WIRELESS WILDLIFE CAMERA CAPTURE AND EMAIL ALERT

AIM:

Design and Development of Wireless Wildlife camera capture and Email alert.

PURPOSE:

This project is keeping eye on surroundings when we are in outside. This system can capture images with constant time delay and send them to email. This kind of system helps for wild life photographers, Moto vloggers, nature explorer…etc. We can install this system at any place. It will send continuous images to email for every fixed interval of time. This project title is wireless wildlife camera capture and email alert using ESP32-CAM.

DESCRIPTION AND WORKING:

This project contains ESP32-CAM and its daughter board. This daughter board has power supply provision which generates 5V DC. ESP32-CAM needs this power supply to work. This system works based on Arduino Code which can handle image process and email access. Google Script procedure needs to be done in receiver Email. Also we can access live video streaming on the HTML web page through IP address of ESP32-CAM. For every fixed interval of time (Like one minute or two minutes) ESP32-CAM capture image and send to Gmail. LED will be ON while sending capture image to Gmail.

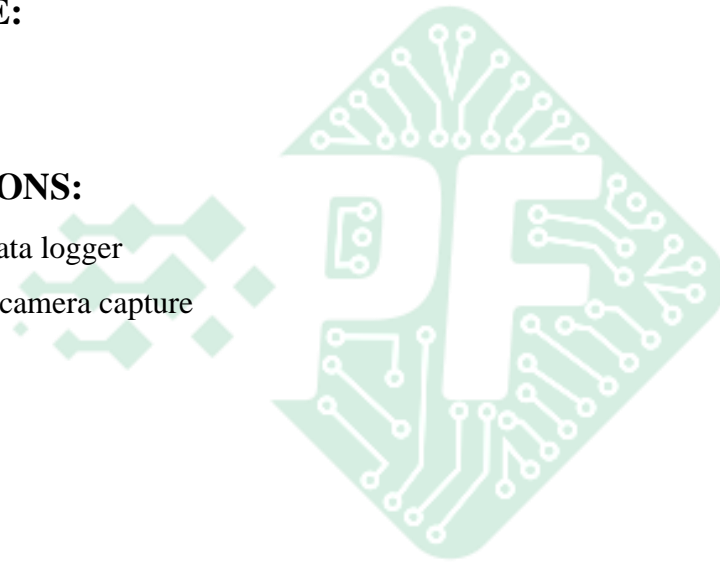**TECHNICAL SPECIFICATIONS:**

HARDWARE:

Microcontroller   :   Esp32-Cam
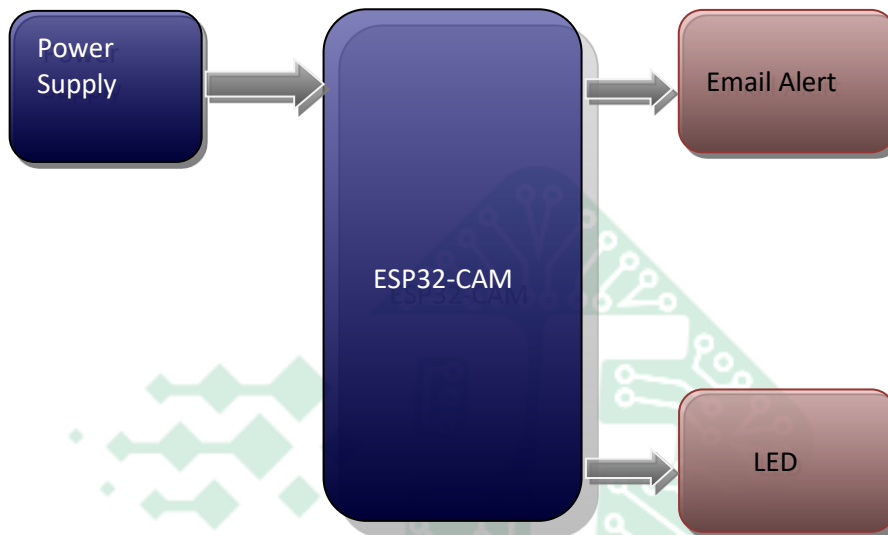
Power Source   :   12v 2 amp Adaptor

SOFTWARE:

Arduino IDE

APPLICATIONS:

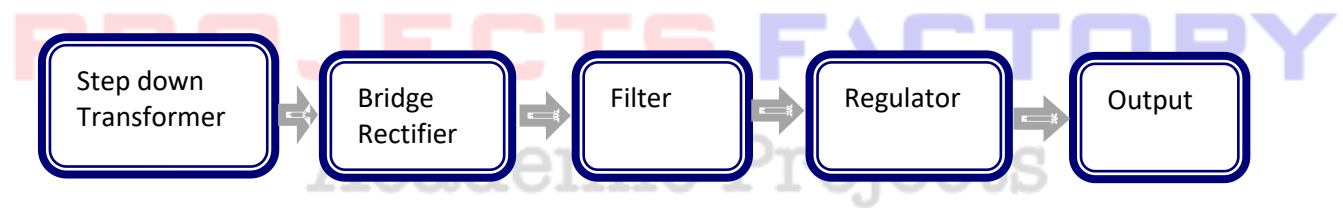➢ Image Data logger

➢ Wildlife camera capture

BLOCK DIAGRAM:

```
Power           →    ESP32-CAM    →    Email Alert
Supply
                                  →    LED
```

POWER SUPPLY BLOCKDIAGRAM:

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Step down    →   Bridge      →   Filter   →   Regulator   →   Output
Transformer      Rectifier
```

INTERFACES COVERD:

- We have covered Esp32-Cam