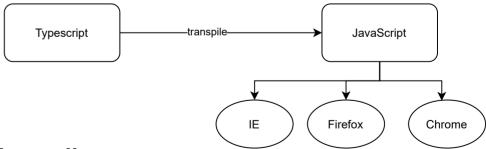
NodeJS - Server side scripting

- Node Runtime Env (NRE)
- Node Native Module e.g. http, event, utils, fs, events etc
- Node Package Manager (NPM)

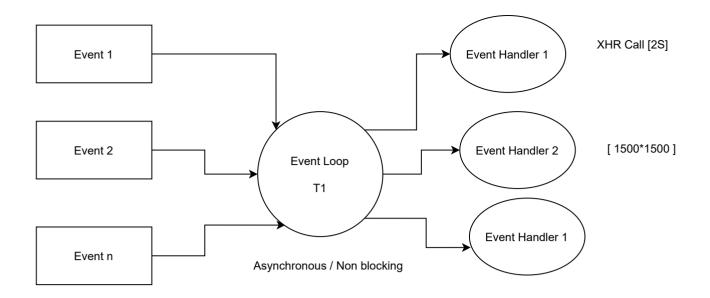
JS Lib and Frameworks -

- jQuery : Lib DOM manipulation, ajax
- React data change very frequently; Virtual DOM diffing algo
- VueJS: data-binding, templates, routing etc Evan You
- *EmberJS : changes internal API very frequently
- backboneJS : Client side MVC
- knockoutJS: 2 way data-binding, MVVM
- AngularJS (v1): Library
- Angular (latest version) : Framework
- 2 way data-binding
- templates
- routing
- SPA
- MV* (MVC, MVP, MVVM)
- DOM maipulation
- many more
- NodeJS Server-side platform
- ExpressJS Server-side web app framework for JS app
- JS is Single threaded programming languages
- async behaviour
- ASP / JSP



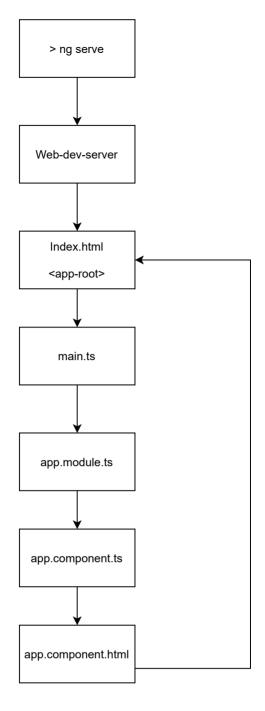
Transpilers:

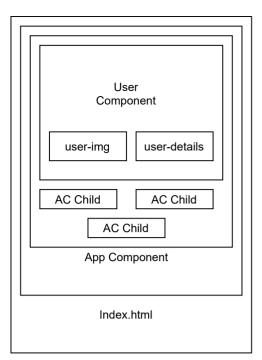
- babel
- typescript compiler
- traceur



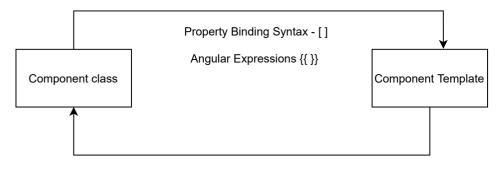
Handling Async Behaviour -

- Callbacks
- Promises
- Async ... await
- Observable





Browser / UI



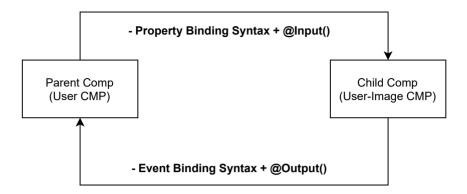
Event Binding Syntax ()

2 way data-binding -

- Property Binding + Event Binding
- Banana in the box [(ngModel)]

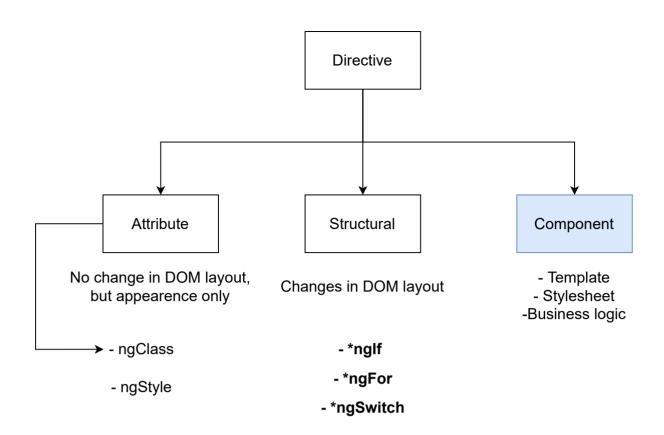
> npm install bootstrap@4 --save

Component Communication



Parent to Child Communication

- Property Binding + @Input() for model only
- Data Projection using <ng-content> for formatted data
- Services (angular building block)

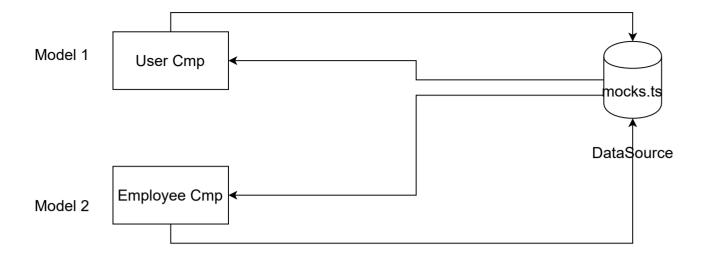


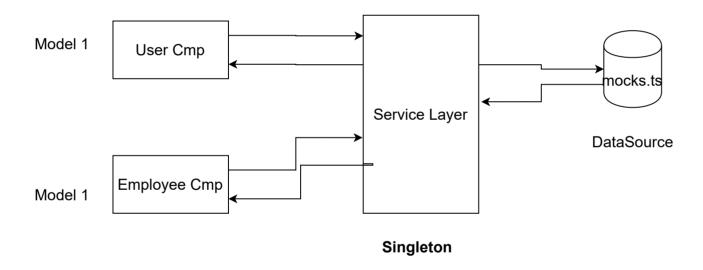
Forms

- Template Driven
 - 1. HTML5 Validations
 - 2. ngForm
- Model Driven / Reactive Froms
 - 1. Angular Validations
 - 2. FormGroup, FormControl, FormBuilder

Form and Form Controls -

- 1. ngValid
- 2. nglnvalid
- 3. ngDirty
- 4. ngPristine
- 5. ngTouched
- 6. ngUntouched





- Data consistency
- Dependency Injection
- Single Responsibility Principle
 - Client-side business logic

