Service and DI

Agenda

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05 Steps to implement Service

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Dependency Injection

Dependency Injection

- Code without DI
- DI as a design pattern
- DI as framework which angular provides

Code without DI

```
class Engine{
    constructor(){}
}
class Tires{
    constructor(){}
}
```

```
class Car{
    engine;
    tires;
    constructor()
    {
        this.engine = new Engine();
        this.tires = new Tires();
    }
}
```

Code without DI cont.…

```
class Engine{
    constructor(newparameter){}
}
class Tires{
    constructor(){}
}
```

```
class Car{
    engine;
    tires;
    constructor()
    {
        this.engine = new Engine();
        this.tires = new Tires();
    }
}
```

Code with and without DI

Without DI

```
class Car{
    engine;
    tires;
    constructor()
    {
        this.engine = new Engine();
        this.tires = new Tires();
    }
}
```

With DI

```
class Car{
    engine;
    tires;
    constructor(engine, tires)
    {
        this.engine = engine;
        this.tires = tires;
    }
}
```

Code with DI

```
var myEngine = new Engine();
var myTires = new Tires();
var myCar = new Car(myEngine, myTires);
```

```
var myEngine = new Engine(parameter);
var myTires = new Tires();
var myCar = new Car(myEngine, myTires);
```

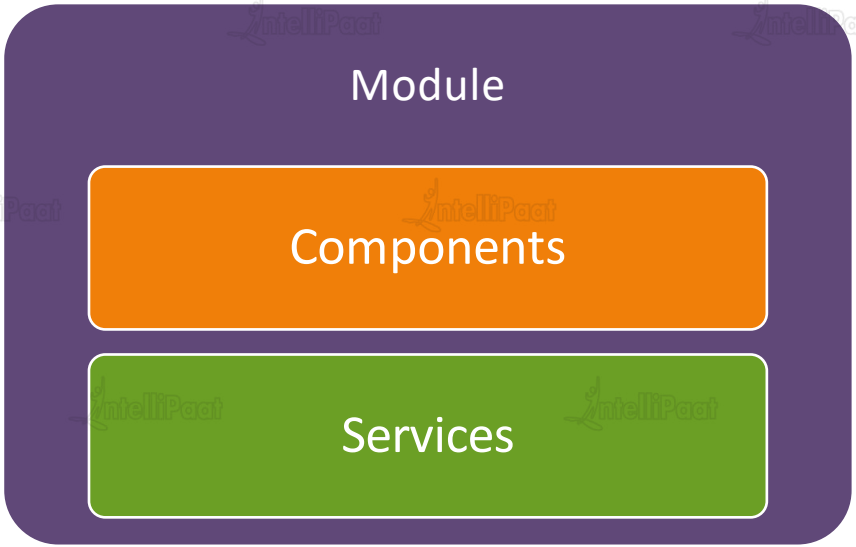
```
var myEngine = new Engine(parameter);
var myTires = new Tires(parameter);
var myCar = new Car(myEngine, myTires);
```

DI as a design pattern

- Dependency Injection is a coding pattern in which a class receives its dependencies from external resources rather that creating them itself.

