TX00FL42-3001

USING EXTERNAL INTERFACES

MUATH OTHMAN



LET'S CHECK HOMEWORKS!



WHAT IS APPLICATION PROGRAMMING INTERFACES?



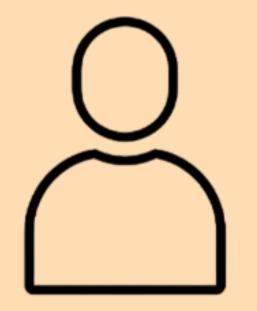
An API (Application Programming Interface) is a set of rules and tools that allows different software applications to communicate with each other. It acts as a bridge, enabling one application to request and use functionalities or data provided by another.

LET'S TAKE EXAMPLE





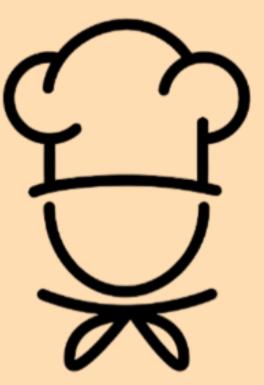
CUSTOMER



WAITER



CHEF



CUSTOMER WAITER



CUSTOMER WAITER CHEF

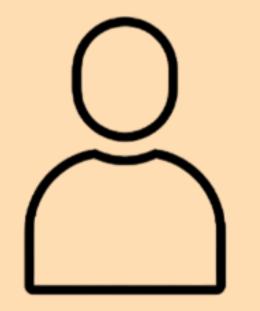
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CUSTOMER WAITER CHEF

HOW API IS RELATED TO THIS?



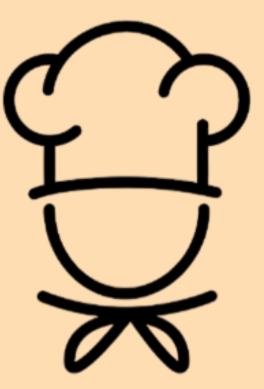
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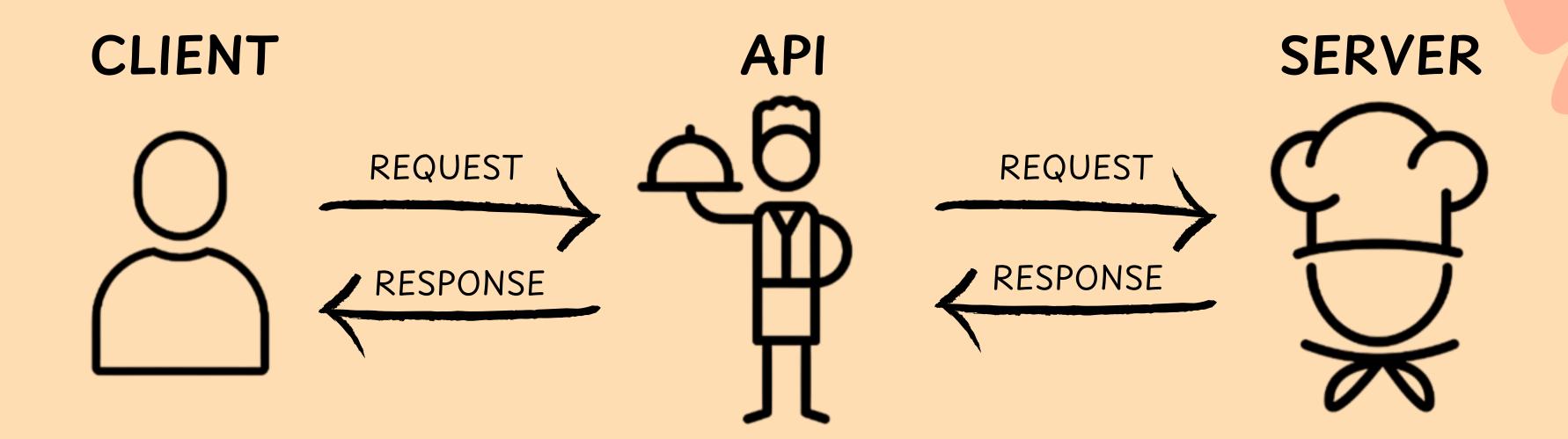
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CUSTOMER WAITER CHEF REQUEST REQUEST REQUEST

