

 01

SURVEILLANCE BOT

A smart Solution for the motion
surveillance

PRESENTED BY
BATCH 12

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GUIDANCE OF
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Problems

Lack of surveillance During pandemic

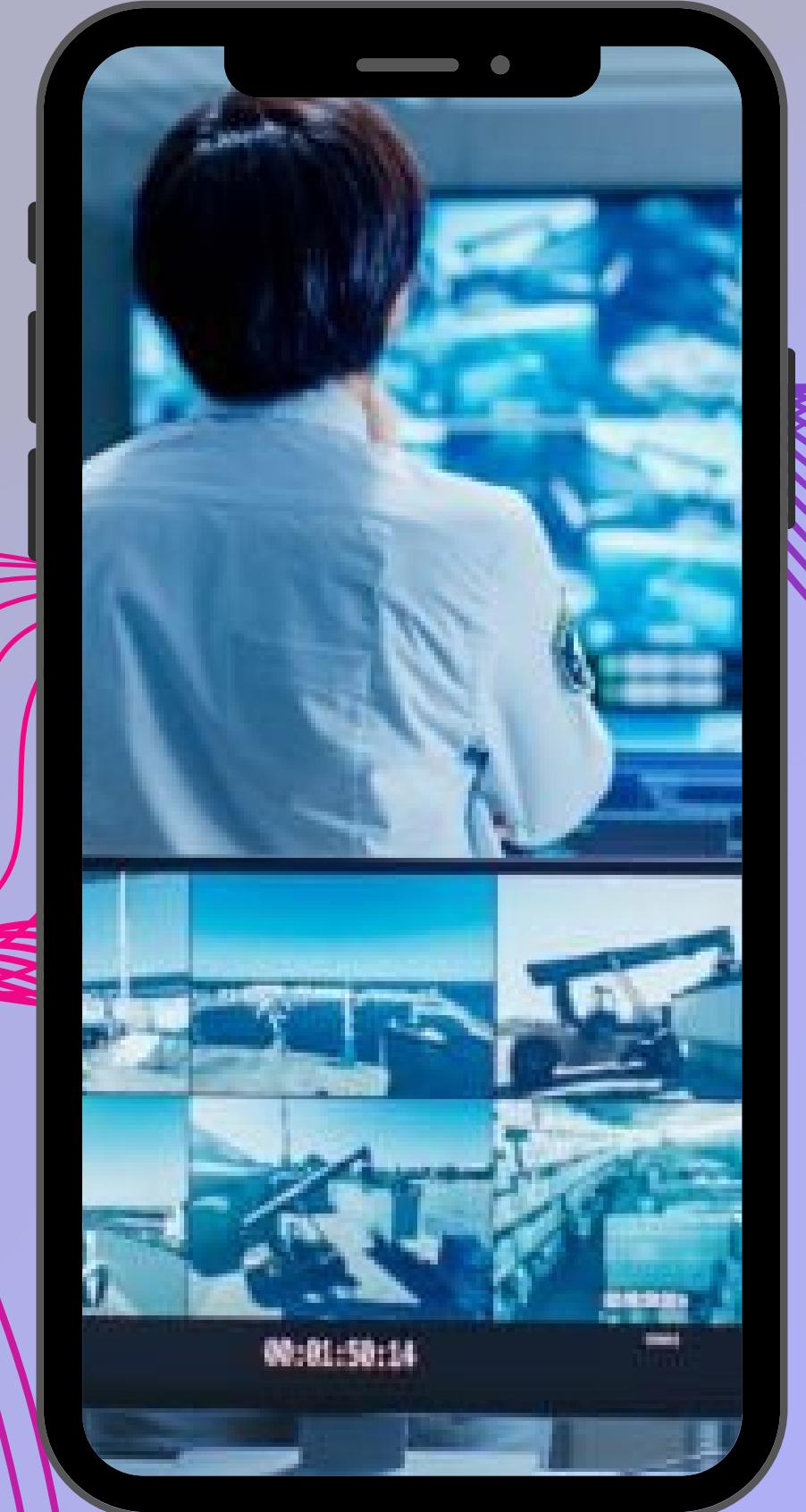
Surveillance in the quarantined areas is necessary especially for the place that need contactless mobile monitoring.

CCTV Coverage constrains

CCTV's can't monitor complex environments like compartment rooms, power rooms and lower ground-to-bottom beds in hotels.

