

Lab of IoT
Prof. Massimo Ficco
University of Salerno

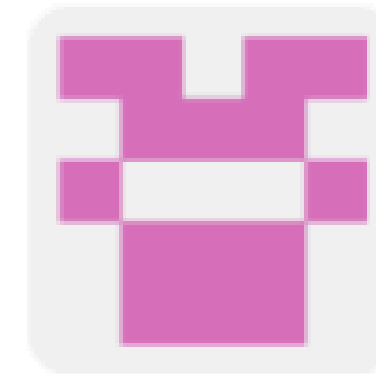
Project Presentation

SBM

Smart Beverage Machine

JOHAN CHICUE
MARTIN CARDACI

johcue/ SBM_LABIOT-



0

Contributors

0

Issues

0

Stars

0

Forks



johcue/SBM_LABIOT

Contribute to johcue/SBM_LABIOT- development by creating an account on GitHub.

 GitHub

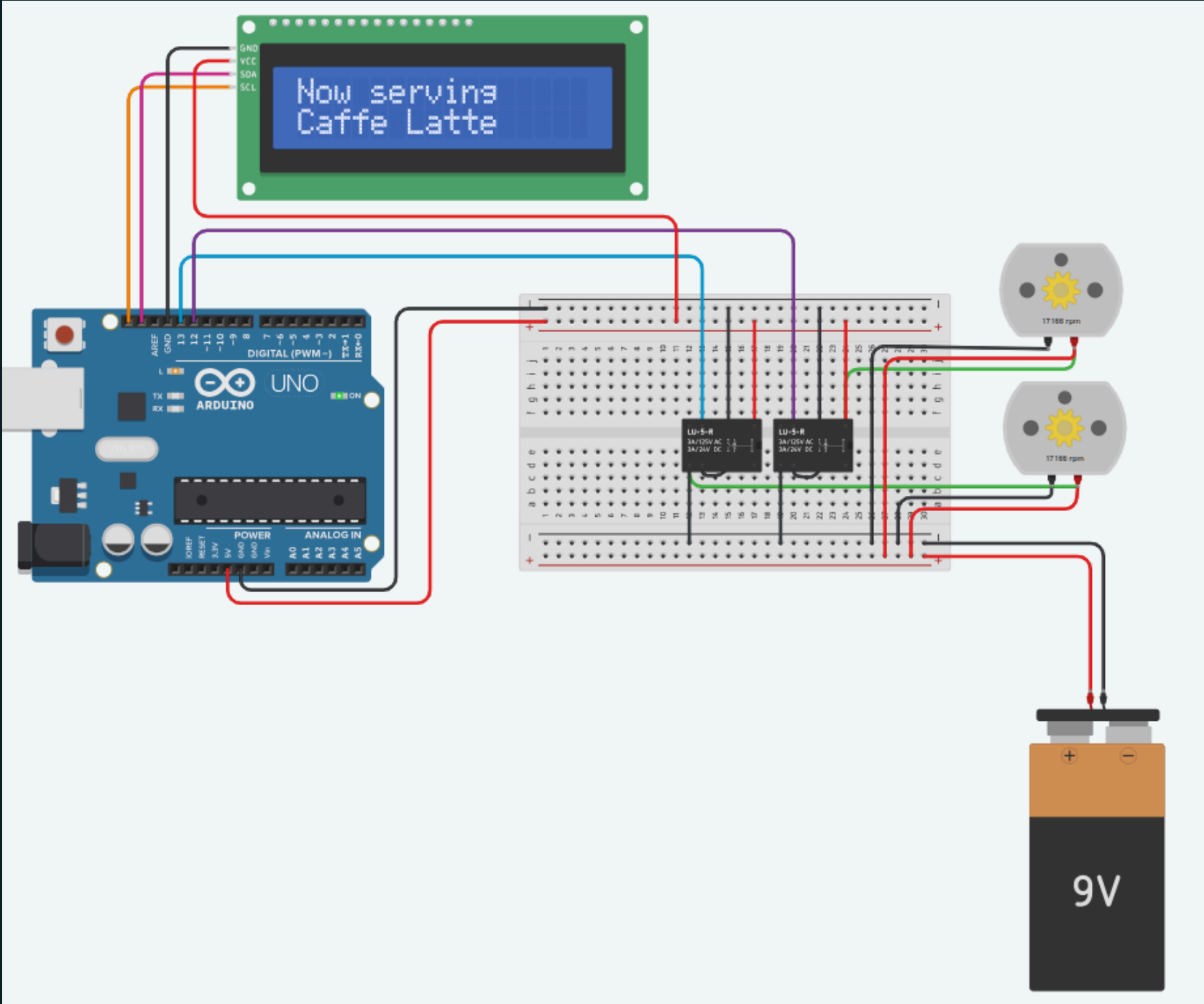
Sections

- What is it?

