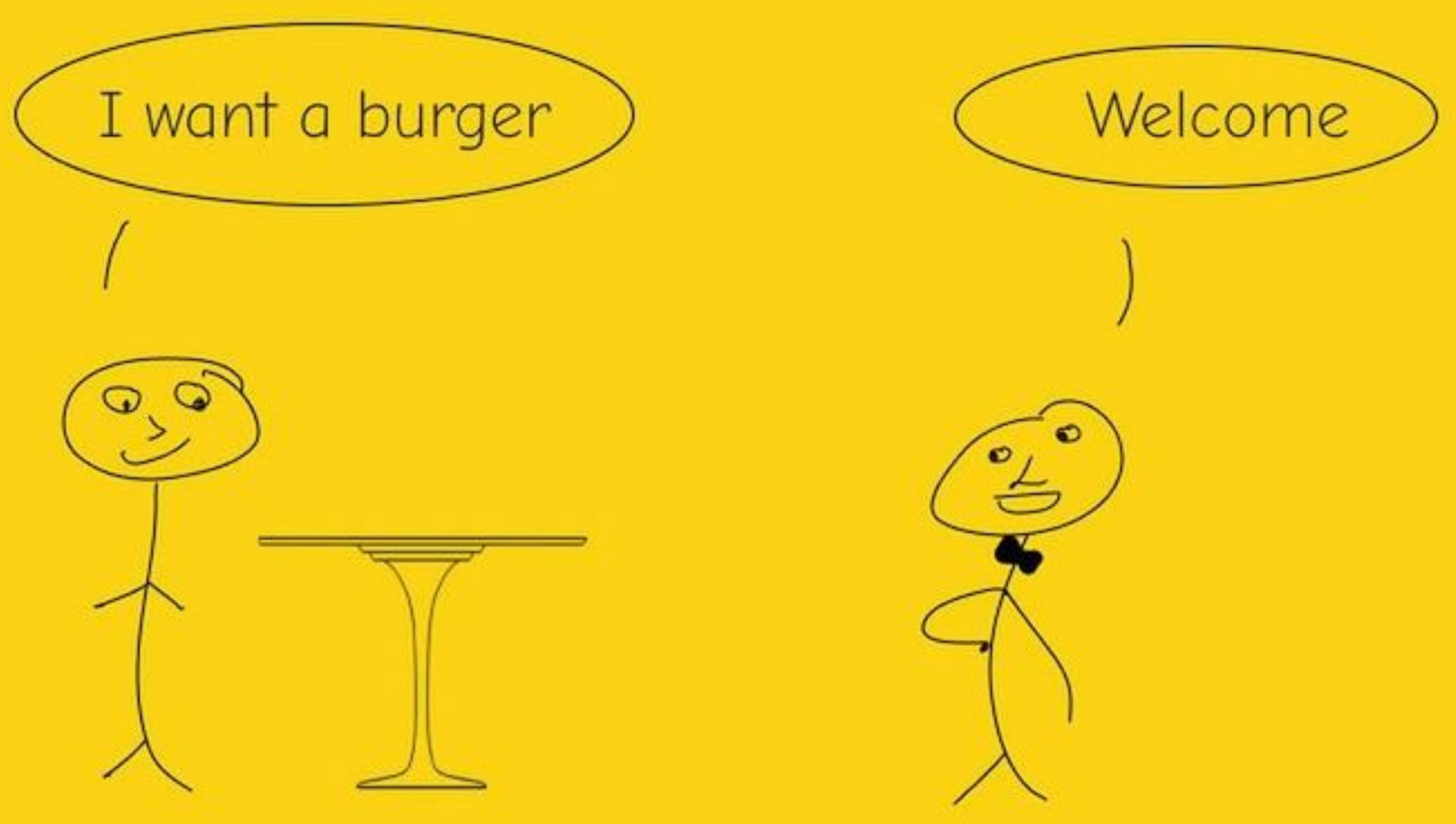
