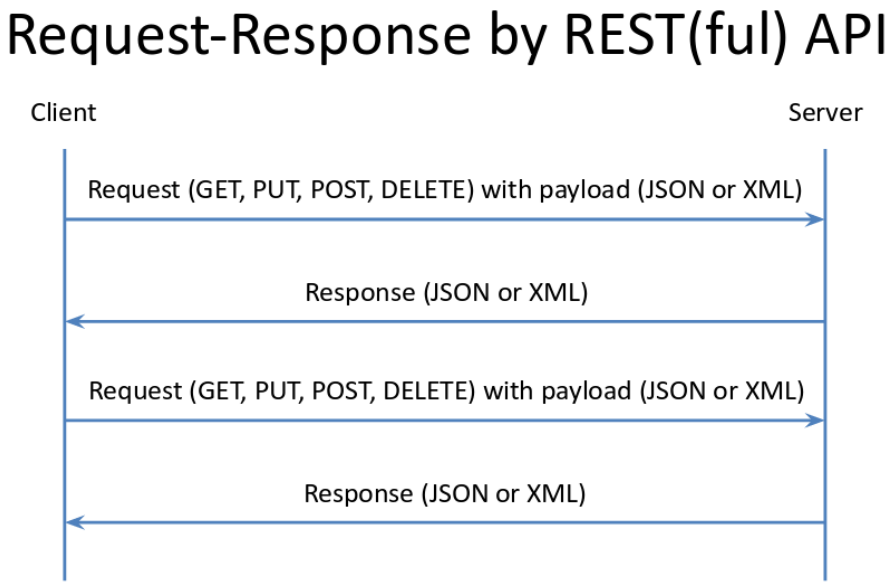
EE 629 – IoT using Raspberry Pi

Lesson 4 – Exercises - **Done**

Django and Flask: A Web application framework to automate the overhead associated with common activities performed in web page development



REST: Representational State Transfer
API: Application Programming Interface
JSON: JavaScript Object Notation
XML: Extensible Markup Language

Labs A and B: Django and Django REST

1. Followed all the steps mentioned in the git hub page and Installed Django, Django REST framework, MariaDB server, client , psutil (process and system utilities), Adafruit_Python_DHT library, Adafruit_Python_BMP library, Adafruit_Python_ADXL345 library

2. Created the Django framework and viewed the created web page with the temperature, CPU usage and the Map

Lab C: Flask

Installed Flask-Ask and Ngrok by following the steps
Experimented the memory game with Alexa skill

Lab D: LAMP

Installed Apache web server and PHP and followed the steps

On the Chromium browser viewed the Apache2 Debian Default Page, then followed the steps further

Again on the Chromium browser and viewed "Hello world!" and the PHP info

Built a LAMP web server with WordPress

1. Installing php7.3-mysql and then
2. Created a database and granted all privileges on wordpress* to local raspberry pi

Again on a Chromium browser and went to the page to configure Wordpress and ran the installation