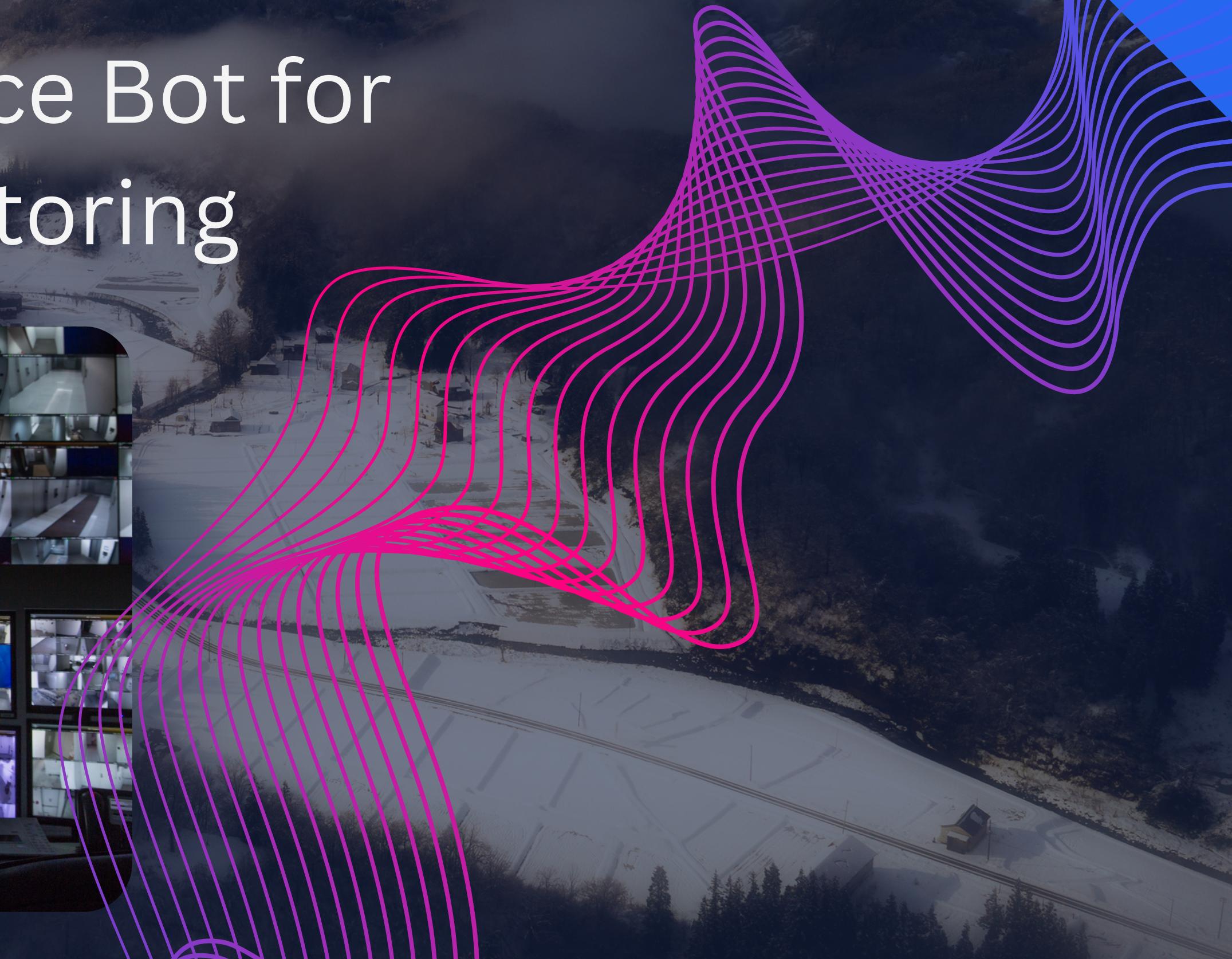
Resources Negation

Most of the places which needs the periodic monitorization are faces issues with unnecessary power and resources consumption.



Problem statement

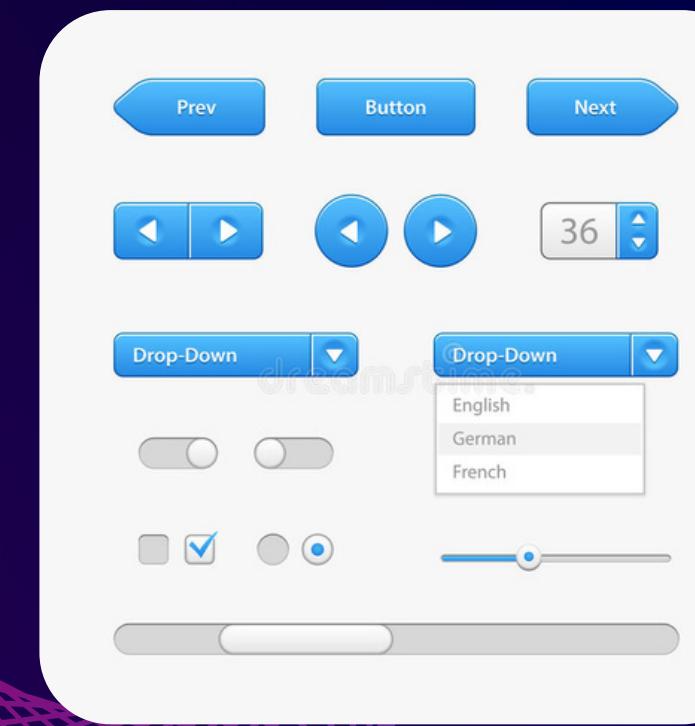
IOT based Surveillance Bot for
contactless monitoring



