



part 5

plan



routing concepts

routing in angular

# (url) routing

<http://localhost:4200/>

<http://localhost:4200/home>

<http://localhost:4200/notes>

<http://localhost:4200/notes/15>

# (url) routing

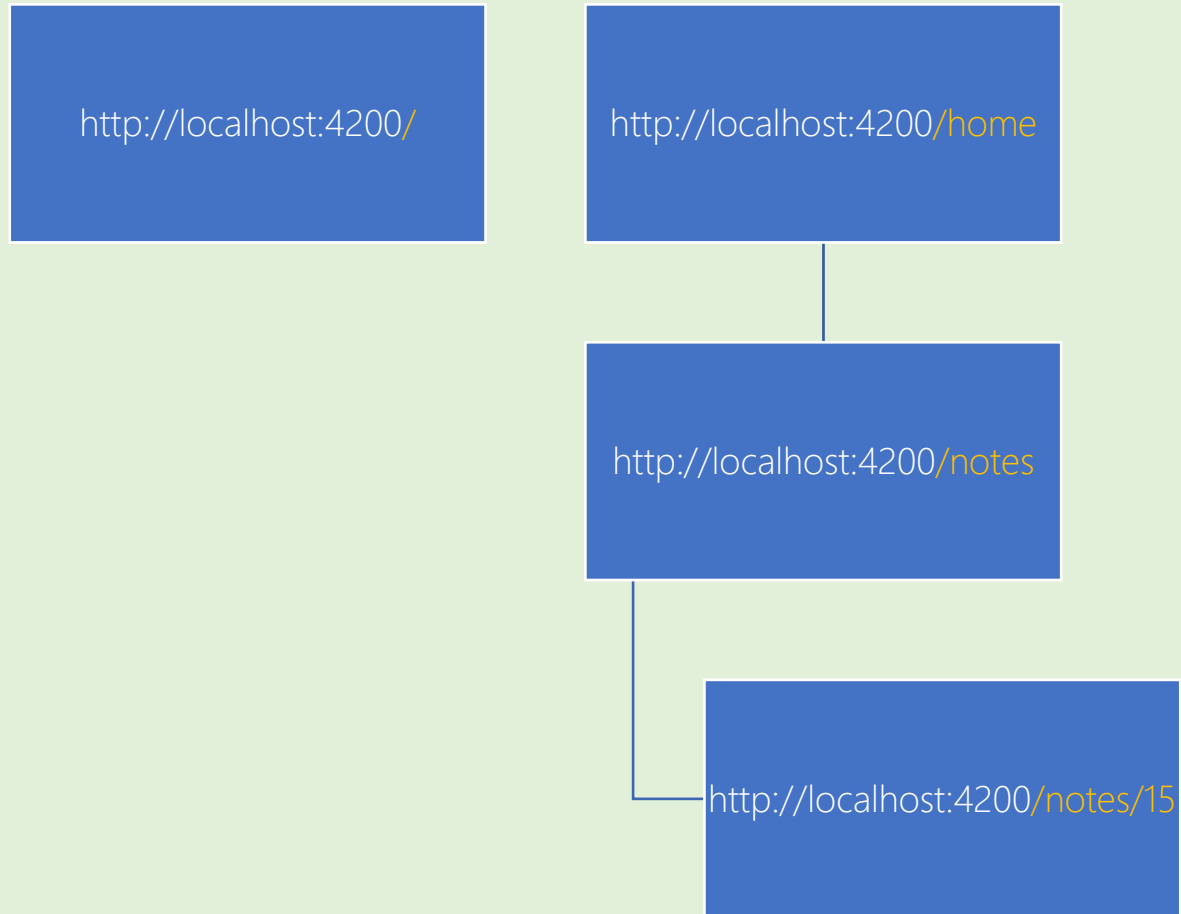
`http://localhost:4200/`

`http://localhost:4200/home?my=true&pr2=1`

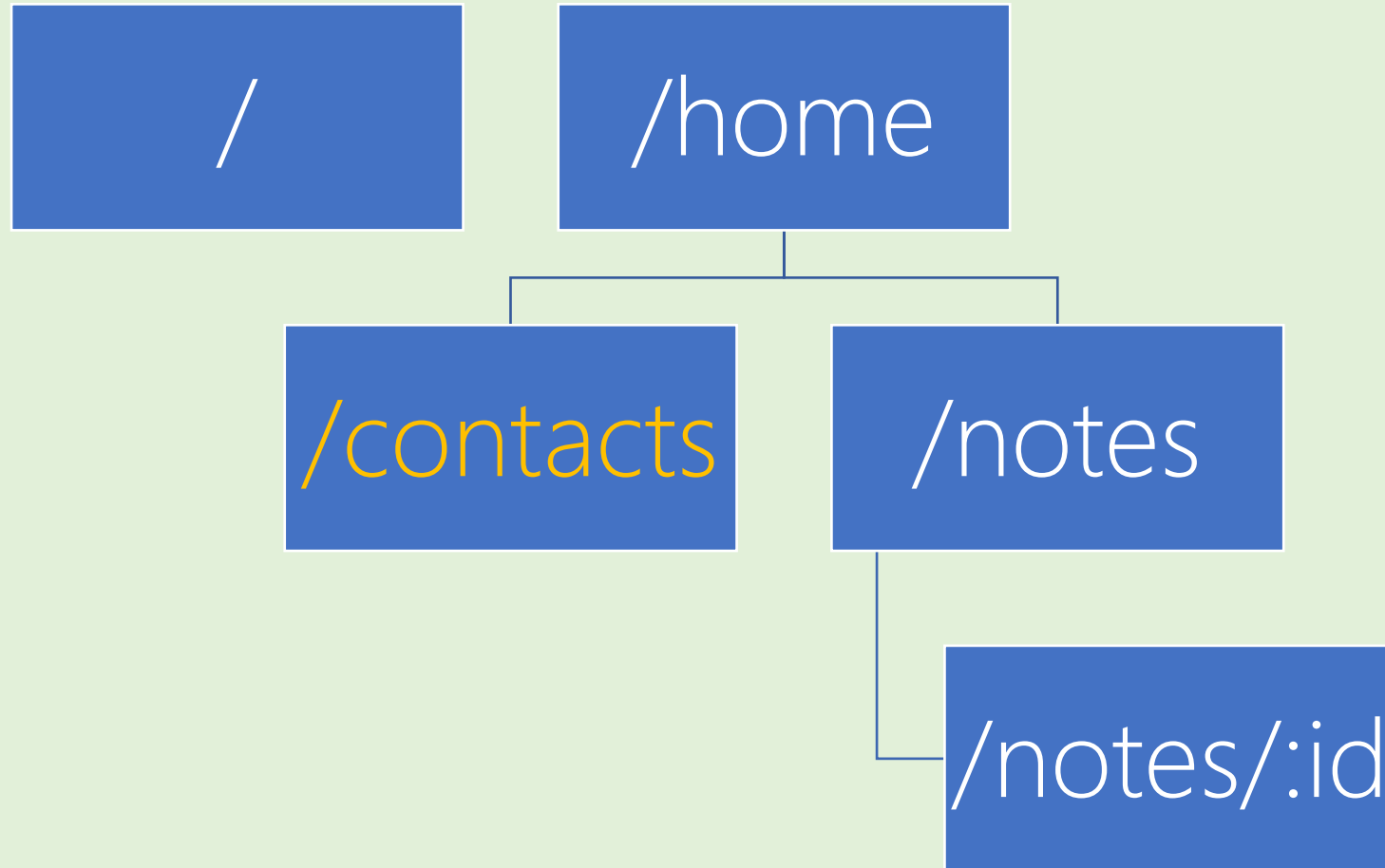
`http://localhost:4200/notes#display=my`

