

Capstone Project Cost Report

Fingerprint Scanner:

Two Options: 1. Optical Sensor

- Cheap
- Bulky
- Accuracy susceptible to external factors

Finger Print Sensor Module - R307:

https://www.electronicshub.in/finger-print-sensor-module-r307-india?gclid=CjwKCAiA9vOABhBfEiwATCi7GF4YyKt2SAQS6Tw_NLhfmTjyyXBAbvr_ODGR1sqtwvkGUEL8o3sPhoCHsEQAvD_BwE

₹795

2. Capacitive Sensor

- Expensive
- Compact
- Very Accurate in harsh conditions
- Significantly less power draw

UART Capacitive Fingerprint Sensor:

https://www.evelta.com/round-shaped-all-in-one-uart-capacitive-fingerprint-sensor/?gclid=CjwKCAiA9vOABhBfEiwATCi7GAaibjOet_e0gscvJJS7qnrWwbv4zUuMAqZq84rXSNboCfpYF5JhmBoCftQQAvD_BwE

₹1770

Fan/Light Control:

1. Absolute Native Electronics W1209 50~100 digital temperature controller thermostat

https://www.amazon.in/Absolute-Native-Electronics-temperature-controller/dp/B00Q6WQJ2O/ref=sr_1_2?dchild=1&keywords=Temperature+Sensor&qid=1612540465&sr=8-2

₹199

2. Tolako 5v Relay Module

https://www.electronicshub.in/1-channel-5v-relay-module?gclid=CjwKCAiA9vOABhBfEiwATCi7GNM69Zz2aD6UhNj9qzEt5ezXUu6h_rkXaSJN-IKYJr4GOBIXRts6FhoC1bwQAvD_BwE

₹65 X Number of devices per classroom

3. PIR Motion Detector Sensor Module HC-SR501

https://www.electronicshub.in/pir-motion-detector-sensor-module-india?gclid=CjwKCAiA9vOABhBfEiwATCi7GCA_1pxtqblODCyLm29omi2tnfk-58Mf54mBaYaleAVTx0NycFyMrhoCrHkQAvD_BwE

₹57

4. Wiring

₹100

Microcontroller

1. Raspberri Pi

https://www.electronicscomp.com/raspberry-pi-4-model-b-with-2-gb-ram-india?gclid=CjwKCAiA9vOABhBfEiwATCi7GHasLRUxhaA8V9RglewBbla9GAMlqhfS56jDEbpinH_q8_JGtXQUMBoClyQQAvD_BwE

₹2685

2. Raspberri Pico

https://www.electronicscomp.com/raspberry-pi-pico-india?gclid=CjwKCAiA9vOABhBfEiwATCi7GKNdK1oFEziXeyTJoSa3i6cFCpYVaDM9shbMRLZSk45_KO7H_VsRzhoCfNkQAvD_BwE

₹299