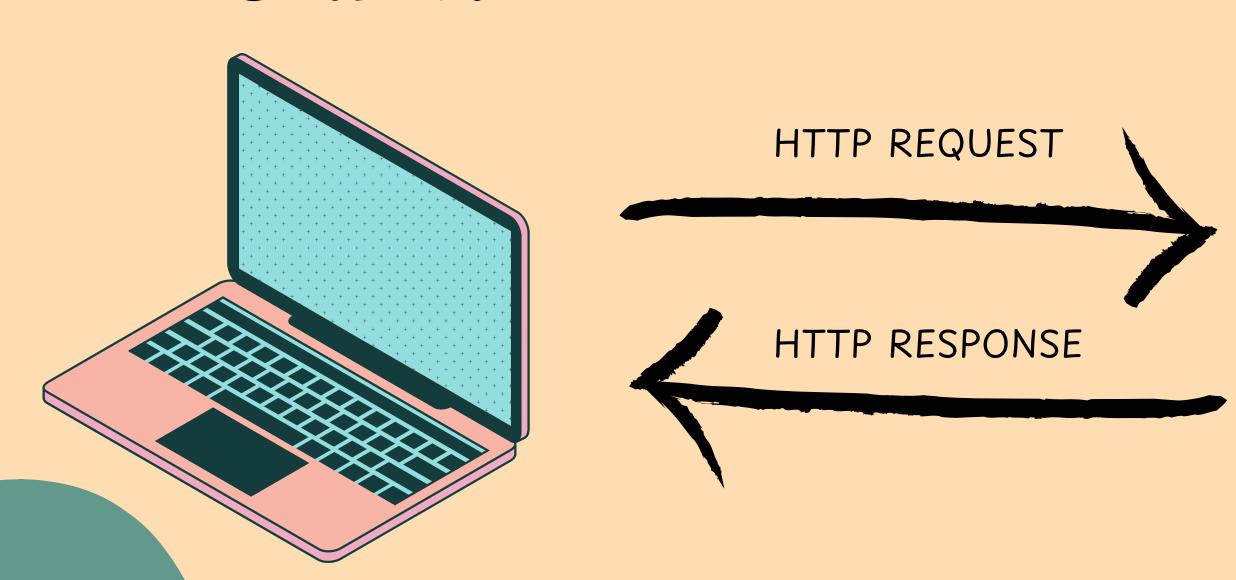
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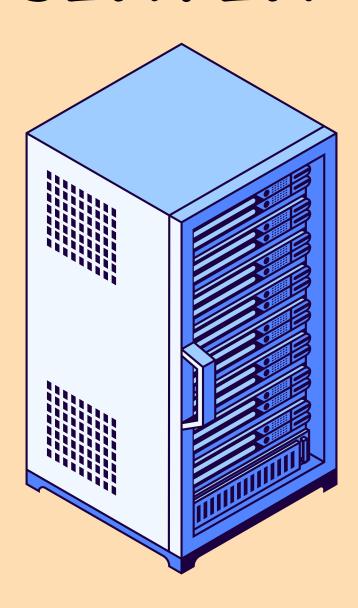


