EX - Animating a list

- In this lesson we will create a component that contains a list

- the list will be displayed with ***ngFor**

- the list will be grabbed from server

- each list item will have a remove button to remove the element from the list

- we will animate the enter of the list and the remove of an element.

animate list enter

- We can use what we learned the previous lesson to animate the list entering

```
trigger('fadeIn', [
    transition(':enter', [
        animate('1s ease-in-out', keyframes([
            style({
                opacity: 0,
                transform: 'scale3d(0.3, 0.3, 0.3)'
            }),
            style({
                opacity: 1,
            }),
            style({
                opacity: 1,
                transform: 'scale3d(1, 1, 1)'
            }),
        ]))
    ])
]),
```

animate removing item from the list

- We can also animate the remove of an element from the list

```
trigger('fadeOut', [
    transition(':leave', [
      animate('1s ease-in', keyframes([
        style({
          opacity: 1,
          transform: 'translate3d(0, 0, 0)',
          offset: 0
        }),
        style({
          opacity: 0,
          transform: 'translate3d(100%, 0, 0)',
          offset: 1
        })
      ]))
    ])
  ]),
```

animate enter list with delay

- The enter animation of the list can be much better

- we can animate each item with a delay which will give a more list like animation rather than a block animation.

query

- **query** is used to find one or more inner elements within the current element

  - **query(":enter")**, **query(":animating")**, **query("@triggerName"), query("@*")**, **query(":self")**

- we can place an animation on the list container that will look for inner entering elements with the query

- this will allow us to set animation on children elements

stagger

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- used within an animation **query** call to issue a timing gap after each queried item is animated

```
trigger('list', [
    transition('* => *', [
      query(':enter', [
        style({
          opacity: 0,
          transform: 'scale3d(0.3, 0.3, 0.3)'
        }),
        stagger(300, [
          animate('1s ease-in-out', keyframes([
            style({
              opacity: 1,
            }),
            style({
              opacity: 1,
              transform: 'scale3d(1, 1, 1)'
            }),
          ]))
        ]),
      ], {optional: true})
    ]),
  ])
```

Summary

- Now that we have additional animation tools, we can animate a nice enter and leave animation for our list

Thank You

You are now an angular animation expert

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