`http://localhost:4200/notes/15`

# (url) routing



# (url) routing



# why do we need routing?

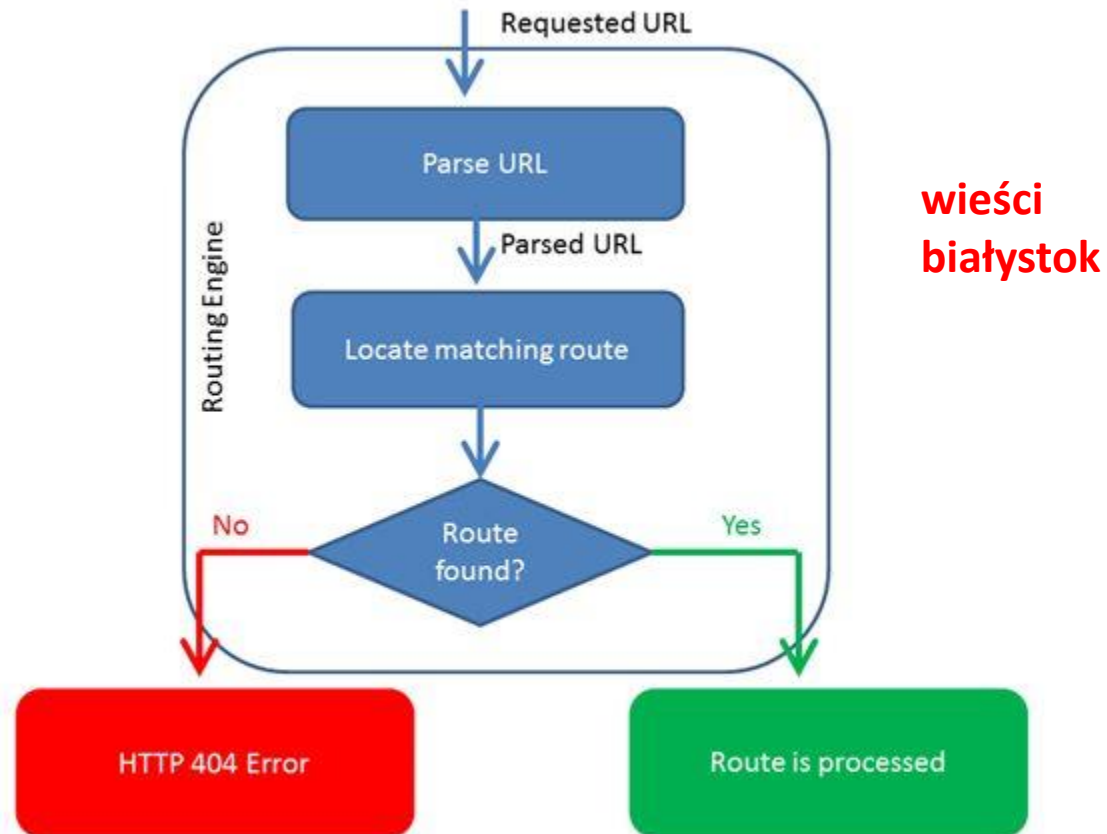
separate  
different areas  
of the app

maintain the  
state in the app

protect areas of  
the app based  
on ceratain rules

# routing concept

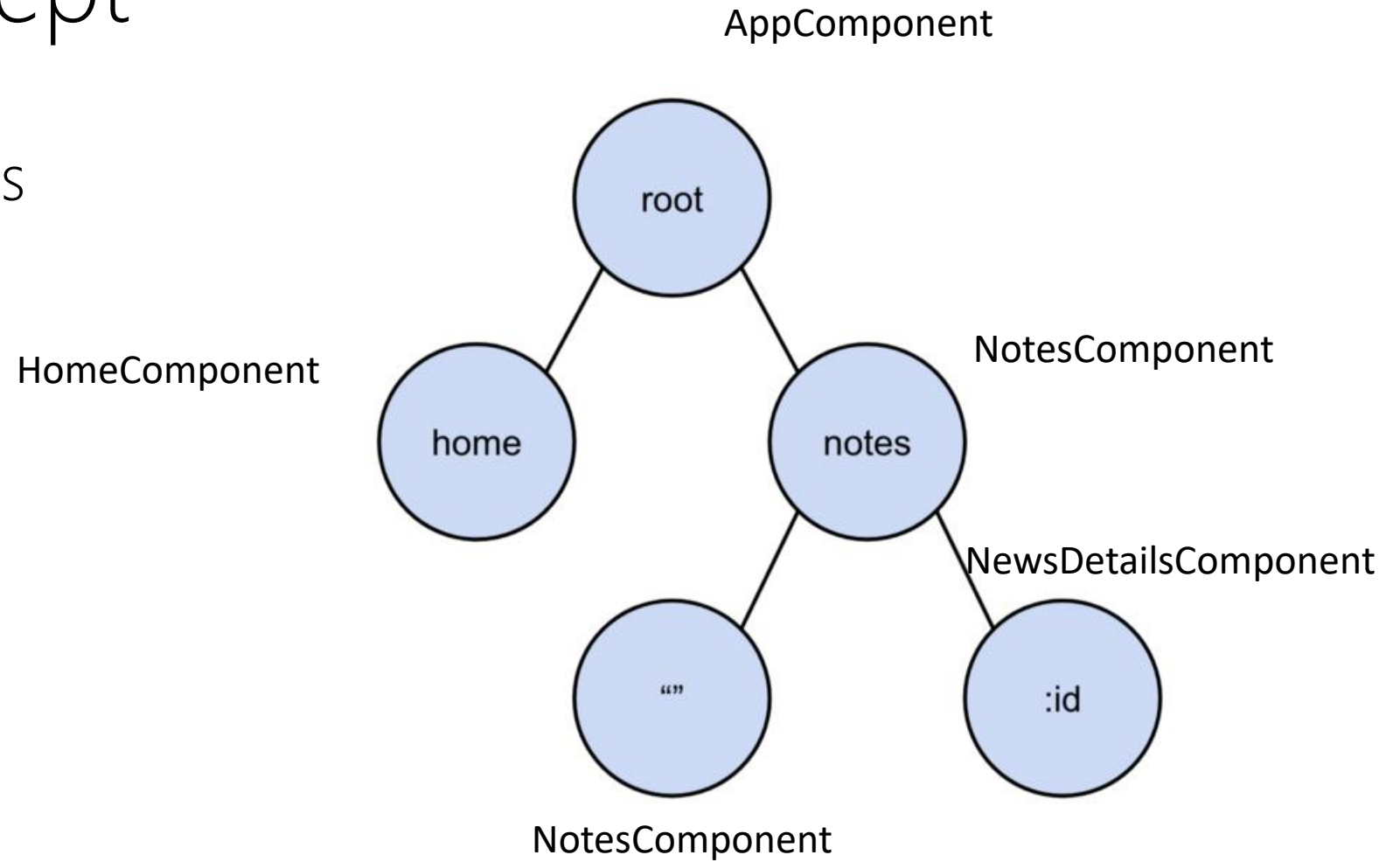
<http://www.onet.pl/wieści/bialystok>





# routing concept

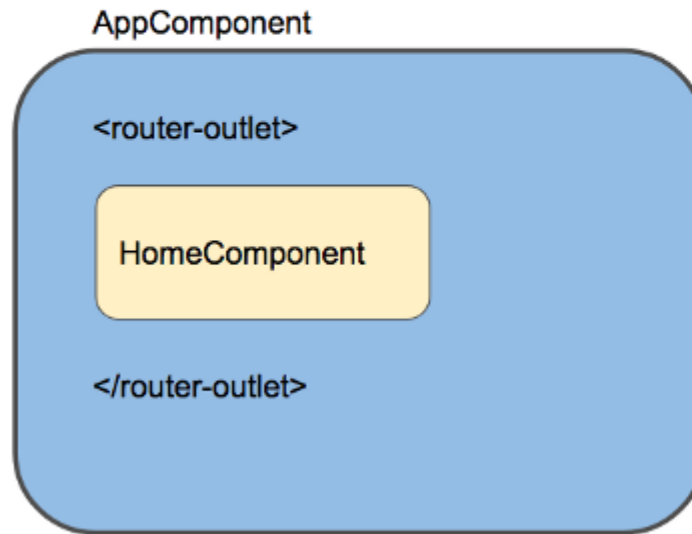
- tree of router states



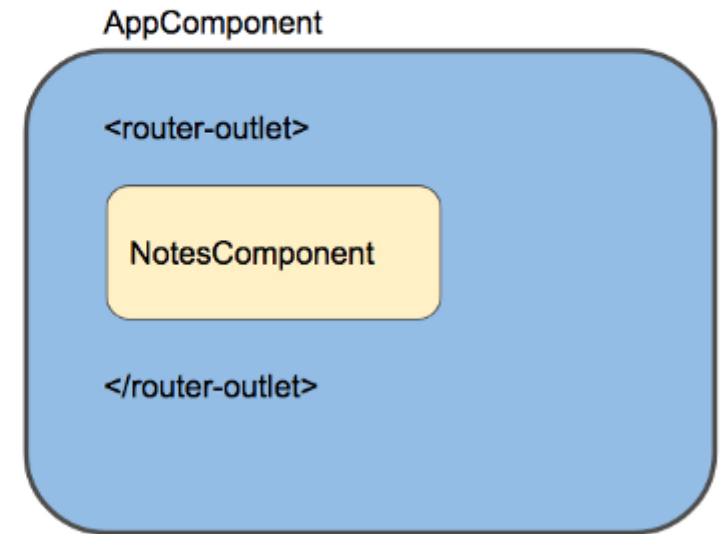
