

# Routing

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PRINCIPAL ARCHITECT

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# Overview



**Route Configuration**

**Router Outlets**

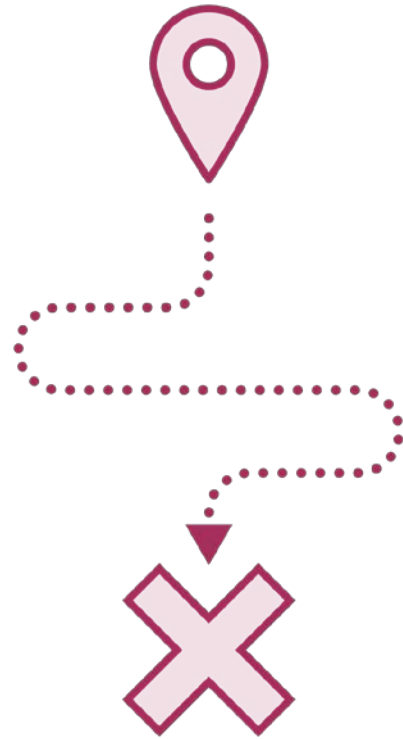
**Router Links**

**Route Parameters**

**Child Routers**



# Routing



# Routing

Routing allows our application to navigate between different Components, passing parameters where needed



# Routing Then and Now

**Angular 1**

**Angular 2**

```
<script src="node_modules/angular2/bundles/router.dev.js"></script>
```

## Routing Script

Routing is in a separate module

Add the reference to **router.dev.js**

Add **<base href="/">** to index.html



# Routing in 4 Steps

`ROUTER_PROVIDERS`

`@RouteConfig`

`<router-outlet>`

`[routerLink]`



vehicles.component.ts

Must be PascalCase

```
@RouteConfig([
  { path: '/', name: 'Vehicles', component: VehicleListComponent, useAsDefault: true },
  { path: '/list/:id', name: 'Vehicles', component: VehicleListComponent },
  { path: '/:id', name: 'Vehicle', component: VehicleComponent }
])
export class VehiclesComponent { }
```

Default route

Routing parameters

## @RouteConfig

**@RouteConfig** accepts an array of route definitions

**path** maps the address

**component** maps to the Component and its Template





## Component

```
@Component({  
  selector: 'story-vehicles',  
  template: '<router-outlet></router-outlet>',  
  directives: [ROUTER_DIRECTIVES],  
  providers: [VehicleService]  
})
```

Declare routing  
directives

## Declaring Routing Directives

Tells the Template what **routerLink** and **<router-outlet>** are



app.component.ts

Go to this route name

```
<nav>  
  <a [routerLink]="['Dashboard']">Dashboard</a>  
  <a [routerLink]="['Characters']">Characters</a>  
  <a [routerLink]="['Vehicles']">Vehicles</a>  
  <router-outlet></router-outlet>  
</nav>
```

