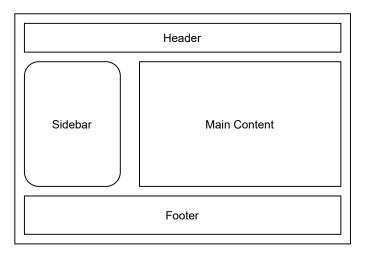
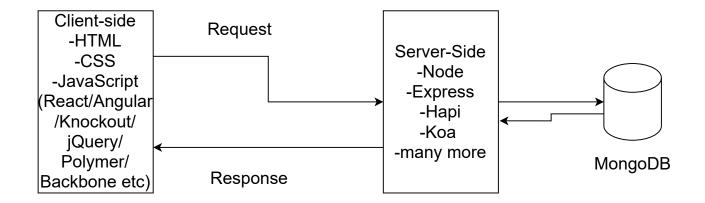
## Webpage Structure



#### JSON - JavaScript Object Notation

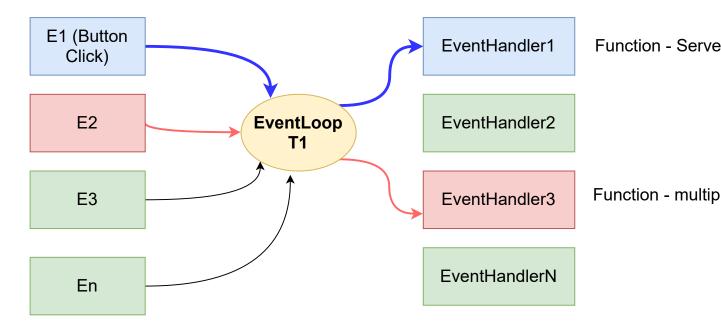
#### MERN / MEAN Full Stack Diagram



#### **JavaScript Libraries -**

- 1- React Component based architecture (reusable piece of code), Data changes, DOM manipulation, SPA, data binding, template structure, state management, performant app etc.
- react-router and react-router-dom
- redux react-redux
- 2 Jquery DOM Manipulation, Animation, XHR call (remote server calls)
- 3- Knockout 2 way data binding, MVVM Pattern
- 4- BackboneJS MVC Pattern with 2 way data binding
- 5 Angular Framework provides complete skeleton to create enterprise applications e.g Banking System

#### **Event Queue**



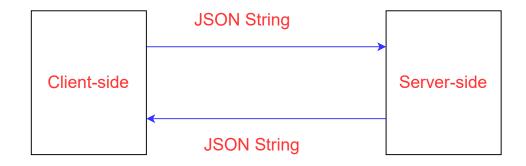
# **Handling Async JS**

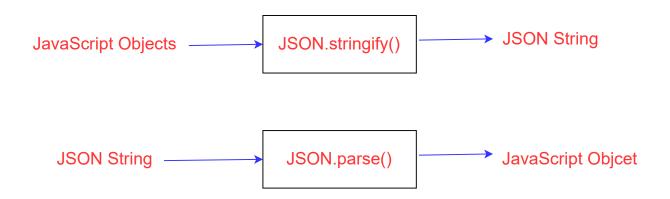
- Callback functions
- Promises
- Async...await
- Observables

