Component Communication -

Parent to Child Communication -

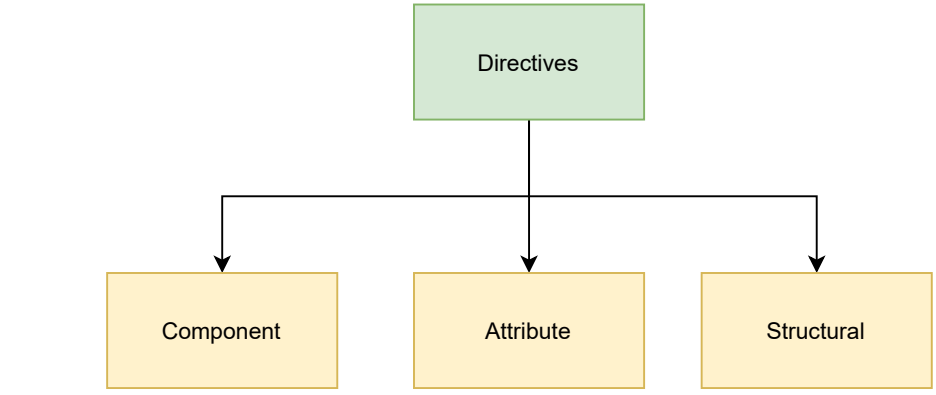
- @Input() + Property Binding Syntax

Child to Parent Communication -

- @Output() + Event Binding Syntax

Data Projection - Formatted Data from Parent to Child : <ng-content>

Directives Types - Explained



Template, Styles, UI Business logic

ngStyle

ngClass

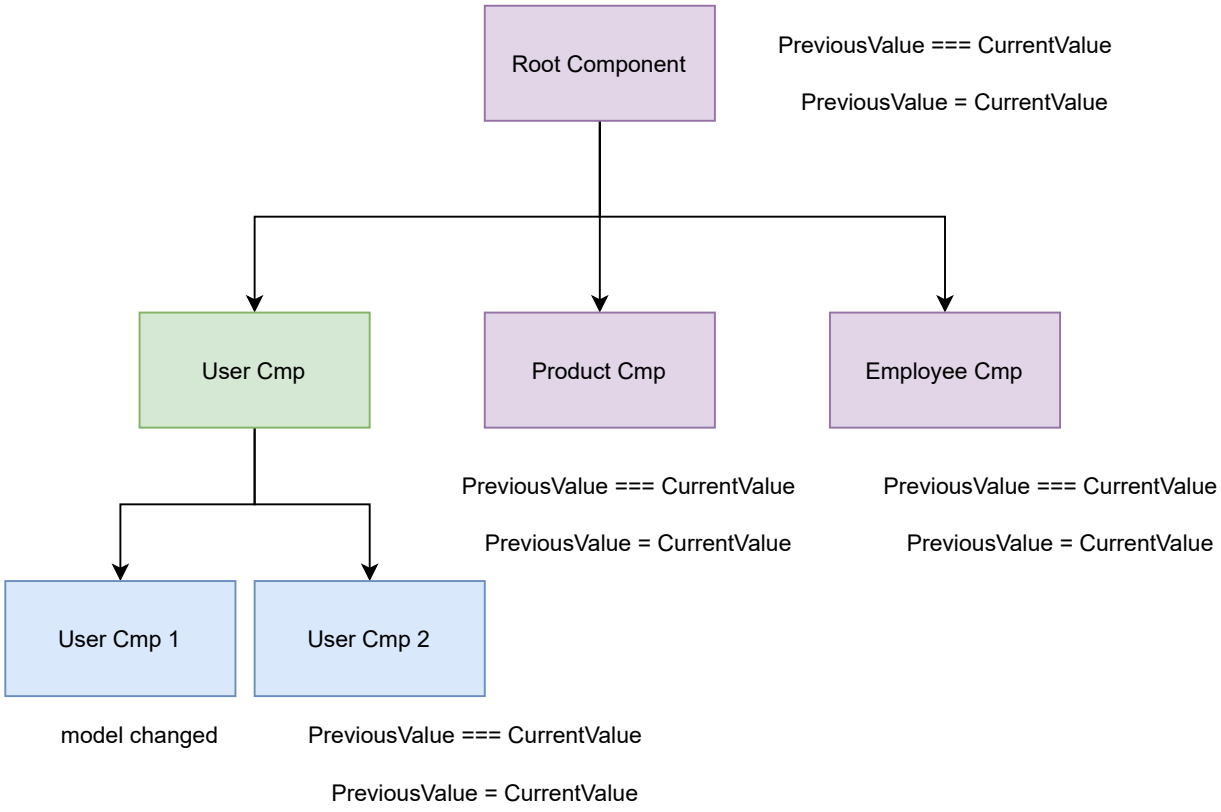
ngModel

*ngIf

*ngFor

*ngSwitch

Digest Cycle - Explained



Digest Cycle runs on following -

- Events
- Timers
- Model Change
- XHR Call is resolved

Change Detection Strategies -

- Default - starts the DC from Root Component
- OnPush - when to start the DC, from which level

Forms - Explained

Template Driven

- Entire Form is represented by "ngForm"
- HTML5 Validation - required, minLength, pattern etc
- Validation logic in template
- Import FormsModule

Model Driven

- Entire Form is represented by FormGroup
- Each Form control represented by FormControl
- Angular Validation - required, minLength, pattern etc
- Validation logic in Component Class
- Import ReactiveFormsModule

