

REST API and FLASK



Flask

FOSS-CIT
06/02/2020

Agenda

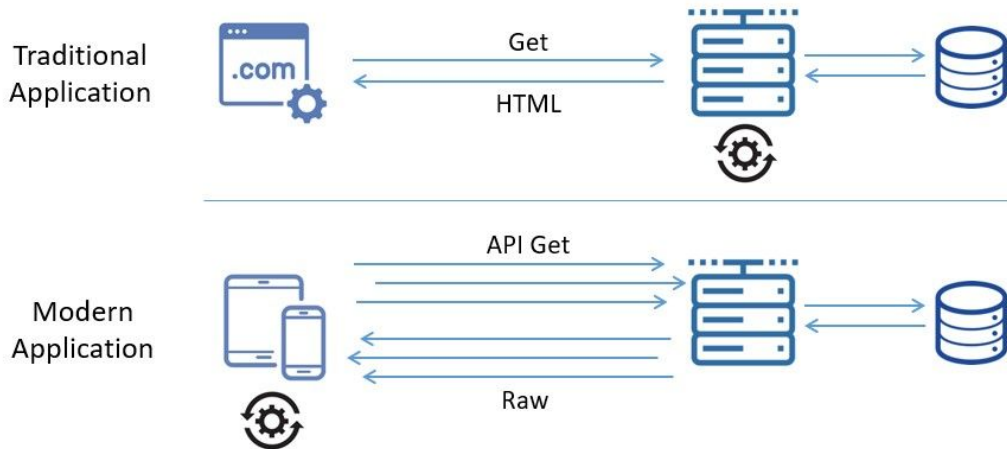
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- Introduction to APIs
- REST API
- Intro to Web Framework
- Intro to Flask
- Flask & REST API

