

H. Dip. In Computer Science (Online) ICT Skills II

Overview

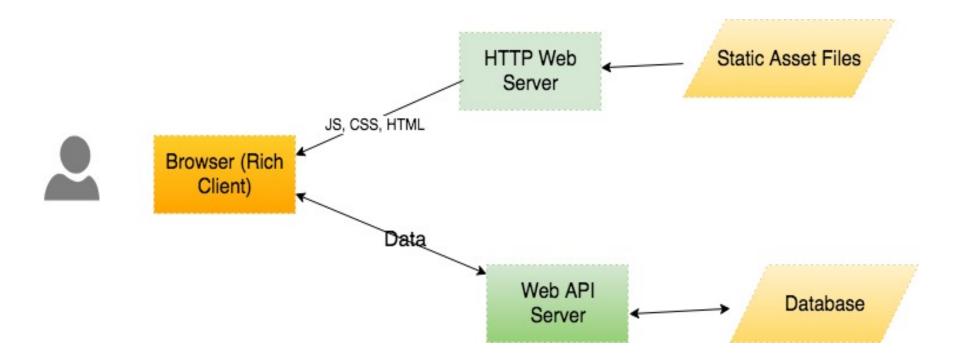
Diarmuid O' Connor (doconnor@wit.ie)

Agenda.

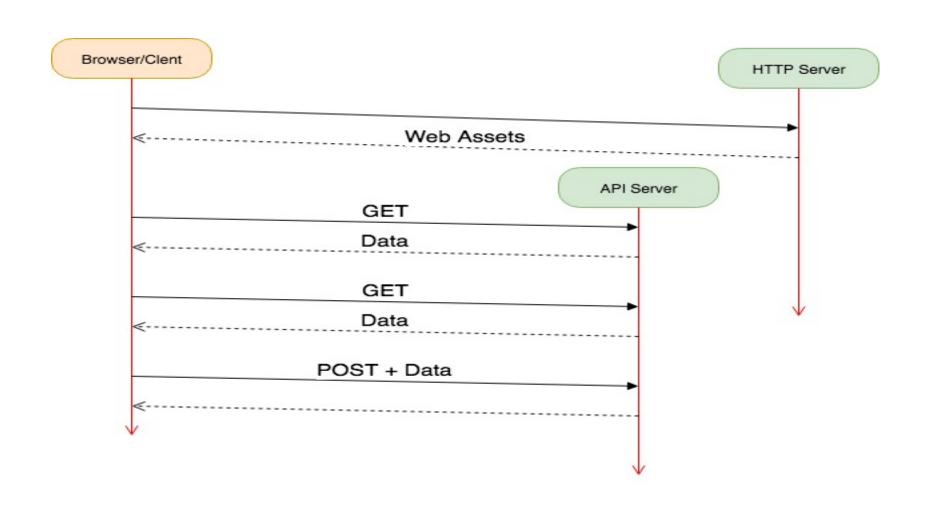
Context

• This module's focus

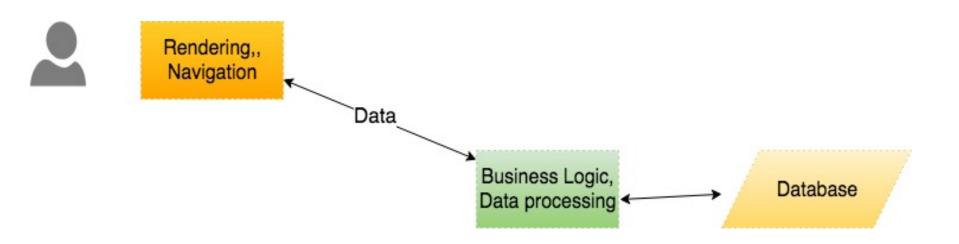
Modern Web Apps - Architecture



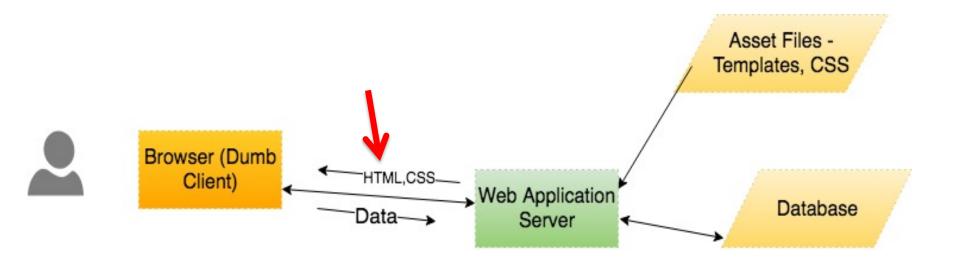
Modern Web Apps – HTTP Communications flow



