

PROJECT-WISE BoM(s) FOR PCCOER TE CSE (ESIOT)

PROJECT NAME

1. Touchless Hand wash Timer
2. Contactless Temperature Sensor with Camera and automatic Sanitizer dispenser
3. Blood Oxygen and Temperature monitor using Arduino
4. Contactless Attendance System
5. Real time temperature monitoring and Telegram alert system.
6. Safe Distance Protection Badge
7. Touchless Doorbell
8. vitals monitoring wearable for frontline workers
9. Temperature measuring automatic and voice inform
10. Temperature Alerting Doorbell
11. Temperature & Mask Scan Entry System For Corvid Prevention using IOT
12. Touchless Trash Bin Opener
13. line follower patrolling bot and patient monitor
14. Measuring Air Quality with IoT Sensors
15. ID system in public transport for people in emergency services.
16. Anti-Face Touching Alarm Cap
17. automatic sanitizer spray using iot sensors
18. Mask detector using IoT

PROJECT WISE BOM

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1	Touchless Hand wash Timer	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 5V WATER VALVE 4. 3V3 RELAY MODULE 5. CONNECTING WIRE AND DATA CABLE
2	Contactless Temperature Sensor with Camera and automatic Sanitizer dispenser	<ol style="list-style-type: none"> 1. NODE MCU 2. CONTACTLESS TEMPRATURE SENSOR(GY906) 3. 3V3 RELAY MODULE 4. 5V WATER VALVE WITH DISPENSER 5. CAMERA WITH Rpi/espdriver 6. CONNECTING WIRE AND DATA CABLE
3	Blood Oxygen and Temperature monitor using Arduino	<ol style="list-style-type: none"> 1. Arduino Uno 2. BLOOD OXYGEN AND TEMP SENSOR (Max30102 & GY906) 3. CONNECTING WIRE AND DATA CABLE
4	Contactless Attendance System	<ol style="list-style-type: none"> 1. NODE MCU 2. MIFARE RFID MODULE 3. RFID TAG

		4. CONNECTING WIRE AND DATA CABLE
5	Real time temperature monitoring and Telegram alert system.	<ol style="list-style-type: none"> 1. NODE MCU 2. TEMP SENSOR (LM35) 3. CONNECTING WIRE AND DATA CABLE
6	Safe Distance Protection Badge	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY MODULE 4. BUZZER/INDICATOR LED 5. CONNECTING WIRE AND DATA CABLE
7	Touchless Doorbell	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY MODULE 4. BUZZER/DOORBELL 5. CONNECTING WIRE AND DATA CABLE
8	vitals monitoring wearable for frontline workers	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY MODULE 4. BUZZER/INDICATOR 5. CONNECTING WIRE AND DATA CABLE 6. CONTACTLESS TEMPERATURE SENSOR(GY906)
9	Temperature measuring automatic and voice inform	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY MODULE 4. BUZZER/INDICATOR 5. CONNECTING WIRE AND DATA CABLE 6. CONTACTLESS TEMPERATURE SENSOR(GY906) 7. VOICE RECORDER MODULE(ISD1820) 8. SPEAKER WITH AUDIO CABLE
10	Temperature Alerting Doorbell	<ol style="list-style-type: none"> 1. NODE MCU 2. CONTACTLESS TEMPERATURE SENSOR(GY906)/LM35 3. 3V3 RELAY MODULE 4. BUZZER/DOORBELL 5. CONNECTING WIRE AND DATA CABLE
11	Temperature & Mask Scan Entry System For Covid Prevention using IOT	<ol style="list-style-type: none"> 1. NODE MCU 2. CONTACTLESS TEMPERATURE SENSOR(GY906)/LM35 3. CAMERA WITH RPi 4. CONNECTING WIRE AND DATA CABLE

12	Touchless Trash Bin Opener	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY Module 4. CONNECTING WIRE AND DATA CABLE 5. TRASH BIN
13	line follower patrolling bot and patient monitor	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY MODULE 4. BUZZER/INDICATOR 5. CONNECTING WIRE AND DATA CABLE 6. CONTACTLESS TEMPERATURE SENSOR(GY906) 7. LINE FOLLOWER CHASSIS 8. 3.7 BATTERY WITH CHARGER
14	Measuring Air Quality with IoT Sensors	<ol style="list-style-type: none"> 1. NODE MCU 2. MQ135 Gas sensor 3. 3V3 RELAY MODULE 4. BUZZER/DOORBELL 5. CONNECTING WIRE AND DATA CABLE
15	ID system in public transport for people in emergency services	<ol style="list-style-type: none"> 1. NODE MCU 2. MIFARE RFID MODULE 3. RFID TAG 4. CONNECTING WIRE AND DATA CABLE
16	Anti-Face Touching Alarm Cap	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY MODULE 4. BUZZER/INDICATOR 5. CONNECTING WIRE AND DATA CABLE
17	automatic sanitizer spray using iot sensors	<ol style="list-style-type: none"> 1. NODE MCU 2. ULTRASONIC SENSOR/PROXIMITY SENSOR 3. 3V3 RELAY MODULE 4. SMALL WATER PUMP MOTOR 5. CONNECTING WIRE AND DATA CABLE 6. BATTERY WITH CHARGER 7. 12V DC ADAPTER
18	Mask detector using IoT	<ol style="list-style-type: none"> 1. CAMERA WITH RPi 2. CONNECTING WIRE AND DATA CABLE

NOTE: SOME 10K, 330E, 1K RESISTOR AND BASIC COMPONENT REQUIRED FOR LEVEL SHIFTING OR DRIVING. (LIKE BC547, 10uf CAPACITOR and DIODE etc.)