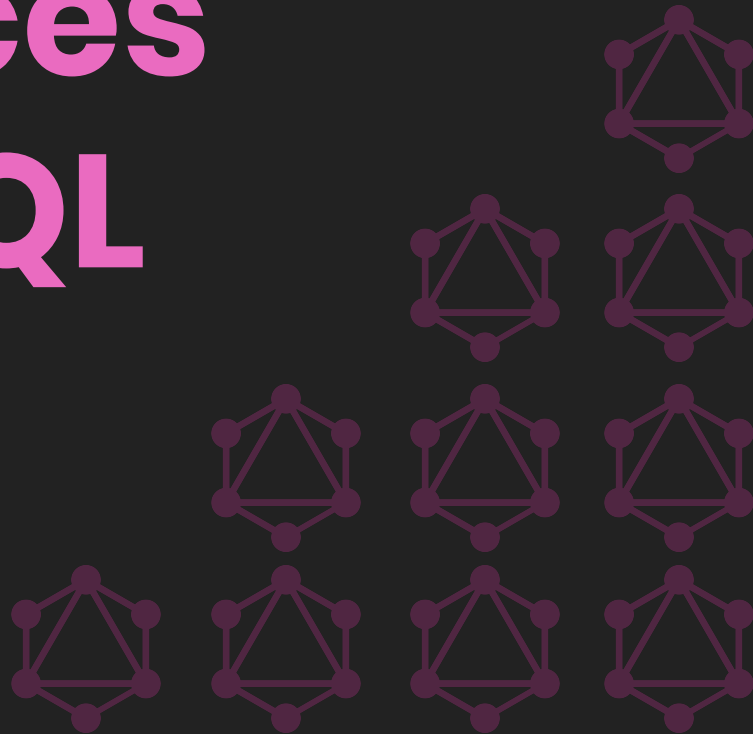


Realtime and microservices with GraphQL





Luis Emilio Velasco



@emibloque

Backend developer



the cocktail



Welcome to
InstaPenguin

charlotte



123 likes

charlotte Hey there!

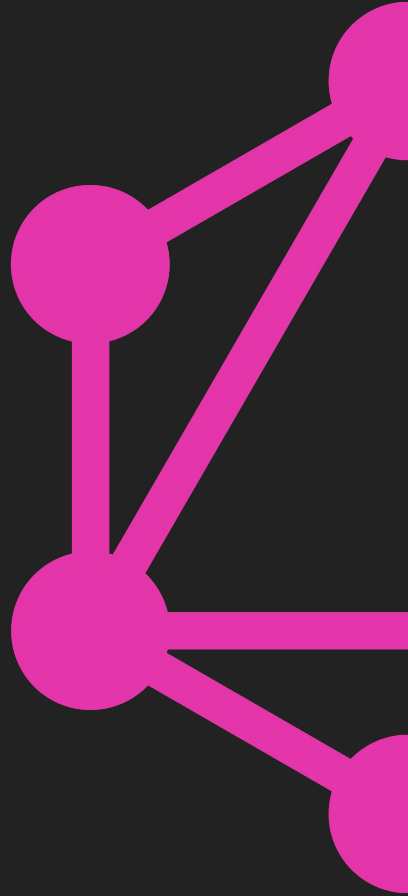
laosemat Sunrises are always beautiful.