Services

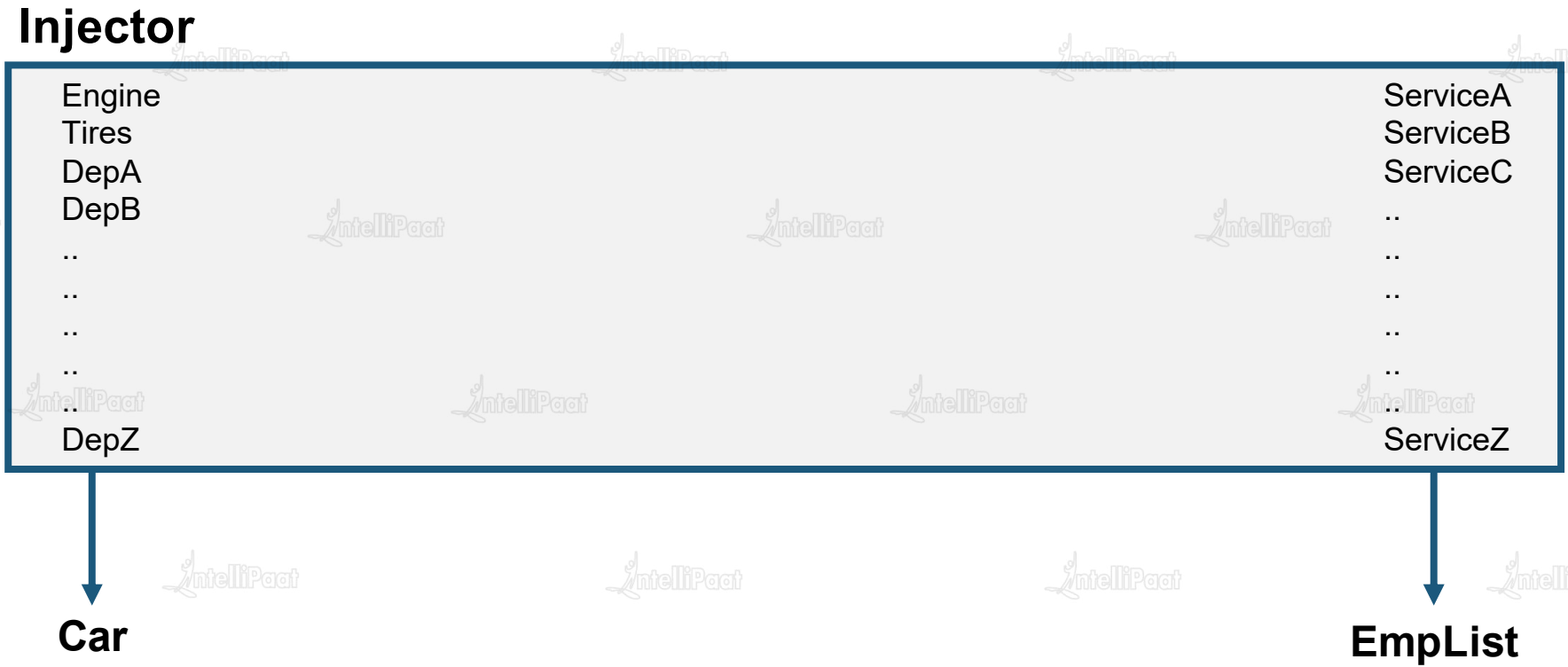
Services



Services

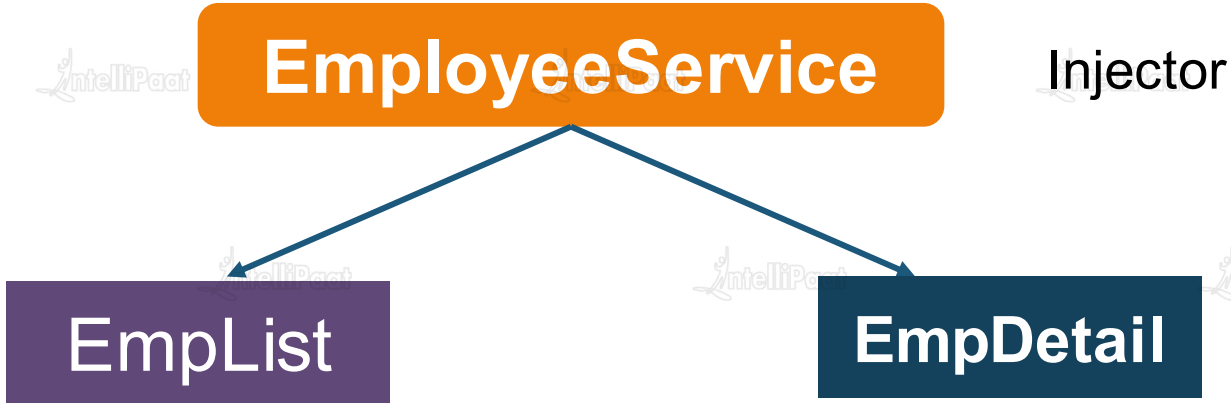
- Service is a class
- Share the data
- Implement application logic
- Services are a great way to share information among classes that *don't know each other*
- Components shouldn't fetch or save data directly and they certainly shouldn't knowingly present fake data. They should focus on presenting data and delegate data access to a service.