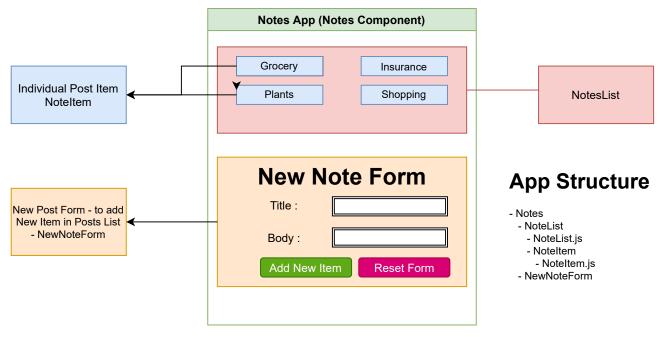
r Call - 3S

ly the [100\*100] - 1S

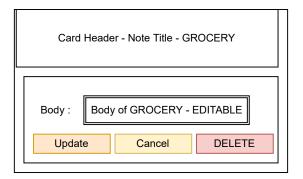
## JavaScript Objects







#### **Edit Note Component**



## Notes App -

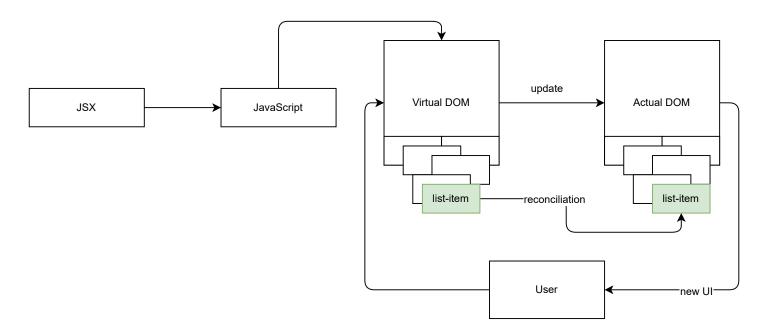
Note - { id: 1, title: "Shopping", body: "buy the jeans"}

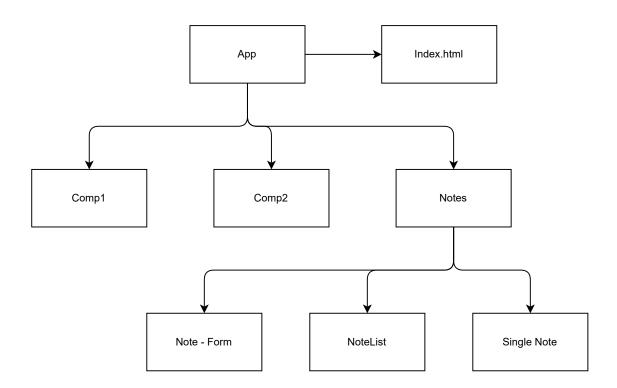
- Bootstrap Library - CSS classes

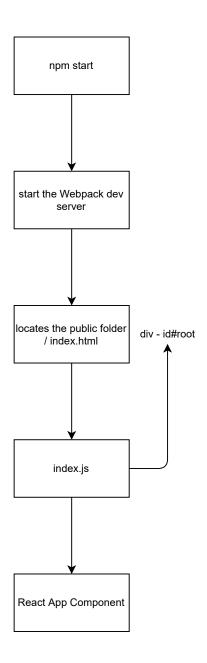
## **ES6 Modules resolution -**

- Babel .babelrc
- Webpack webpack.config.js
- -.esm / ejs NA
- -SystemJS -
- RequireJS config.js

