SAFE24 API

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Innehållsförteckning

Inledning

Detta API förklarar och framhäver funktionaliteten hos programkoden. Programkodens möjlighet att kunna implementeras i andra projekt och dess struktur kommer att framgå tydligt. Genom denna manual så kommer användare att lättare kunna förstå och snabbt sätta sig in i vilka klasser och metoder som finns tillgängliga.

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main.ino

Initializes all constants needed such as SSID and password in order to connect to a wifi-source. Connects to a wifi-source and also initiates the three tasks that are presented below.

class PirTask : public Task

Scheduled task that uses the PIR-sensor to detect movement.

doWithPirValue(int)

Uses a reading from pir sensor to calculate a movement

Return: void

doWhenMove()

Checks if there is a movement or not and acts according to that

Return: void

class MicTask : public Task

Scheduled task that listens to the microphone sensor in order to detect sound.

doWithSensorValue(int)

Checks if the sensor value goes past the threshold of 75.

Return: void

class WifiTask : public Task

Scheduled task that ensures that there is a wifi-connection. This task checks the wifi-connecteion periodically.

connectWifi.h

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connectWifi(const char*, const char*)

Function that establishes a connection to the specified host

Return: void

checkConnection()

Function that establishes a connection to the specified host

Return: int

manageCamera.h

sendToCamera (String, String, const char*, const char*)

Sending commands to the camera

Return: int

continuousPanTiltMove (int, int, int)

Moves the cames depending on the arguments.
Positive values mean right (pan) and up (tilt),
negative values mean left (pan) and down (tilt),
"0,0" means stop **Return:** String

activateVirtualPort (String)

Activates a virtual port on Camera

Return: String

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Dectivates a virtual port on Camera

Return: String

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