# routing concept

- component rendering based on path

**Case 1:**  
url: localhost:4200/home

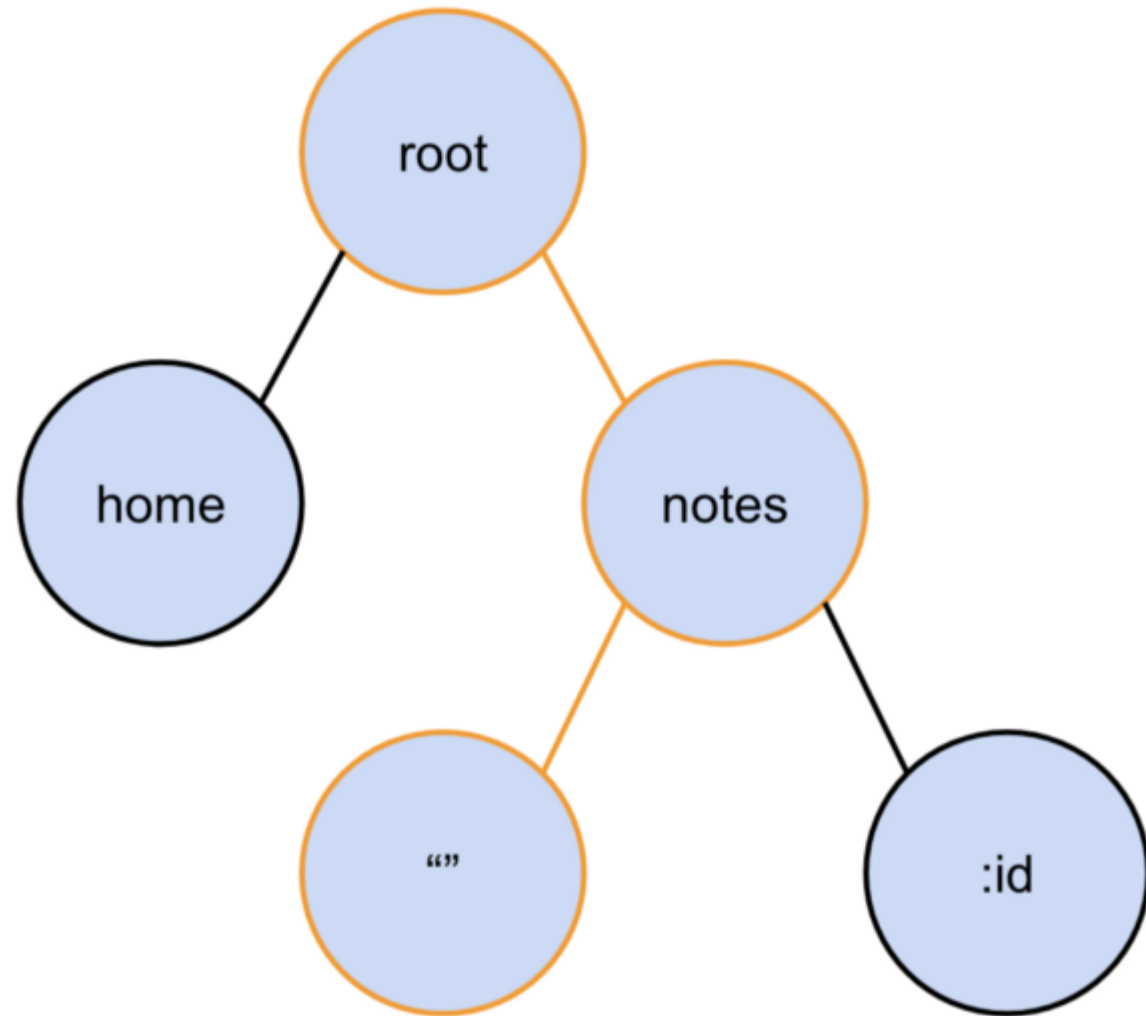


**Case 2:**  
url: localhost:4200/notes



# routing concept

- /notes
- one active route



# setup

```
import {  
    RouterModule  
} from '@angular/router';  
  
@NgModule({  
    imports: [RouterModule.forRoot(routes)],  
    exports: [RouterModule]  
})  
export class AppRoutingModule { }
```

# setup

```
const routes: Routes = [  
  { path: '', pathMatch: 'full',  
    redirectTo: 'contacts' },  
  { path: 'contacts', component: ContactListComponent },  
  { path: 'contact/:id',  
    component: ContactDetailComponent }  
];
```

# setup

app.component.html

```
<router-outlet></router-outlet>
```

app.module.ts

```
import { AppRoutingModuleModule } from './app-routing.module';
```

```
@NgModule({  
  declarations: [...],  
  imports: [AppRoutingModule],  
  providers: [],  
  bootstrap: [AppComponent]  
})  
export class AppModule { }
```

# navigation

```
<a [routerLink] = "'/contacts'">Contacts</a>
```

```
<a [routerLink]="['/contact', contact.id, ...]">Go to  
details</a>
```

routing strategies

HashLocationStrategy ('#/')

PathLocationStrategy (HTML 5 Mode)



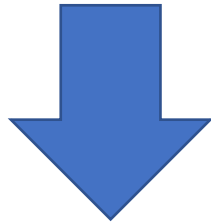
# RouteParams & RouteData services

```
export class AppComponent {  
  id: number; name: string;  
  
  constructor(  
    params: RouteParams, //ParamMap  
    data: RouteData  
  ) {  
    this.id = params.get('id');  
    this.name = data.get('name');  
  }  
}
```

