffee

Controls:

1. Arm movements
2. Preparation of coffee coffee machine

Part II: its software

Open-RMF

Dispenser 2: load/unload trash table

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Part II: its software

Open-RMF

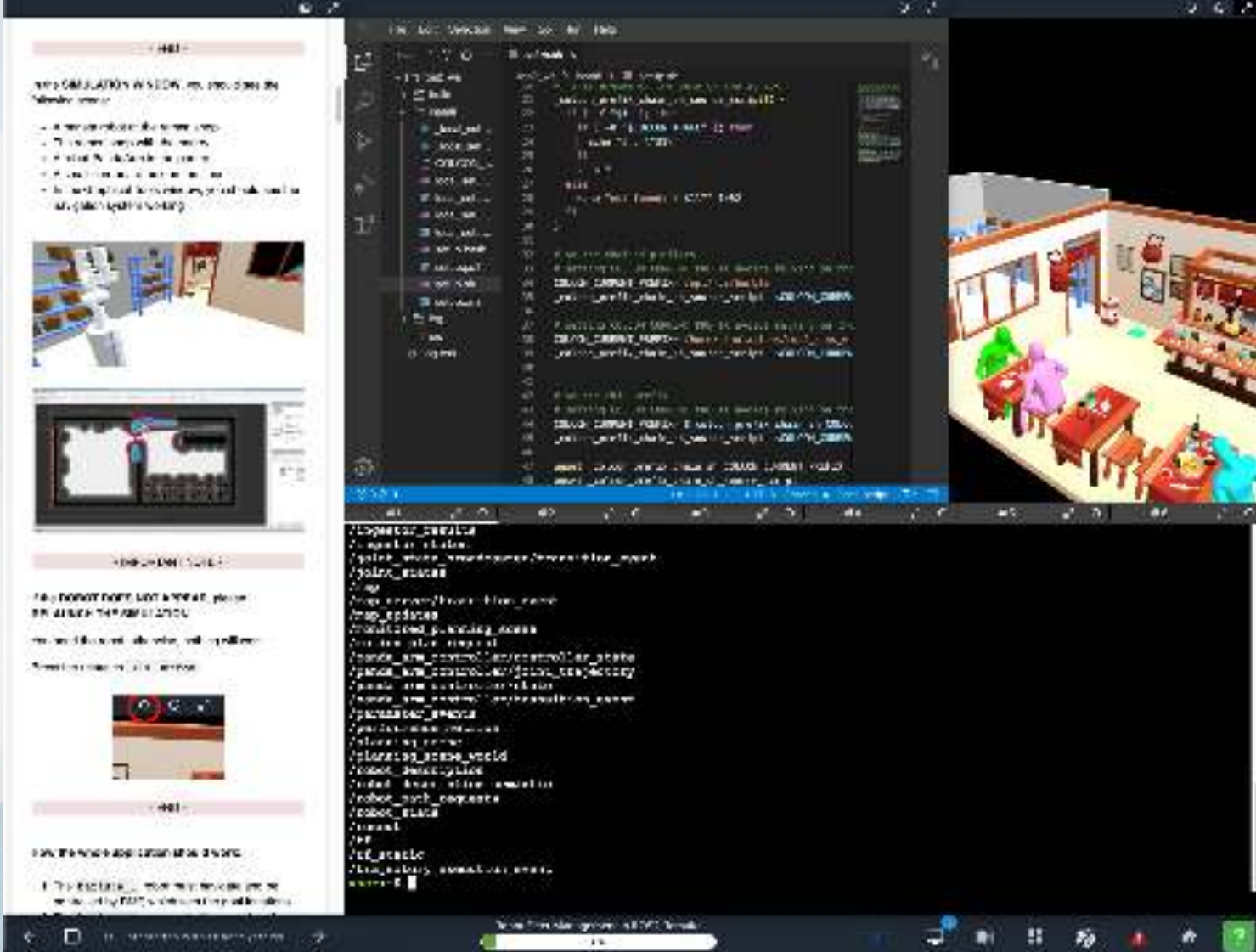
Ingestor: indicate robot unloaded

How does it work?

Part III: the teaching material

Part III: the teaching material

Part 1: the lessons



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Part III: the teaching material

Part 2: the project with Starbots

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We opened it to the public!