quentin Nice shot 🔥

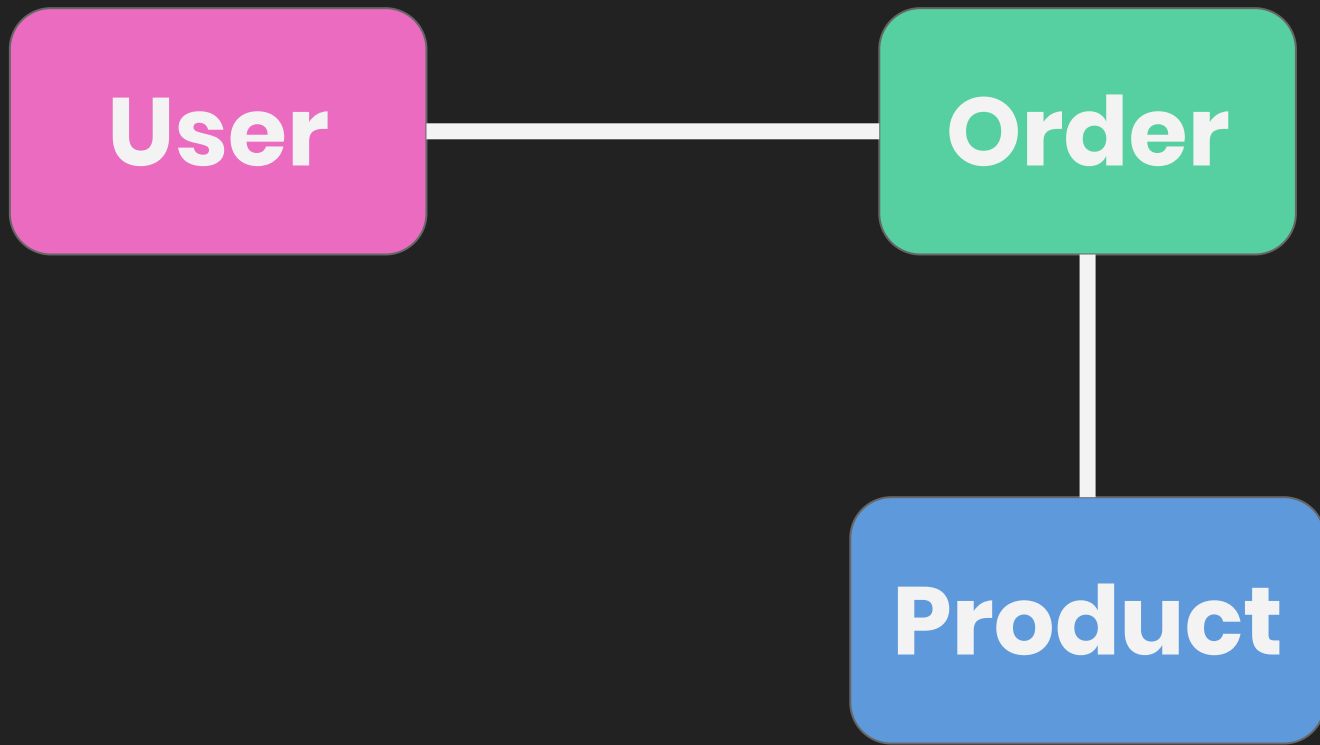
kevin

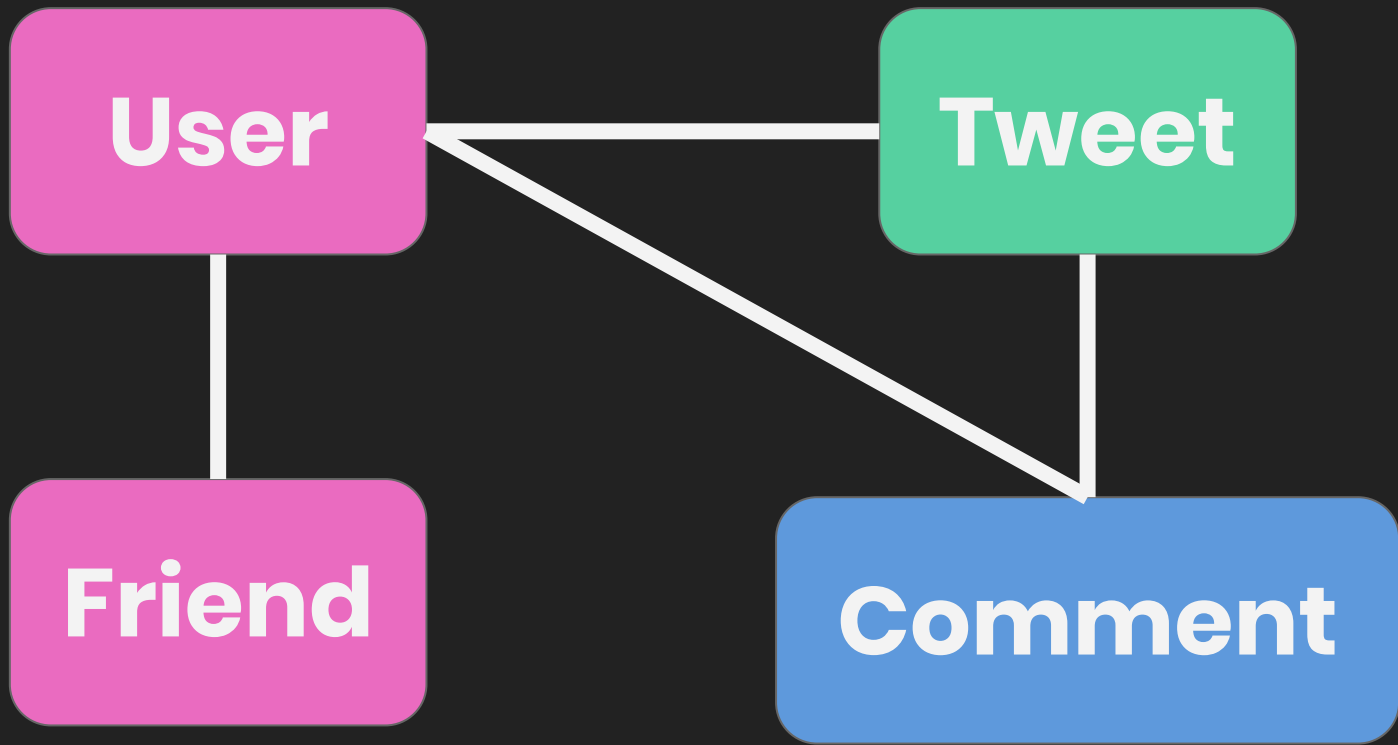


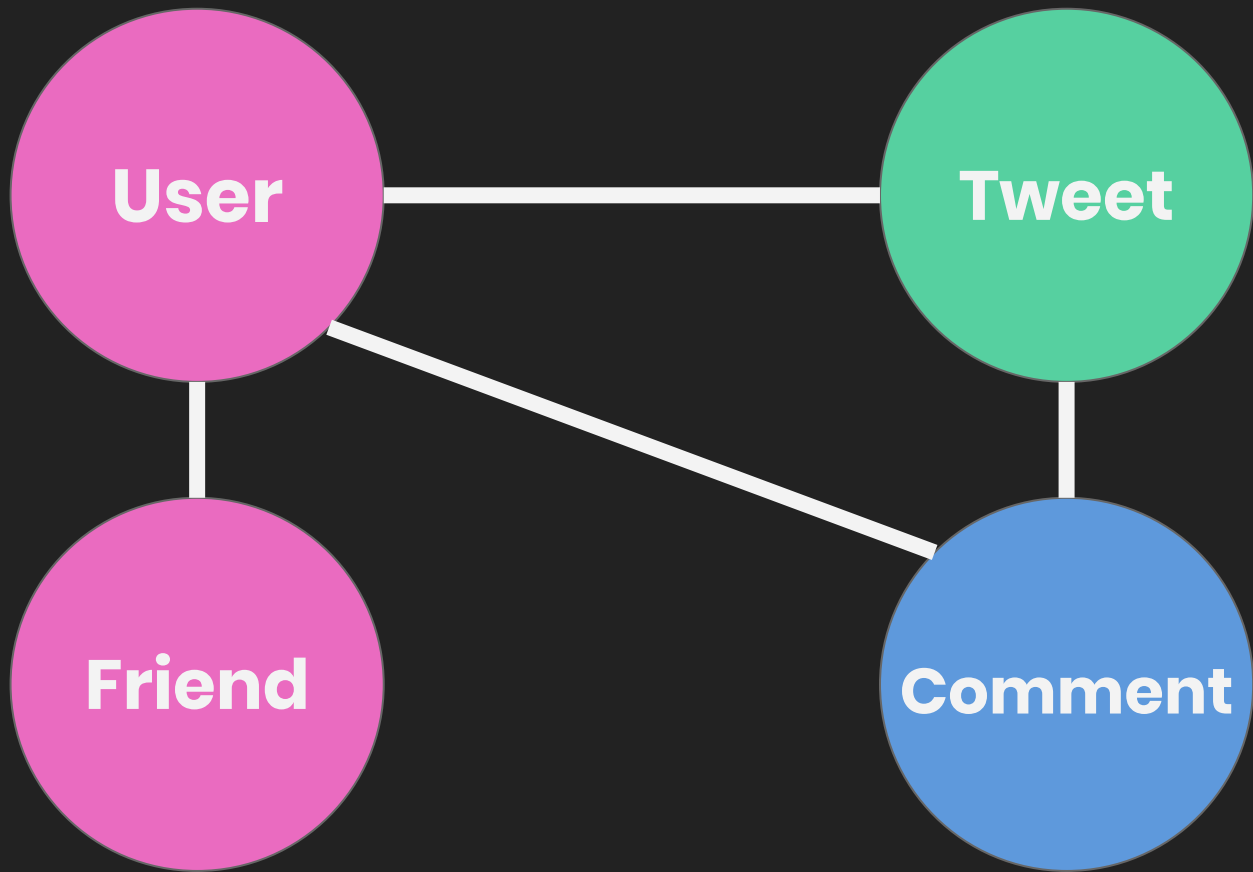
Introduction to GraphQL