DI as framework

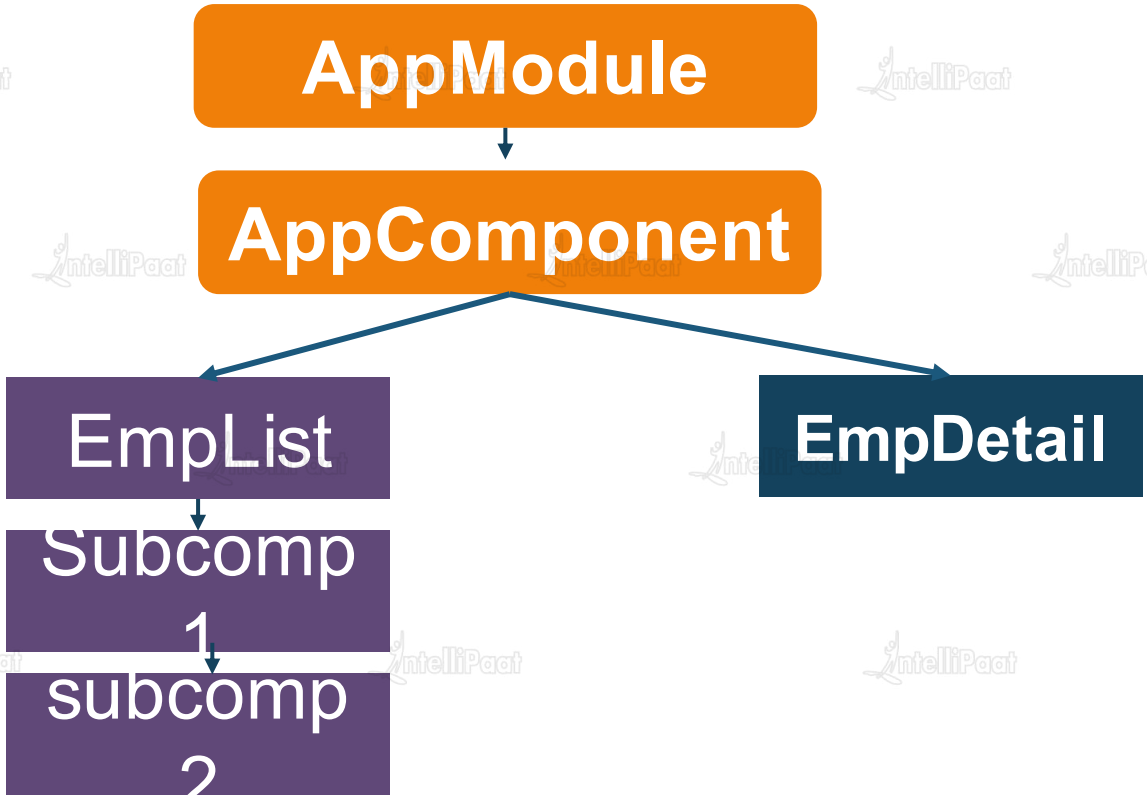


Steps to implement DI in Angular

- Define the EmployeeService class
- Register with Injector
- Declare as dependency in EmpList and EmpDetails



Steps to implement DI in Angular



Demo

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