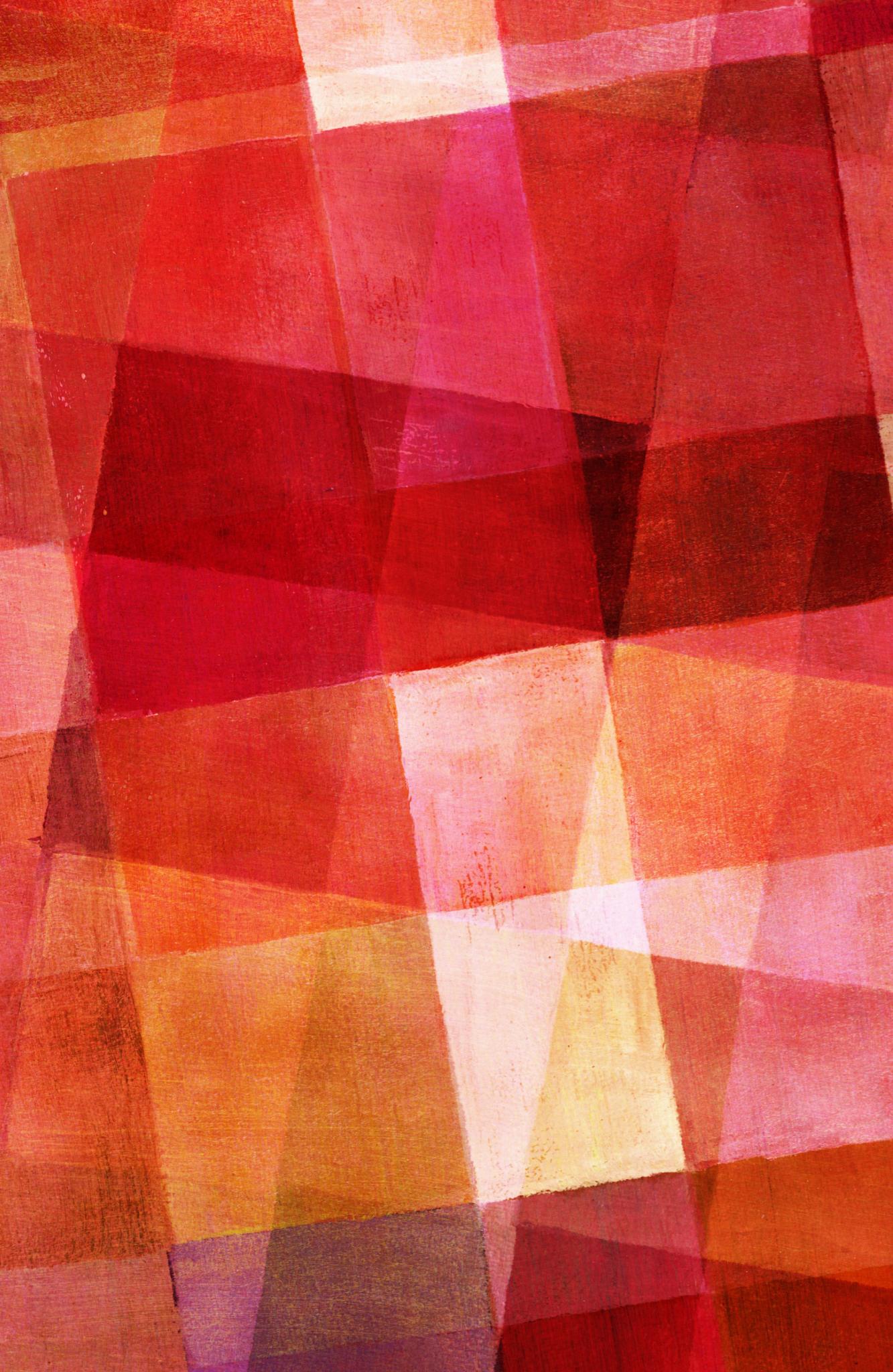




PESIT-BSC

*Department:Information science and engineering.
Home automation using raspberry pi.*