CLIENT - SERVER MODEL

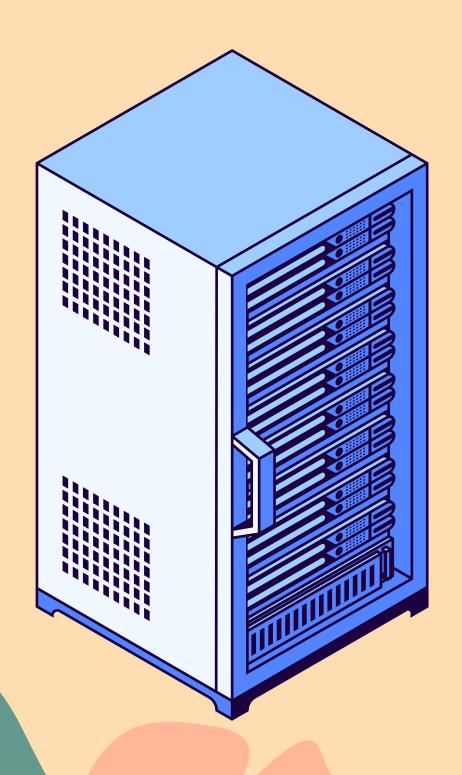
CLIENT



SERVER



SERVER



COMPUTER THAT IS CONNECTED TO THE INTERNET, WAITING FOR OTHER COMPUTERS TO CONNECT TO IT

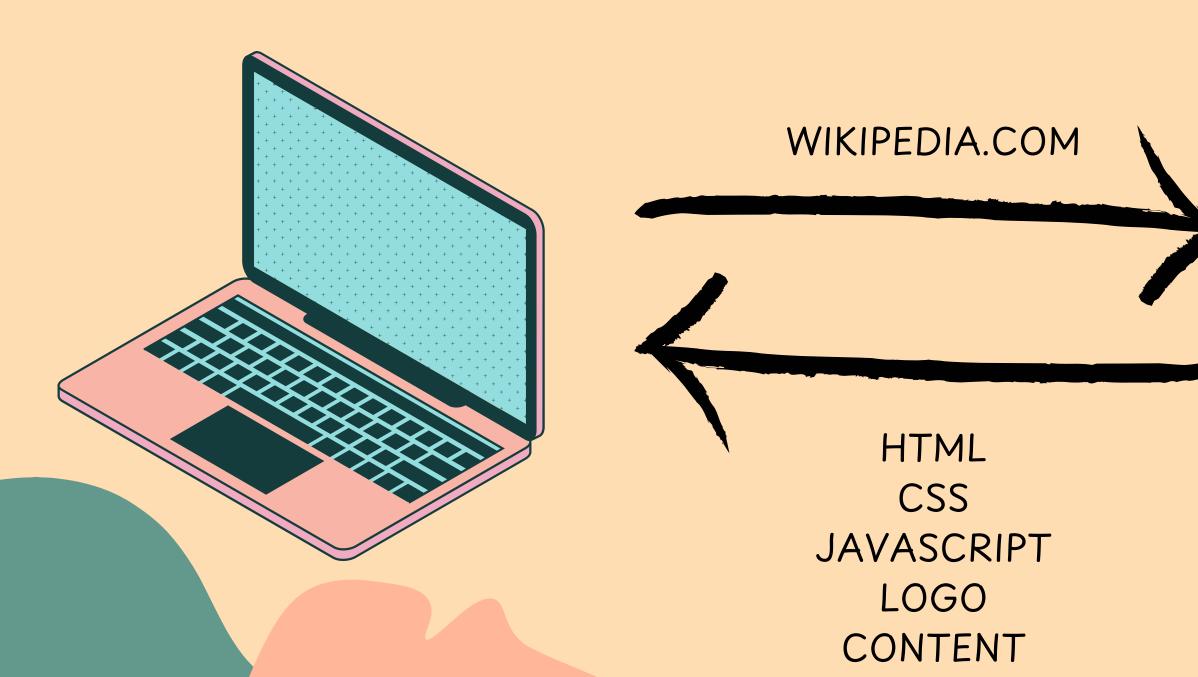
CLIENT



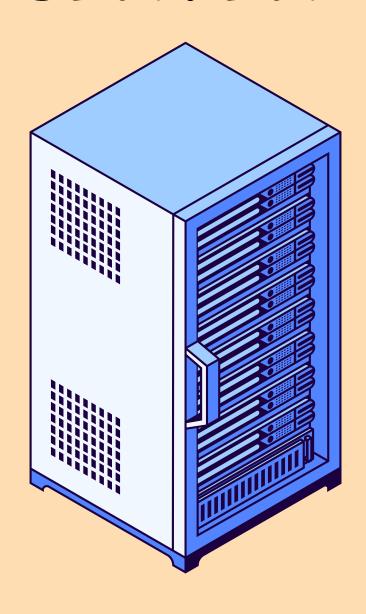
COMPUTER OR DEVICE
CONNECTED TO THE INTERNET
THAT INITIATES COMMUNICATION
BY SENDING REQUESTS TO A
SERVER.

