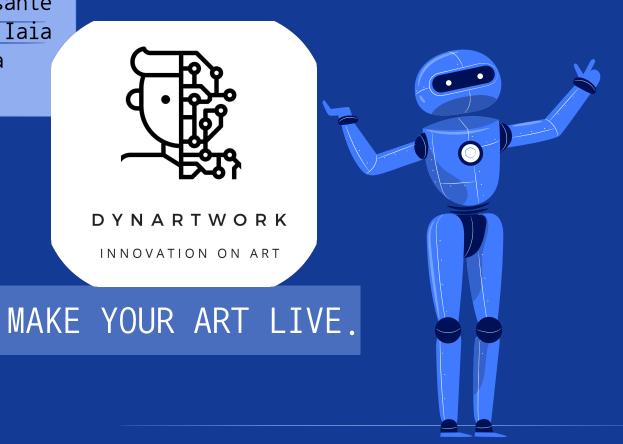
Francesco Colasante Emanuele Santo Iaia Simone Di Tanna



PROBLEMS



The lack of dynamism of the artworks

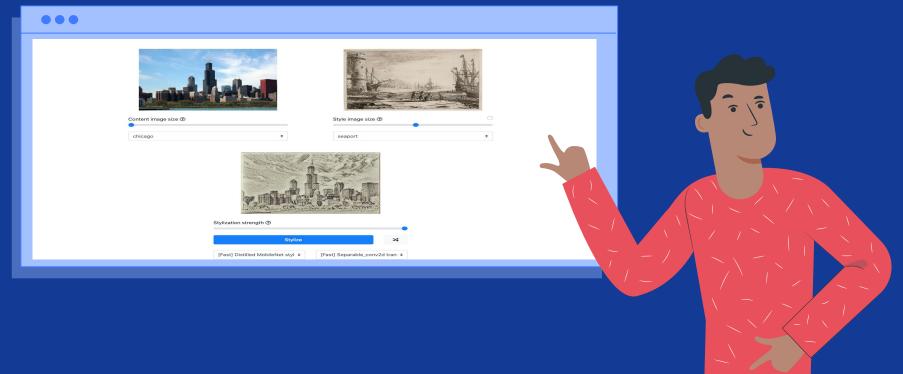
The role of artists is not highlighted

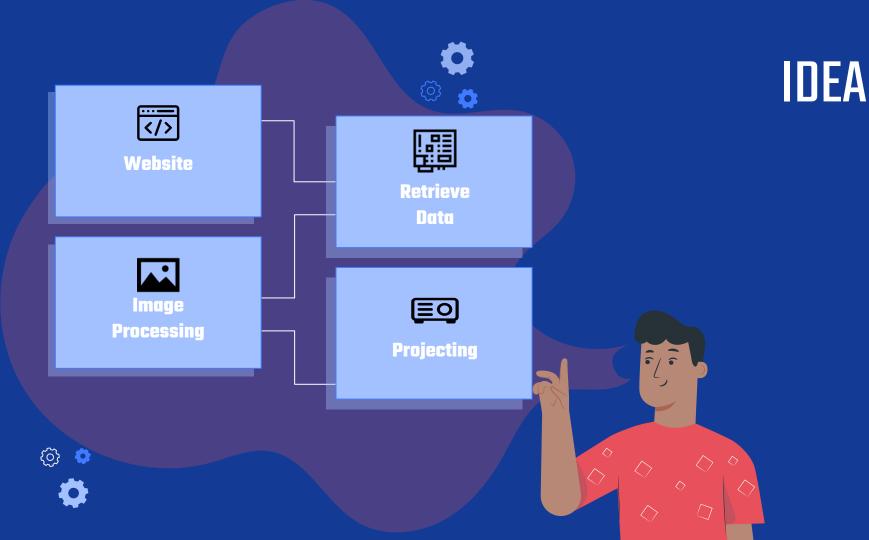
Poor interaction between the art world and technology

Poor opportunities for artists to emerge

EXISTING APPROACHES

Arbitrary Style Transfer





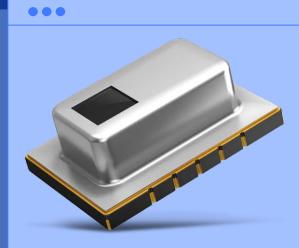
HARDWARE COMPONENTS



ESP WROOM 32

It is a series of low-cost, low-power system on a chip microcontrollers with integrated Wi-Fi and dual-mode Bluetooth.
Runs a RIOT-OS custom firmware forked by emcute.

