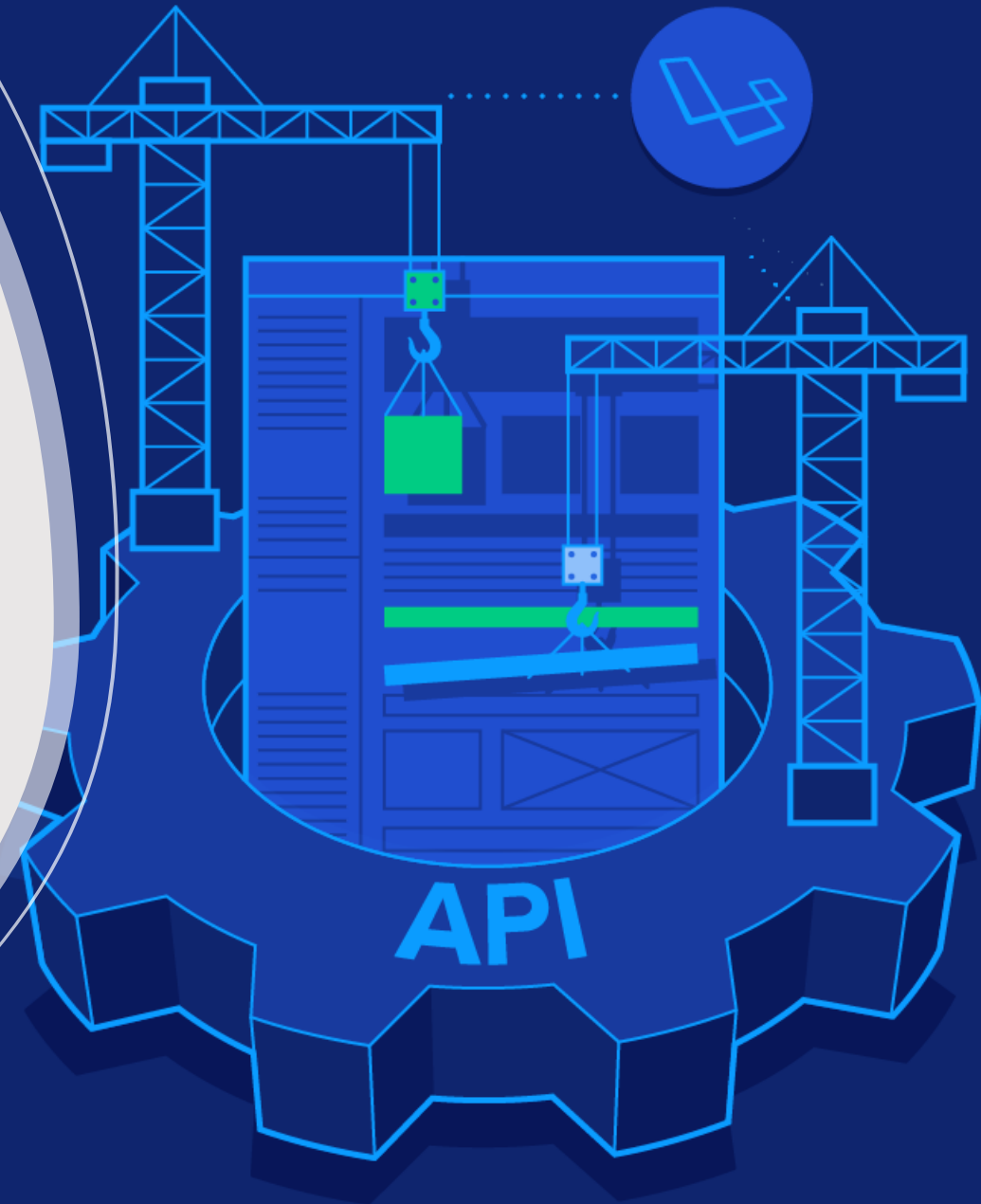


Introduction to RESTful Web Services

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AGENDA

INTRODUCTION OF RESTFUL WEB SERVICES

- What is REST
- What is RESTful Web Services
- What is API

HTTP METHODS

- Types of methods and uses

RESPONSE CODES & GUIDELINES

- Types of HTTP code
- Guideline for defining HTTP response code

ADVANTAGE OF RESTFUL WEB SERVICES



INTRODUCTION OF RESTFUL WEB SERVICES

What is REST?