CLIENT - SERVER MODEL

CLIENT



SERVER



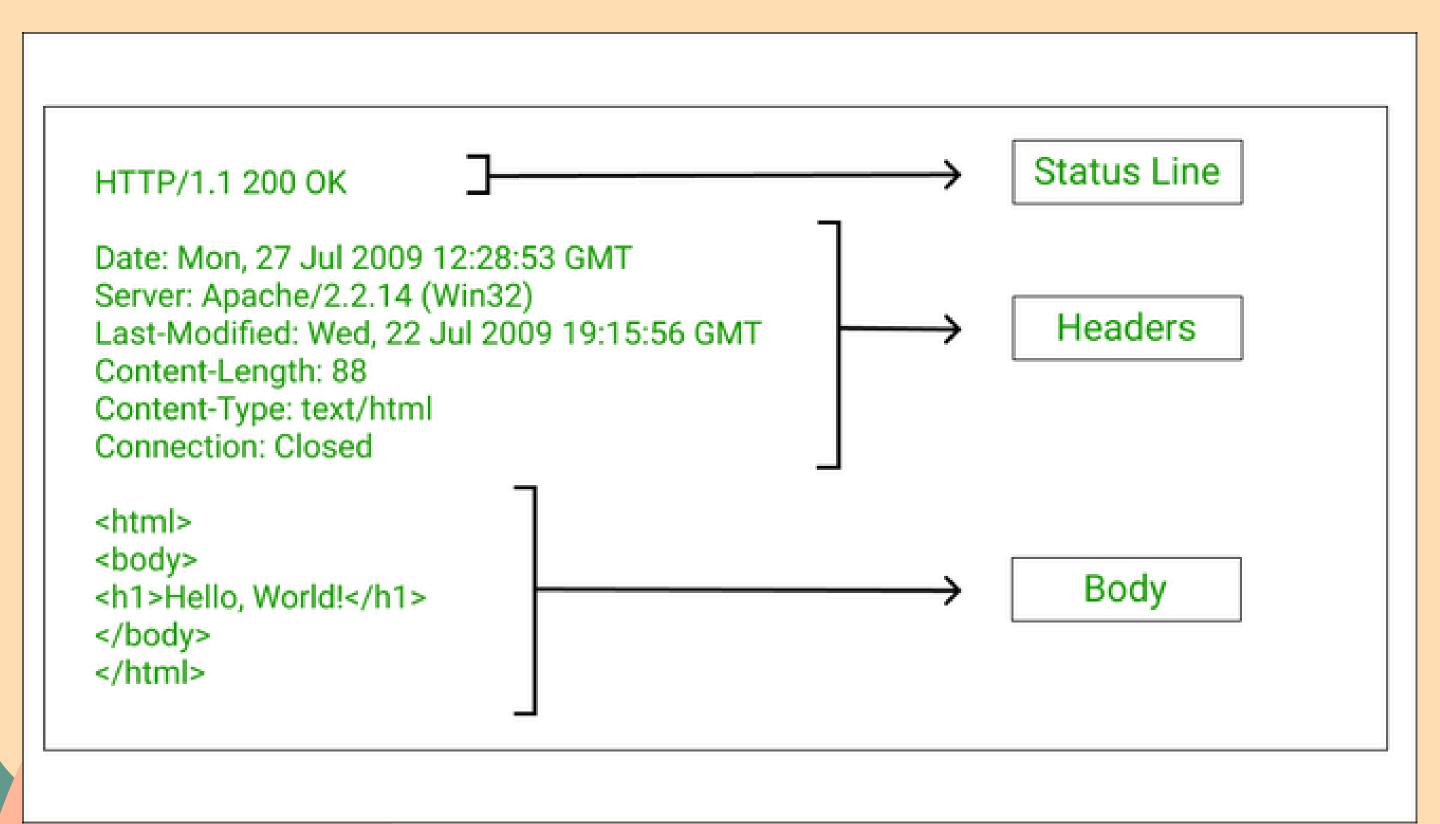
DEMO

WHAT IS HITP?



It is a protocol—a set of rules or agreements that governs how information is sent and received between a client and a server.

EXAMPLE: COMPONENTS OF AN HTTP RESPONSE



HTTP METHODS

- GET: RETRIEVE/READ DATA.
- PUT: REPLACE EXISTING DATA.
- POST: CREATE NEW DATA.
- PATCH: MODIFY EXISTING DATA.
- **DELETE:** REMOVE DATA.

DEMO

TVMAZE API

- PUBLIC OPEN API—NO ACCOUNT REQUIRED.
- READ-ONLY OPERATIONS USING GET.
- DOCUMENTATION: <u>TVMAZE API</u>.