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SURVEILLANCE

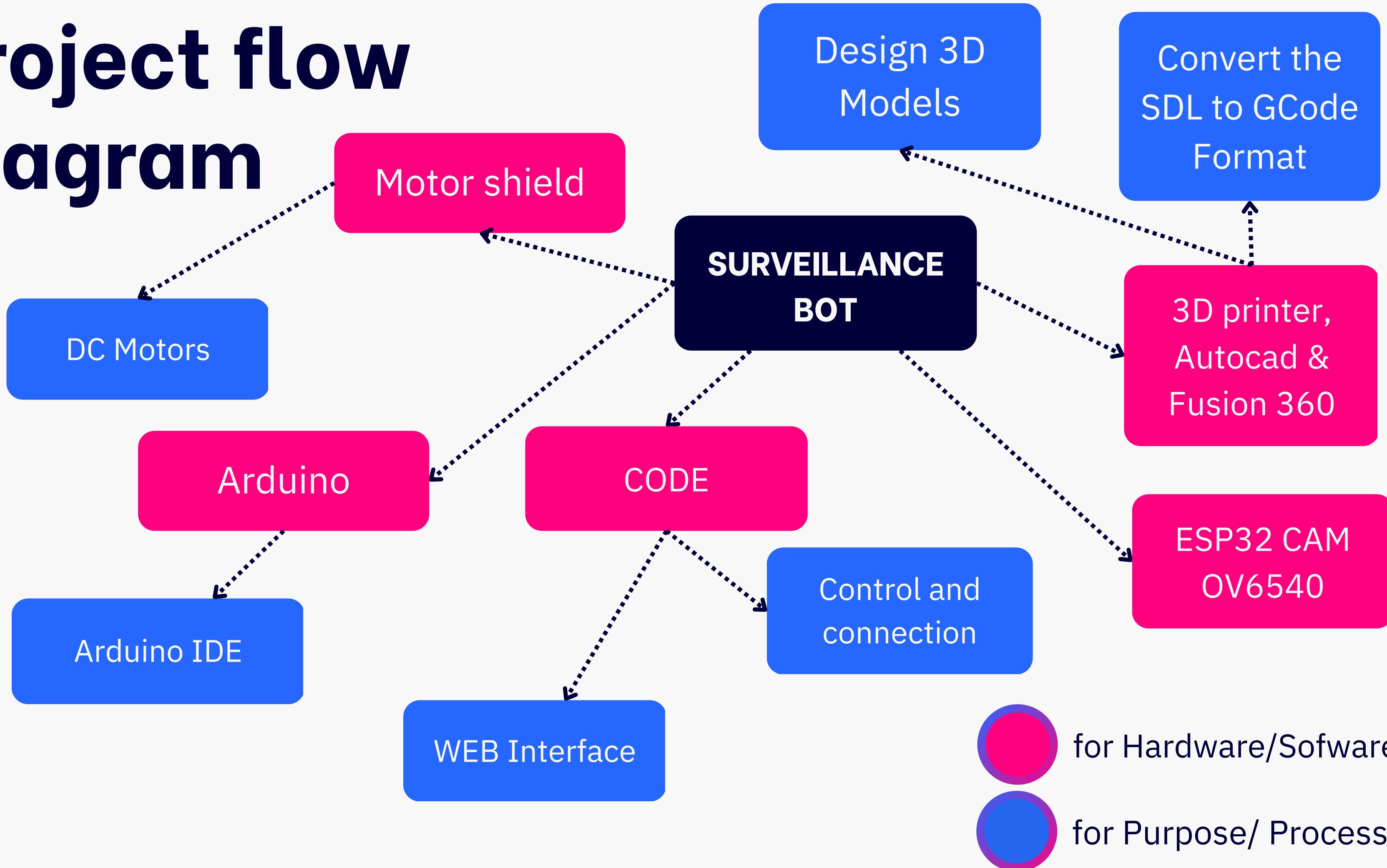
TOOLBOX



What actually we done here?

