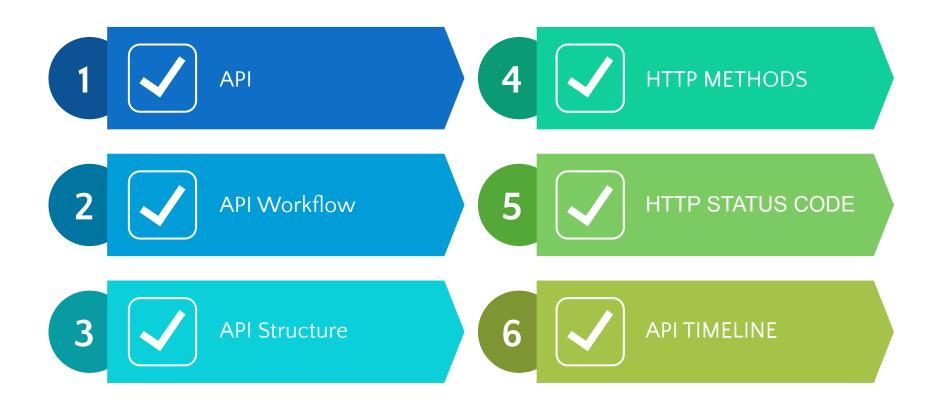


CONTENT



CONTENT



CONTENT

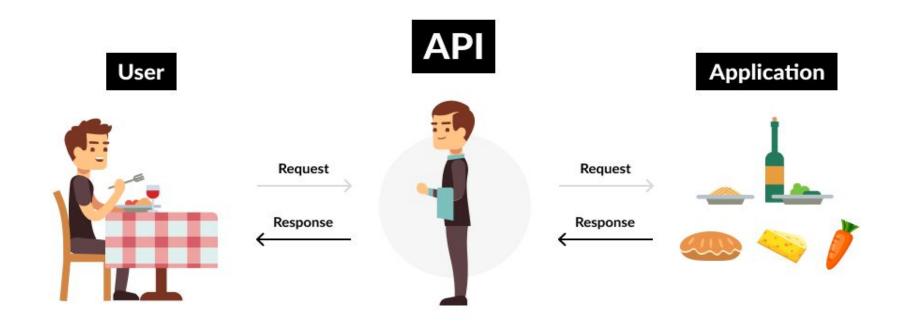


What is API?

API testing is a type of software testing that involves testing the application programming interfaces (APIs) directly. APIs are the communication protocols and tools that allow different software applications to communicate with each other. API testing ensures that the APIs work as expected in terms of functionality, reliability, performance, and security.

