

Consumindo uma API GraphQL na sua aplicação PHP

Alisson G. Chiquitto
Docente em Informática/IFMS

Perguntas?

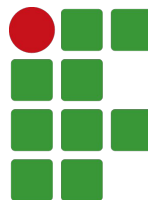


slido.com

#84485

Alisson G. Chiquitto

- Tecnólogo em Análise e Desenvolvimento de Sistemas;
- Mestre em Ciência da Computação;
- Desenvolvedor Web desde 2003;
- Docente desde 2011;
- Sou docente/coordenador de cursos técnico/superior no IFMS



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Interface



Proporciona uma ligação entre dois sistemas que não poderiam ser conectados diretamente. (Oxford Languages)

API (Application Programming Interface)

— — —



Uma interface de computador que define interações entre softwares intermediários.

REST

{ REST }

"arquitetura de software construído para servir aplicações em rede" (Wikipedia)

Interface: HTTP (Get, Post, Put, Delete, ...)

REST: Over/Under Fetching




— — —




REST: Over fetching



GET <https://api.github.com/users/torvalds>

```
{
  "login": "torvalds",
  "id": 1024025,
  "node_id": "MDQ6VXNlcjEwMjQwMjU=",
  "avatar_url": "https://avatars0.githubusercontent.com/u/1024025?v=4",
  "gravatar_id": "",
  [...],
  "name": "Linus Torvalds",
  "company": "Linux Foundation",
  "blog": "",
  "location": "Portland, OR",
  "email": null,
  "hireable": null,
  "bio": null,
  "twitter_username": null,
  "public_repos": 6,
  "public_gists": 0,
  "followers": 119517,
  [...],
}
```





Linus Torvalds
torvalds

 120k followers · 0 following ·  2

Follow

...

Overview




Repositories 6

Projects

Popular repositories

linux

Linux kernel source tree

 C  95.7k  32.9k

uemacs




Random version of microemacs with my private modifications


REST: Under fetching

— — —

GET <https://api.github.com/users/torvalds>

GET <https://api.github.com/users/torvalds/repos>





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● C ☆ 95.7k 🍴 32.9k

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REST: versionamento

— — —

<http://api.example.com/v2/products>

<http://api.example.com/products/v2>

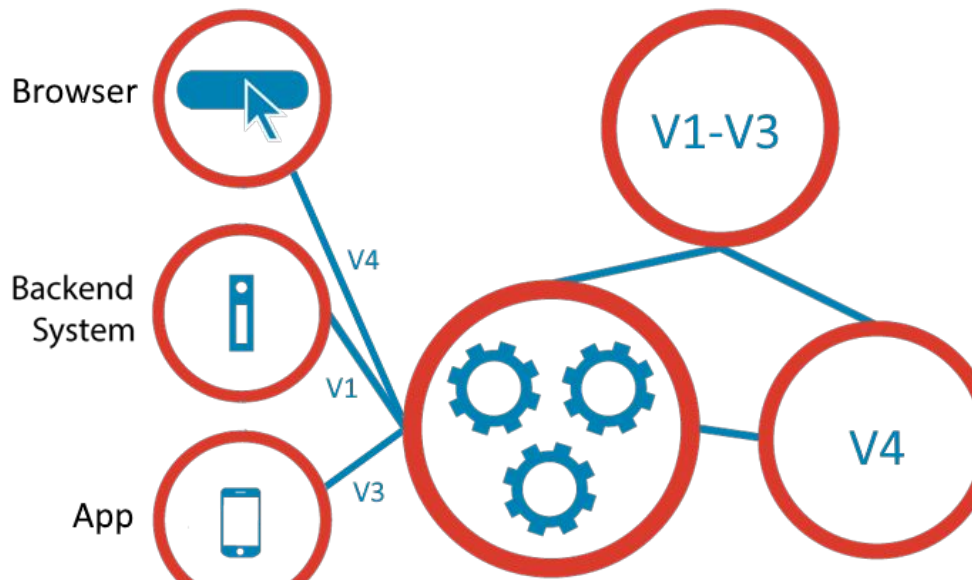
<http://api.example.com/products?v=2>

<http://api.example.com/products>

X-API-Version:2

<http://api.example.com/products>

Accepts:application/vnd.example.v2+json



REST: versionamento

— — —

<http://api.example.com/site/products>

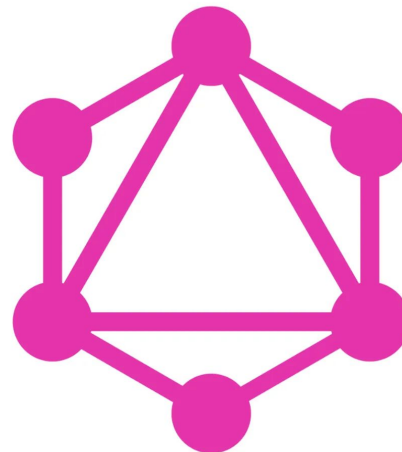
<http://api.example.com/app/products>



GraphQL

"A query language for your API"

