

SESSION 7

Flask REST API

Introduction To Flask REST API

Data Science Program

Outline

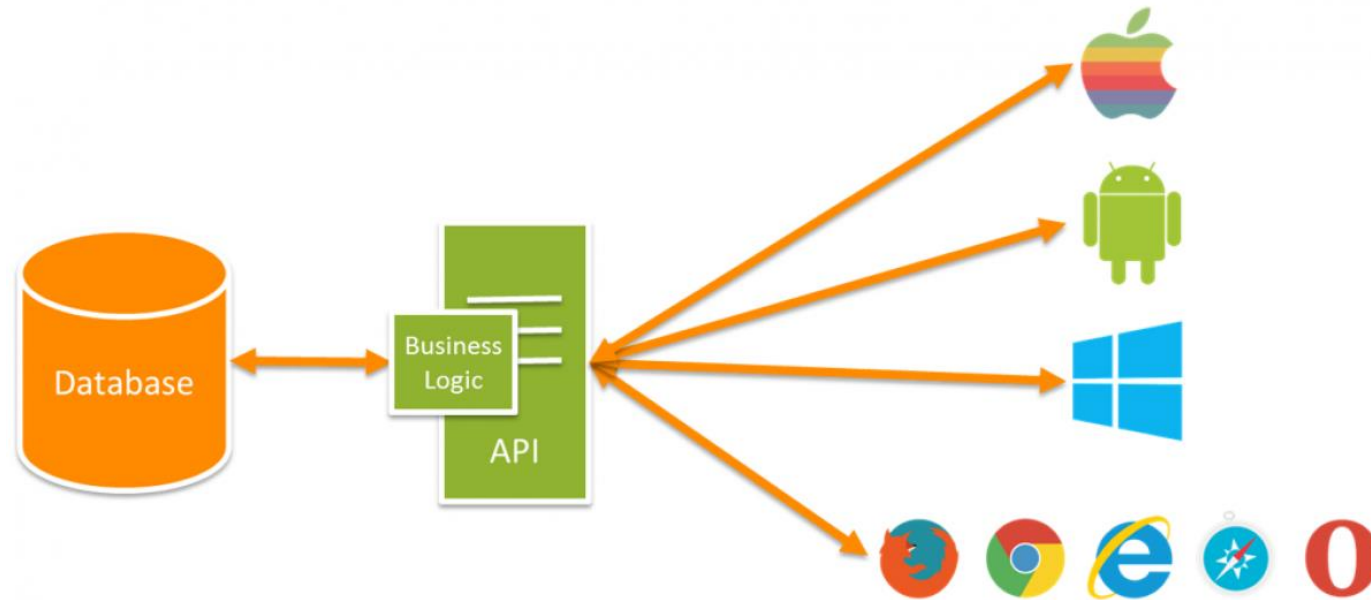
- API & Flask Definition
- REST API With Flask
- Python Module to Create API
- Create Simple API
- Get, Insert, Patch, and Delete Data

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Flask REST API

API & Flask Definition

DEFINITION OF API



{REST:API}

API → Application Programming Interface

REST → Representational State Transfer

DEFINITION OF FLASK



Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object-relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools.

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REST API With Flask

REST API WITH FLASK

{REST:API}



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Flask

HTTP VERBS

C

Create

R

Read

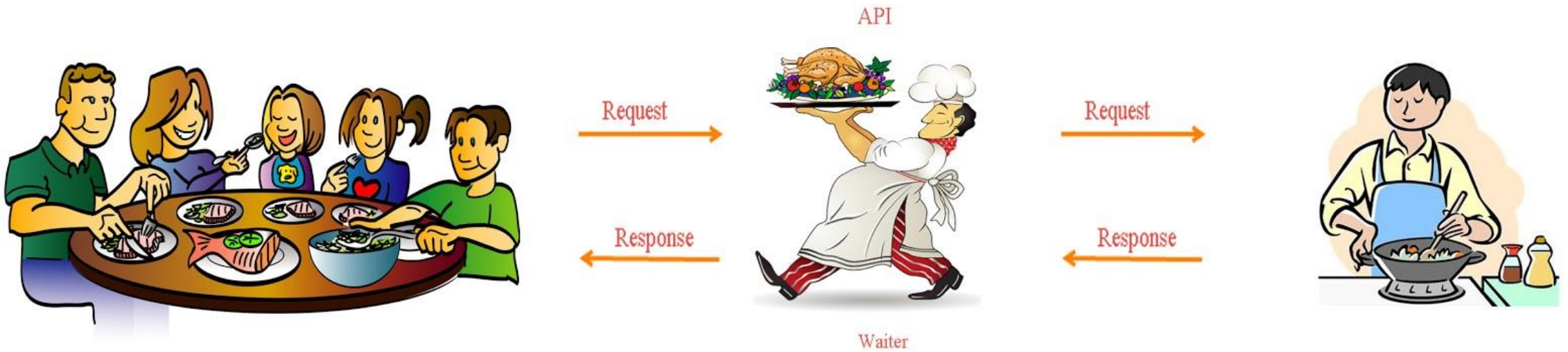
U

Update

D

Delete

HTTP Method	Request has body	Response has body	Safe	Idempotent	Cachable
GET	NO	YES	YES	YES	YES
POST	YES	YES	NO	NO	YES
PUT	YES	YES	NO	YES	NO
DELETE	YES	YES	NO	YES	NO
TRACE	NO	YES	YES	YES	NO
OPTIONS	NO	YES	YES	YES	NO
CONNECT	NO	YES	NO	NO	NO
PATCH	YES	YES	NO	NO	NO



<http://www.letzttest.blogspot.com>

Analogy of API Portrayed By Restaurant Service