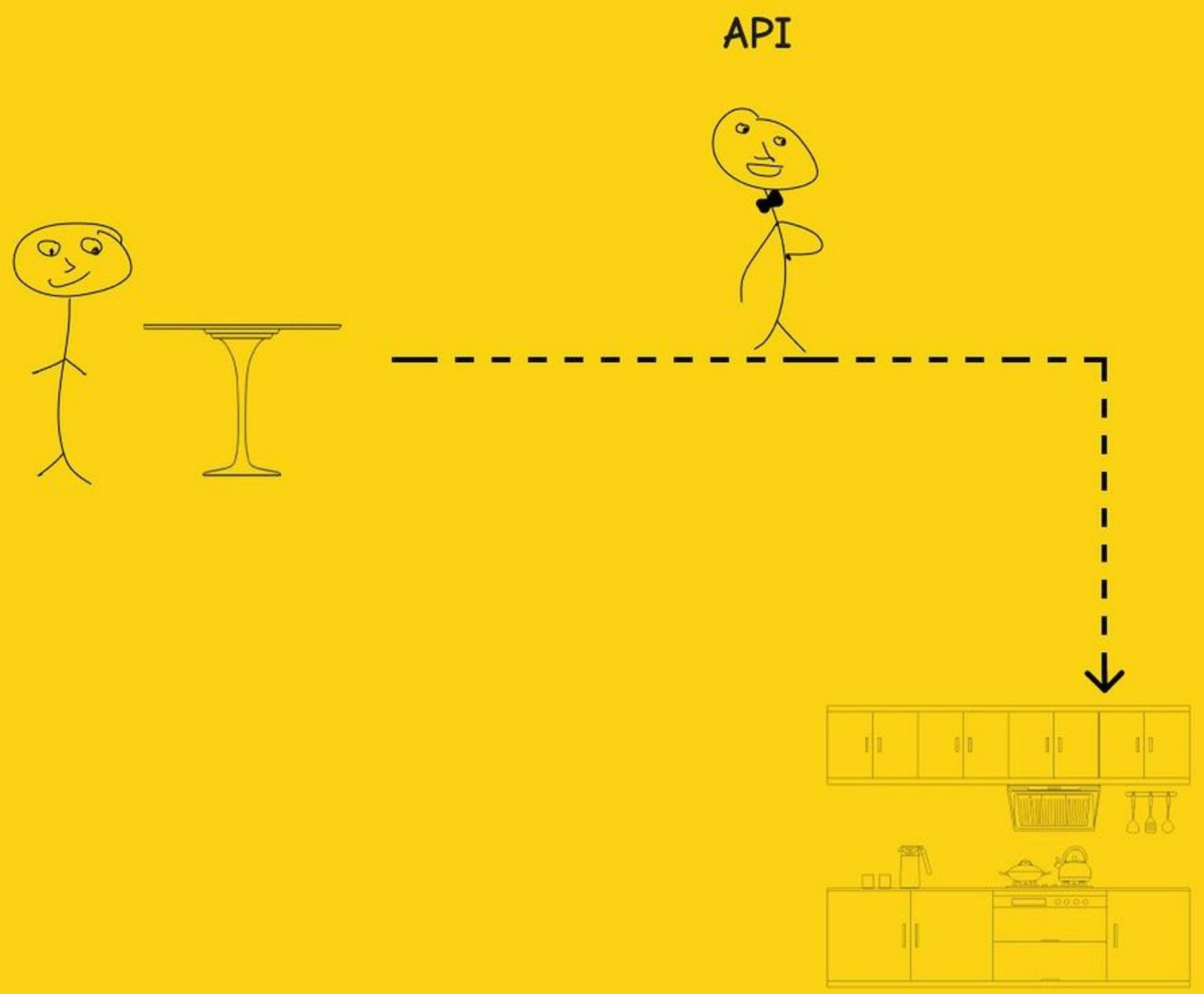
# REST API

