

GraphQL



What is GraphQL?

REST API

Stateless, client-independent API for exchanging data



GraphQL API

Stateless, client-independent API for exchanging data with higher query flexibility

REST API limitations

GET /post

Fetch Post

```
{  
  id: '1',  
  title: 'First Post',  
  content: ' ... ',  
  creator: { ... }  
}
```

What if we only need the title and id?

REST API limitations

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Fetch Post

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What if we only need the title and id?

Solution 1

Create a new REST API Endpoint (e.g. GET /post-slim)

Problem: Lots and lots of Endpoints & lots of Updating

Solution 2

Use Query Parameters (e.g. GET /post?data=slim)

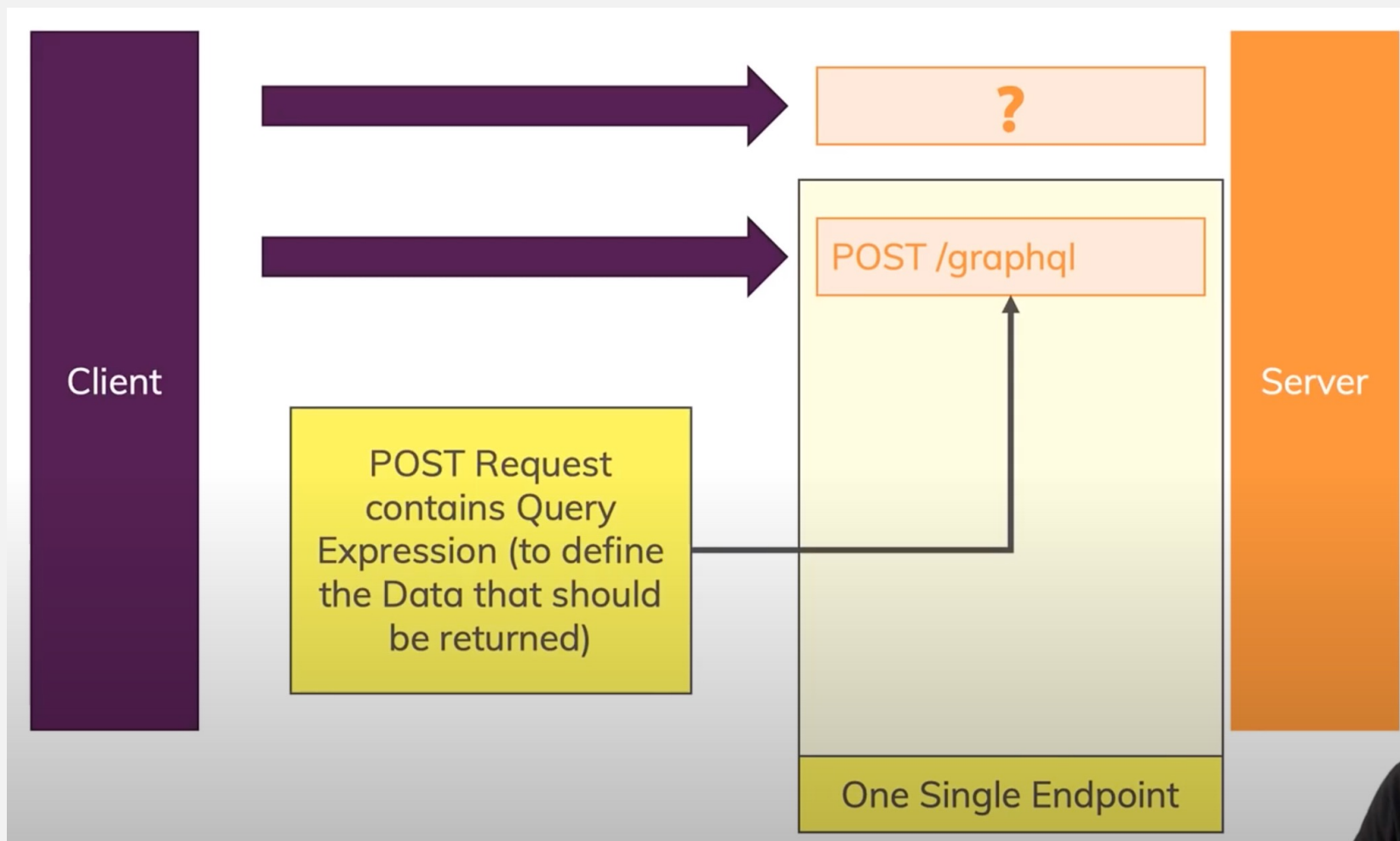
Problem: API becomes hard to understand

Solution 3

Use GraphQL!

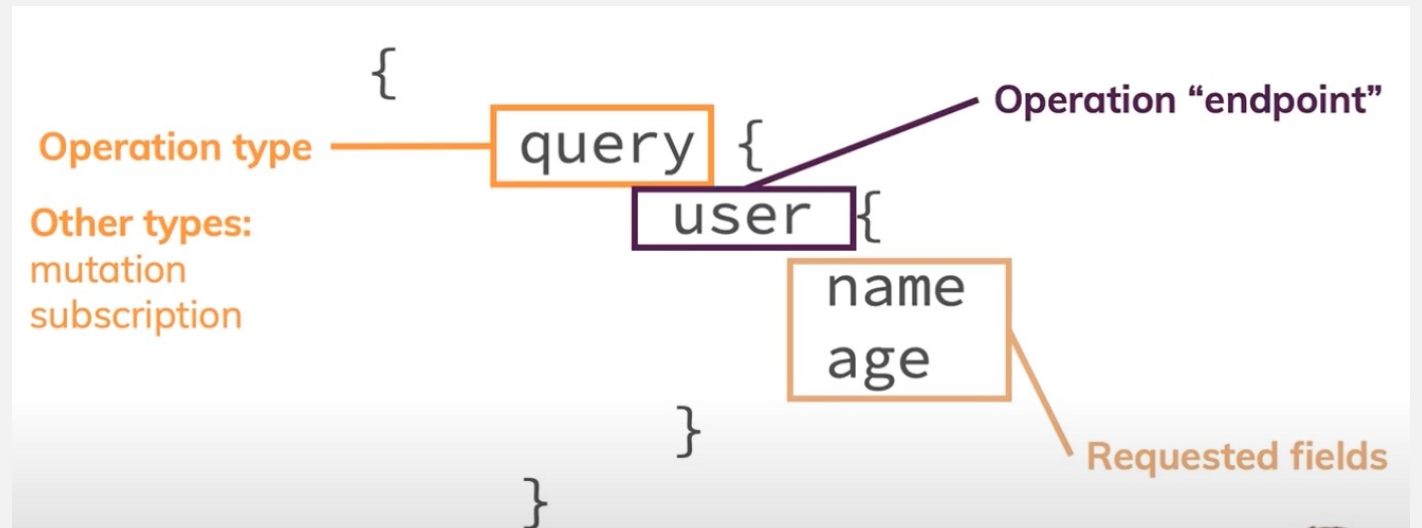
Problem: None

How does GraphQL works?



A GraphQL query

```
{  
  query {  
    user {  
      name  
      age  
    }  
  }  
}
```



Operations Types