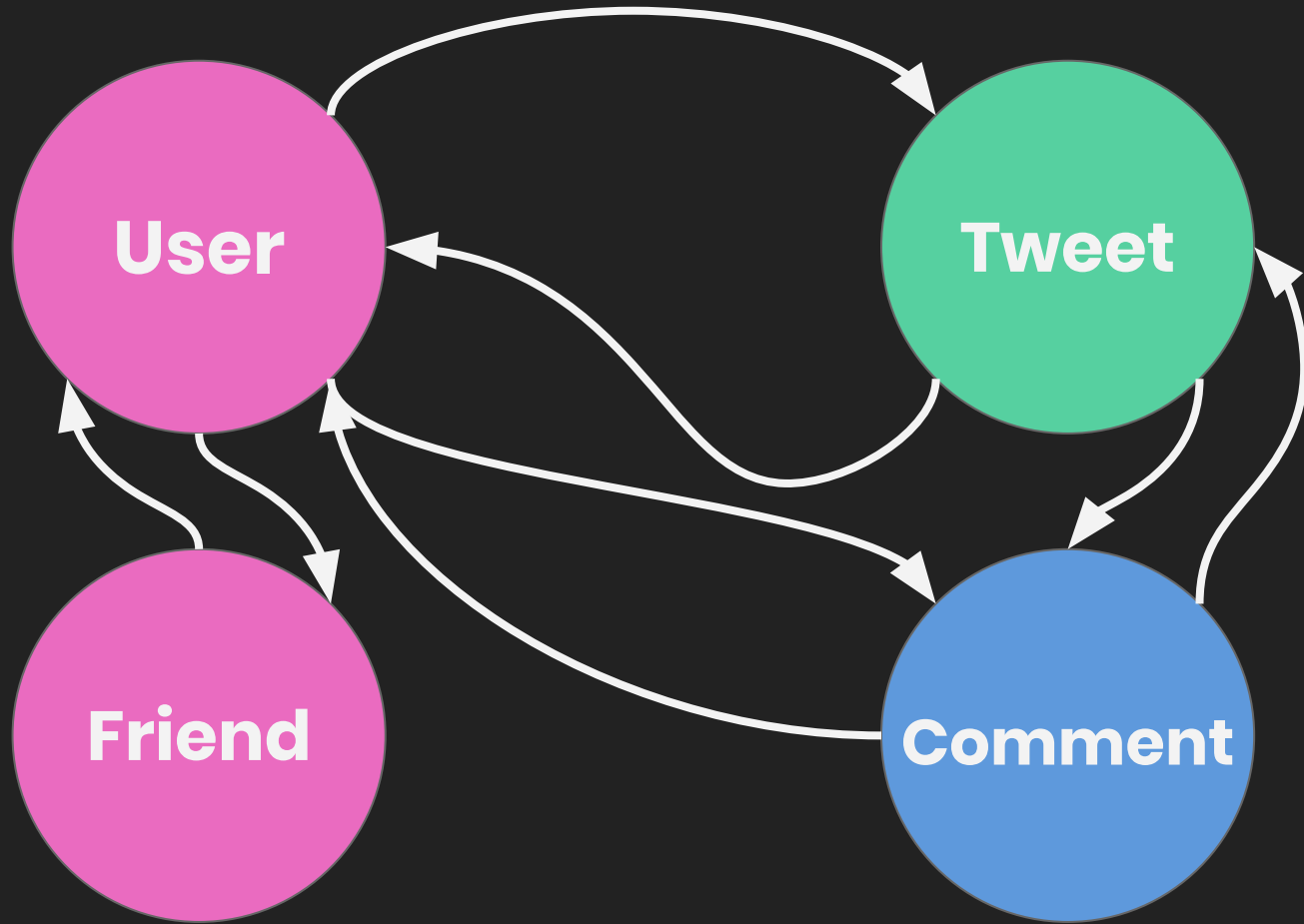


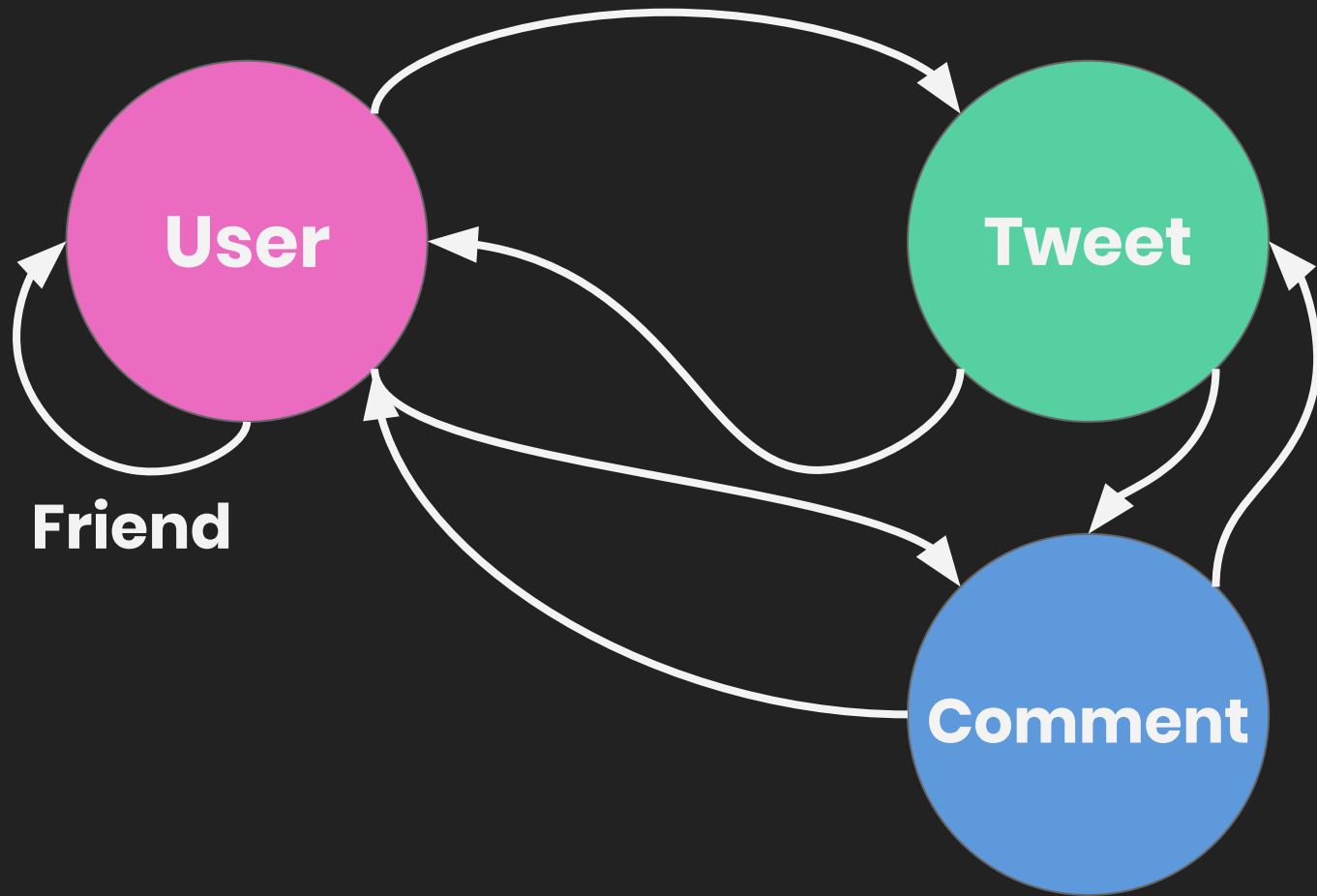
Graph Query Language

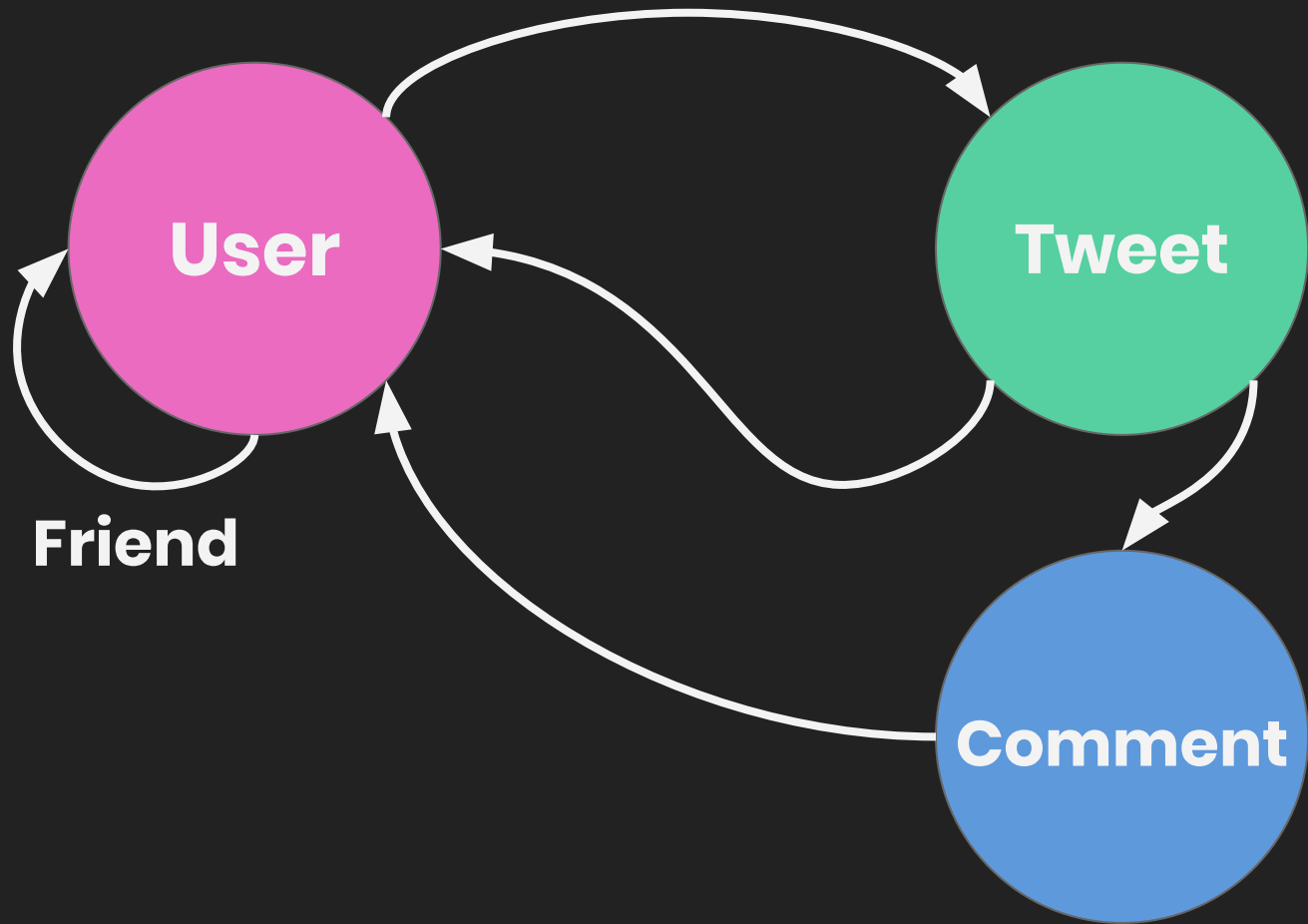












Graph at InstaPenguin