HARDWARE COMPONENTS



Panasonic Grid Eye sensor

It is the input of our DynARTwork infrastructure. It feature 64 thermopile elements in an 8x8 grid format that detect absolute temperatures by infrared radiation.

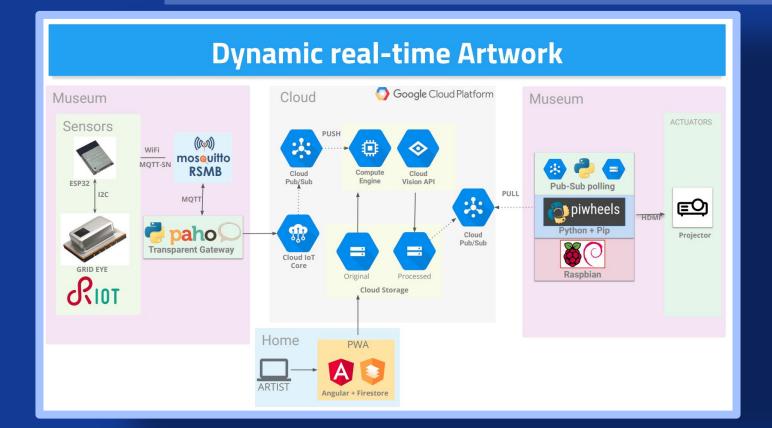
HARDWARE COMPONENTS

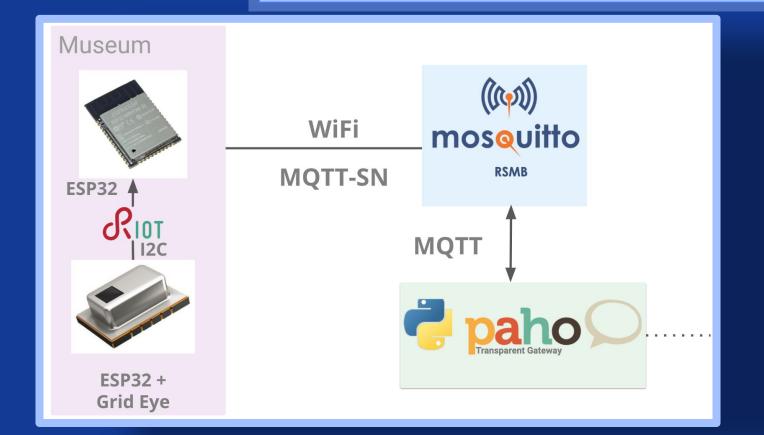


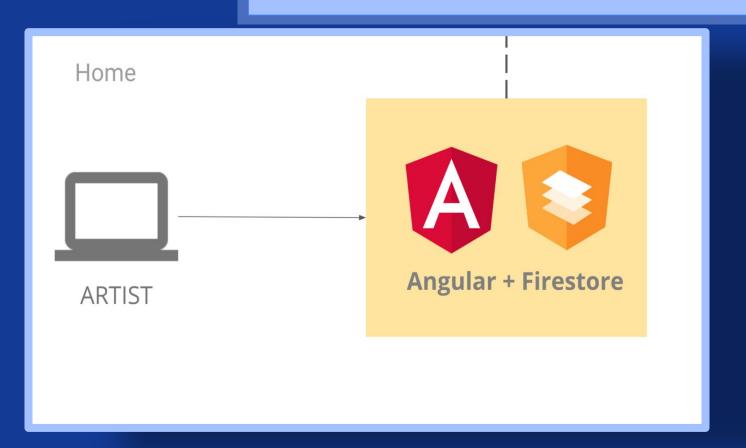
Raspberry Pi 0 W

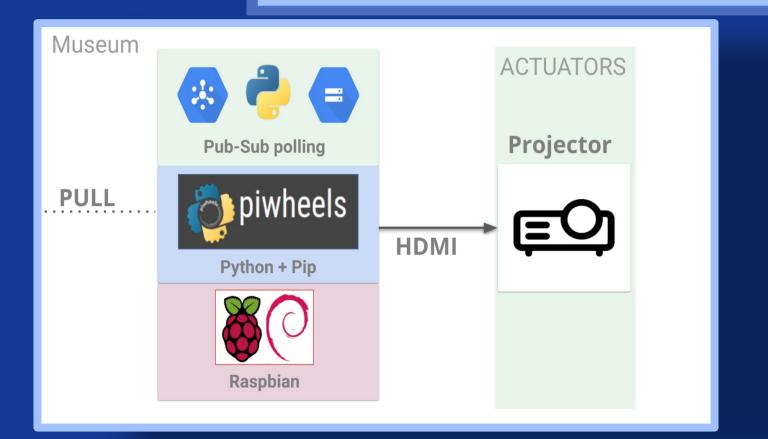
Iit will allow, through the use of a python script, to download the processed image and display it through the use of the hdmi interface.