# ANALOGY

You're in a restaurant, asking for a burger

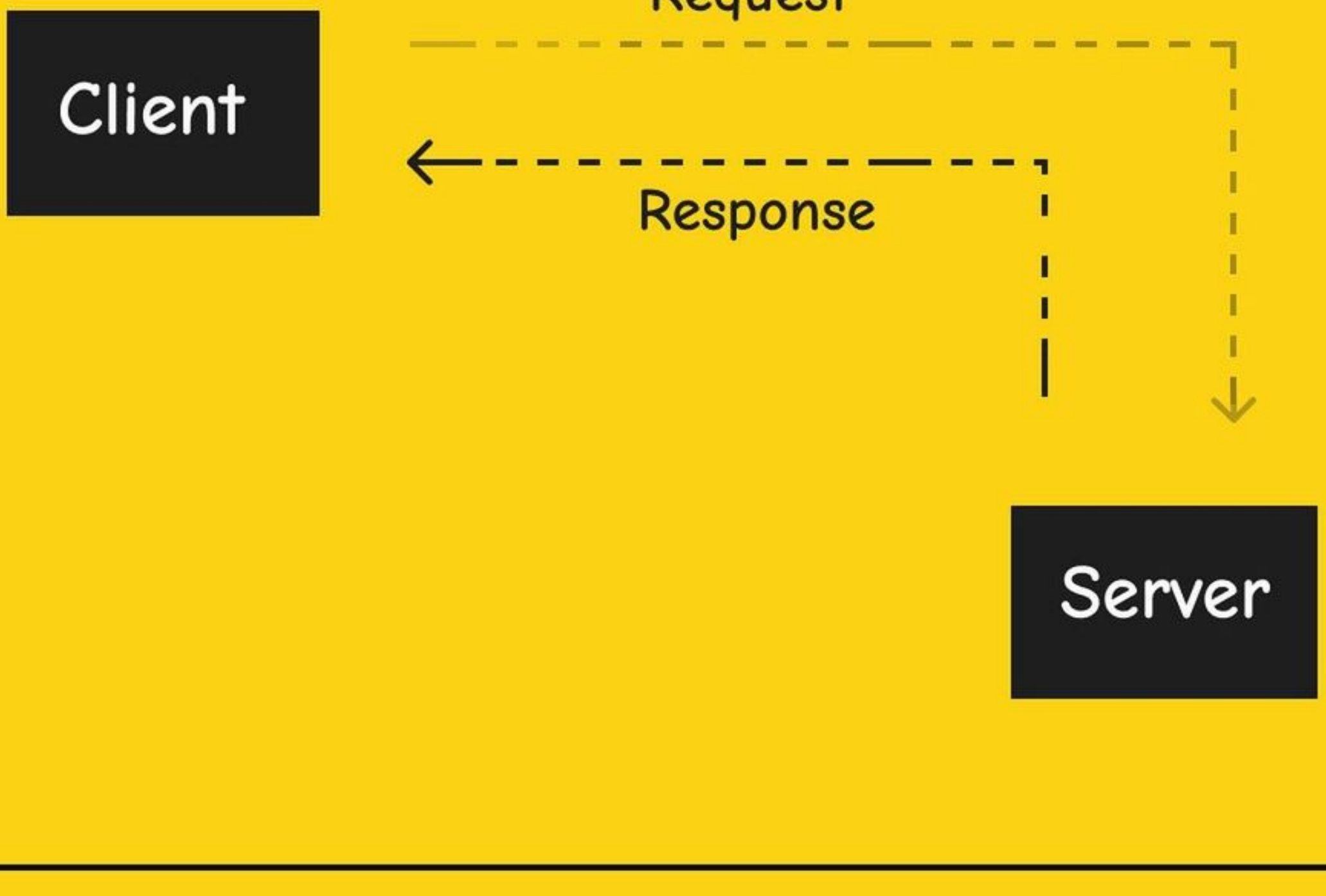


The **waiter** is like an **API** that takes your order and deliver the response



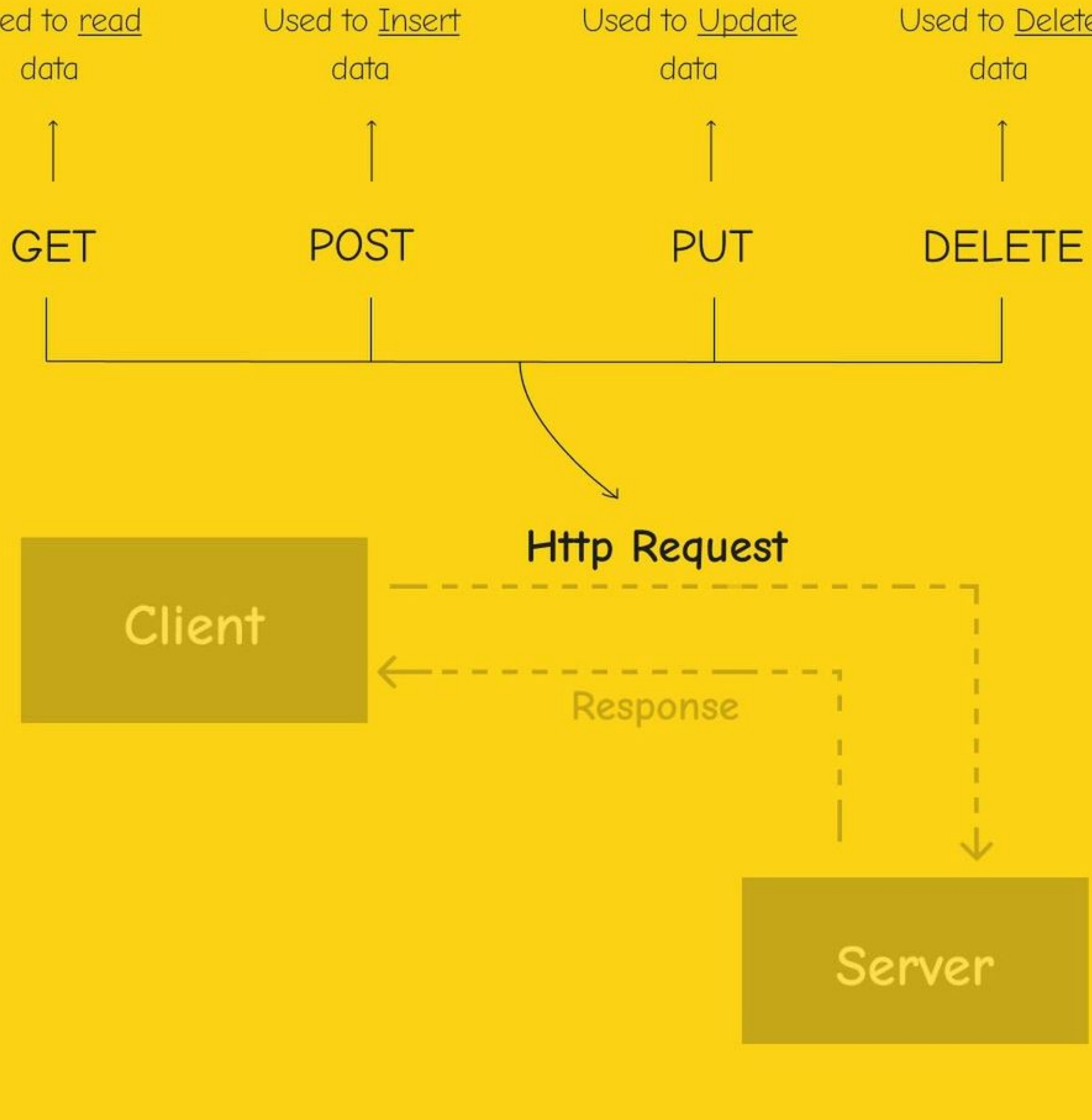
The **kitchen** act like a **server** that prepare your order.

Client (Your app) communicate with the server using **HTTP** Protocol



# HTTP METHODS

The client use 4 methods to communicate with the server



# Example of Get Request

http://restaurant.com/api/meals

↑

Called Resource

# Best Practice for better naming

## 1) Do not use verbs

| | | |
|---|---|---|
| GET | /~~getAllCars~~ | /cars |
| POST | /~~createNewCar~~ | /cars |
| DELETE | /~~deleteAllRedCars~~ | /cars |

## 2) Use plural nouns

/cars instead of /car

/users instead of /user

## 3) Use sub-resources for relations

```
GET /cars/711/drivers/  #Returns a list of drivers for car 711
GET /cars/711/drivers/4 #Returns driver #4 for car 711
```

# Best Practice for better naming

4) Filtering:

-> GET /cars?color=red Returns a list of red cars

5) Sorting:

Allow ascending and descending sorting over multiple fields.

-> GET /cars?sort=-manufactorer,+model

6) Version your API

-> /blog/api/v1

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