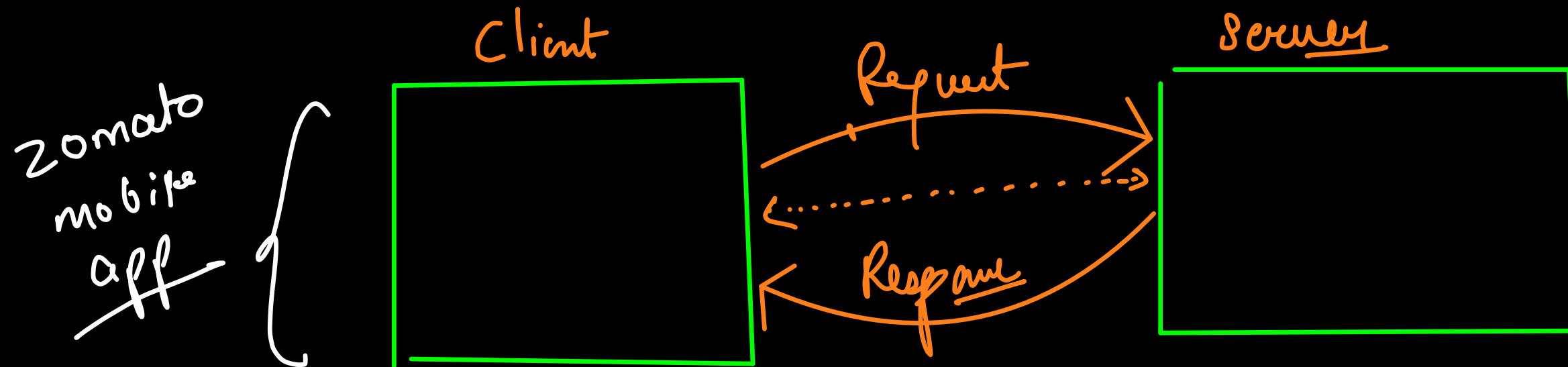


mysql | mongoDB

Client Server Architecture & REST



Browser

→ setTimeout

getElementById

⋮

API → application

Browser APIs

Programming Interface

↓
contract

what input it takes

what output it will return

what processing it will do

for Amnew ork

Library

Rest API



any api that follows the
recommendation of REST
is a Rest API

✓ Rest → Representational State Transfer

↓
a set of guidelines that drive architecture
of the web

SOAP ✓
gRPC ✓
GraphQL

rest
↑
CRUD → API
↓
create update
delete

→ Rest provides a bunch of guidelines to prepare good APIs

→ Rest prefers a client server comm. should happen over http.

→ Rest prefers JSON as the format to send & receive data.

↓
Javascript Object Notation

→ Rest gives guidelines on how the URLs should look
like

↳ In Rest the main source of info is considered
as a Resource.

Ex → Tweet → Resource

create Tweet → Action

delete Tweet → Action

Noun

User → Resource
add User → Action

verbs

↳ the endpoints/url should use Nouns & not verbs

medium.com / blogs

medium.com / blogs / 2

↳ the nouns that are mentioned are expected to be plural

↳ Every Rest endpoint should be defined along with
a HTTP method.

→ Get → retrieve data / resource

→ Post → send data, create resource

Delete → delete a resource

Put → update a resource

patch → partial update resource

/blogs

→ get

↳ retrieve data of all
the blogs

(get) [/blogs/12
/blogs/15
/blogs/:id

→ get

↳ retrieve data of blog
whose unique identifier value
is 12.

