

# Control User Navigation with Route Guards



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# What We Will Cover in This Module

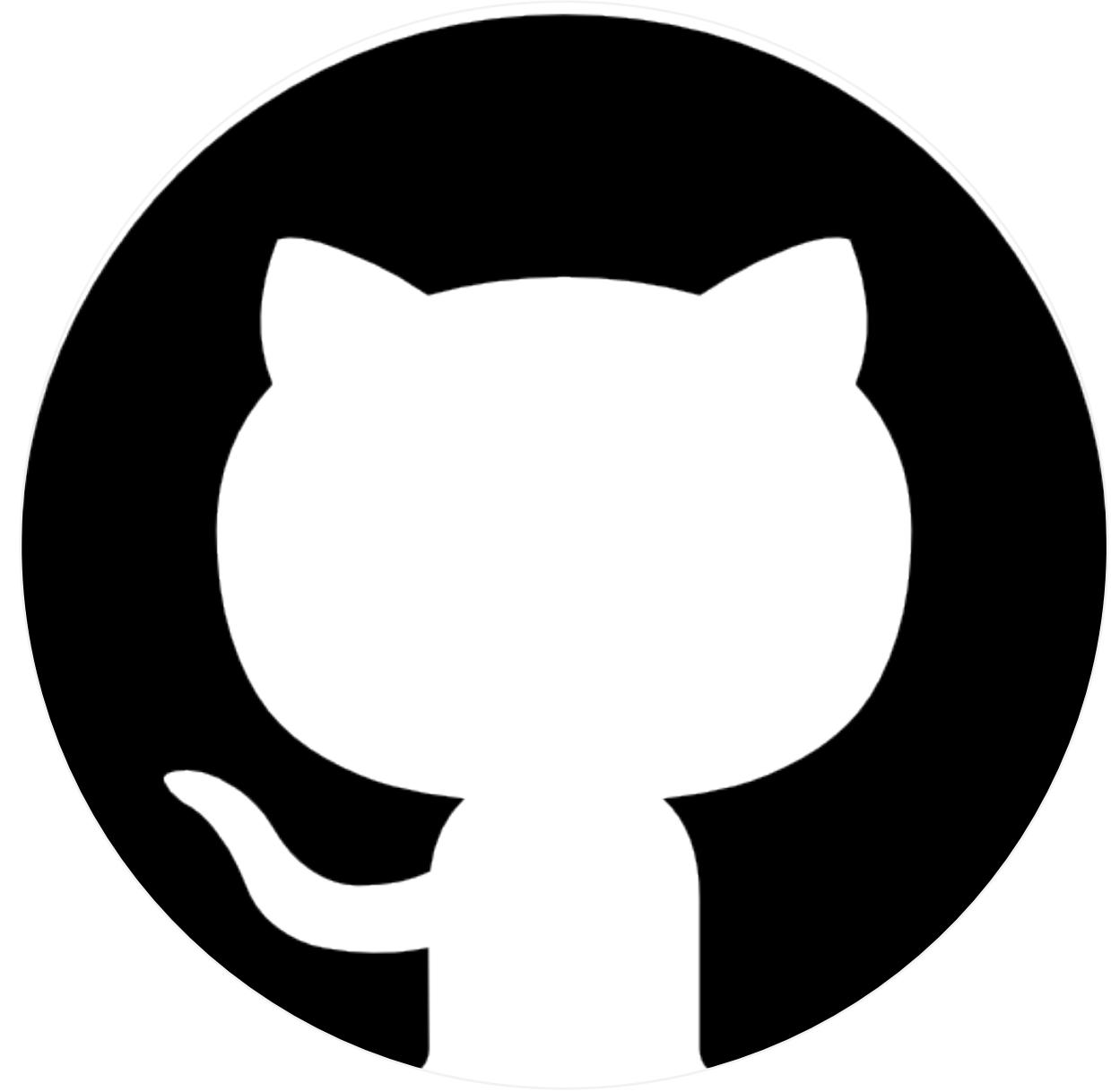


**Types of Angular Route Guards**

**When and how to use route guards**

**When and how to use a resolver**

**Converting a class based route guard  
to a functional route guard**



## Repository for Module Nine

[github.com/lara-newsom/angular-routing-course](https://github.com/lara-newsom/angular-routing-course)

- module-nine-start

# Angular Route Guards

**CanActivate**  
**CanActivateChild**  
**CanDeactivate**  
**CanMatch**

**Chaining route guards  
means we can do multiple  
checks before routing**

# Route Guard Returns True

**CanActivate**

**Navigation continues**

**CanActivateChild**

**Navigation continues**

**CanDeactivate**

**Navigation continues**

**CanMatch**

**Navigation continues**

# Route Guard Returns False

**CanActivate**

**Navigation is canceled**

**CanActivateChild**

**Navigation is canceled**

**CanDeactivate**

**Navigation is canceled**

**CanMatch**

**Navigation is skipped and the router continues checking remaining routes**

The canMatch route guard  
is very useful for feature  
flagged routes

# Route Guard Returns Url Tree

**CanActivate**

**Navigation is canceled, and new route is initiated**

**CanActivateChild**

**Navigation is canceled, and new route is initiated**

**CanDeactivate**

**Navigation is canceled, and new route is initiated**

**CanMatch**

**Not available**

Returning a url tree allows  
altering the route or  
redirecting to an  
alternative view

**CanActivate** → Controls navigation to a route

**CanActivateChild** → Controls navigation to child routes of a route

**CanDeactivate** → Controls navigation away from a route

# Functional Route Guards

**Introduced in version 14  
with the inject function**

**Can inject service dependencies directly**

Demo

**Adding a canMatch route guard**

Demo

**Adding a canActivate route guard**

**Functional route guards are  
simple reusable functions  
that are easy to share  
between guard types**



# Route Resolvers

-BREAD  
-EGGS  
-MILK

**Fetches data before a route can be activated**  
**Blocks navigation until the function returns**  
**Not a great solution for prefetching data from slow endpoints**



## RxJs in Angular

<https://www.pluralsight.com/courses/rxjs-angular-reactive-development>

## NgRx Fundamentals

<https://www.pluralsight.com/courses/ngrx-fundamentals>

**Up Next:**

# **Unit Testing the Angular Router**

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