Angular Application Bootstrap Process

ng serve / npm start ⟶ starts dev server
localhost:4200 ⟶ index.html
<app-root>

AppComponent
(Root Component)

html
css, ⟵ AppModule
(Root Module) ⟵ main.ts
(bootstrap module)
ts,
spec

Data Binding

[Property Binding] / {{ String Interpolation }}

username = "Monica"

TypeScript Class

Component Template / View
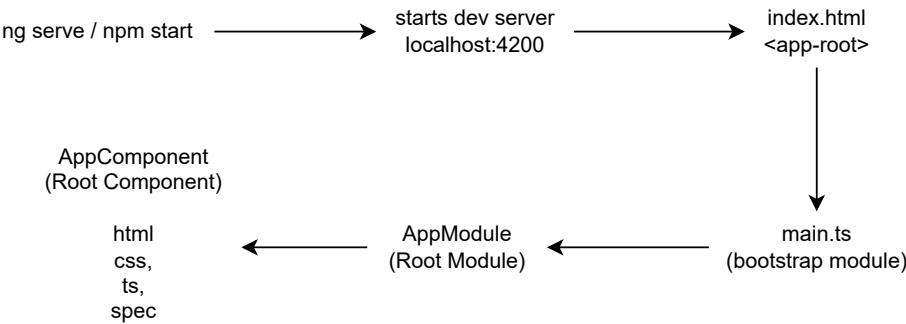
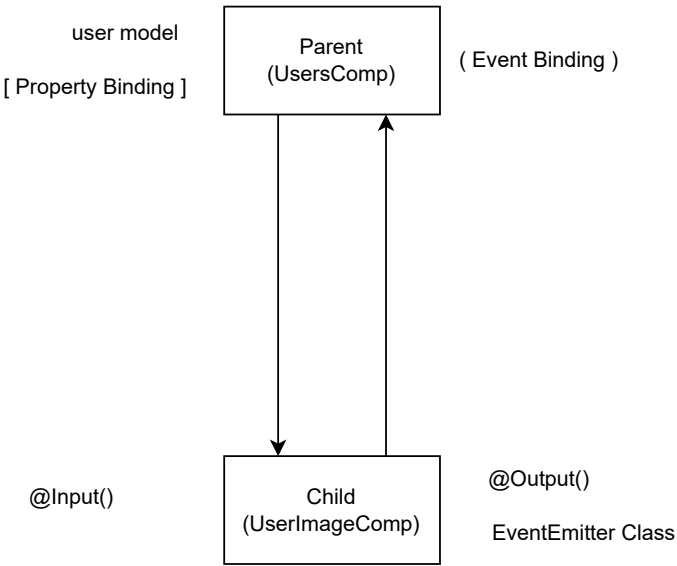(Event Binding)
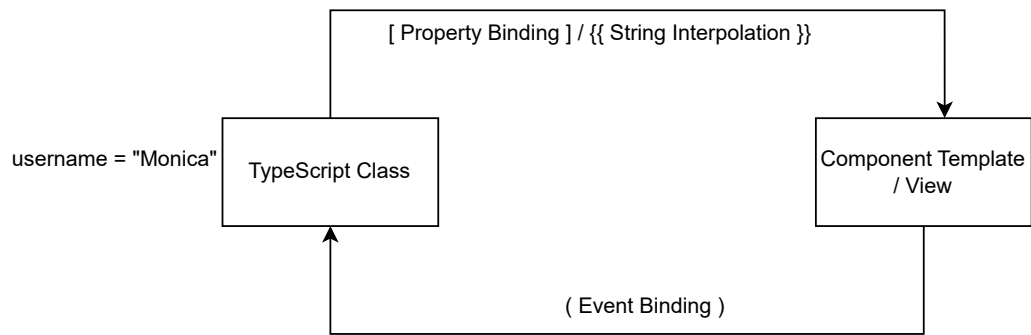
2 way data binding = PB + EB
Banana in the Box = [(ngModel)]

Nested Component Communication

user model

[Property Binding]

Parent
(UsersComp)

(Event Binding)

@Input()

Child
(UserImageComp)

@Output()

EventEmitter Class

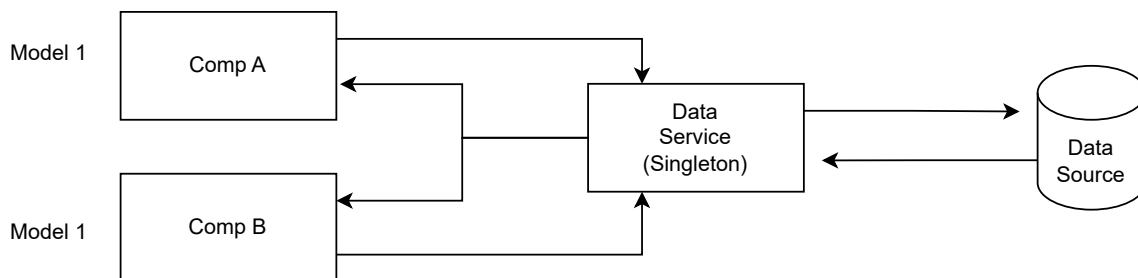Model 01   UsersComponent → Data Source   mock.ts

