Project IoT

Components needed :

* Camera
* Motion Sensor
* Kinect? (Shape identification) 🡪 What is going on with object with same shape
* Flash for dark place

Initial Implementation Ideas

* (Least optimal) One main camera that user needs to show the object before storing it. Afterwards we specify the position of the object that we are going to put it.
* One camera and one motion sensor in a specialized area ( e.g shelve sirtari ) that identify each object that enters or exit the area. (Camera open whenever shelve opens and closes when the shelve closes ) ( camera opens when shelve opens for a fraction of time takes an images and close and reopens when the shelve close and repeat the previous process)
* ….

Specialized Object that we are going to identify :

* Keys
* Wallet
* Smartphones
* Headphones
* Chargers
* Wires
* …

Terms to research:

1. **Slicing Aided Hyper Inference and Fine-tuning** for Small Object Detection