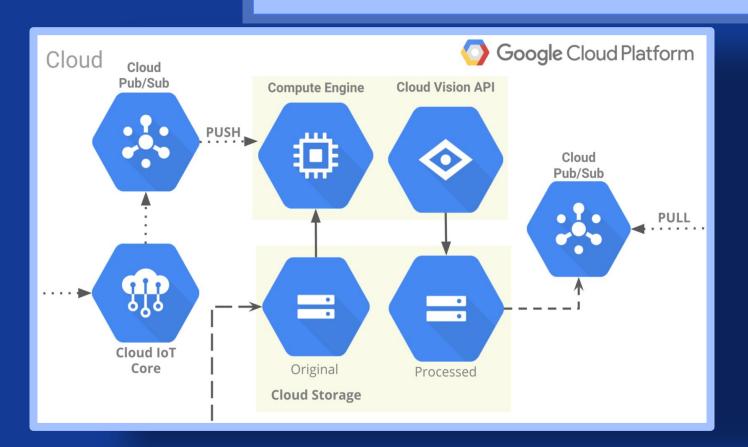
ARCHITECTURE DIAGRAM



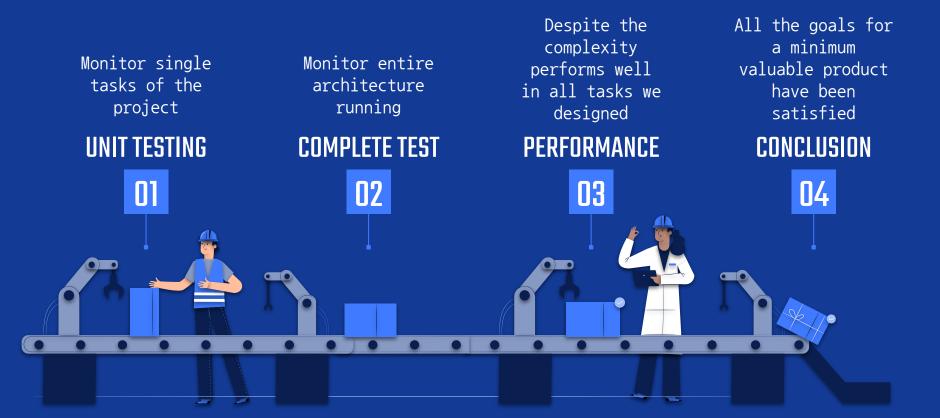








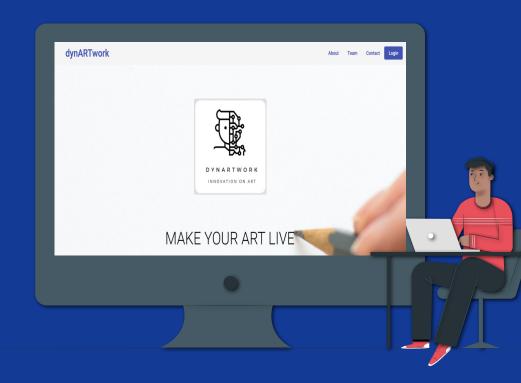
EVALUATION - TECHNICAL PART



EVALUATION - USER EXPERIENCE

USER SATISFYING

We gave the web application to about 20 people and we collected opinions about the difficulty of the actions and the satisfaction about the final result provided by our architecture.



FUTURE IMPLEMENTATION

EVALUATION

- ONLINE PART (USER EXPERIENCE)
- CONVERSION RATE EVALUATION

MACHINE LEARNING

IMPLEMENT MACHINE LEARNING TO MERGE IMAGES



WEBAPP

COMPLETE FLOW ON WEBAPP

MVP

COMPLETE HARDWARE
PCB + PACKAGE

THANKS

CREDITS:

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Francesco Colasante Emanuele Santo Iaia Simone Di Tanna





https://dynartwork-277815.web.app/