charlotte



123 likes

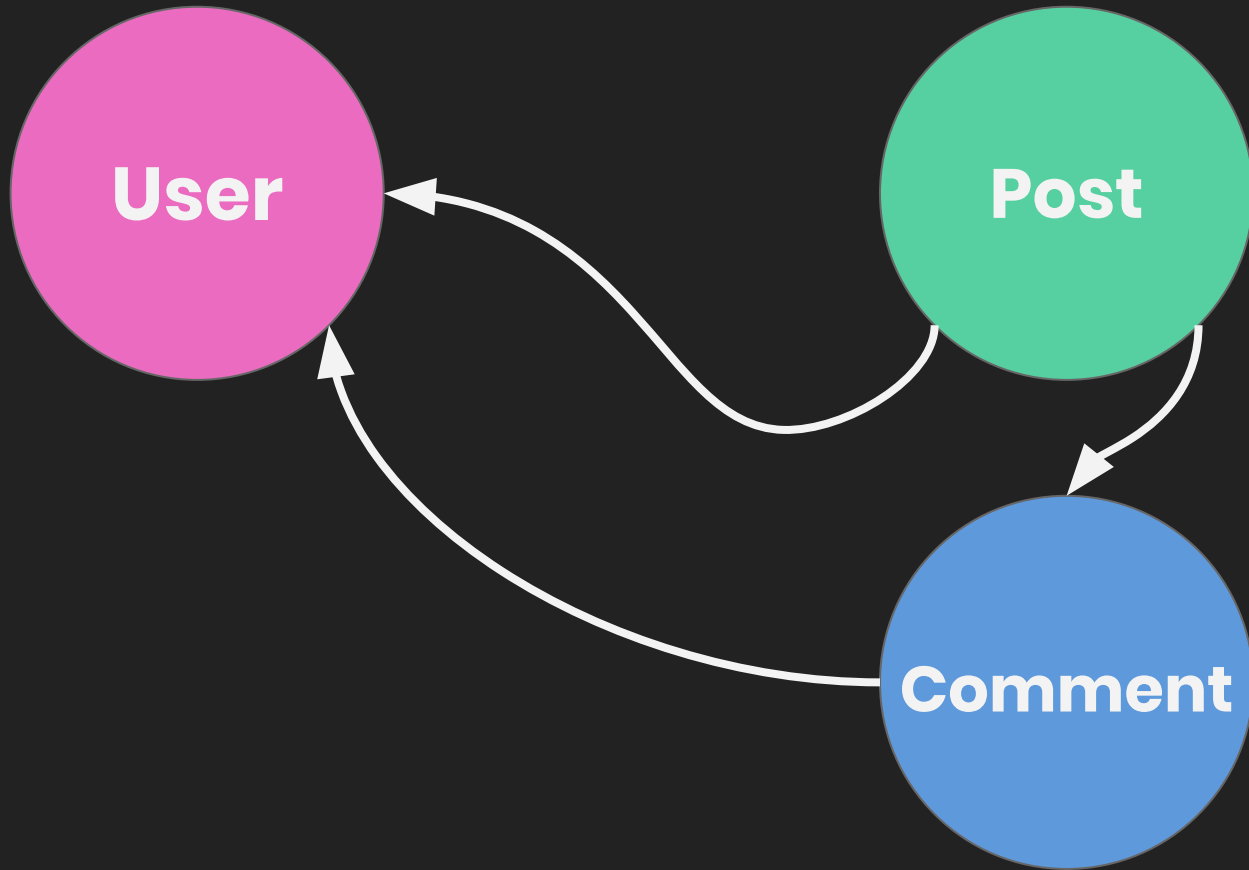
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kevin

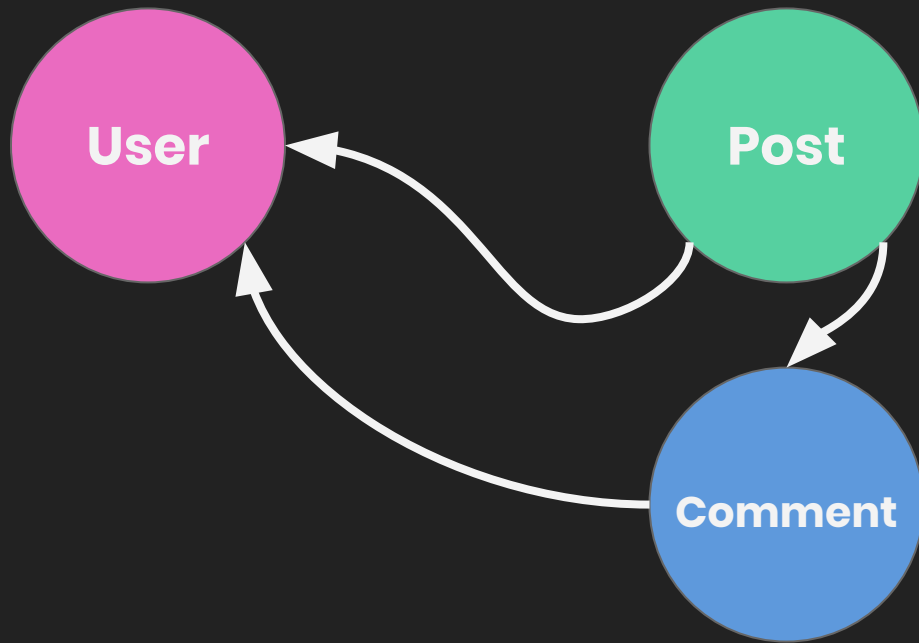




Query

CRUD

```
query {  
  posts {  
    id  
    image  
    likes  
    author {  
      name  
    }  
    comments {  
      text  
      author {  
        name  
      }  
    }  
  }  
}
```