From an ultimate concept Vehicle to
Industrial Automation

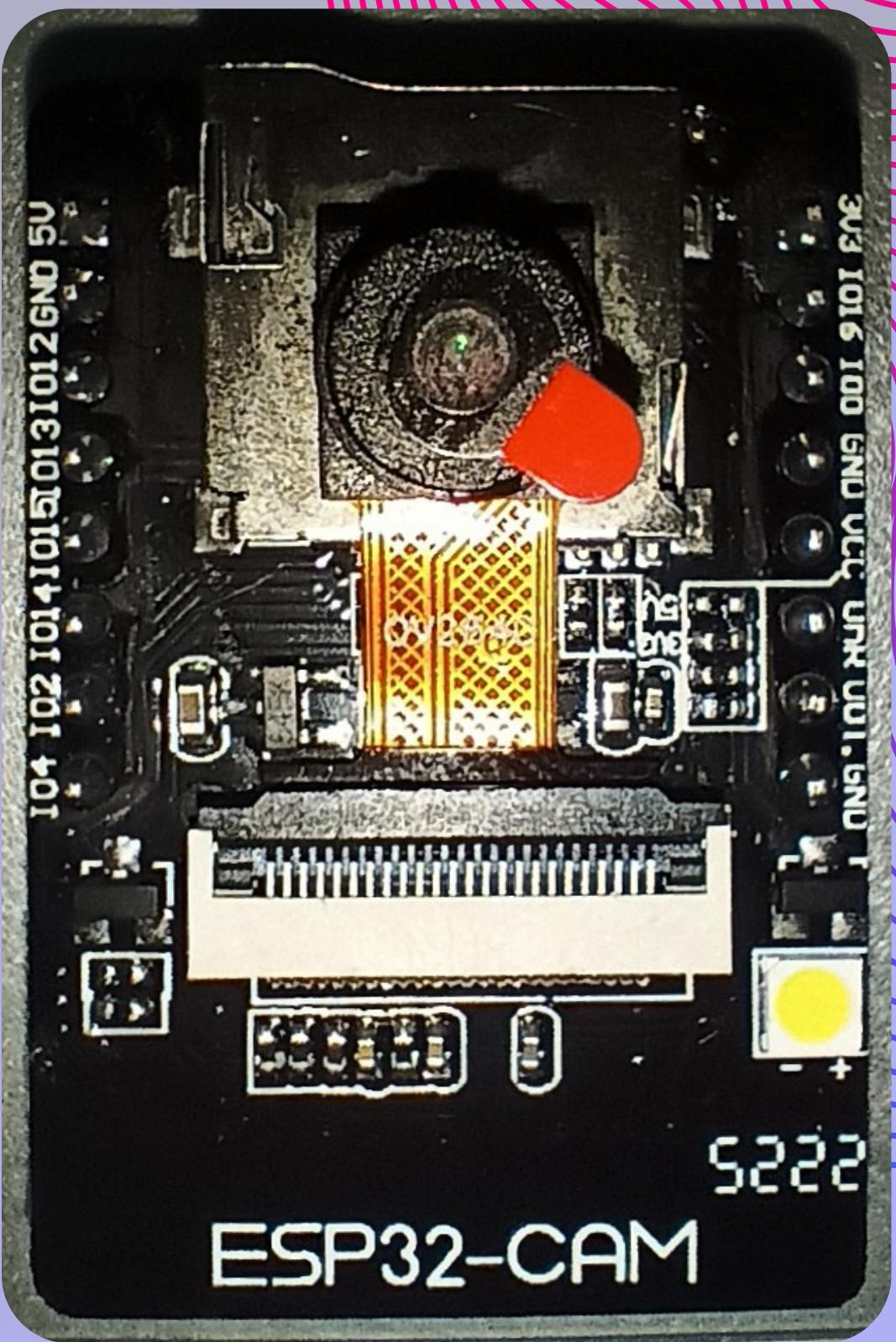
Project flow diagram



ESP32 CAM Module

Description

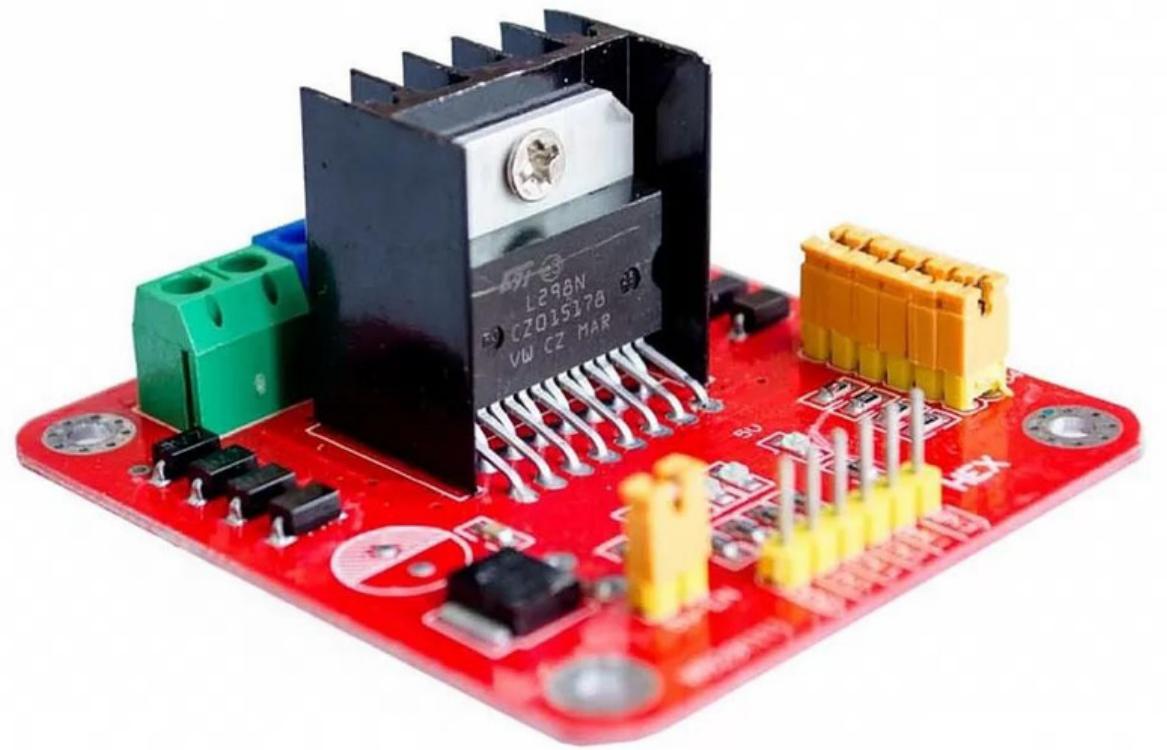
Function



Motor Driver

Function

Due to the current handling limitations of ESP32 cam module it can't able to drive four individual motors. So here we are using **L298** Motor driver which has four individual channel connection for the motor.