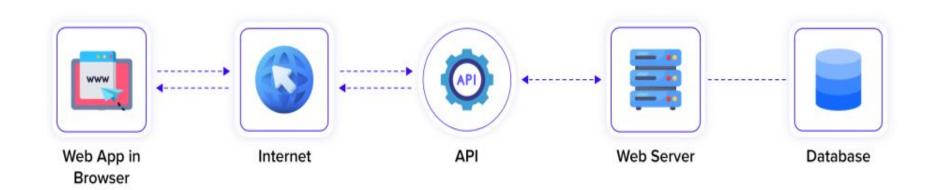


API Testing Workflow - Real life example

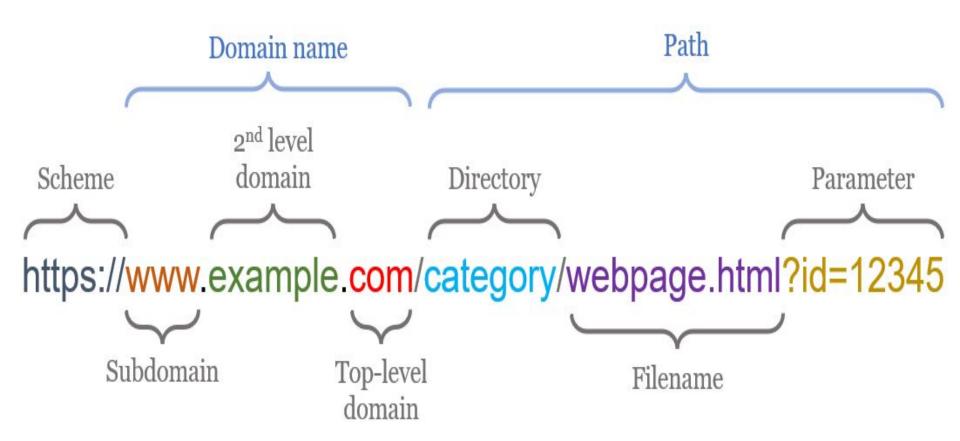


API Testing Workflow - Real life example

How Do API's Work



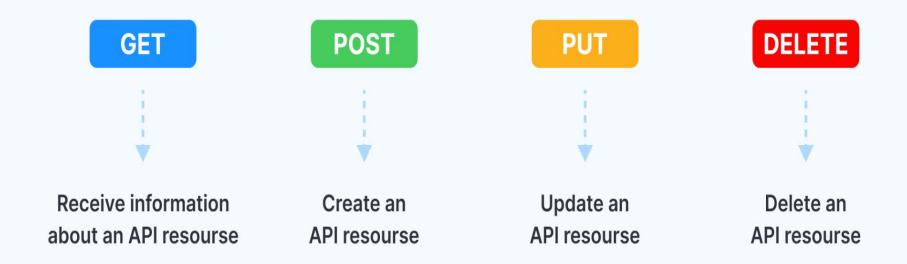
API Structure



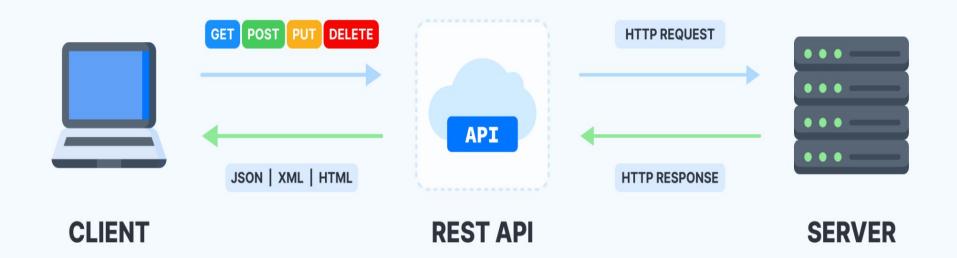
MOST COMMON HTTP STATUS CODES

Common HTTP Status Codes with Real-Life Scenarios

HTTP Methods

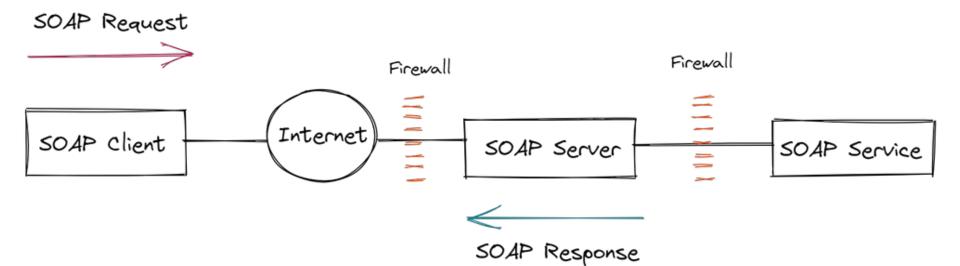


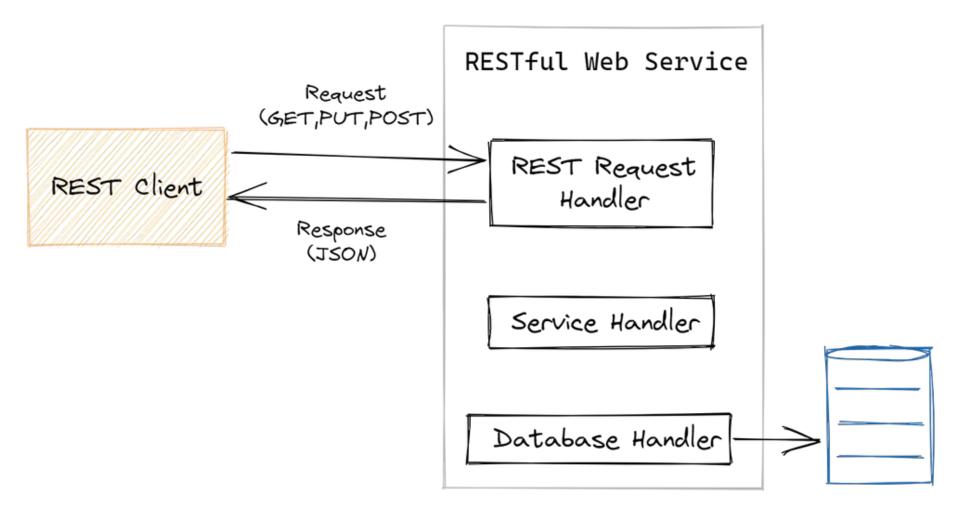
REST API Model



API TIMELINE









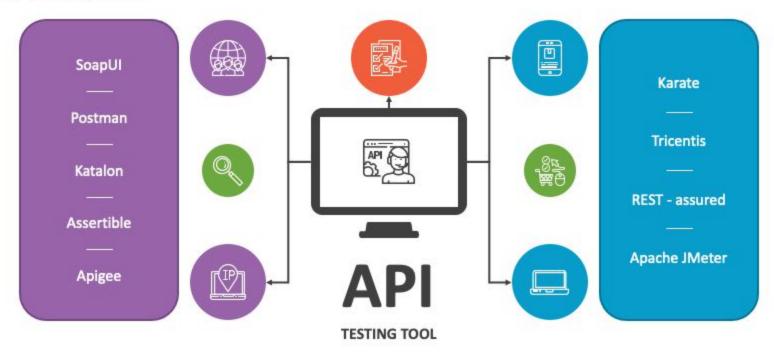
```
<?xml version="1.0"?>
<soap:Envelope
    xmlns:soap="http://www.w3.org/2003/05/soap-envelope/"
    soap:encodingStyle="http://www.w3.org/2003/05/soap-encoding">
    <soap:Body xmlns:m="https://www.superglobamegacorp.example/stock">
        <m:GetStockPriceResponse>
        <m:StockSymbol>AAPL</m:Price>
        <m:Price>170.41</m:Price>
        </m:GetStockPriceResponse>
        </m:GetStockPriceResponse>
        </soap:Body>
</soap:Envelope>
```



"stockSymbol": "AAPL",
"price": 170.41

API TESTING

Top API Testing Tools



Report Configure

