

Unit Testing Angular Routing



Lara Newsom

Software Engineer | Speaker | Angular GDE

@laranerdsm

What We Will Cover in This Module

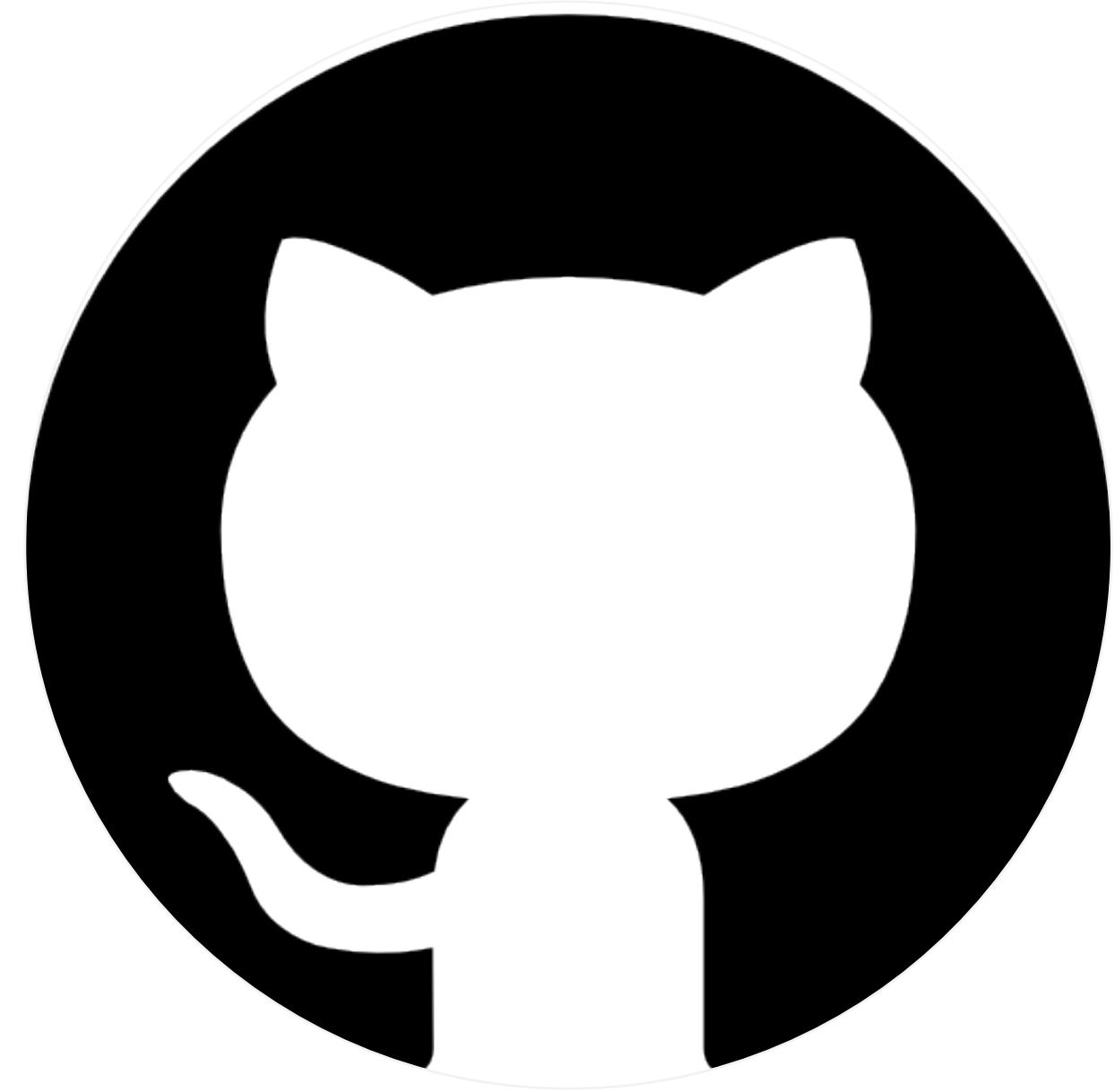


What parts of routing are valuable to test

What tests should be unit tests and what should be end to end tests

What the RouterTestingHarness is and how to use it

Writing unit tests using jest test runner



Repository for Module Ten

github.com/lara-newsom/angular-routing-course

- module-ten-start

**This module adds additional
node dependencies, so
reinstall the node modules
to be able to code along**

Additional Development Dependencies

Angular testing library

<https://testing-library.com/docs/angular-testing-library/intro>

Jest-auto-spies

<https://github.com/hirezio/auto-spies>

Observer-spy

<https://github.com/hirezio/observer-spy>

Am I testing my code or am I testing the framework?