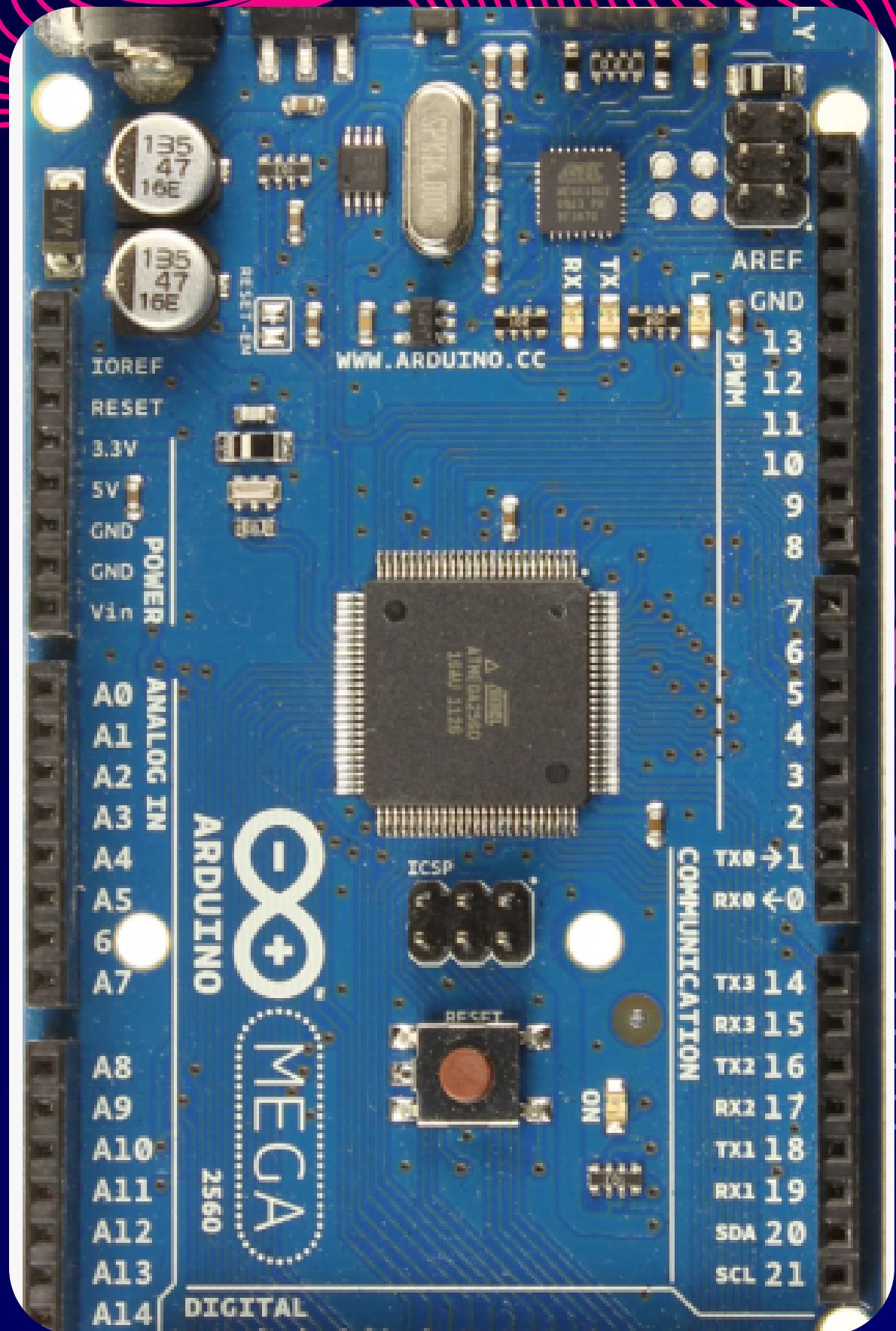


ARDUINO

Function

Usually the ESP32 supports only UART serial communication hence it requires some external interface to program it .For that here we are using Arduino as a translating device.