API

- Application Programming Interface

Traditional vs. Modern

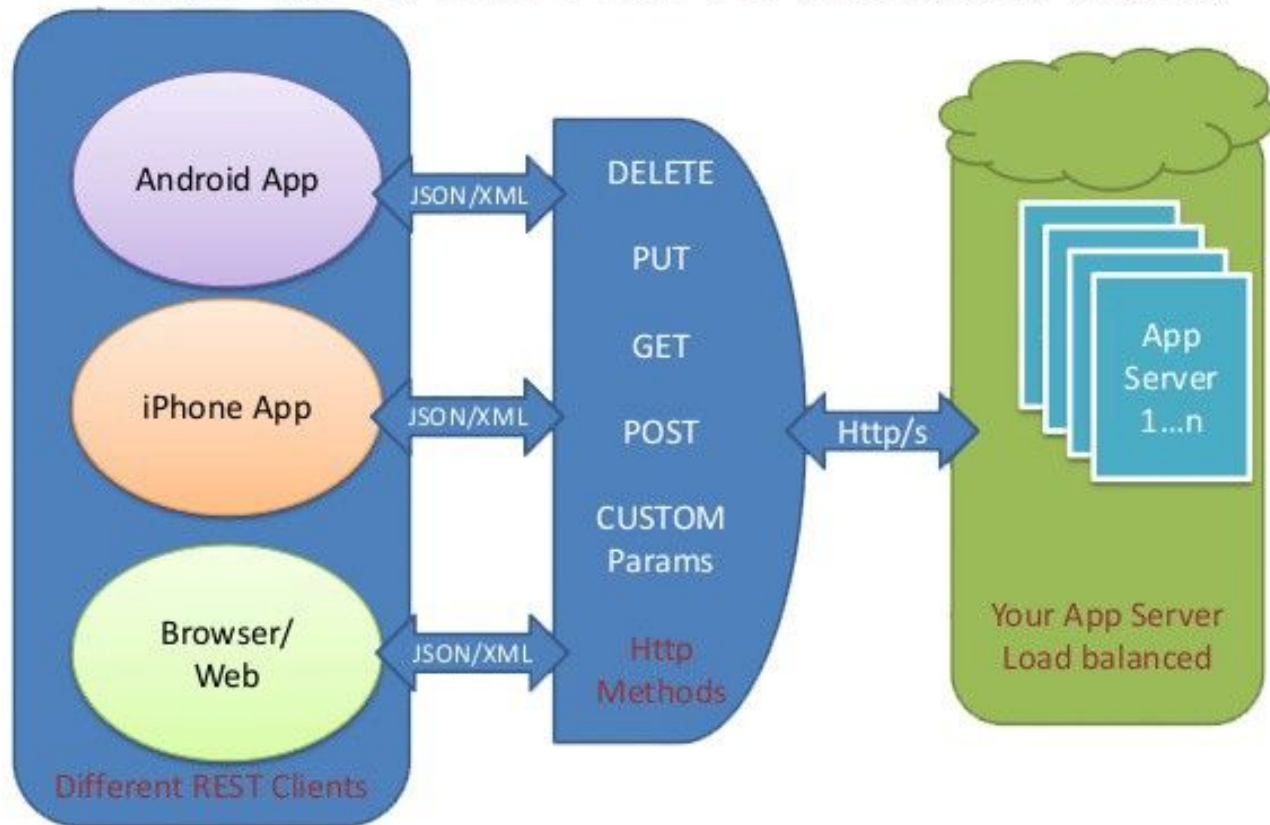


REST API

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- REST – **RE**presentational **S**tate **T**ransfer
- Standard for API calls/handling
- Industry-preferred
- Characteristics:
 - Client-Server
 - Stateless
 - Cacheable
 - Layered System
 - Uniform Interface
 - Code on demand

REST API Architecture



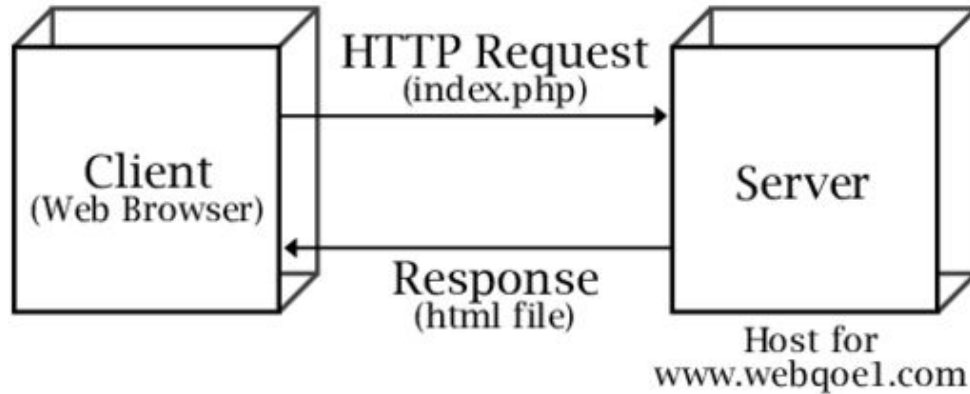
Web Framework

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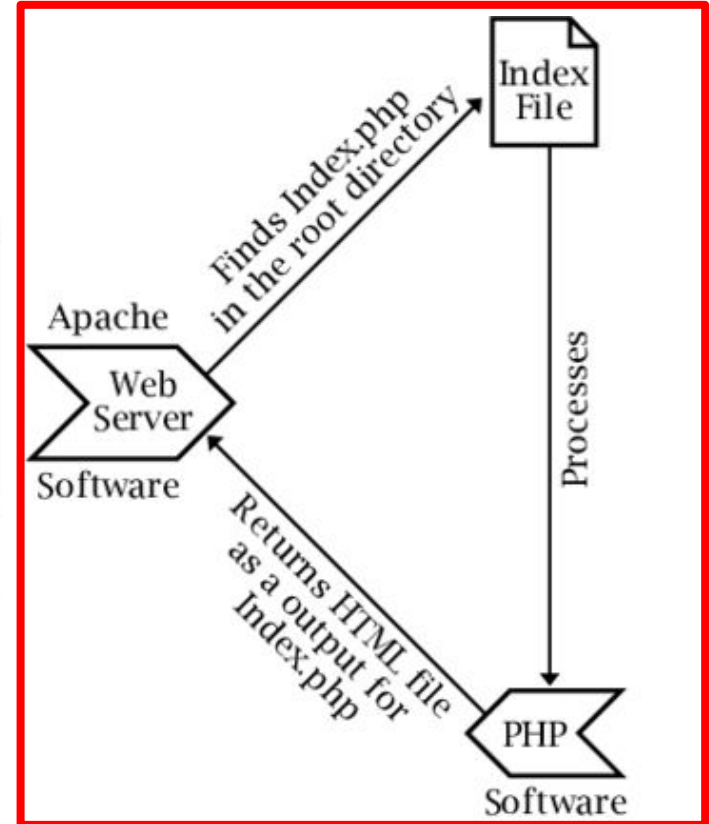
- Used to build web-enabled applications
- Important tasks:
 - Routing
 - Mapping
 - Templating

How a web framework works

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WEB FRAMEWORK



Flask

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- Micro web framework written in Python
- Flexible and easy to use for routing and mapping
- Based on Werkzeug WSGI toolkit and Jinja2 template engine

PREREQUISITE: Basic HTML and Python knowledge

Companies that run on flask

NETFLIX  **airbnb** **lyft** 



SAMSUNG



Flask & REST API in Action