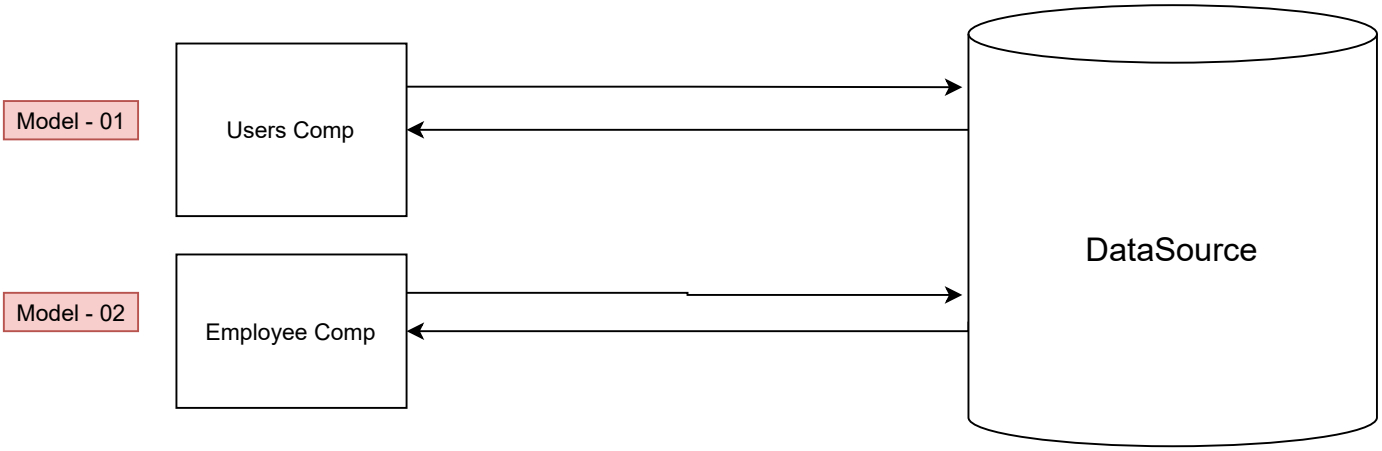
Services - Explained

Services - 2 principles

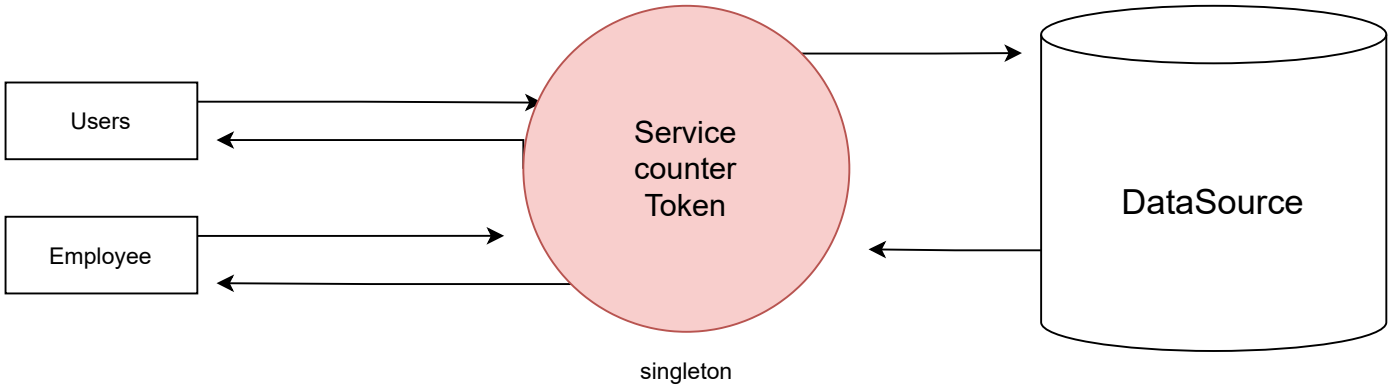
- SRP : Single Responsibility Principle

- DIP : Dependency Injection Principle

Multiple Model Problem