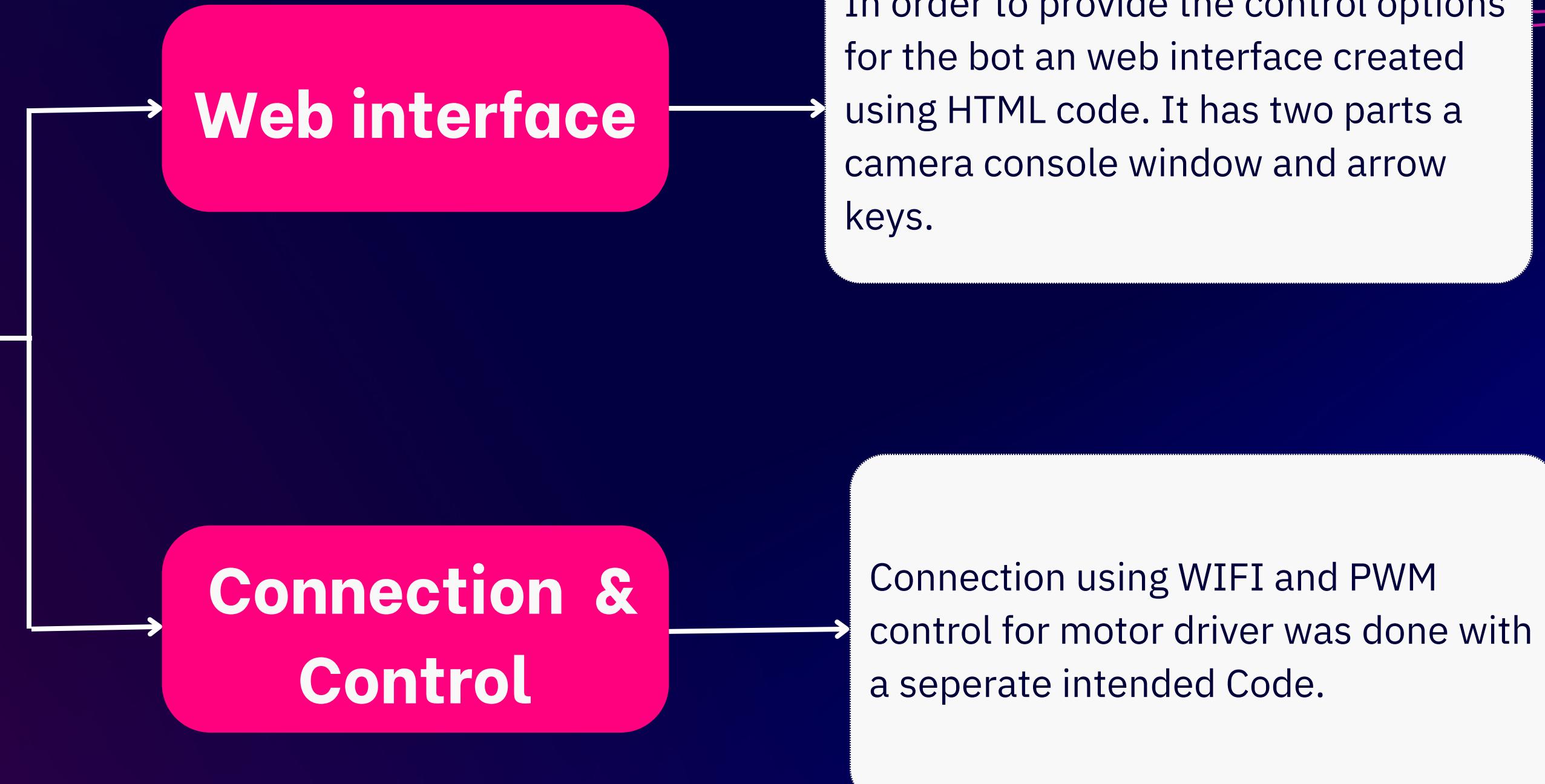
Also the Arduino IDE was used as the environment for this interface.But it requires some External board configuration and Libraries.





