

# Architecture Of Web Application

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## REST API

Representational state transfer which is known as REST API. The simple understanding of the REST API, which I randomly surfed to internet and came with this idea.

Think you are the client/customer/user

A sunny day you are going to restaurant, after entering into the restaurant and looking for the waiter to take your order, here the waiter is your API (REST) and he holds the menu card with list of food items **“here menu card act as API documentation”** and **“it has several functions PUT, POST, GET, DELETE”**. The waiter is getting order request from you and posts the order to the kitchen, **“The kitchen here acts as server”**. The kitchen is where all food items are being prepared **“In simple terms it can handle the request”**. After preparing the food, the kitchen sends a response to the waiter. Later the waiter serves the requested food to you.

## BASIC INSTALLATION

Before setup of architecture of the REST API in Django Framework, we need to learn some Linux commands

1. Before using Django you need to know the whole Django works on Python. You need to install Python. The command for installing Python in Linux `$ sudo apt-get install python3.8.`
2. After that check Python version, just using the command `$ python3 --version`. Once the version is showing then the Python is working.
3. Now we go to the setting up virtual environment, before setting up virtual environment you need to install Python virtual environment using `$ sudo apt-get install python3-venv`. After installing the Python virtual environment. Now you need to setup virtual environment `$ python3 -m venv myenv`. It creates a virtual environment and then activates the virtual environment using `$ source myenv/bin/activate`.
4. After activating the virtual environment you need to install Django using `$ python3 -m pip install Django`.
5. Once it is installed, create a project, app and then start the project using following commands.
  1. `$ django-admin startproject myproject.`
  2. `$ django-admin startapp myapp1.`

*Note: The Django app should be created after your project only.*

For more information, please refer the original documentation page, I have attached some information below kindly check below.

## REFERENCES

Official Documentation

Source: [python installation](#)

source: [python virtual environment](#)

Other Sources for easy understanding.

Source: [virtual environment set up documentation](#)

source: [Django installation](#)

source: [Django Project](#)

source: [Django installation](#)