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Assignment - 11

Aim → Develop a real time applicatⁿ like smart home with following requirements when user enters into house the required appliances like fan light should be switched ON, Appliances should also get controlled remotely by a suitable web interface. The objective of this applⁿ is student construct complete smart application in group.

Theory → Basics - Send emails using python. The smtplib module of python is basically all you need to send simple email w/o any subject line or such additional info.

But for real emails you need a subject line & lots of information maybe even picture & attachments.

The smtplib

- 1) The smtplib module defines an SMTP client session object that can be used to send email to any Internet machine.
- 2) Sending email is done with python's smtplib using SMTP server.

Servo Motor

A servo motor is a combination of DC motor, position control system and gears. Servos have many applications in the modern world and with that, they are available in different shapes and sizes. We will be using Sango servo motor which is one of the popular & cheapest one. Sango is a 180 degree servo. So with this servo we can position the arm from 0-180 degree.

Steps:

- Create lock/unlock application
change its owner & group
as www-data. Location: /var/www/html

- Write the application to read the image and send it as email
- Write application using HTML PHP to control the servo motor lock

Conclusion:

Thus, we have developed short application for smart home system.