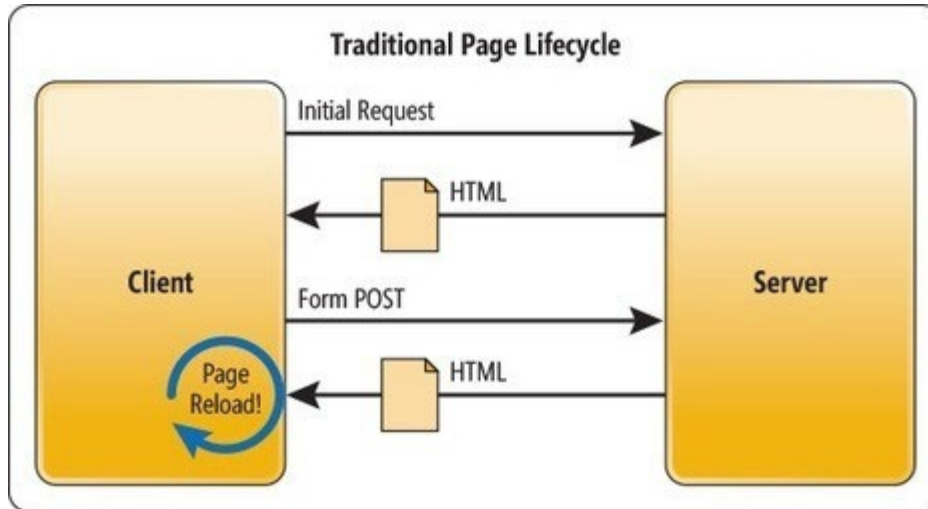


Web e pattern architettonici

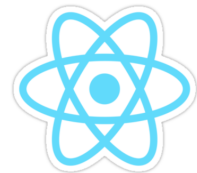
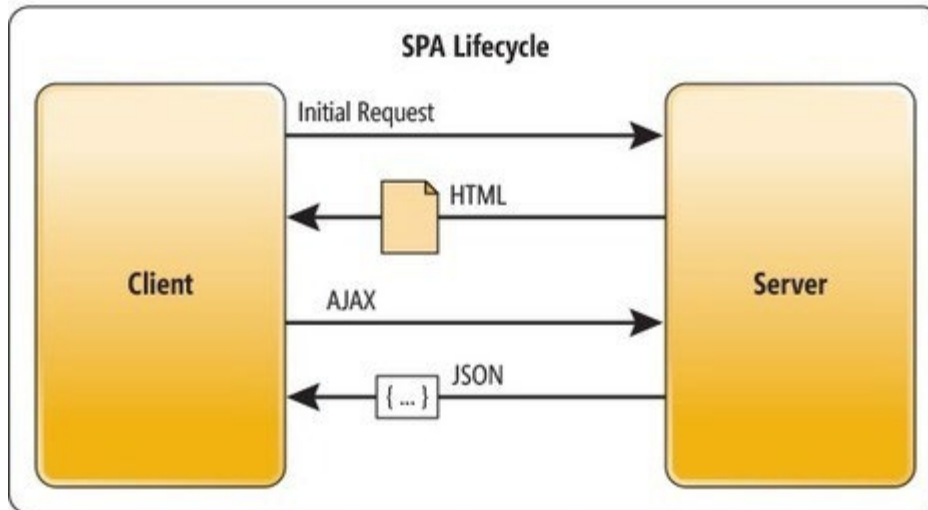


Pattern architetturali

Multi-Page Application



Single-Page Application



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AJAX – L'inizio delle SPA

<https://plnkr.co/edit/KoWor0SZdn1WihEU>

```
<body>
  <h1>Hello <span id="firstname"></span> <span id="lastname"></span>!</h1>
  <button onclick="reload_user();">Reload!</button>
  <p id="loadingtext">LOADING....</p>
</body>
```

```
</html>
```