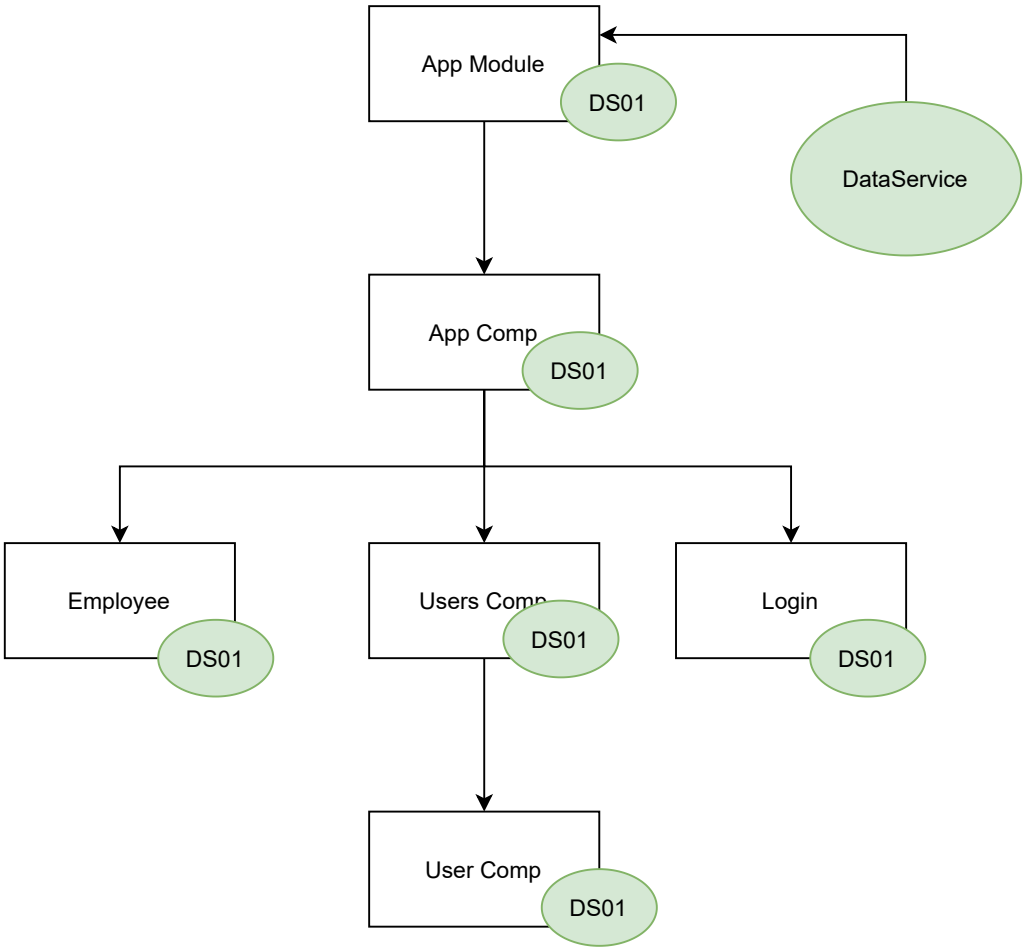


Service is the rescue

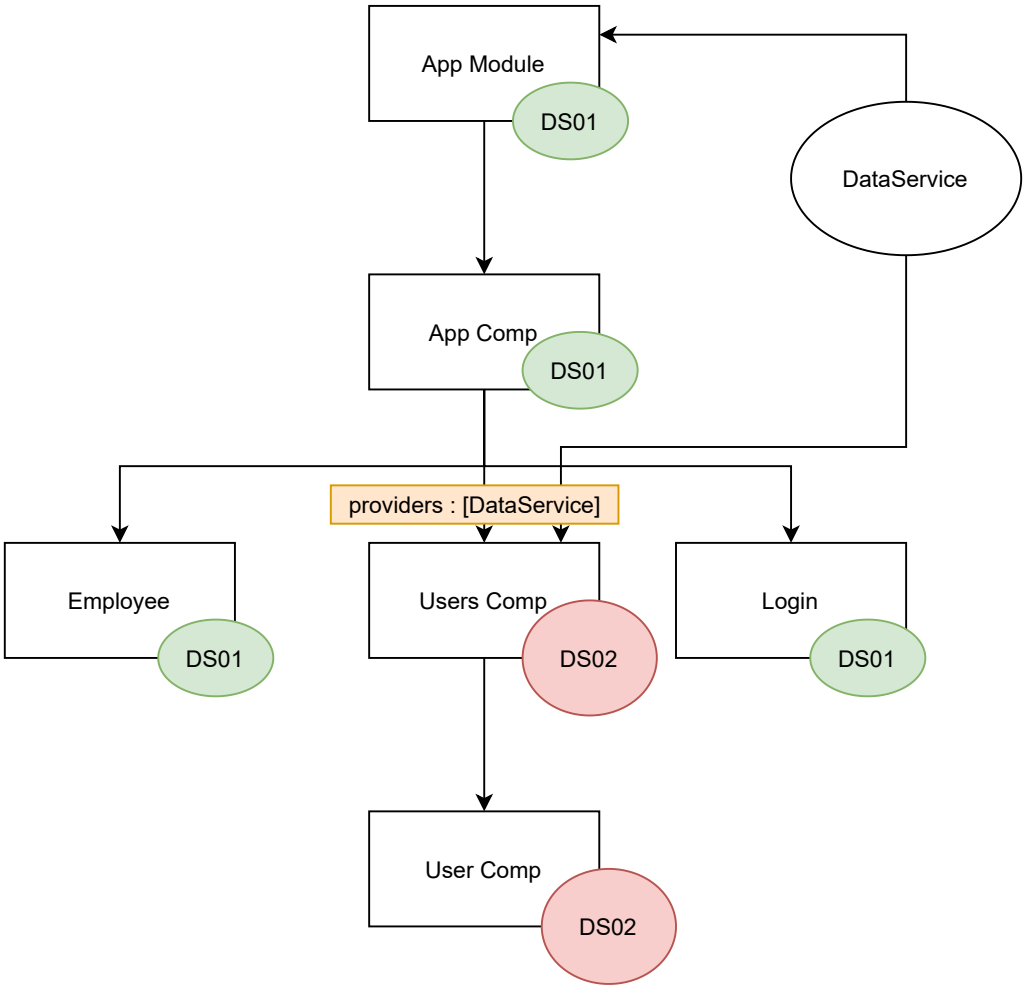


singleton

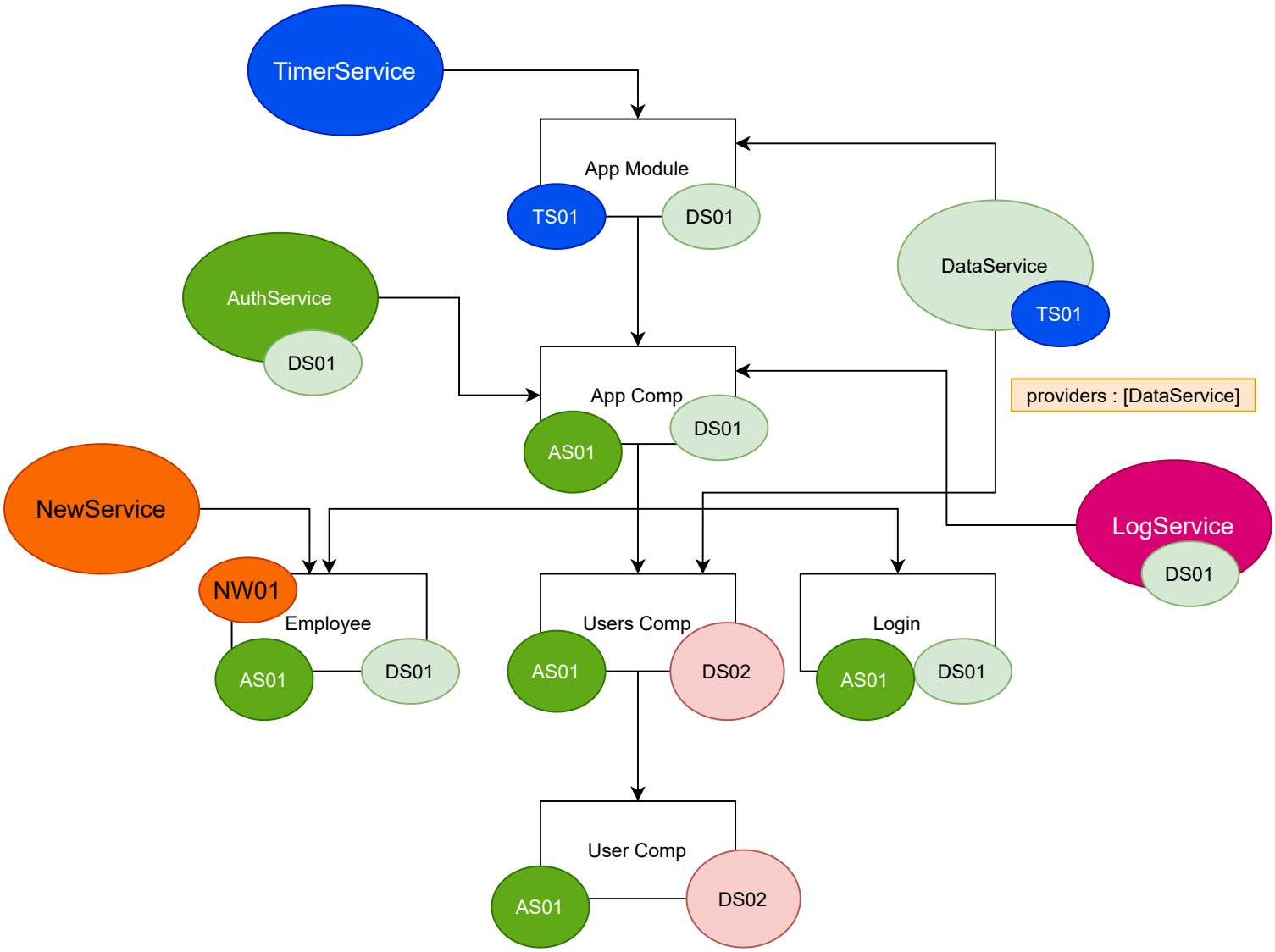
Dependency Injection - Explained



Hierarchical Dependency Injection



Hierarchical Dependency Injection



