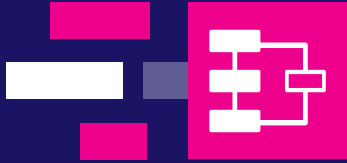# Building your own API using Flask

What is an API?

An API (Application Programming Interface) is a software intermediary that enables two applications to communicate with each other. It comprises a number of subroutine definitions, logs, and tools for creating application software.

What is a RESTful API?

REST (Representational State Transfer) is an architectural style for developing web services which exploit the ubiquity of HTTP protocol and uses HTTP method to define actions. It revolves around resource where every component being a resource that can be accessed through a shared interface using standard HTTP methods.

In REST architecture, a REST Server provides access to resources and REST client accesses and makes these resources available. Here, each resource is identified by URIs or global IDs, and REST uses multiple ways to represent a resource, such as text, JSON, and XML. XML and JSON are nowadays the most popular representations of resources.
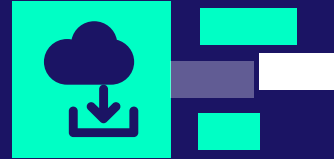
HTTP Requests

GET

The GET method is used to retrieve information from the given server using a given URI. Requests using GET should only retrieve data and should have no other effect on the data.
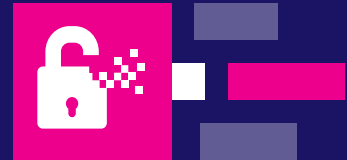
POST

A POST request is used to send data to the server, for example, customer information, file upload, etc. using HTML forms.

PUT

Replaces all the current representations of the target resource with the uploaded content.

DELETE

Removes all the current representations of the target resource given by URI.

Prerequisites

Download Postman:
https://www.postman.com/downloads/

Flask:
Pip install flask

Reference Code:
https://github.com/ACM-VIT/PyFlask-2020/tree/master/APIBuilder