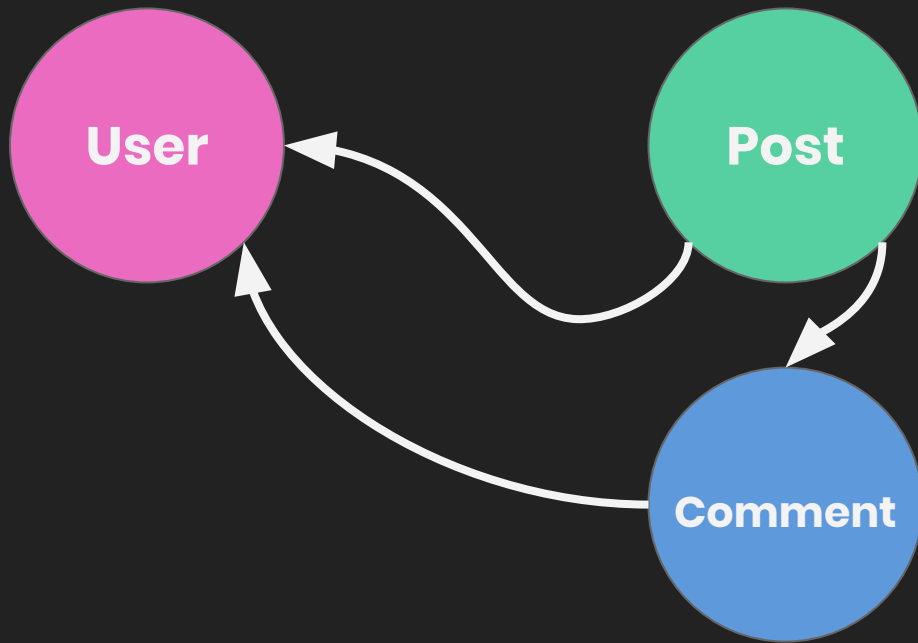
```
query {  
  posts {  
    id  
    image  
    likes  
    author {  
      name  
    }  
    comments {  
      text  
      author {  
        name  
      }  
    }  
  }  
}
```



```
{  
  "data": {  
    "posts": [  
      {  
        "id": 123,  
        "image": "/image.jpg",  
        "likes": 10,  
        "author": {  
          "name": "Kevin"  
        },  
        "comments": [  
          {  
            "text": "Nice!!",  
            "author": {  
              "name": "Charlotte"  
            }  
          },  
          {  
            "text": "👍",  
            "author": {  
              "name": "Kevin"  
            }  
          }  
        ]  
      }  
    ]  
  }  
}
```



```
query {  
  posts {  
    id  
    likes  
    comments {  
      id  
    }  
  }  
}
```



/graphql



```
query {  
  posts {  
    id  
    likes  
    comments {  
      id  
    }  
  }  
}
```

/graphql



```
query {  
  posts {  
    id  
    likes  
    comments {  
      id  
    }  
  }  
}
```



```
query {  
  posts {  
    id  
    likes  
    comments {  
      id  
      text  
      author {  
        name  
      }  
    }  
  }  
}
```

/graphql

```
query {  
  posts {  
    id  
    likes  
    comments {  
      id  
    }  
  }  
}
```



```
query {  
  posts {  
    id  
    likes  
    comments {  
      id  
      text  
      author {  
        name  
      }  
    }  
  }  
}
```



/posts

/post/10/comments/23

Mutation

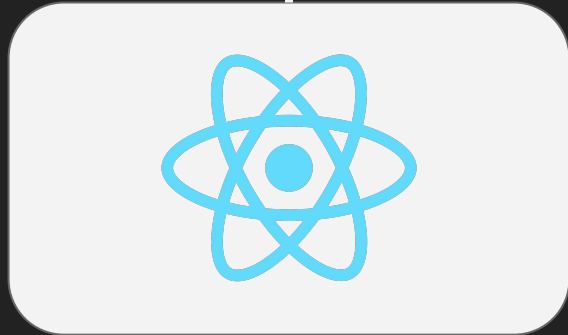
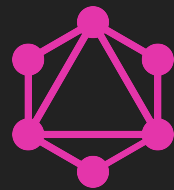
CRUD