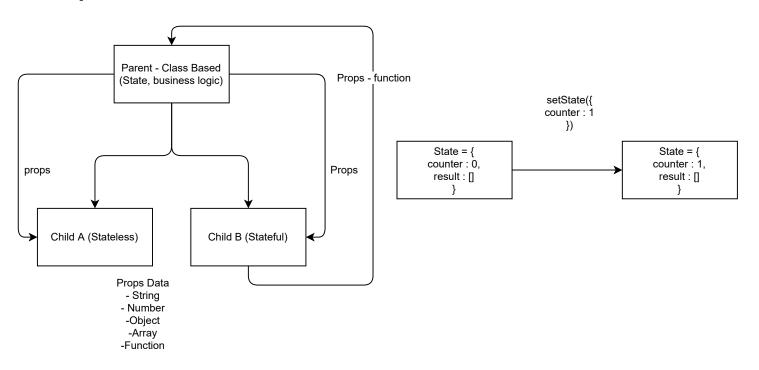
# Diffing Algorithm

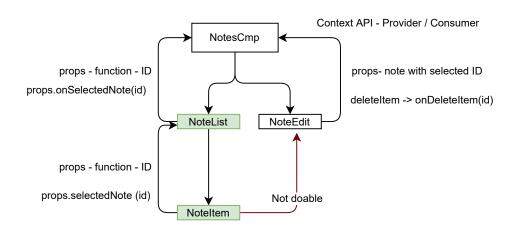


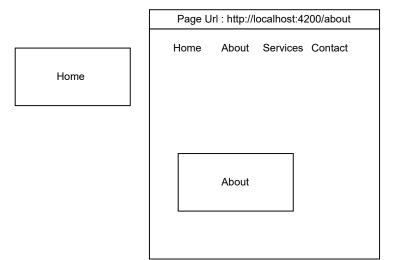




# **Component Communication**







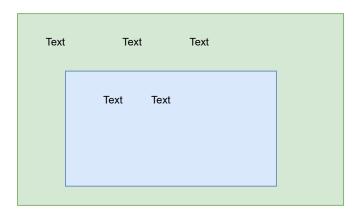
- 1. Set up Links to change the URL
- 2. Load components based on the URL

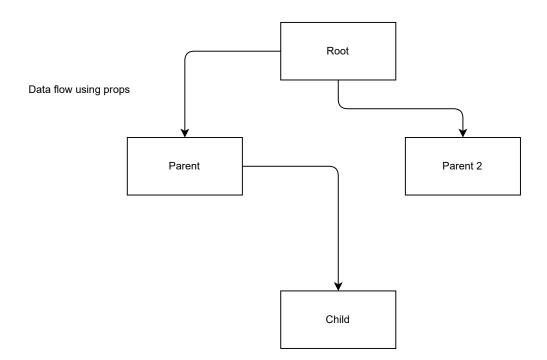
Contact

# Routing

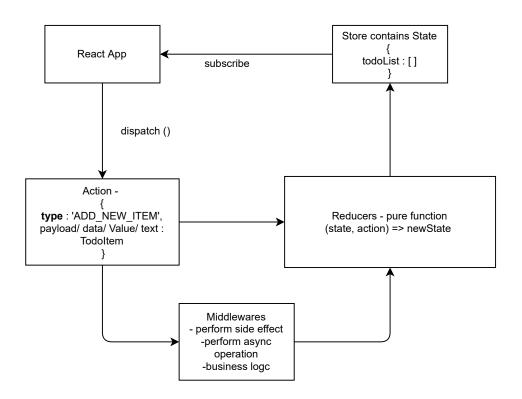
- 1. Check base href in index.html
- 2. Create configuration for loading components using Routes
- 3. Tell angular about route configuration using RouterModule.forRoot()
- 4. Set up the router links using routerLink
- 5. provide space to load the component template using <router-outlet>
- 6. To navigate the user programmatically Inject the Router Service
- 7. Child Routing/Nested Routing http://localhost:4200/products/overview
- 8. Route parameter http://localhost:4200/product/3/overview
- 9. Query Parameter http://localhost:4200/product?name=iphone
- 10. ActivatedRoute Service can handle query and route parameters





