For this thread RouterOutlet in Angular will be discussed. The term RouterOutlet will be defined. As well, the properties and methods of RouterOutlet will be discussed. So, what is RouterOutlet in Angular?

“Router-outlet in Angular works as a placeholder which is used to load the different components dynamically based on the activated component or current route state. Navigation can be done using router-outlet directive and the activated component will take place inside the router-outlet to load its content.” (Pandya, n.d.) For example, it can be said that RouterOutlet allows us to configure a single page application that will allow the navigation, search form, and footer of a page to be static, meaning they do not change based upon a user’s activities, yet we can have different components of the parent (root) and child component change dynamically based on a user’s activities. In essence we can create an application that has data passed to it while navigating from one route to another that will allow different views of the single page application based upon the users’ activities. (Fain & Moiseev, 2018a)

The best table I could find in my research to show the properties of RouterOutlet come from this week’s web articles reading and are as follows:

| Property | Description |
| --- | --- |
| @[Input](https://angular.io/api/core/Input)() name: [PRIMARY\_OUTLET](https://angular.io/api/router/PRIMARY_OUTLET) | The name of the outlet  See also:  [named outlets](https://angular.io/guide/router-tutorial-toh#displaying-multiple-routes-in-named-outlets) |
| @[Output](https://angular.io/api/core/Output)('activate') activateEvents: [EventEmitter](https://angular.io/api/core/EventEmitter)<any> |  |
| @[Output](https://angular.io/api/core/Output)('deactivate') deactivateEvents: [EventEmitter](https://angular.io/api/core/EventEmitter)<any> |  |
| @[Output](https://angular.io/api/core/Output)('attach') attachEvents: [EventEmitter](https://angular.io/api/core/EventEmitter)<unknown> | Emits an attached component instance when the [RouteReuseStrategy](https://angular.io/api/router/RouteReuseStrategy) instructs to re-attach a previously detached subtree. |
| @[Output](https://angular.io/api/core/Output)('detach') detachEvents: [EventEmitter](https://angular.io/api/core/EventEmitter)<unknown> | Emits a detached component instance when the [RouteReuseStrategy](https://angular.io/api/router/RouteReuseStrategy) instructs to detach the subtree. |
| isActivated: boolean | Read-Only |
| component: Object | Read-Only |
| activatedRoute: [ActivatedRoute](https://angular.io/api/router/ActivatedRoute) | Read-Only |
| activatedRouteData: [Data](https://angular.io/api/router/Data) | Read-Only |

(*Angular*, n.d.-b)

The methods of RouterOutlet in Angular can be summarized from the same article found from this week’s reading as such:

Methods

| detach()  [mode\_edit](https://github.com/angular/angular/edit/main/packages/router/src/directives/router_outlet.ts?message=docs(router)%3A%20describe%20your%20change...#L278-L292) [code](https://github.com/angular/angular/tree/15.0.4/packages/router/src/directives/router_outlet.ts#L278-L292) |
| --- |
| Called when the [RouteReuseStrategy](https://angular.io/api/router/RouteReuseStrategy) instructs to detach the subtree |
| detach(): [ComponentRef](https://angular.io/api/core/ComponentRef)<any>  Parameters  There are no parameters.  Returns  [ComponentRef](https://angular.io/api/core/ComponentRef)<any> |

(*Angular*, n.d.-b)

| attach()  [mode\_edit](https://github.com/angular/angular/edit/main/packages/router/src/directives/router_outlet.ts?message=docs(router)%3A%20describe%20your%20change...#L293-L302) [code](https://github.com/angular/angular/tree/15.0.4/packages/router/src/directives/router_outlet.ts#L293-L302) |
| --- |
| Called when the [RouteReuseStrategy](https://angular.io/api/router/RouteReuseStrategy) instructs to re-attach a previously detached subtree |
| attach(ref: [ComponentRef](https://angular.io/api/core/ComponentRef)<any>, activatedRoute: [ActivatedRoute](https://angular.io/api/router/ActivatedRoute))  Parameters   |  |  |  | | --- | --- | --- | | ref | [ComponentRef](https://angular.io/api/core/ComponentRef)<any> |  | | activatedRoute | [ActivatedRoute](https://angular.io/api/router/ActivatedRoute) |  | |

(*Angular*, n.d.-b)

| deactivate()  [mode\_edit](https://github.com/angular/angular/edit/main/packages/router/src/directives/router_outlet.ts?message=docs(router)%3A%20describe%20your%20change...#L303-L312) [code](https://github.com/angular/angular/tree/15.0.4/packages/router/src/directives/router_outlet.ts#L303-L312) |
| --- |
| deactivate(): void  Parameters  There are no parameters.  Returns  void |

(*Angular*, n.d.-b)

| activateWith()  [mode\_edit](https://github.com/angular/angular/edit/main/packages/router/src/directives/router_outlet.ts?message=docs(router)%3A%20describe%20your%20change...#L313-L341) [code](https://github.com/angular/angular/tree/15.0.4/packages/router/src/directives/router_outlet.ts#L313-L341) |
| --- |
| activateWith(activatedRoute: [ActivatedRoute](https://angular.io/api/router/ActivatedRoute), resolverOrInjector?:  [EnvironmentInjector](https://angular.io/api/core/EnvironmentInjector) | [ComponentFactoryResolver](https://angular.io/api/core/ComponentFactoryResolver))  Parameters   |  |  |  | | --- | --- | --- | | activatedRoute | [ActivatedRoute](https://angular.io/api/router/ActivatedRoute) |  | | resolverOrInjector | [EnvironmentInjector](https://angular.io/api/core/EnvironmentInjector) | [ComponentFactoryResolver](https://angular.io/api/core/ComponentFactoryResolver) | Optional. Default is undefined. | |

(*Angular*, n.d.-b)

In conclusion we have defined what the RouterOutlet in Angular is. From the summary in this post, we now know the different properties and methods that are apart of the RouterOutlet. This information is vital in how we can structure our applications using Angular single page applications that move from one view to another using different routes.

References:

Pandya, M. (n.d.). *Router-Outlet In Angular*. Retrieved January 9, 2023, from <https://www.c-sharpcorner.com/blogs/routeroutlet-in-angular>

Fain, Y., & Moiseev, A. (2018a). *Angular Development with Typescript*. Manning.

*Angular*. (n.d.-b). Retrieved January 9, 2023, from <https://angular.io/api/router/RouterOutlet>