Exercise (Instructions): Angular and RxJS Part 2

Objectives and Outcomes

In this exercise you will learn to use the *params* observable available through the ActivatedRoute service in Angular to redesign a component. At the end of this exercise you will be able to:

- Learn to use the built-in observables within Angular

- Leverage the built in observables to implement new features within your Angular application

Updating the Dish Service

- Update dish.service.ts by adding the following method to the service:

```
1    getDishIds(): Observable<number[]> {
2      return Observable.of(DISHES.map(dish => dish.id ));
3    }
```

Update the Dish Detail Component

- Update the dishdetail.component.ts as follows:

```
1    . . .
2
3    import 'rxjs/add/operator/switchMap';
4
5    . . .
6
7      dishIds: number[];
8      prev: number;
9      next: number;
10
11     . . .
12
13
14     ngOnInit() {
15
16       this.dishservice.getDishIds().subscribe(dishIds => this.dishIds = dishIds);
17       this.route.params
18         .switchMap((params: Params) => this.dishservice.getDish(+params['id']))
19         .subscribe(dish => { this.dish = dish; this.setPrevNext(dish.id); });
20     }
21
22     setPrevNext(dishId: number) {
23       let index = this.dishIds.indexOf(dishId);
24       this.prev = this.dishIds[(this.dishIds.length + index - 1)%this.dishIds
           .length];
25       this.next = this.dishIds[(this.dishIds.length + index + 1)%this.dishIds
           .length];
26     }
27
28     . . .
```

Updating the Dish Detail Template

- Update dishdetail.component.html as follows:

```
1    . . .
2      <div fxFlex="40" *ngIf="dish">
3        <md-card>
4          . . .
5
6          <md-card-actions>
7            <button md-button [routerLink]="['/dishdetail', prev]"><span class="fa
               fa-chevron-left fa-lg"></span></button>
8            <button md-button (click)="goBack()">BACK</button>
9            <button md-button>LIKE</button>
10           <button md-button>SHARE</button>
11           <span class="flex-spacer"></span>
12           <button md-button [routerLink]="['/dishdetail', next]"><span class="fa
               fa-chevron-right fa-lg"></span></button>
13         </md-card-actions>
14       </md-card>
15     </div>
16
17     <div fxFlex="40" *ngIf="dish">
18       <md-list>
19         . . .
20
21
```

- Save all the changes and do a Git commit with the message "RxJS Part 2".

Conclusions

In this exercise you learnt how to use a built-in observable within Angular to implement new features within your application.

Mark as completed