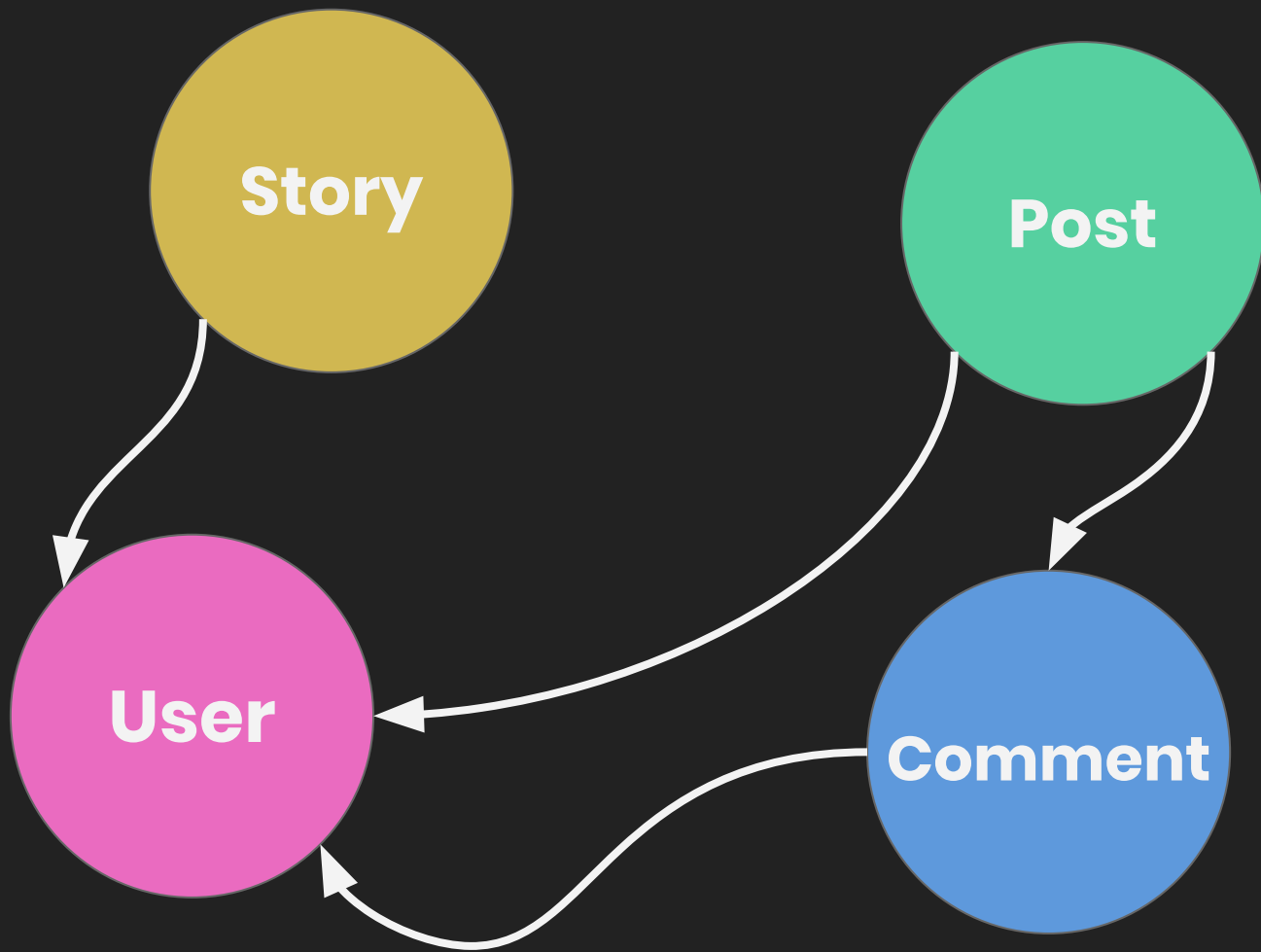
```
mutation {  
  addLike(post: 10) {  
    id  
    likes  
    comments {  
      text  
    }  
  }  
}
```

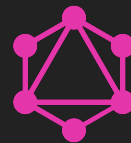
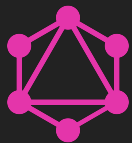
DEMO

<https://github.com/emibloque/graphql-realtime>



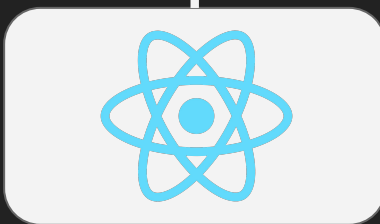
The way to Microservices





stories

posts



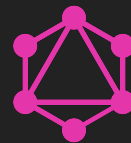
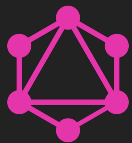
DEMO

Negroni

<https://github.com/the-cocktail/negroni>

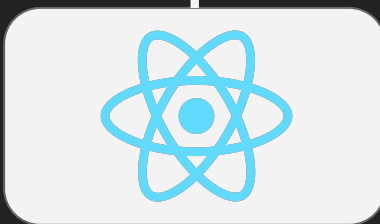


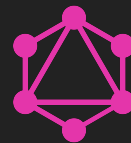
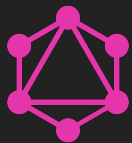
the cocktail



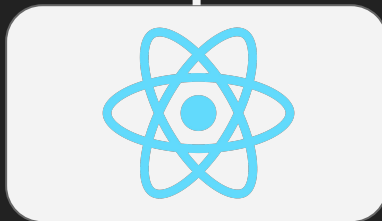
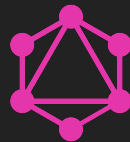
stories

