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IOT

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Smart Asset

Smart asset is used to monitor precious and valuable items. The items can be luggage, personal, valuable things etc. This can be used in home, office, shops, factories, warehouse. This system provides security alerts incase of unauthorized human presence and also provides the signals in case of opening the asset storage box.

# Components used in this project:

1. Hardware:

* Motion sensor (PIR sensor)
* Angle sensor
* RGB LED (Display)
* Grove Hub
* M5Stack Core

1. Software:

* M5stack IDE(uiFlow V1.13.4)

# Features:

1. Human Detection of Asset Storage Box:

The motion sensor detects the infrared radiation emitted and reflected by the human body or object. This sensor enables the system to alert user immediately upon detecting unauthorized access or movement near the asset.

1. Orientation Monitoring of Asset Storage Box:

The angle sensor monitors the orientation and the tilt of the asset. This feature ensures that any changes in the asset’s position, such as tilting or rotation, are detected and logged.

1. RGB LED:

The RGB LED can indicate different syatem states like on/off, motion detection and orientation change detection.

Works Cited

“PIR”,m5stack,<https://docs.m5stack.com/en/unit/pir> ,31 May 2024

“ANGLE”,m5stack,<https://docs.m5stack.com/en/unit/angle>,31 May 2024

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