Place the content here

## Routing Directives

**<router-outlet>** is where the Component's Template will appear

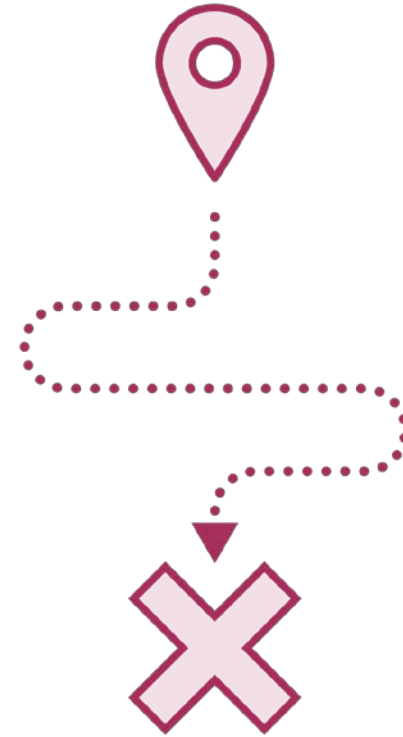
**routerLink** navigates to a route

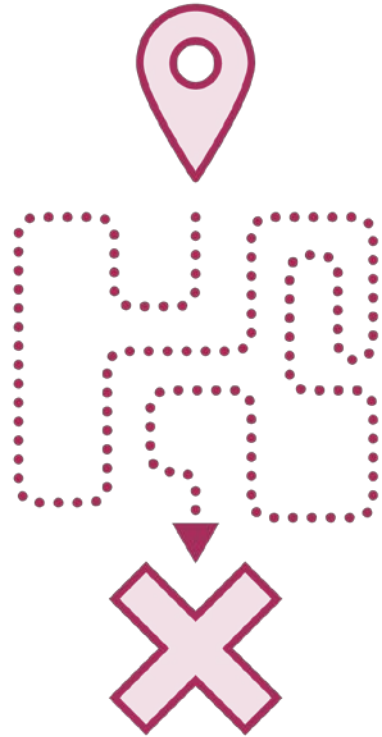


Demo



Routing





# Child Routers



# Child Routers

A Component may define routes for other Components. This creates a series of hierarchical child routes.



```
@RouteConfig([
  { path: '/dashboard', name: 'Dashboard', component: DashboardComponent, useAsDefault: true },