this part of the
URL can be variable

/blogs → delete
↳ delete all blogs

/blogs/:id → delete
↳ delete blog with a particular
id

/blogs → POST
↳ you want to create a blog
info is send ←
in the Req body → { }

/blogs/:id

properies to
update is
Req Body



Put/patch

↳ you want full/partial
updates on a partial blog

{ "abc": 1,
 "dy": [1,2,2]
 ...
}

• 25 cm

↳ we use nesting for relationships

don't concatenate
31 cur number

/blogs/13/comments

get

/blogs/22/comments/3

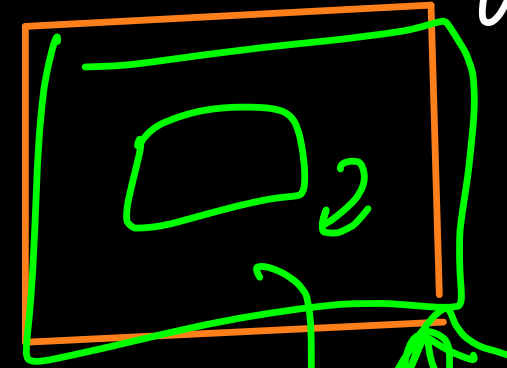
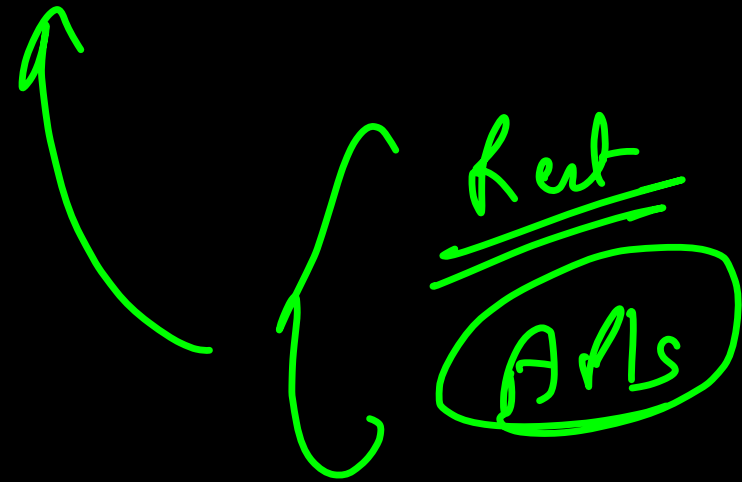
get

/blogs/10/comments

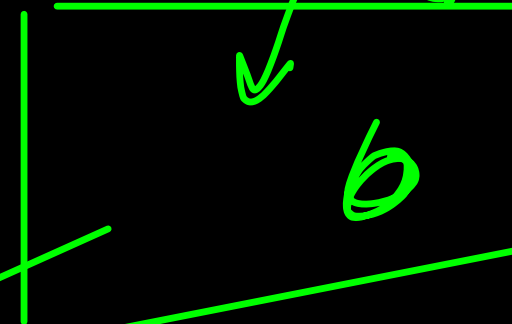
post

↳ Rest expects the response to have HTTP codes

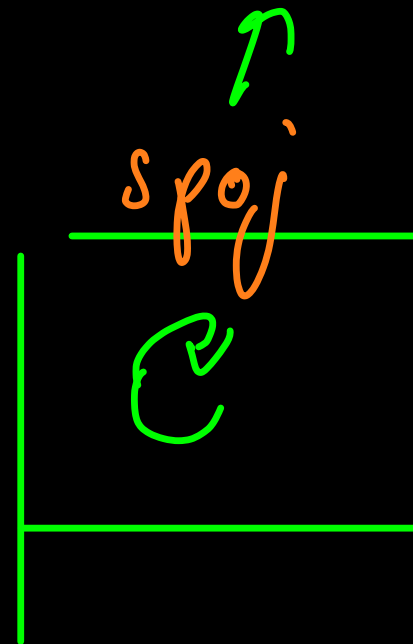
↳ versioning →



only code judge



same



spoj

1yr

/v1/submissions

Post

/v2/submissions

Post

bacteriophage

Sending data can be done in 3 ways

① Req Body  ~~programmatically~~

② URL params

③ Query params

/ products ? category = electronics & company = apple

query params

axios

foramers { Rails }
 { Django }