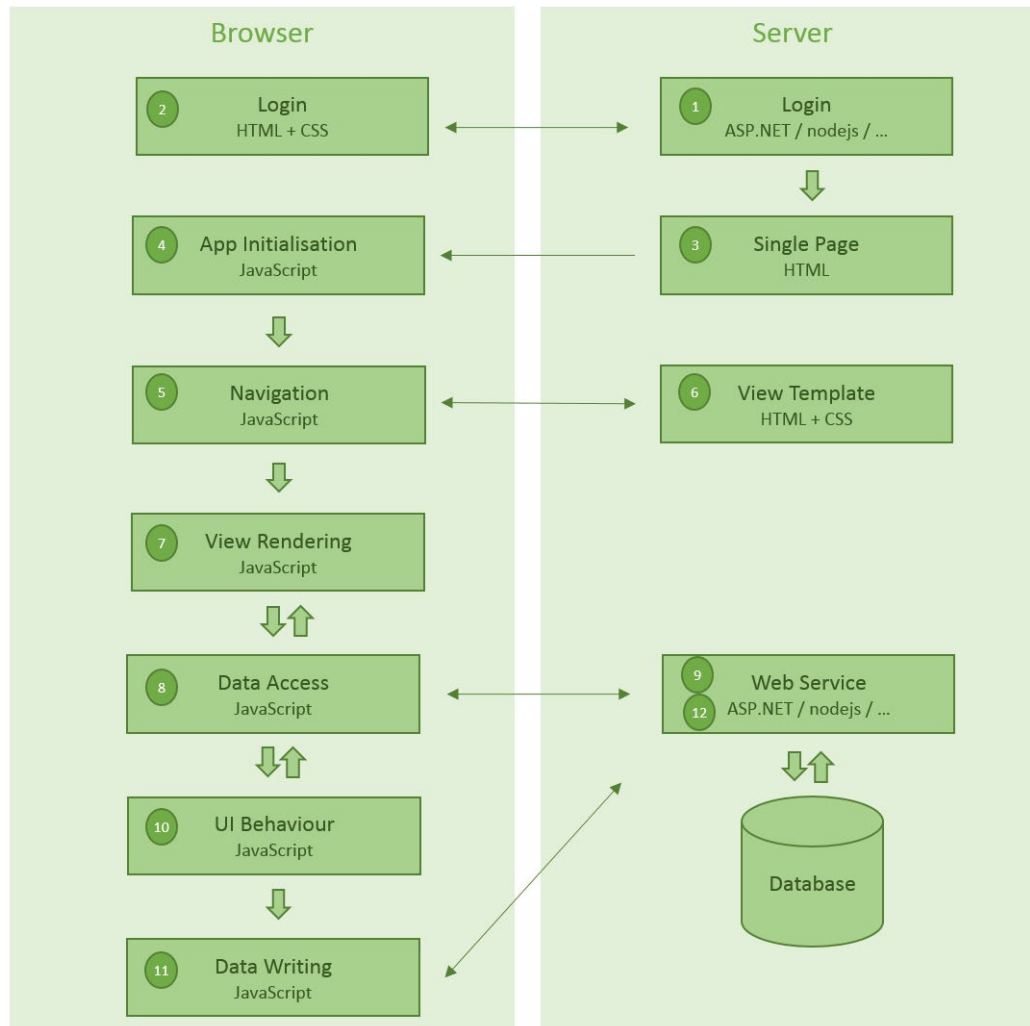
script.js

```
1 document.addEventListener("DOMContentLoaded", () => {
2   reload_user();
3 });
4
5 function reload_user(){
6   document.getElementById("loadingtext").style.display = 'block';
7
8   const xhttp = new XMLHttpRequest();
9   xhttp.onload = function() {
10    const result = JSON.parse(xhttp.responseText);
11    document.getElementById("firstname").innerHTML = result.results[0].name.
        first;
12    document.getElementById("lastname").innerHTML = result.results[0].name.
        last;
13    document.getElementById("loadingtext").style.display = 'none';
14  }
15  xhttp.open("GET", "https://randomuser.me/api");
16  xhttp.send();
17 }
```