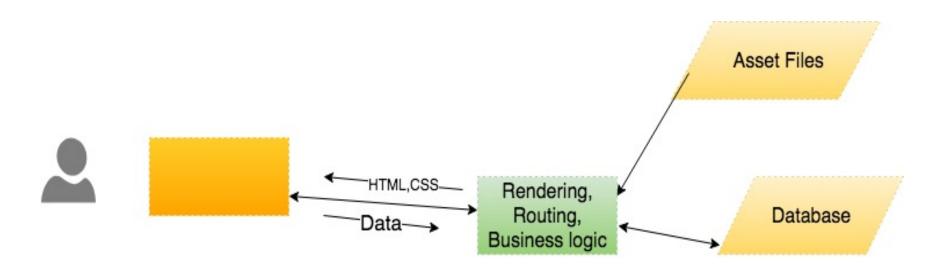
Modern Web Apps – Sub-system roles



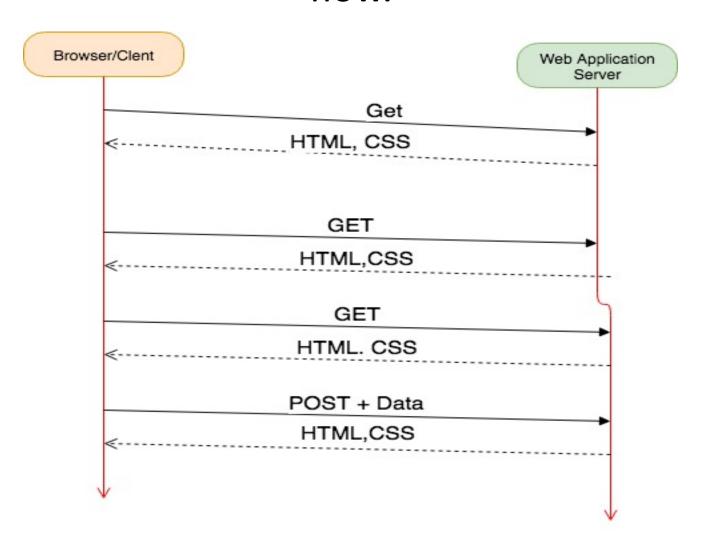
Traditional Web Apps – Architecture



Traditional Web Apps – Sub-system roles.



Traditional Web Apps – HTTP Communication flow.



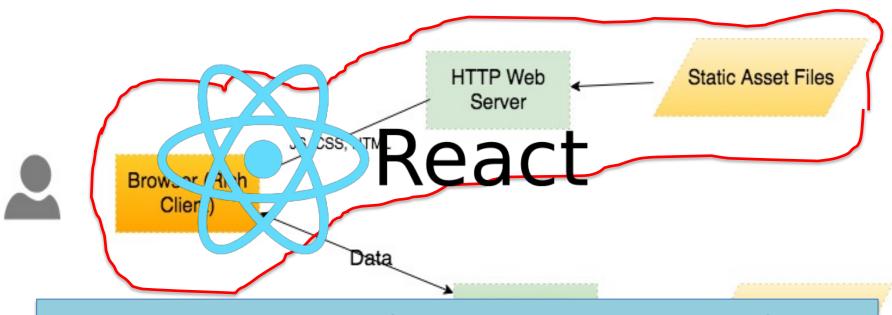
Agenda

• Context.



This module's focus

Modern Web Apps



A JavaScript library for building user interfaces

Top topics tagged

The millions of projects you contributed to this year span thousands of topics. JavaScript (both front and backend), machine learning, mobile app development, and containerization are among the topics you contributed to the most. **

react android, nodeis docker **10S** 5

Ref: https://octoverse.github.com/projects

Most Loved, Dreaded, and Wanted Frameworks, Libraries, and Tools Dreaded Loved Wanted React 21.3% Node.js 20.9% TensorFlow 15.5% Angular 14.3% .NET Core 9.3% Django 6.7%

Ref: https://insights.stackoverflow.com/survey/2018

Front-end Frameworks - Overview

The front-end remains the key battleground for JavaScript. But now that the dust has cleared, it's starting to look like only two combatants are left standing...

Overall Results | Share Overall Front-end Frameworks results. Ng Em Po Percents React Vue.js Angular Polymer 9.2% 18.5% 20.5% Never heard of it 28.1% 31.8% 19.1% Heard of it, not interested 67.3% Heard of it, would like 51.5% 46.6% 37% to learn 33.8% Used it, would not use again Used it, would use 27.5% 14.1% 23% again 23.9% React Vue.js Angular Ember Polymer Preact

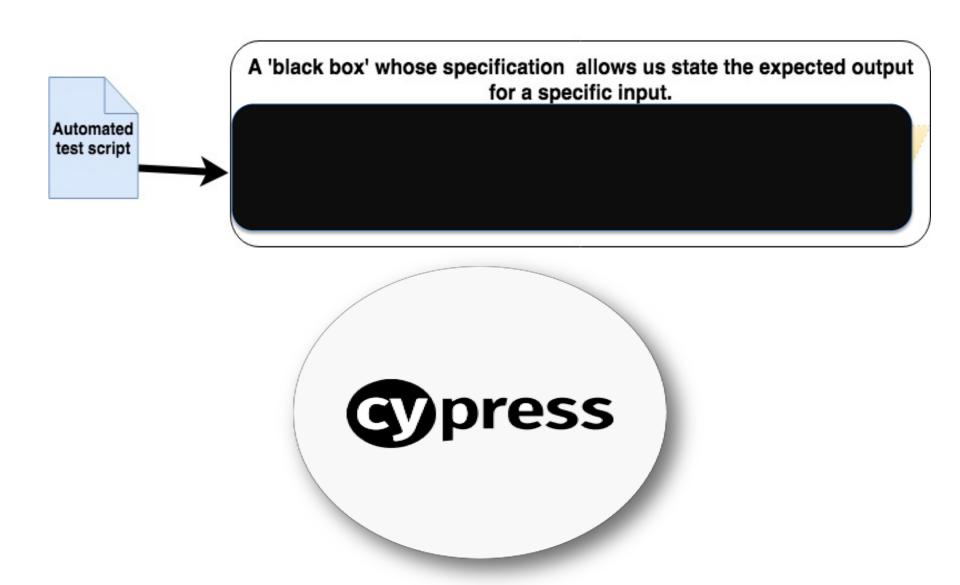
Ref: https://2018.stateofjs.com/front-end-frameworks/overview/

Agenda

Context.

- This module's focus:
 - Single Page App development, using React

End-to-End Testing



Agenda

• Context.

- This module's focus:
 - SPA development, using React
 - End-to-End testing

Questions?