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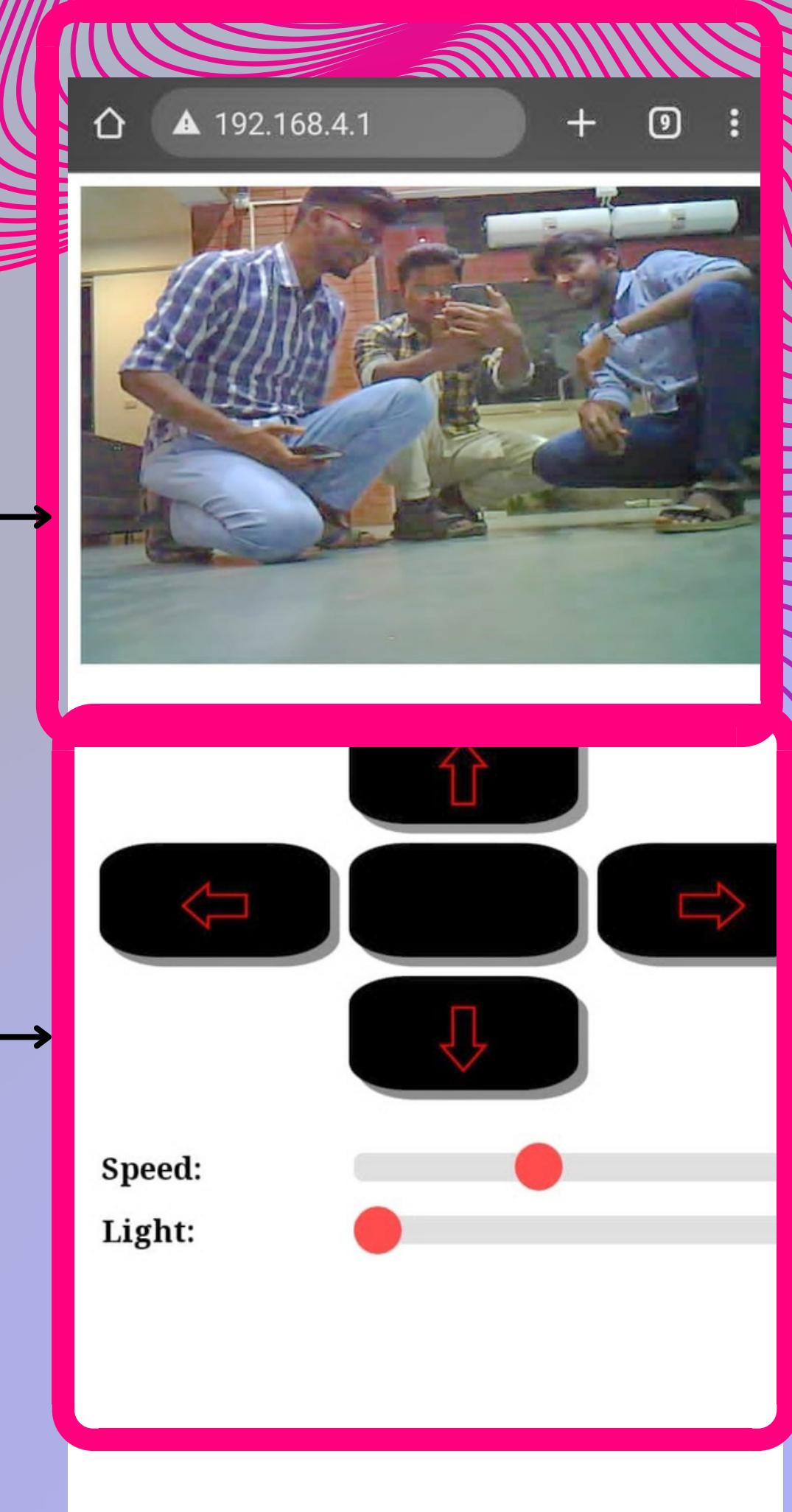
CODE

