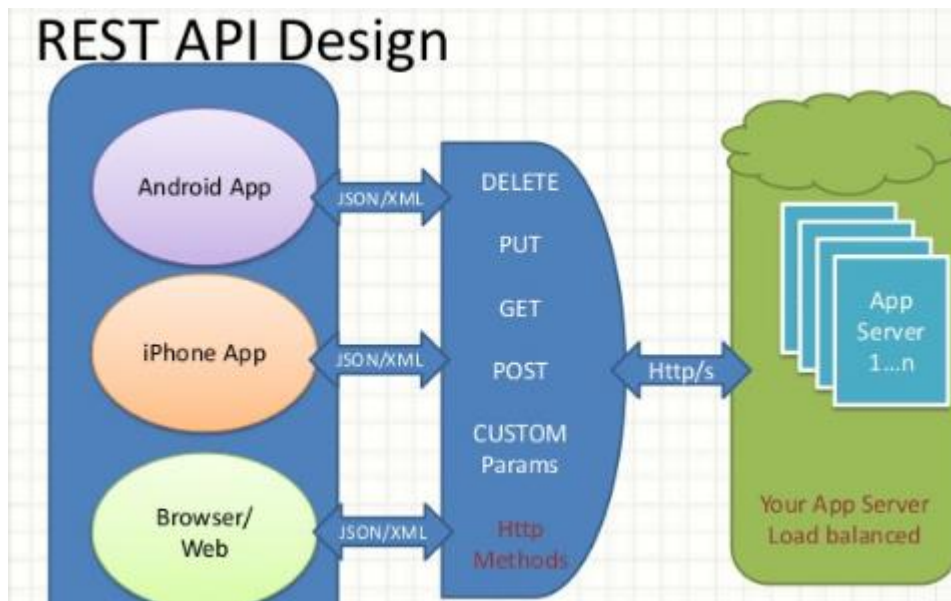# Getting Started with REST API Testing

**A REST API defines a set of operations where developers can perform requests and receive responses via HTTP protocol**



Weather report:

- REST stands for Representational state transfer
- Because REST API's use HTTP, they can be used by practically any programming language
- It acts as medium to propagate communication between the client and server applications on the World Wide Web
- Stateless – No client data is stored on the server between requests and session state is stored on the client.
- http is the transport protocol for REST

 **Examples** :

The Twitter REST API

Facebook REST API (deprecating)

Google Translate REST API

Flickr REST API

Dropbox REST API

**The key principles of REST are as follows:**

• Represent everything with a unique ID; a URI

• Stateless communication

• Make use of standard HTTP methods such as GET, POST, DELETE, and PUT

**GET**- The GET method is used to extract information from the given server using a given URI. While using GET request, it should only extract data and should have no other effect on the data.

No Payload/Body required

**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 current representations of the target resource with the uploaded content.

**DELETE**- Removes all current representations of the target resource given by a URI.

• Resources can have multiple representations