What is the difference between ActivatedRoute and ActivatedRouteSnapshot in Angular4



What is the difference between ActivatedRouteSnapshot and ActivatedRoute in Angular 4? It's my understanding that ActivatedRouteSnapshot is a child of ActivatedRoute, meaning that ActivatedRoute Contains ActivatedRouteSnapshot.

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Incidentally, I tried running a Google search for an answer to this question, but I didn't find any of the search results to be understandable.



Thank you!

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angular2-router

edited Dec 26 '17 at 20:22 user2245766 121 9 asked Sep 5 '17 at 8:54

RajnishCoder

705 3 8 2

2 Answers



Since ActivatedRoute <u>can be reused</u>, ActivatedRouteSnapshot is an immutable object representing a particular version of ActivatedRoute . It exposes all the same properties as ActivatedRoute as plain values, while ActivatedRoute exposes them as observables.



Here is the comment in the implementation:

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If a router reuses a component and doesn't create a new activated route, you will have two versions of ActivatedRouteSnapshot for the same ActivatedRoute. Suppose you have the following routing configuration:

```
path: /segment1/:id,
component: AComponent
```

Now you navigate to:

```
/segment1/1
```

You will have the param in the activatedRoute.snapshot.params.id as 1.

Now you navigate to:

```
/segment1/2
```

You will have the param in the activatedRoute.snapshot.params.id as 2.

You can see it by implementing the following:

```
export class AComponent {
  constructor(r: ActivatedRoute) {
    r.url.subscribe((u) => {
      console.log(r.snapshot.params.id);
    });
```

edited Jan 12 '18 at 9:11

answered Sep 5 '17 at 8:56



55.1k 23 164 285

1 Are you sure about the middle section? If you navigate to the same component with different param, then snapshot should not be updated..... – Royi Namir Mar 26 '18 at 19:46 🎤

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2 @RoyiNamir, yes, you're right with both statements – Max Koretskyi aka Wizard Apr 5 '18 at 10:41



There are 2 ways to get the parameter from the route.

1. Snapshot (route.snapshot.paramMap.get). Read it during init.



Use the Snapshot if you only need the initial value of the parameter once during the component's initialization, and don't expect the URL to change while the user is still on that same component.

• I.e. if on a product/2 route, and the only way they'd get to product/3 is by going back to the product search screen and then clicking a product detail (leaving the detail component, then re-opening it with a new route param)

2. Observable (route.paramMap.subscribe). Subscribe to it during init.

Use the Observable if it's possible for the route to change while the user is still on the same component, and hence the Component's initialization would not be called again, but the observable would call your subscribed logic when the URL changed.

• I.e. if on your product detail page you have a "next" button to go to the next id, hence the user did not leave/re-open the component but the URL did receive a new param.

Generally speaking, subscribing is the safest route if you're unsure.

edited Mar 20 at 14:34

answered Nov 10 '18 at 19:24



Would subscribing to an observable count as "real work" that should be done in ng0nInit instead of the constructor? - Charles Wood Jan 7 at 15:55

1 @CharlesWood I think I'm using "constructor" and "ngOnInit" a little interchangeably (sorry) ... pretty sure I just mean "ngOnInit". If I remember, I'll come back and edit it later – Don Cheadle Jan 7 at 21:32

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