Newman

Install Command: npm install -g newman

Run Command:

- 1. newman run "Path/CollectionName.json" -e Path/EnvironmentName.json
- 2. newman run "Collection Link" -e "Path"/EnvironmentName.json

Links:

- 1. https://www.npmjs.com/package/newman
- 2. https://www.npmjs.com/package/newman-reporter-html
- 3. https://www.npmjs.com/package/newman-reporter-htmlextra

Report:

Install: npm install -g newman-reporter-html
 npm install -g newman-reporter-htmlextra

Run Command:

1. newman run CollectionName.json -e EnvironmentName.json -r html
newman run CollectionName.json -e EnvironmentName.json -r htmlextra

API Testing Resources

API Documentation:

https://docs.google.com/document/d/1YyzPMbEu6eEMFrvp-WHiJW-SvDTJvikqx1QGyyFgRXw/edit?usp=sharing

For Practice:

https://docs.google.com/document/d/1LF3FeN4obAZTn-QeuWZzteLn8X1m8ww2/edit?usp=sharing&ouid =107740915407819043042&rtpof=true&sd=true

Software:

Postman (Link: https://www.postman.com/)
Node JS Install (Link: https://nodejs.org/en/)

GitHub:

https://github.com/ebrahimhossaincse/Automated-Testing-of-Rest-Booking-API-with-Newman-Report