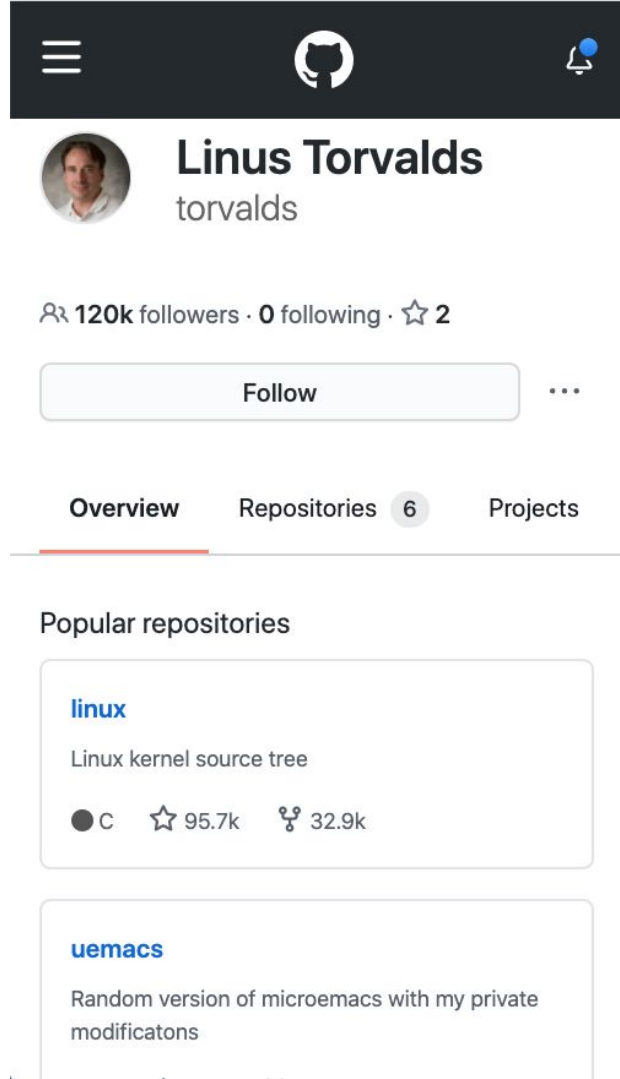
- Over/Under Fetching
- Versionamento
- Schemas






GraphQL: Fetching


Endpoint: <https://api.github.com/graphql>

```
query consulta {  
  user(login: "torvalds") {  
    avatarUrl, name, company, url,  
    followers { totalCount }  
    repositories(last:10) {  
      totalCount,  
      nodes { name, description }  
    }  
  }  
}
```



The screenshot shows the GitHub profile of Linus Torvalds. At the top, there's a dark header with the GitHub logo and a notification bell. Below the header, the profile section includes a circular profile picture of Linus Torvalds, his name "Linus Torvalds", and his username "torvalds". To the right of the name, it says "120k followers · 0 following · 2 stars". Below this is a "Follow" button and a three-dot menu. The profile tabs are "Overview" (selected), "Repositories" (6), and "Projects". Under the "Overview" tab, the "Popular repositories" section is visible, showing two repositories: "linux" (Linux kernel source tree) and "uemacs" (Random version of microemacs with my private modifications). Each repository entry includes a language icon (C for linux, Objective-C for uemacs), a star count (95.7k for linux, 32.9k for uemacs), and a fork count (32.9k for linux, 32.9k for uemacs).



**Linus Torvalds**
torvalds

👤 120k followers · 0 following · ☆ 2

Follow ...

Overview Repositories 6 Projects

Popular repositories

linux
Linux kernel source tree
● C ☆ 95.7k 🍴 32.9k

uemacs
Random version of microemacs with my private modifications

GraphQL: Schemas

```
type Query {  
  marcas: [Marca!]!  
  marca(idMarca: Int!): Marca  
  
  veiculos(  
    first: Int = 10  
    page: Int  
  ): [Veiculo!]!  
  veiculo(idVeiculo: Int!): Veiculo  
}
```

```
type Veiculo {  
  idVeiculo: ID!  
  placa: String!  
  modelo: String!  
  ano: Int!  
  image: String  
  marca: Marca!  
}  
  
type Marca {  
  idMarca: ID!  
  marca: String!  
  veiculos: [Veiculo!]!  
}
```

Coding: GraphQL + HTTP

GraphQL: Requests

— — —

- POST
- Content-Type: application/json
- Body: JSON conforme exemplo

```
{  
  "query": "...",  
  "operationName": "...",  
  "variables": { "myVariable": "someValue", ... }  
}
```

Coding: PHP ...

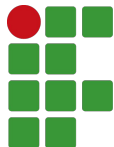
Obrigado!!

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<https://github.com/chiquitto>

<https://gist.github.com/chiquitto/e5f7e7488e922d01dc68ecd45218f943>



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