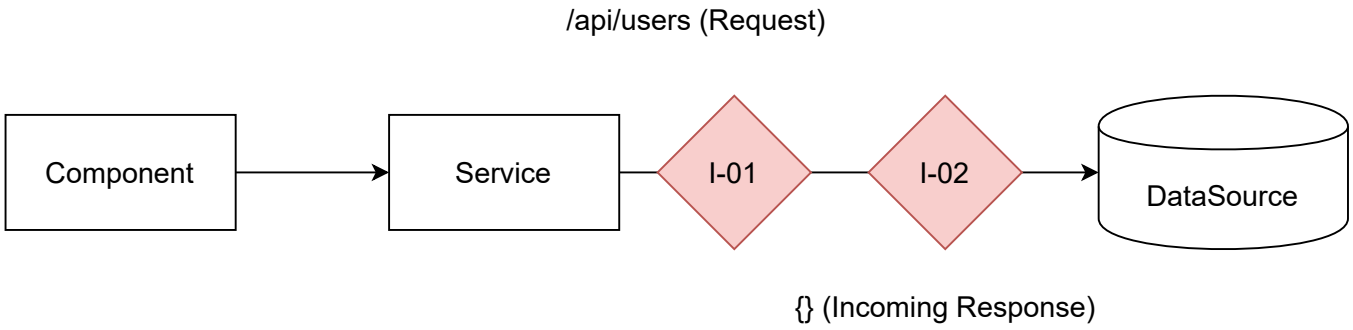
- Module Injection : Same instance is available to all the components as well all the services

- Component Injection : Same instance is available to all the child components but not in other services

