

# Project List

VAP

## 1 Keywords

ESP32, Arduino, Linux, Server, Flask , RESTApi, API, API Key, Adafruit, Local and Over internet communication, Sensors LM35, Water level, Analog, Digital, Dashboard, Hosting, Realtime, Tracking, Server,Client, Realtime, Protocols

## 2 Probable Project List

- **Wireless Robotic Arm** Implement remotely accessed or Locally accessed robotic arm to be used to segregate poisonous material or potential explosives
- **Vehicle Tracking** Implement, vehicle tags tracking inside the parking garage of societies so to check the security and realtime status
- **Water ATM** Implement, selling water bottle using valves on the basis of token or rupees along with maintaining and observing water level on the dashboard without opening the tanks
- **Local Public announcement board** Implement AV / HDMI screen with server so that all screen in the commercial campus can show the same message or advertisement or announcement
- **Hotel ordering menu locally** Provide hotel menu from local server to put order and completion of order
- **WSN for distributed sensor in small area** Areas like small factories implement network of sensor, so that dependent processes can be automated
- **Animal scare alarm** Wireless GSM based animal scare alarm for farms [using esp32]
- **smart home** App based home switch on/off
- **Software project** make own dashboard providing service for others
- **Internet walkie-talkie** make walkie talkie considering any closed area premises usage

### **3 Online available project titles for references**

- ESP32 Solar Weather Station reading and transmitting environmental vitals to central authority
- pedometer link pedometer with mobile app/server
- temprature mesurement gun linked with central server of premises
- art piece like : led cube/rolling display
- Scheduled task manager using Realtime clock
- Gas detector for LPG packing/seller services
- Baby fall detector Detect if baby fall from bed

### **4 High end projects**

- Tides and weather show tides on the display near shores/beaches
- internet Radio Implement independent implement radio
- internet speed meter show internet speed on display attached may be LCD/small disply
- Game controller make Game remote controller for mobile/PC games
- plotter Make plotter / drawing machine for vertical walls
- Facebook like counter