REST API

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What is it?

REST:

REpresentational

State

Transfer

Application

Programming

Interface

So what does that mean?

REST is a architectural style which follows the HTTP Protocol

Everything in a RESTful API is a resource, meaning any data/content

Each resource is identified by global IDS(URI(Universal Resource Identifier) or URL(Universal Resource Locator)

Stateless, meaning the server does not store any info, all attained from the request

HTTP Requests

GET ex. GET /products/123 retrieves info about product 123

POST ex. POST /products add a new product

PUT ex. PUT /products/123 updates product123 (404 response if product is null)

DELETE ex. DELETE /products/123 delete product 123

All very intuitive here

200 means good

HTTP Status Codes

Level 200

200: OK
201: Created
202: Accepted
203: Non-Authoritative
Information
204: No content

Level 400

400: Bad Request
401: Unauthorized
403: Forbidden
404: Not Found
409: Conflict

Level 500

500: Internal Server Error
501: Not Implemented
502: Bad Gateway
503: Service Unavailable
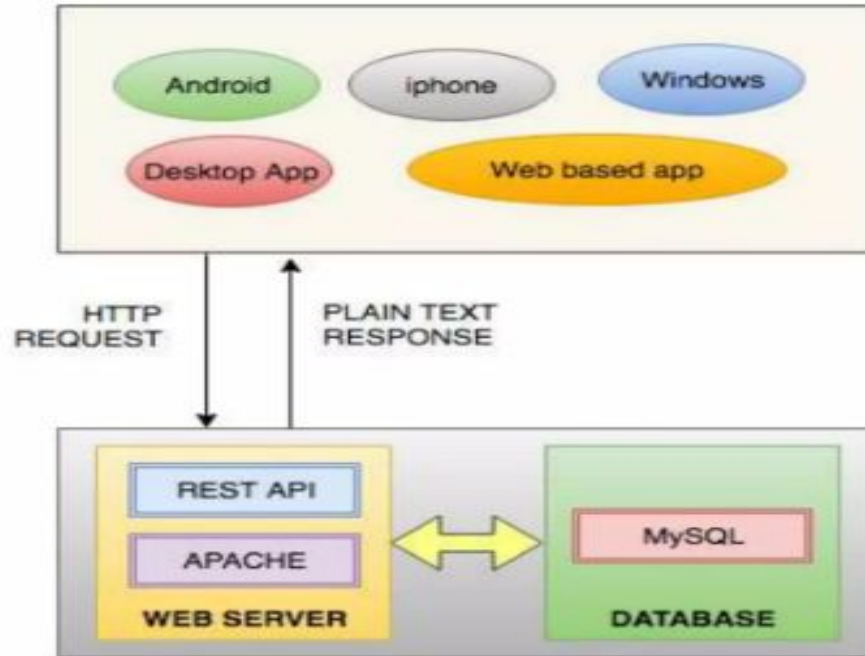504: Gateway Timeout
599: Network Timeout

CURL

Generally in terminal we can use curl to send http requests.

Curl -X get uri

Other ways include postman(really good), httppie, etc

General Layout

Filtering

GET /cars?color = red (Returns a list of red cars)

GET /users?name = tom (Returns a list of users whose name matches tom)

GET /cars?sort= -manufacturer,+model

Sorting by descenjding manufacturers and ascending models