Cloud

Model 02   Employee Component
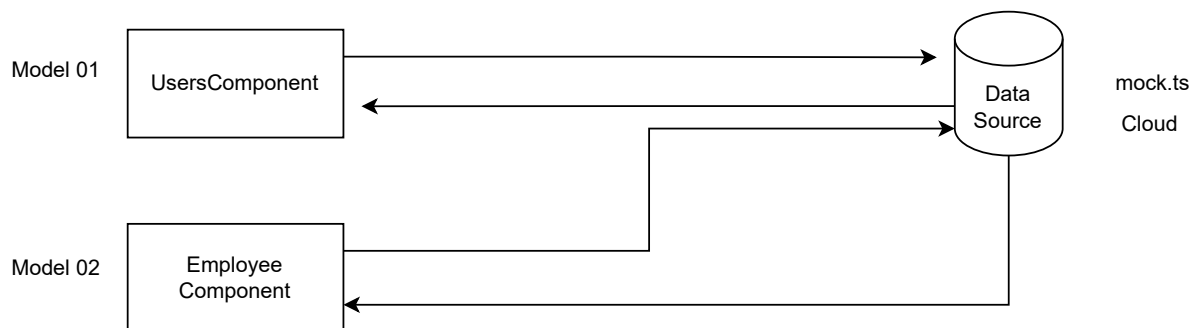
Data Inconsistency

Multiple Copies of same data

Component is responsible to access the data source

Model 1   Comp A   Data Service (Singleton)   Data Source
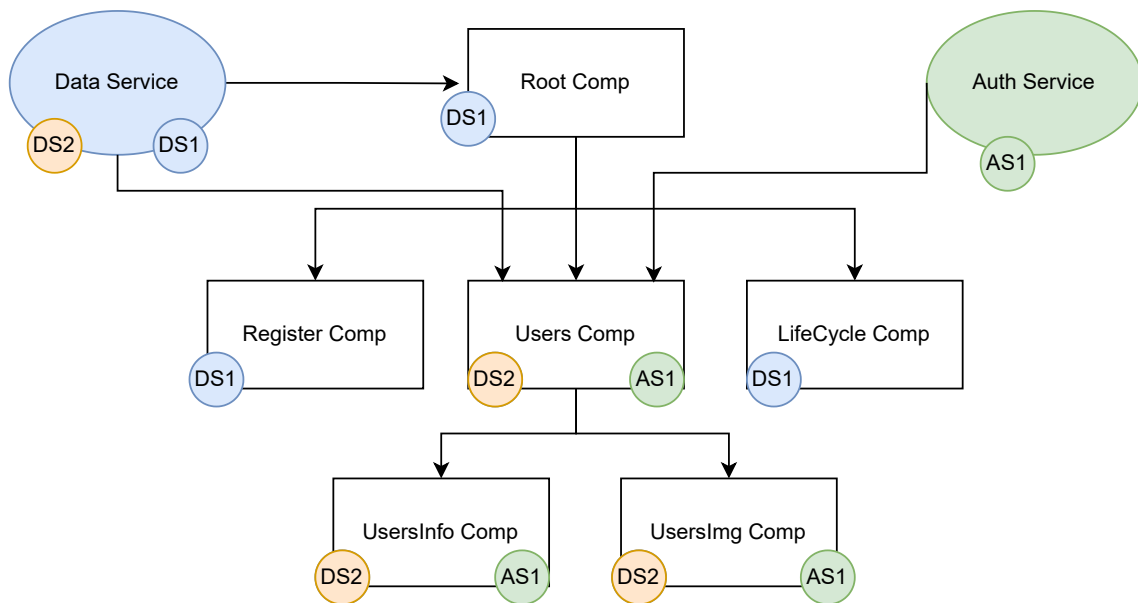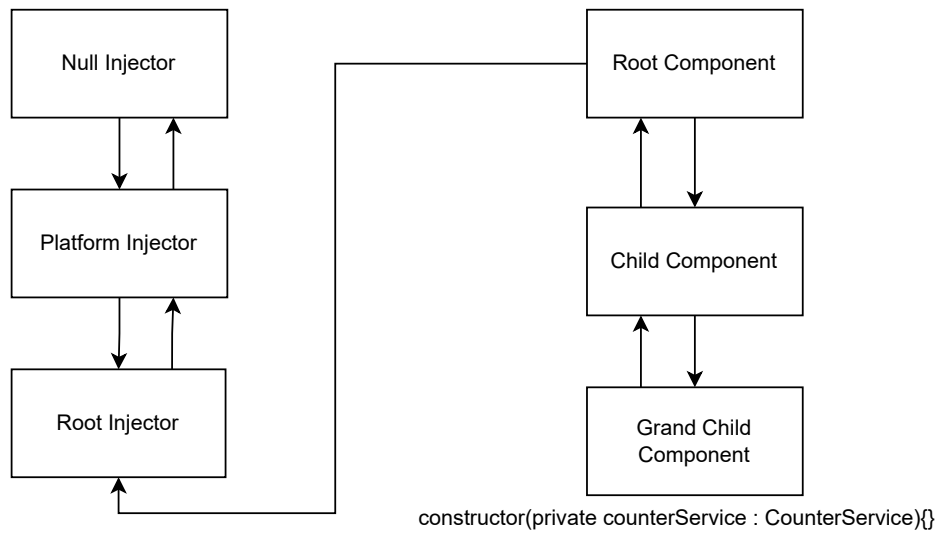
Model 1   Comp B

