Lec 4 -Architecture

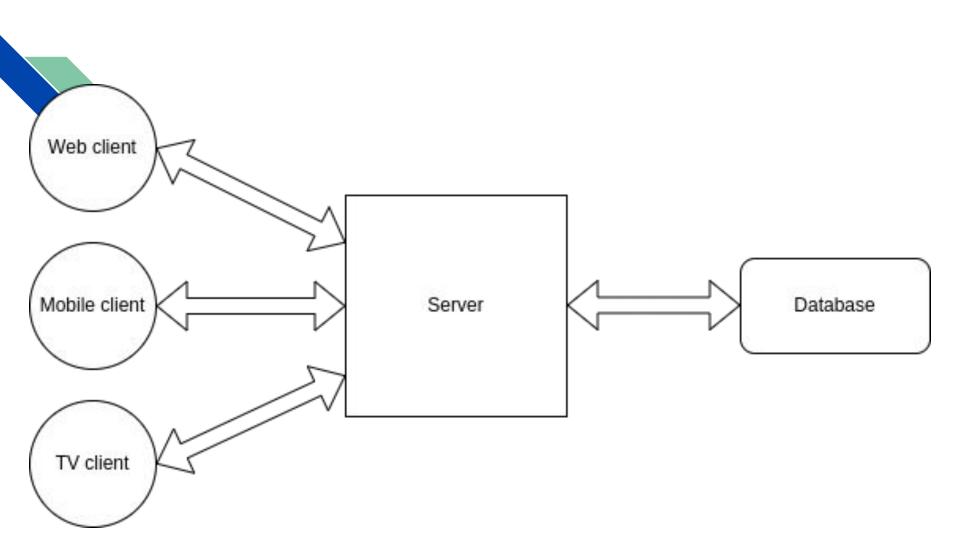
Decisions decisions

- Rest or graphQL? Django or Express?
 React or Angular?
- Monolith or microservices?
- Cloud provider or managed services?

Client-server/API?

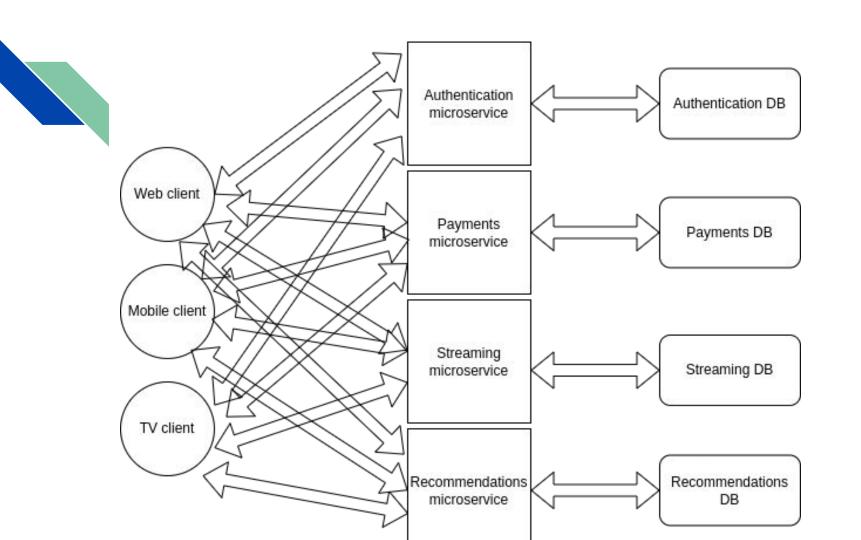
- Application Programming Interface
- Think of it like a contract
- Can be FE to BE, or BE to other services

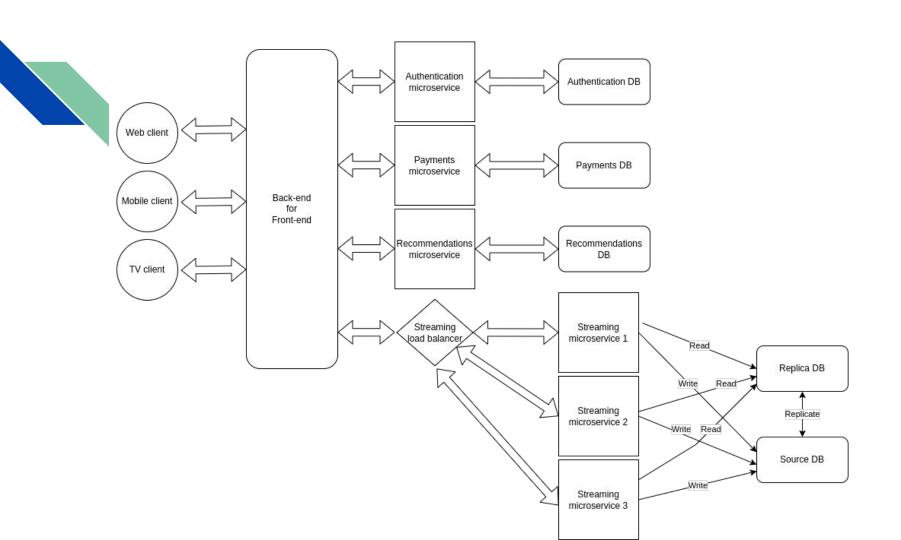
Live Example



Microservices

- As you scale (both app and team), you might run into bottlenecks
- Microservices is one of the main ways of dealing with it





MVC

- Model View Controller
- View -> Model
- View -> Controller -> Model
- Abstraction for better organization

MVVM

- Model View View Model
- How to keep data in sync with GUI, key: data binding

Declarative?

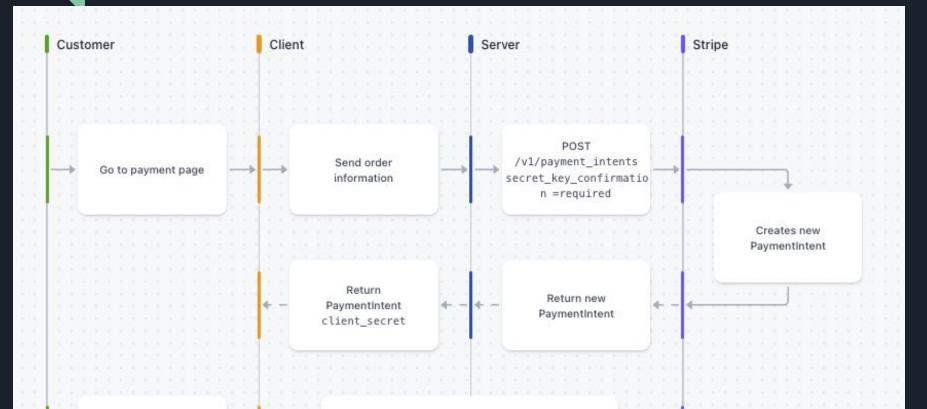
```
nav a:hover {
         background-color: red;
}
```

```
el.onmouseover = function () {
        this.style.backgroundColor = 'red'
}
el.onmouseout = function () {
        this.style.backgroundColor = '';
}
```

CRC diagram

- Refresher from CSC207
- Class Responsibility Collaborators
- What the class does and how does each relate to others

Sequence Diagram



Database Diagram