posts





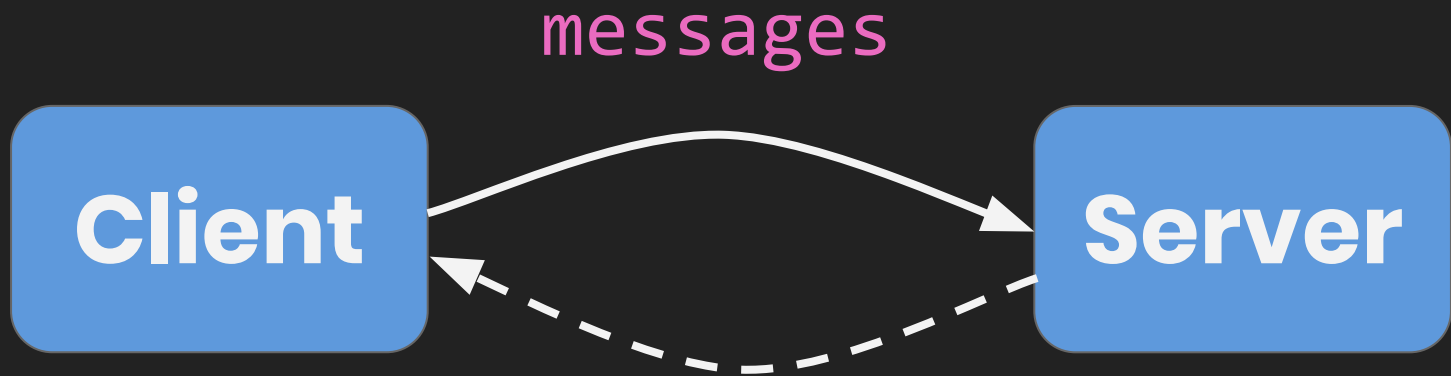
posts
stories



DEMO

GraphQL
isn't bind to
HTTP





GraphQL over WebSockets

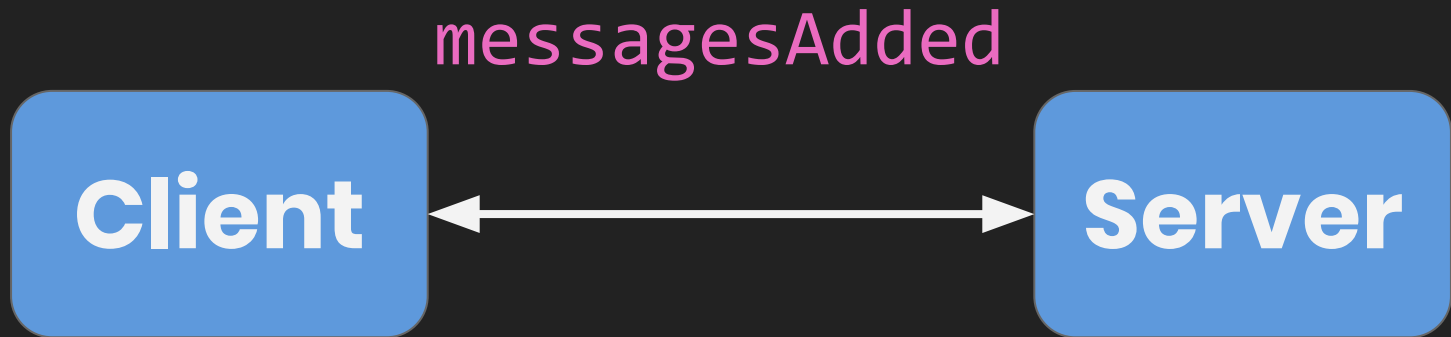
Subscription

CRUD



```
subscription {  
  messagesAdded {  
    text  
    timestamp  
  }  
}
```



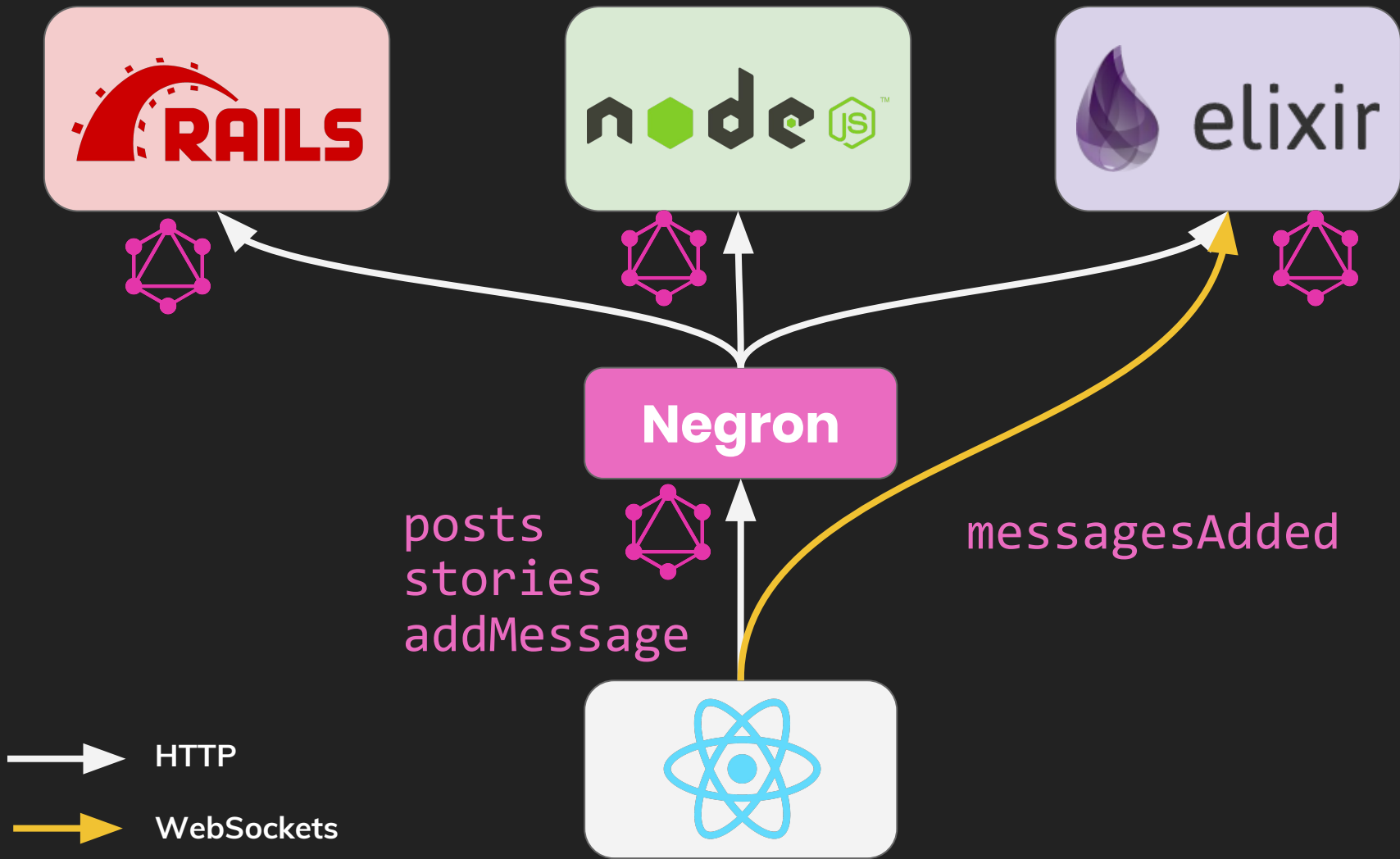




```
mutation {  
  addMessage(text: "hey") {  
    text  
    timestamp  
  }  
}
```



```
subscription {  
  messagesAdded {  
    text  
    timestamp  
  }  
}
```



DEMO

Thanks!

<https://github.com/emibloque/graphql-realtime>

<https://github.com/the-cocktail/negroni>



@emibloque



the cocktail