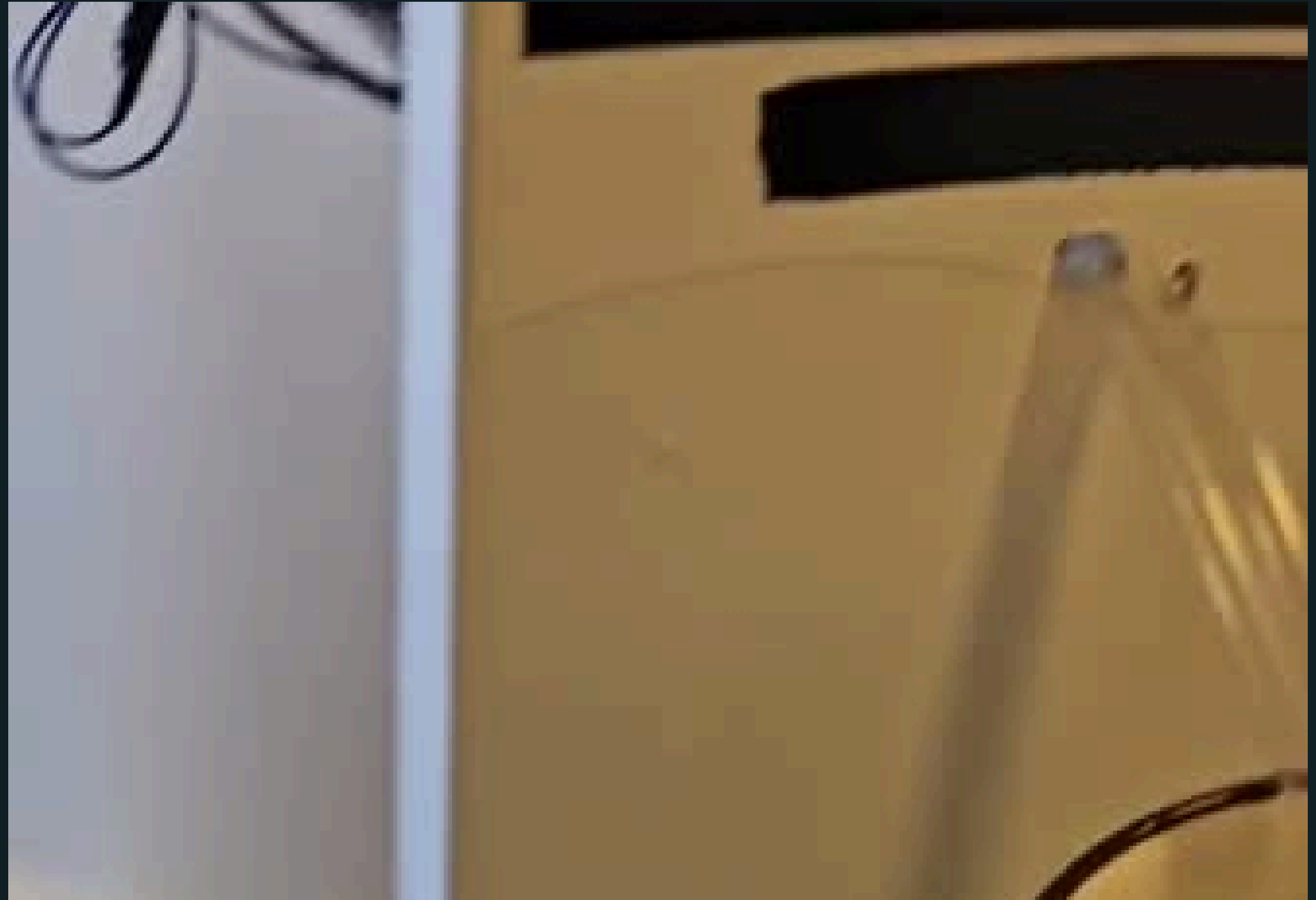
- How does it work?

- Why?

¿What is it?



Demo



¿How does it work?



Python

Gestures detection,
workflow control & DB
Management (MySQL)



MQTT

Establish connection between
device and gesture detection



Arduino

CameraServer, Pumps
Control & Display - UI

Workflow

Workflow

ESP32CAM (Camserver)
(Arduino)

Video Stream

PyCode

HTTP-GET Video Stream

Gestures detection (CV2 lib) + workflow control + DB Management (MySQL)

MQTTS broker.hivemq.com



MQTT PUB

Message

MQTT PubSubClient client

Callback()

.Actions

.Pumps & Display

Message



Hardware

ESP32-CAM

Pumps

Relays

LCD Display

Power Module

Breadboard

Jumpwires

Wall Connector

¿Why?

- Hygiene

- Efficiency

- Engaging

Thank You