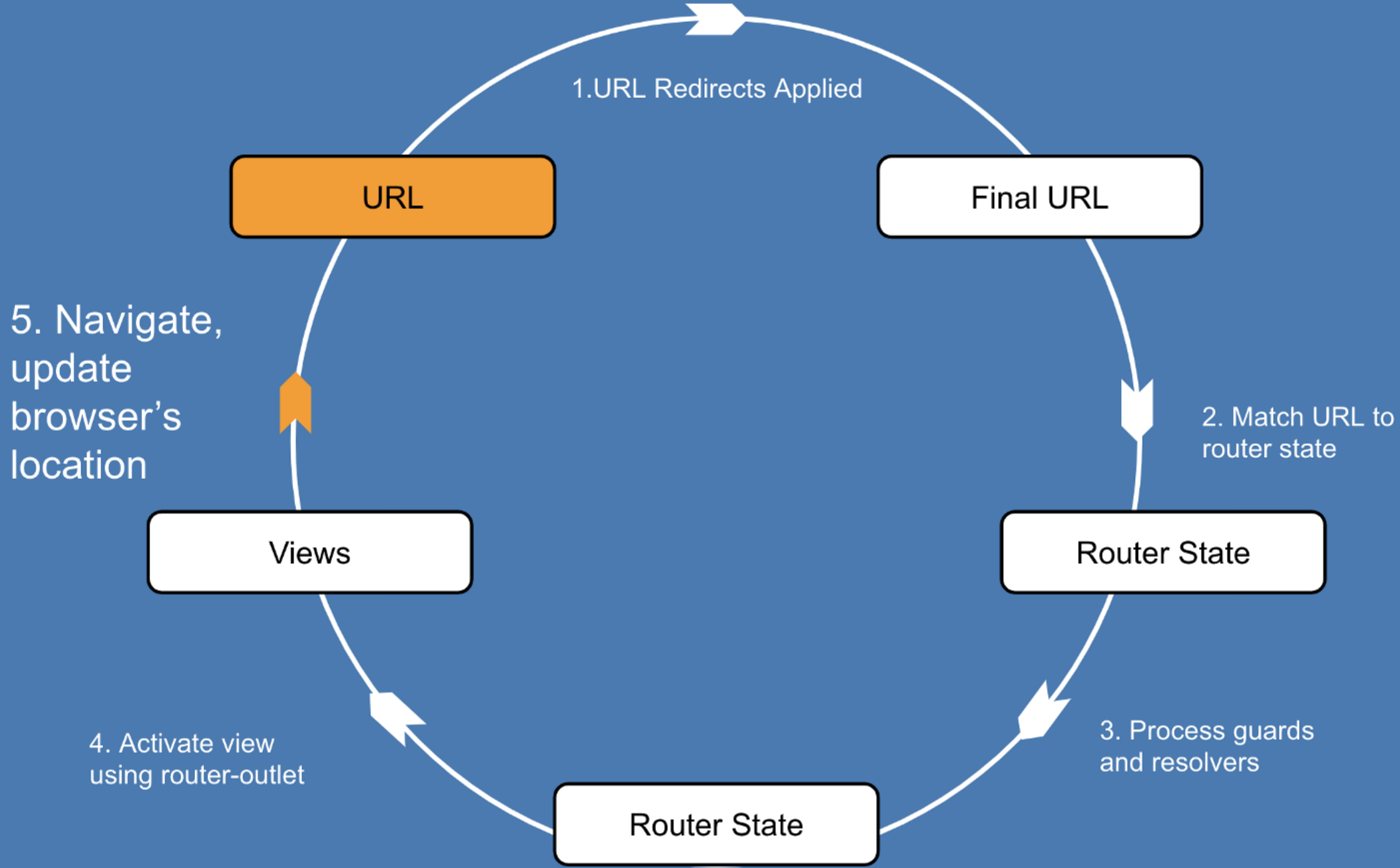
# router parameters in url

- matrix url notation:

`<a [routerLink]="['Product', {id:1,foo:3}]">Product 1</a>`



`localhost:3800/product/;id=1;foo=foo`



# stuff

route guards

router events

child navigation

custom resolver

...





<https://github.com/Banndzior>

#slack

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