  { path: '/characters/...', name: 'Characters', component: CharactersComponent },
  { path: '/vehicles/...', name: 'Vehicles', component: VehiclesComponent }
])
```

Child route

## Child Routes

@RouteConfig accepts an array of route definitions

**/...** indicates a child route



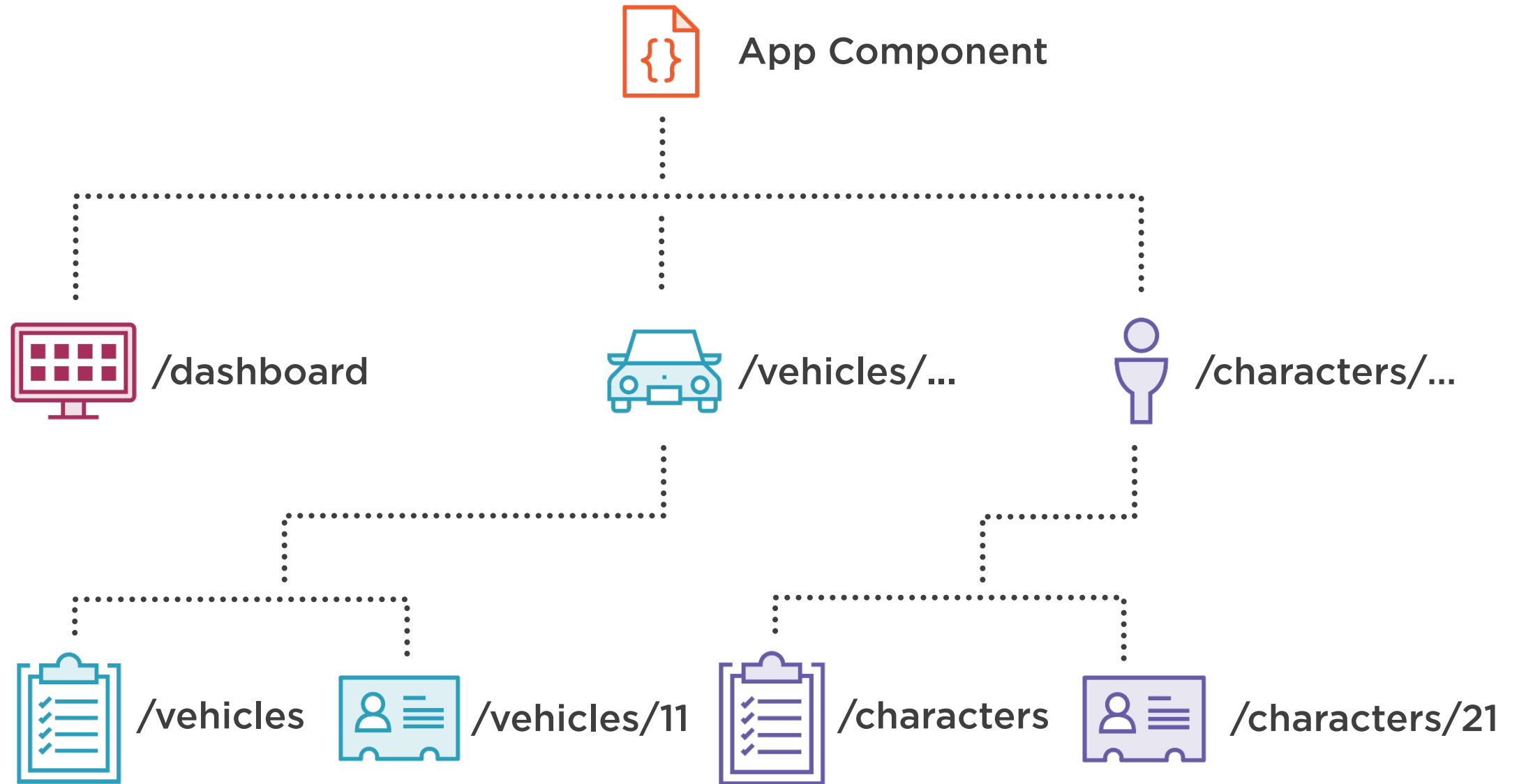
```
@RouteConfig([
  {
    path: '/',
    name: 'Vehicles',
    component: VehicleListComponent,
    useAsDefault: true
  },
  {
    path: '/:id',
    name: 'Vehicle',
    component: VehicleComponent
  }
])
```