REST is short for Representational State Transfer. It is a software architectural style... set of rules and conventions for the creation of API.

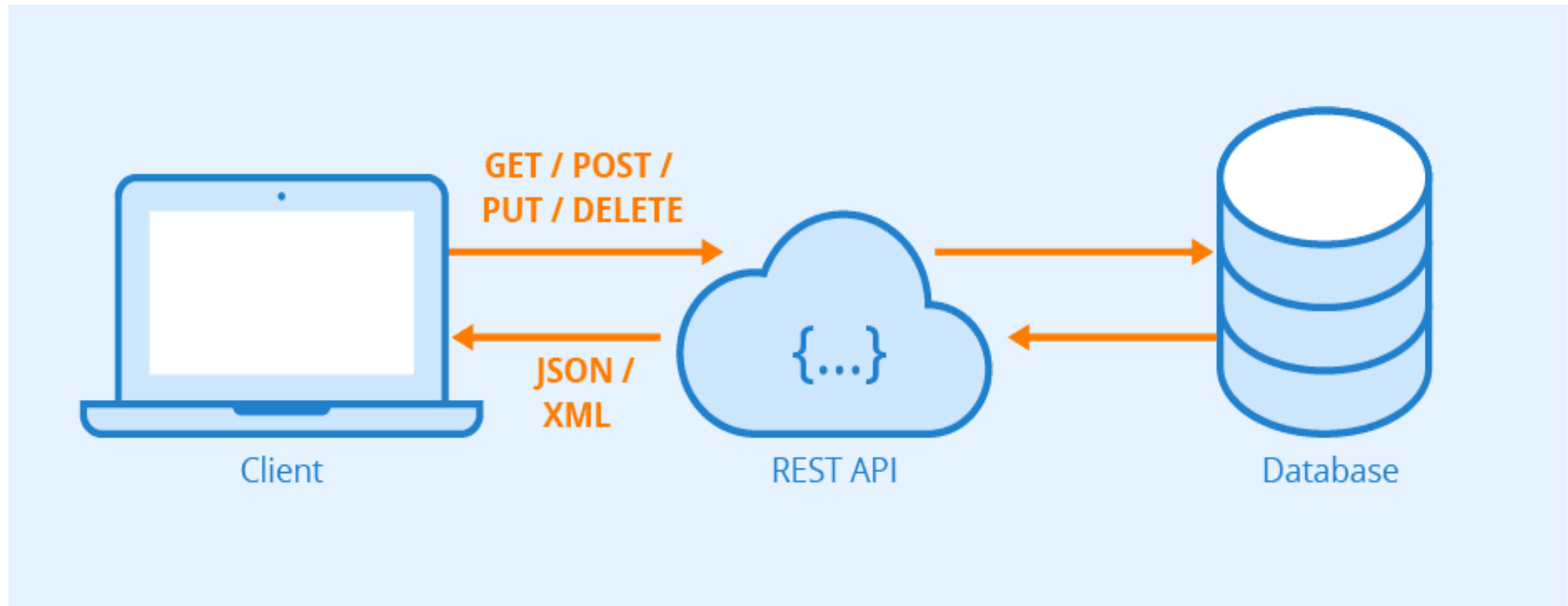
What is RESTful Web Services?

A web service is a collection of open protocols and standards used for exchanging data between applications or systems. Web services based on REST Architecture.

What is API?

API stands for Application Programming Interface. It is an interface through which one application communicates with another application.

ARCHITECTURE



HTTP Methods

GET

Retrieves data from a remote server. It can be a single resource or a list of resources

POST

Creates a new resource on the remote server

PUT

Updates the data on the remote server

DELETE

Deletes data from the remote server

Response Codes & Guidline

Response Codes

- The Response Codes or we can say HTTP Status Codes are important because they tell us about what exactly happened to our request sent to server.

HTTP Status Codes

Level 200	Level 400	Level 500
200: Ok	400: Bad Request	500: Internal Server Error
201: Created	401: Unauthorized	501: Not Implemented
202: Accepted	403: Forbidden	502: Bad Gateway
203: Non-Authoritative Information	404: Not Found	503: Service Unavailable
204: No Content	409: Conflict	504: Gateway Timeout

Advantages of RESTful Web Services

RESTful web services are light weight.

Highly scalable and maintainable and are very commonly used to create APIs.

Brings flexibility formats by serializing data in XML or JSON format.

Use standard HTTP procedure call- outs to retrieve data and requests.

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Thank You