Experiment NO - 11

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Aim :- Develop a Real time application like
smart home with following require-
ment. when users enters into
house the reqcuired appliances like fan,
light should be Switchon - Appliances
should get controlled remotely by a
Suitable web interface. The objective
of this application is student should
construct complete smart application
in group.

Theory

Basic - send emails using python:

1. the smtplib module of python is basically
all you need to send simple email, with-
out any object line or such additional
information.

2. But for real emails, you do need subject
line and lots of information - maybe
even pictures and attackements.

3. This is where pythons email package
comes in. Keep in mind that it's not
possible to send an email message.

using the email packge alone.

How to send Emails?
1. Set up the SMTP server and log into your account.
2. Create the MIME multiport message object and load it with appropriate headers for from, To and subject fields.
3. Add your message body.
4. Send the message using SMTP server object.

The Smtplib.
1. The smtlib module define an SMTP client session object that can be using to send mail to any internet machine with an SMTP or ESMTP listener daemon.
2. The smtplib modules is usedful for communication with mail server to send mail.
3. sending mail is done with python's smtplib using SMTP servers.
4. Actual usage varies depending on complexity of the email and setting of the email server, the instructions here are based on sending emails through gmail.

Servo motor :

1. A servo motor is a combination. 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 SG90 servo motor which popular, cheapest and, it. is 180° servo, we can position the axis from 0 - 180°

2. Servo motor is a combination of DC. motor position control system and gears.

Steps:

1. create the lock/unlock applicated to control the servo motor lock. change its owner and group a swww - data. location:/var:/www/html.

2. write application using to read the images and send it as email attache. ment to the user location :/home/ pi

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