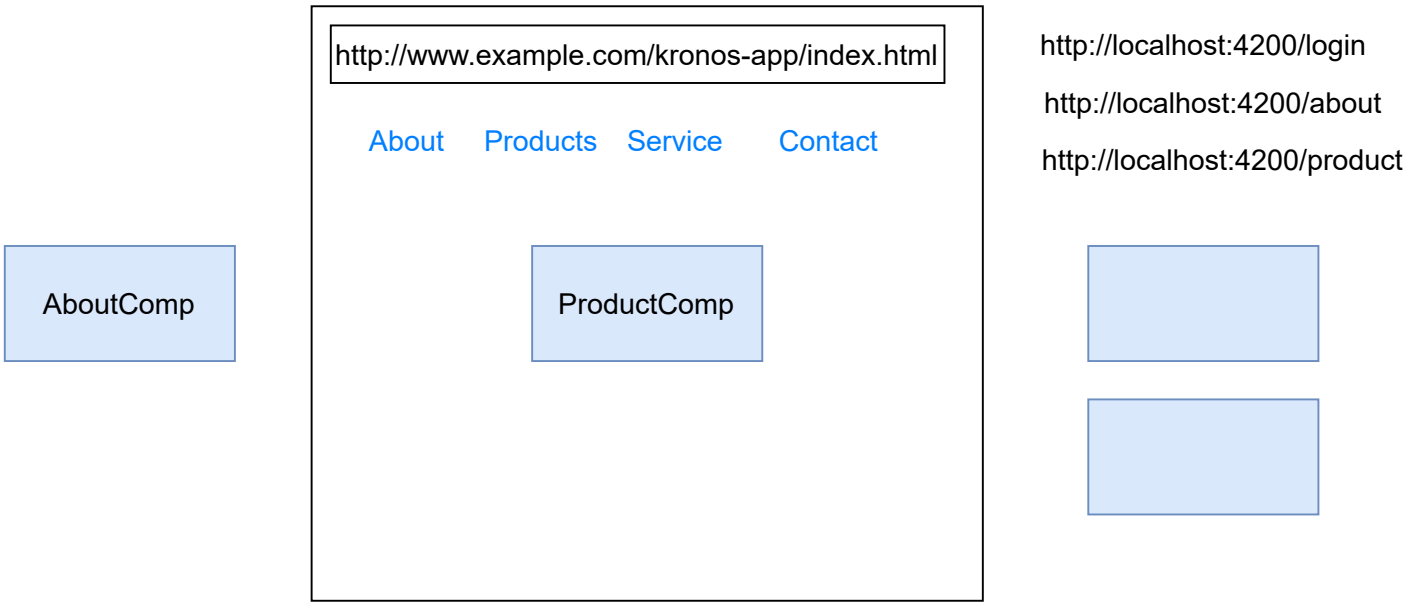
Javascript Async Behaviour -

1. Callback functions
2. Promises
3. Async...Await
4. Observable API

Interceptors - Explained



SPA Understanding



Routing Terminologies -

1. Routes : Configure components with individual route
2. RouterOutlet : Specifies the location on UI
3. RouterLink : specifies the routing links
4. RouterModule : adds routing functionality in App
5. ActivatedRoute : access of URL
6. Router : enables programmatically navigation

Module - Understanding