What Not to Test

Configuration settings

Route declarations

Internal router functionality



Unit testing navigation between components can be very difficult



End to End Testing

Easier to test interaction between components

Perfect for testing route changes

Verify that routes link to the correct views

Verify that routes pass the correct state between views



Angular End to End Testing with Cypress

<https://www.pluralsight.com/courses/angular-end-to-end-testing-cypress>

Testing Functional Route Guards

Easy to unit test

Leverage TestBed runInInjectionContext to provide mocked services to the route guard

Testing router service methods

**RouterService is a service that
can be mocked and spied on**

Useful for testing code inside event handlers

Testing RouterLink

RouterLinks are notoriously difficult to test

RouterTestingModule provides a wrapper component with a router outlet

RouterTestingModule reduces a lot of boilerplate to set up tests

Use provideLocationMocks to test the location

Demo

Unit testing functional route guards

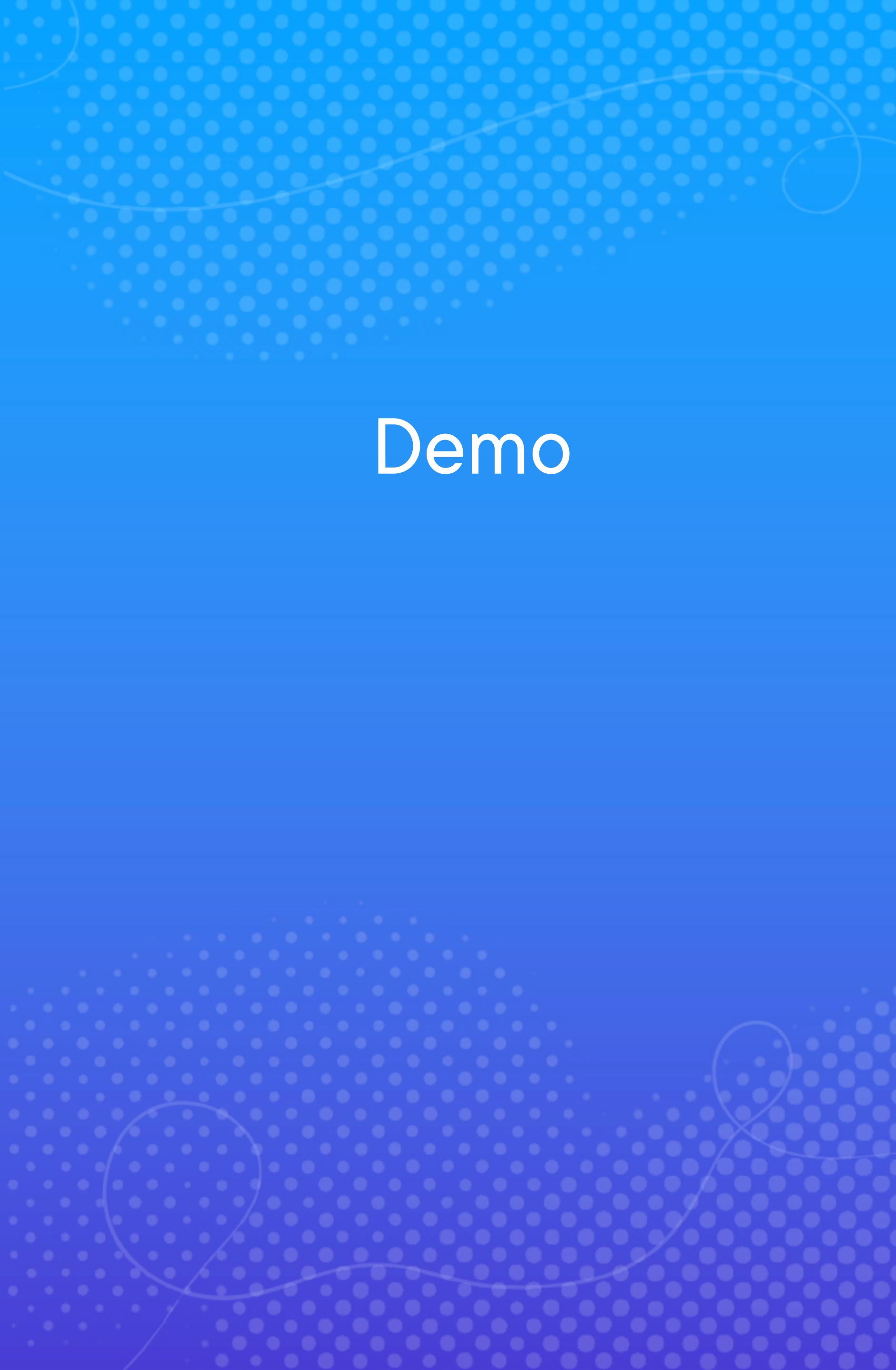
SIFERS Unit Testing

Testing with SIFERS

<https://medium.com/@kolodny/testing-with-sifers-c9d6bb5b362>

Getting the Most Value Out of Your Angular Component Tests

<https://timdeschryver.dev/blog/getting-the-most-value-out-of-your-angular-component-tests>



Demo

Unit testing router.navigate

Demo

Unit testing router links

In version 15 Angular introduced
the RouterTestingModule which
makes testing router links easier



Write Better Tests without Router Mocks or Stubs

<https://blog.angular.io/write-better-tests-without-router-mocks-stubs-bf5fc95c1c57>



Pluralsight Angular Path

<https://app.pluralsight.com/paths/skills/angular>