THE ONLINE REMOTE CAFETERIA OF THE CONSTRUCT
Send us a coffee remotely controlling our robots
STARBOTS COFFEE
LIVE on Jan 16th, 2023
TRY NOW!
Powered by
The Construct

ONLINE REMOTE CAFETERIA

Built by The Construct using

Open-RMF and ROS inside!

REQUEST A COFFEE NOW

starbots.coffee

You can too provide real labs to your students or researchers!

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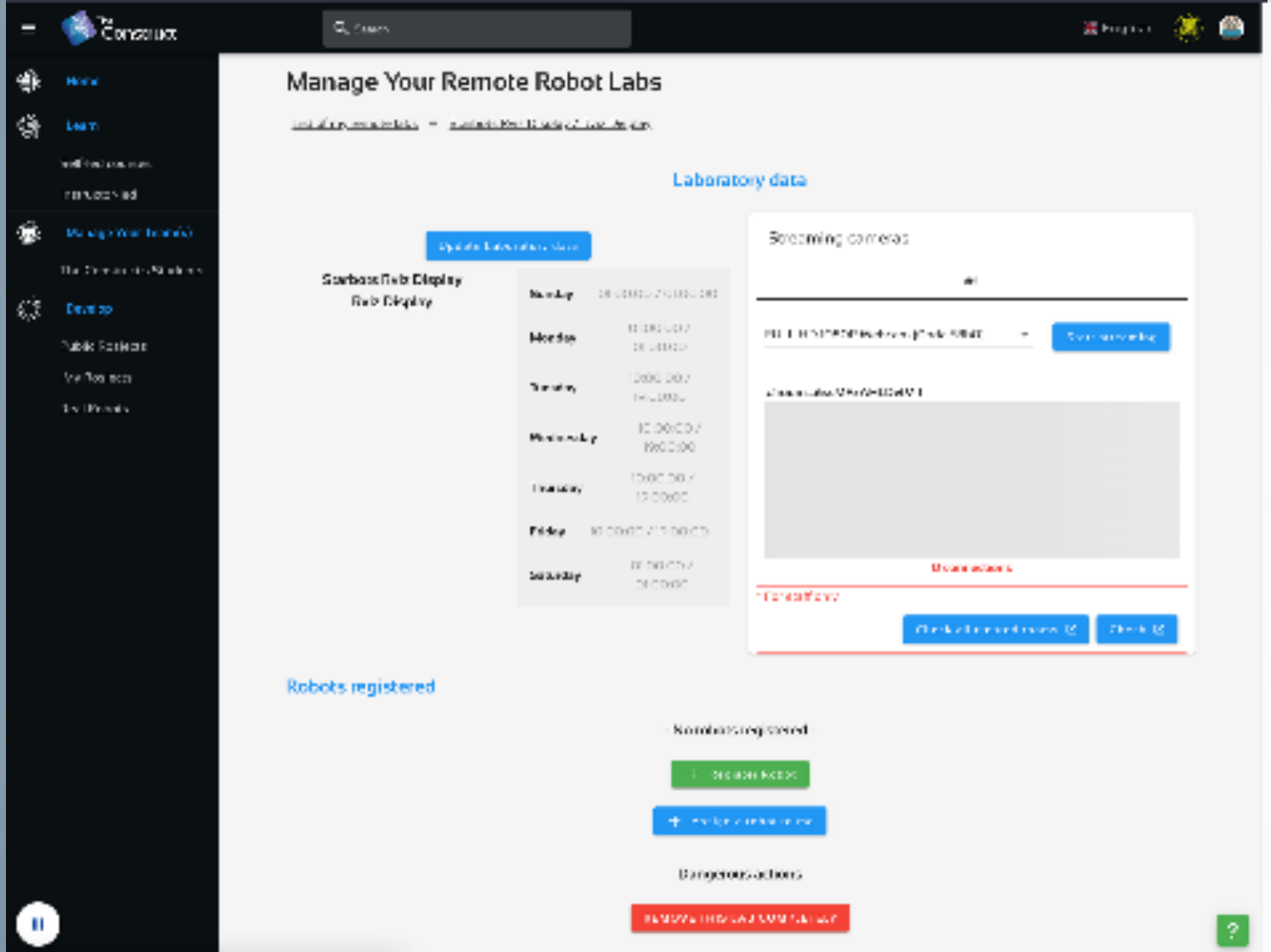
Manage Your Remote Robot Labs
Laboratory data
Streaming cameras
Robots registered

Questions?

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