HOME AUTOMATION USING RASPBERRY PIE

Team members

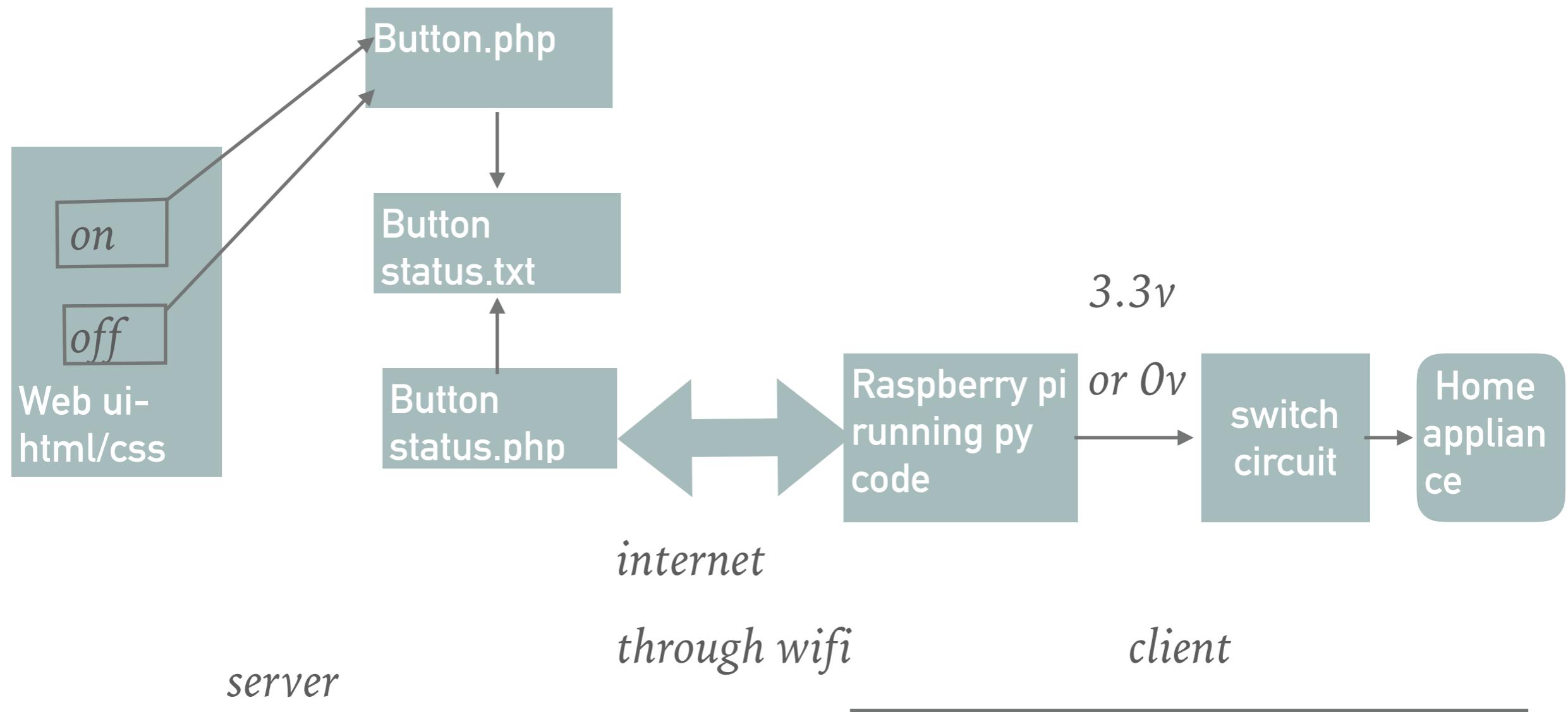
- Suraj kumar - 1pe14is101
- shrinivas - 1pe15is420
- madhu nv-1pe12is406

Guide
Dr. Sheela.D

PROCESS DESCRIPTION-HOME AUTOMATION USING RASPBERRY PI

- Whenever we press the on or off button on the web ui,it runs button.php code on the server which modifies the content of buttonstatus.txt file appropriately according to button pressed.
- On the other side the raspberry pi runs a python code which fetches the contents of the buttonstatus.txt through buttonstatus.php code on the server through the internet .
- In other words the raspberry pi polls the server to provide contents of button status.txt on the server.
- based on the information received from the buttonstatus.txt the raspberry pi decides whether or not to give voltage to the external switch circuit.
- if the external circuit receives a voltage it completes the appliance circuit to switch on the device else it remains an open circuit and the device is in turned off condition.

BLOCK DIAGRAM - HOME AUTOMATION USING RASPBERRY PI



APPLICATIONS- HOME AUTOMATION USING RASPBERRY PI

- Can be used to automate large scale buildings .
- Can be used to automate domestic houses .
- Can be used for scheduling switching on or off of devices.
- Can be used to provide access .
- Can be further improvised to detect emergency situation and automatically alert the authorities.
- Can be used to improvise security.



THANK YOU