Asynchronous Javascript And XML

Esempio di SPA

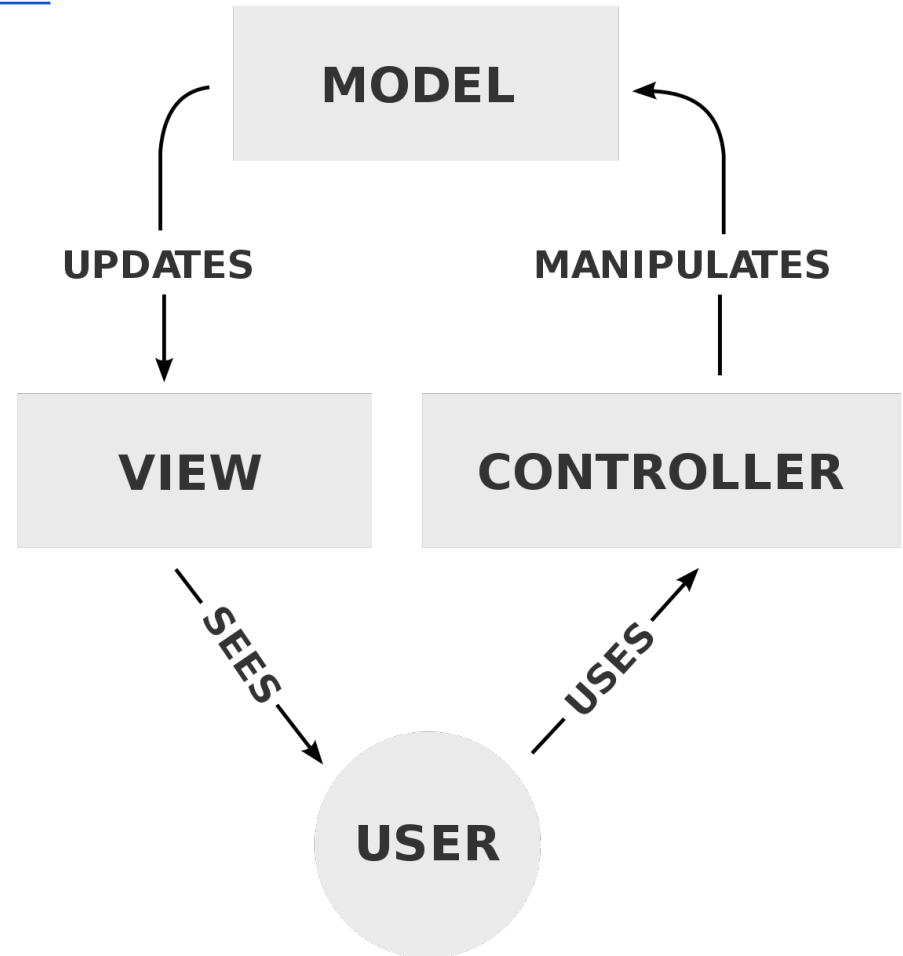


Pattern MVC

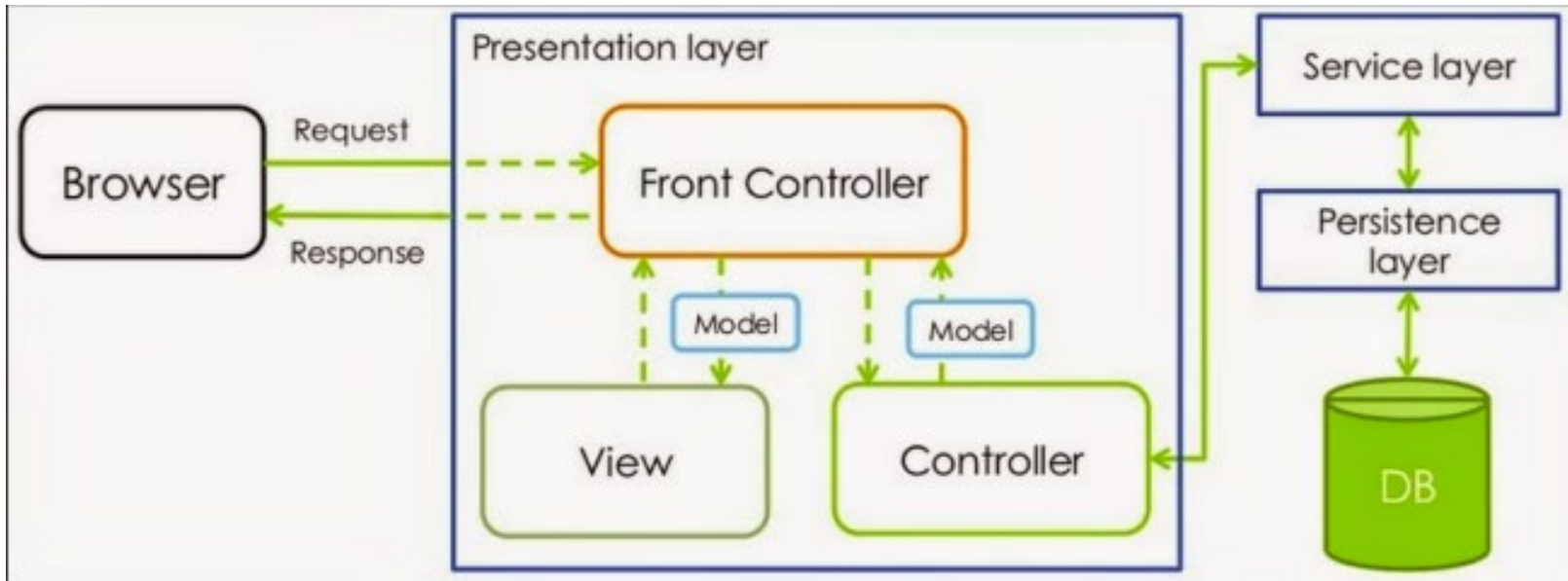
<https://it.wikipedia.org/wiki/Model-view-controller>

Vantaggi:

- 1) Disaccoppiare
- 2) Responsabilità certe
- 3) View multiple



Architettura generica



The presentation layer is where the data is formatted and presented to the user.

The service layer is where the business logic of the application is implemented.

The persistence layer is where the data is simply saved or retrieved.

Il mondo reale è composto da soluzioni ibride



Approcci ibridi
Mix di soluzioni
Evoluzione continua

Trend:

- PWA vs Mobile
- Low Code
- Serverless
- Static site generators
- MicroService

UI Bakery

<https://www.youtube.com/watch?v=xB3MrEi5bo>

Less servers for your Angular app

<https://www.youtube.com/watch?v=WEYtDYBkall>

Mastering Chaos - A Netflix Guide to Microservices

<https://www.youtube.com/watch?v=CZ3wluvmeM>