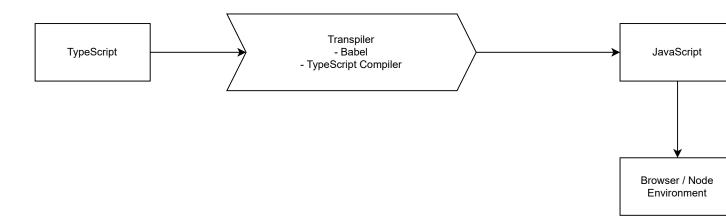


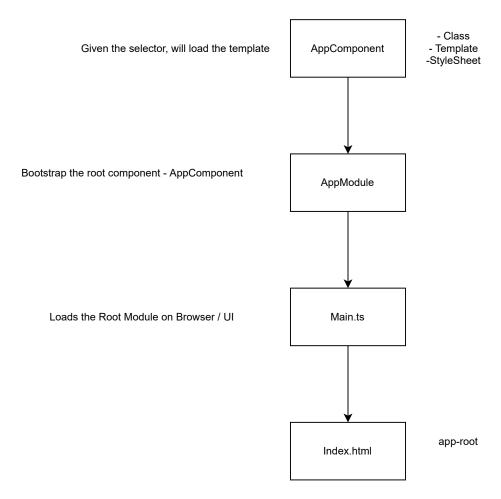
Store maintains State

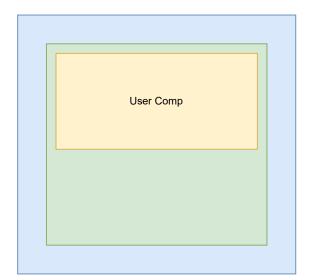


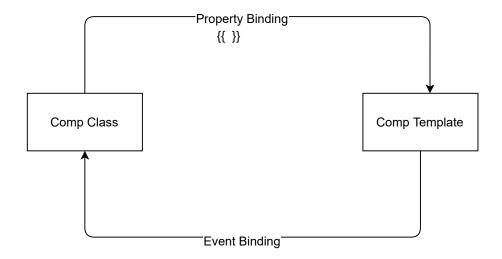
Counter : 1						
Increase	Decrease	Add	Subtract			
	Store					

{
counter : 101,
result : [1, 0, 10, 5]
}









- Property Binding Syntax []
- Event Binding Syntax ( )

- 2 way data Binding
- [Property Binding] + (Event Binding)
- Banana in the Box [ ( ngModel ) ]

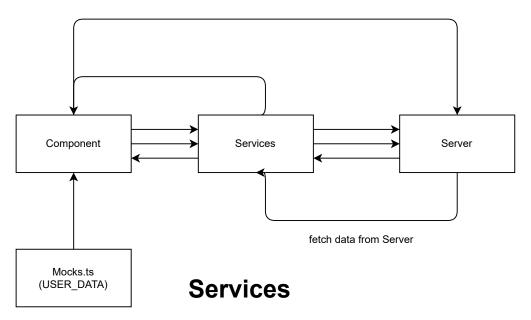


#### **Parent to Child Communication**

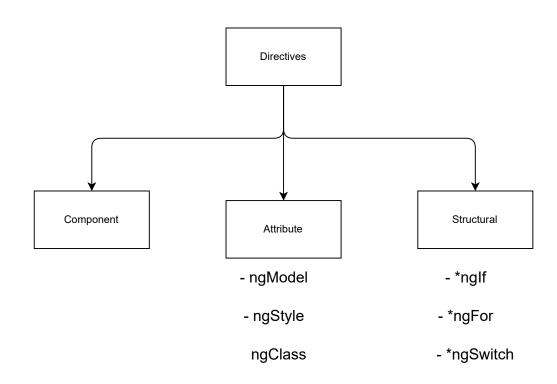
- @Input () with property binding Syntax

#### **Child to Parent Communication**

- @Output () with Event binding Syntax



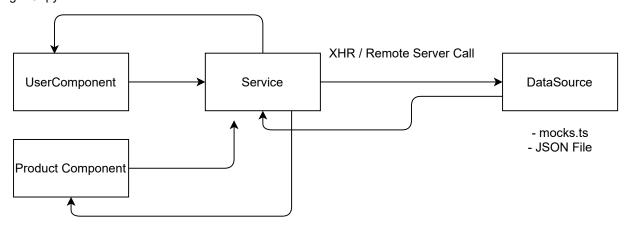
- DI Principle
- Single Responsibility principle



# **Form and Form Controls Classes**

- ngValid / ngInvalid
- ngPristine/ ngDirty
- -ngUntouched / ngTouched

- Single Copy of Model



- Single Copy of Model