Responsibility Delegate

No Data inconsistency

DIP : Dependency Injection Principle

SRP : Single Responsibility Principle

Dependency Injector Hierarchy

Null Injector

Platform Injector

Root Injector

Root Component

Child Component

Grand Child Component

constructor(private counterService : CounterService){}

Data Service

DS2   DS1

Root Comp

DS1

Auth Service

AS1

Register Comp

DS1

Users Comp

DS2   AS1

LifeCycle Comp

DS1

UsersInfo Comp

DS2   AS1

UsersImg Comp

DS2   AS1

Request Interceptor

Component → Service → Interceptor → Data Source

Interceptor

Response Interceptor

index.html

http://www.example.com/contact

[Home](#) [Products](#) [Employee](#) [Contact](#)

Products

ContactUs

Employees

Banking App

Root Module

BrowserModule

CommonModule

Saving Acc
Current Acc
Credit Card
Mortgage
Home Loan
Demat Acc

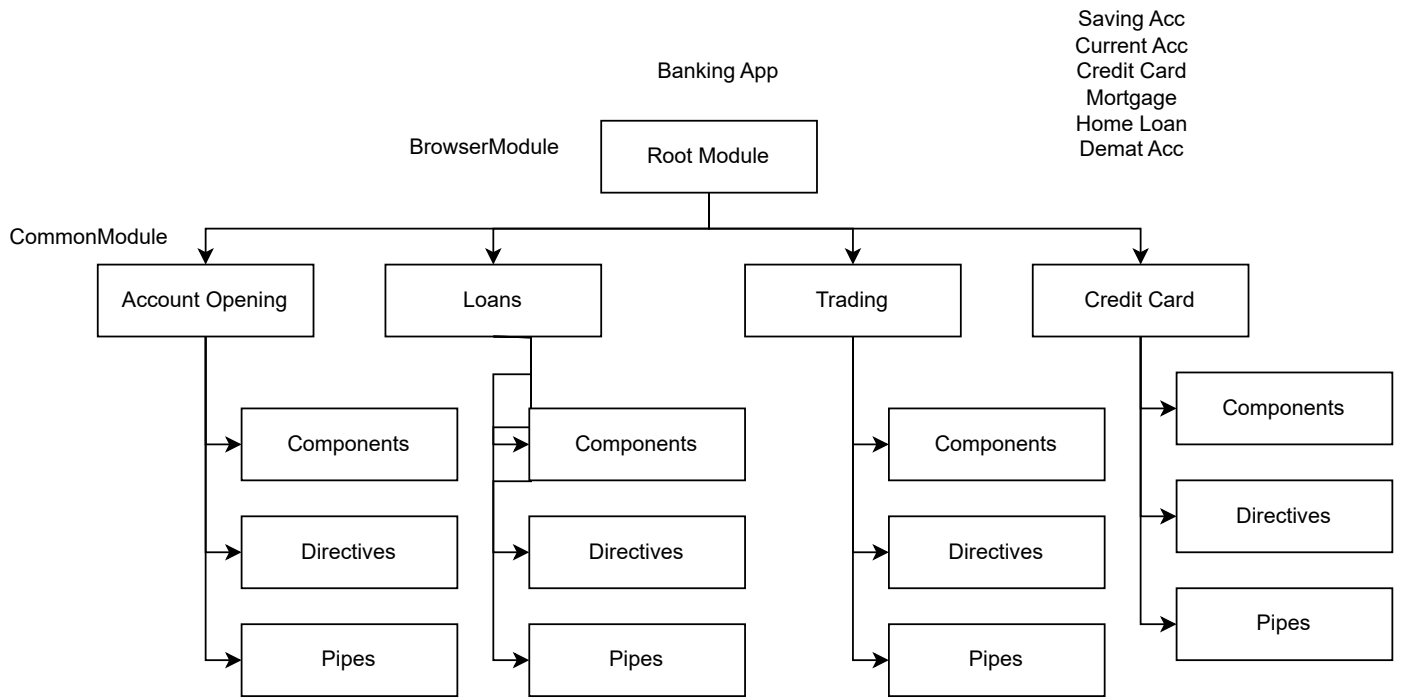| Account Opening	Loans	Trading	Credit Card
Components	Components	Components	Components
Directives	Directives	Directives	Directives
Pipes	Pipes	Pipes	Pipes

Angular Internals

Default ChangeDetectionStrategy

Digest Cycle

ZoneJS

Dirty Checking

prevValue === currValue

prevValue = currValue

Root Componnet

A1

B1

onPush ChangeDetectionStrategy

C1

B11

B12

C11