## Router Component

Router Component defines the routes for a set of components

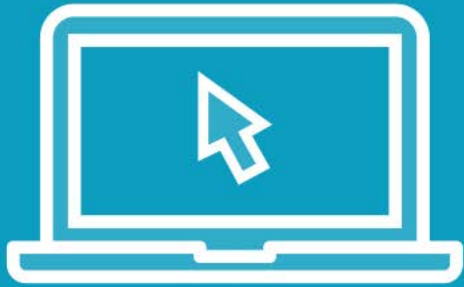
No awareness of who or if there is a parent route component



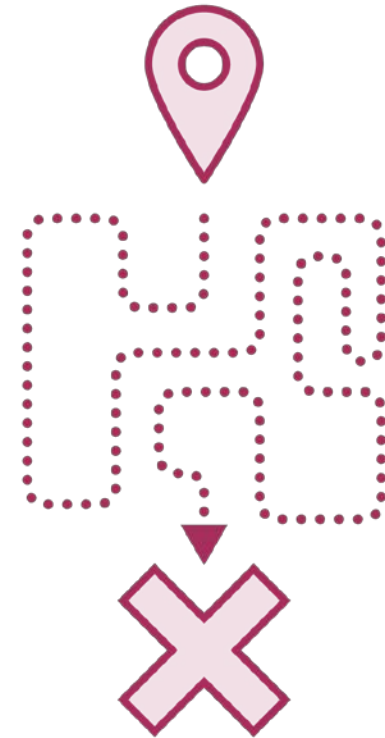




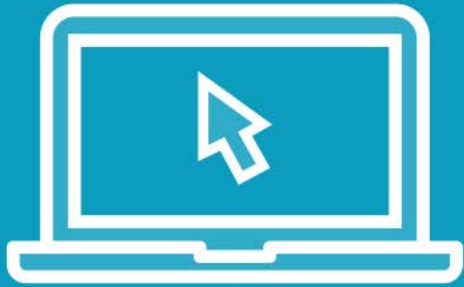
Demo



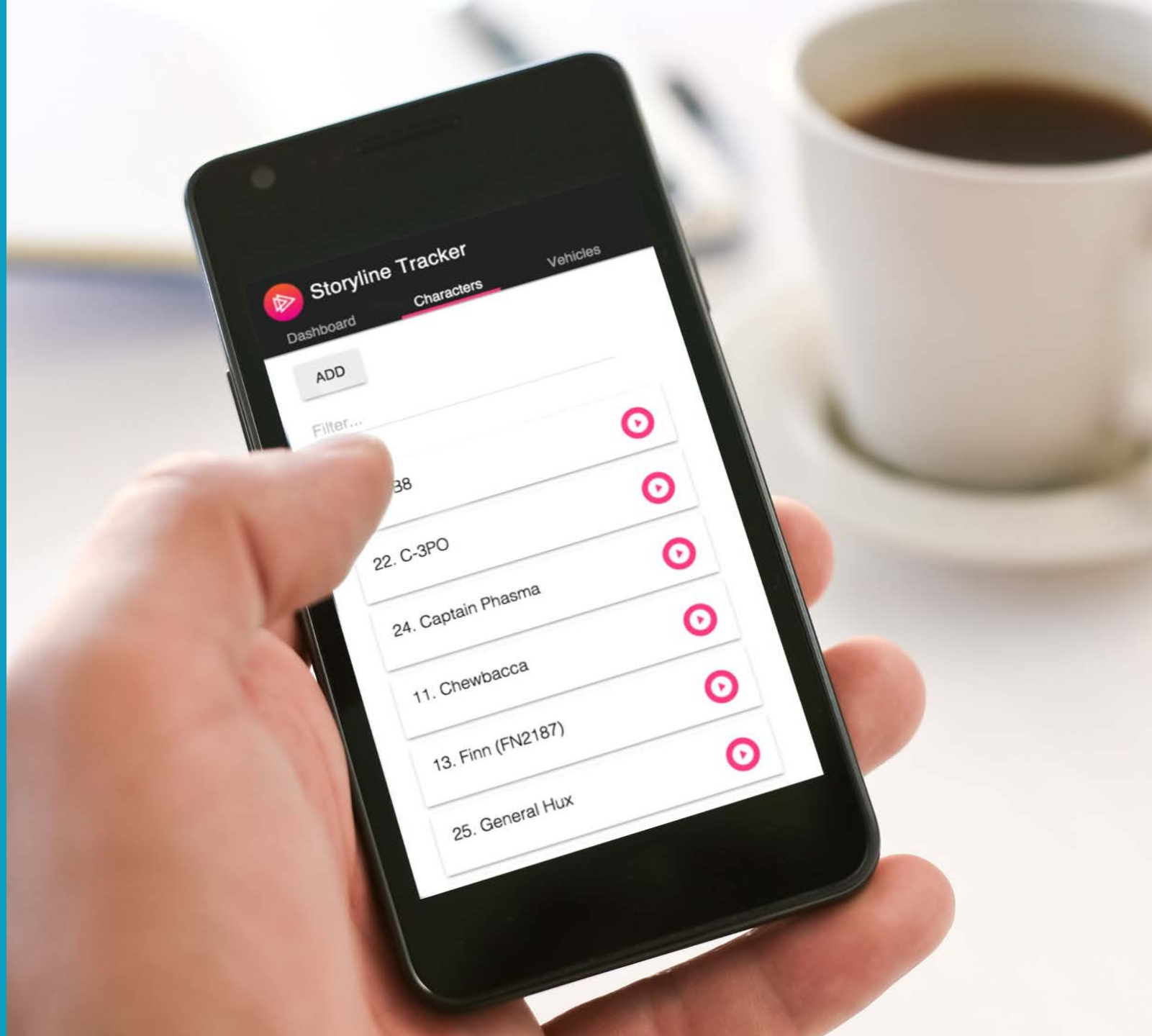
# Child Routing



# Demo



## Putting It All Together



# Routing



Routing essentials (config, link, outlet)

Routing Parameters

Routing API

Child Router helps isolate features