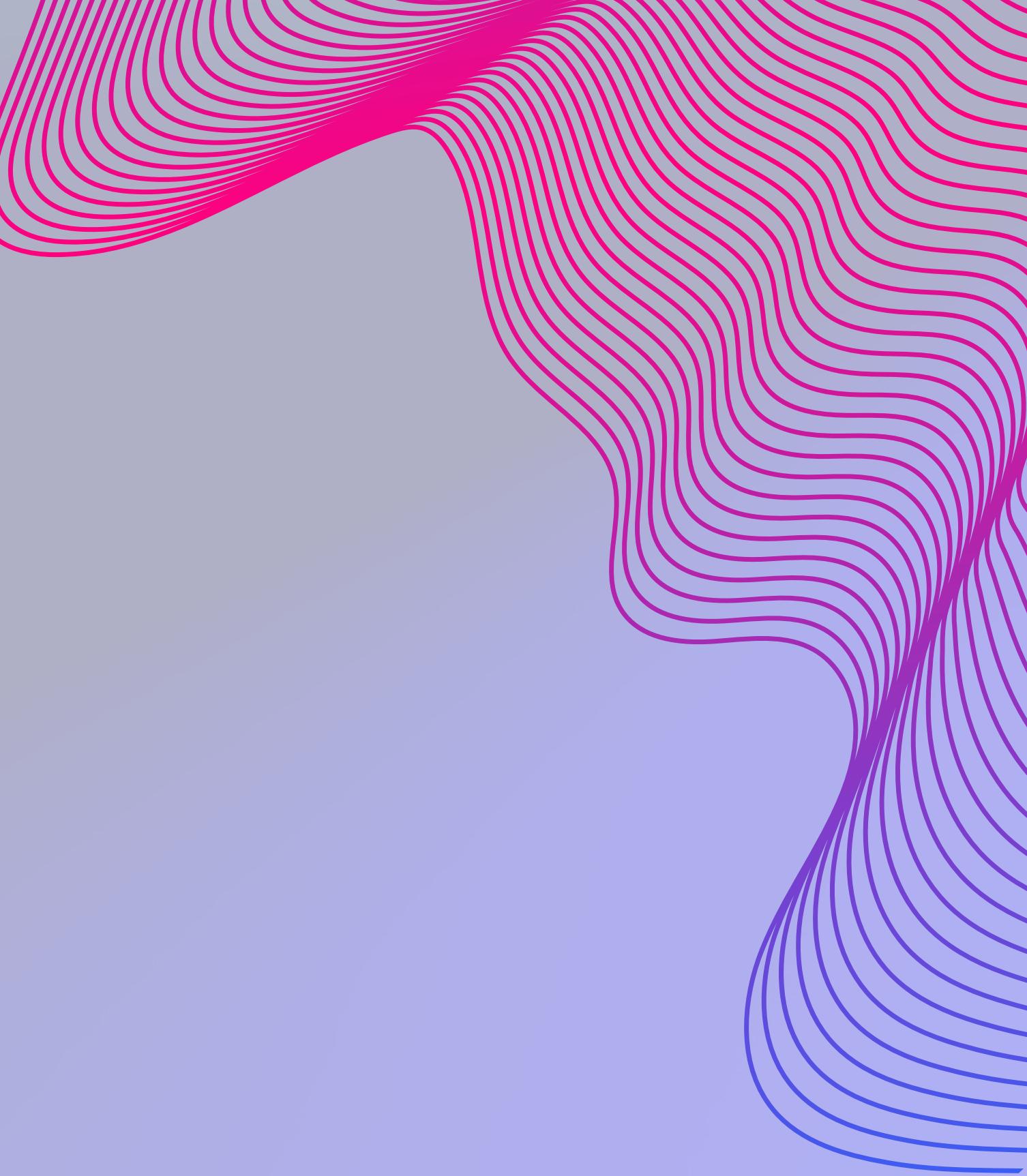
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Web interface

Camera console window

Control console window







THANK YOU

Prove and grow in front of criticism