



Gemeente Haarlem

Short Recap – day #1



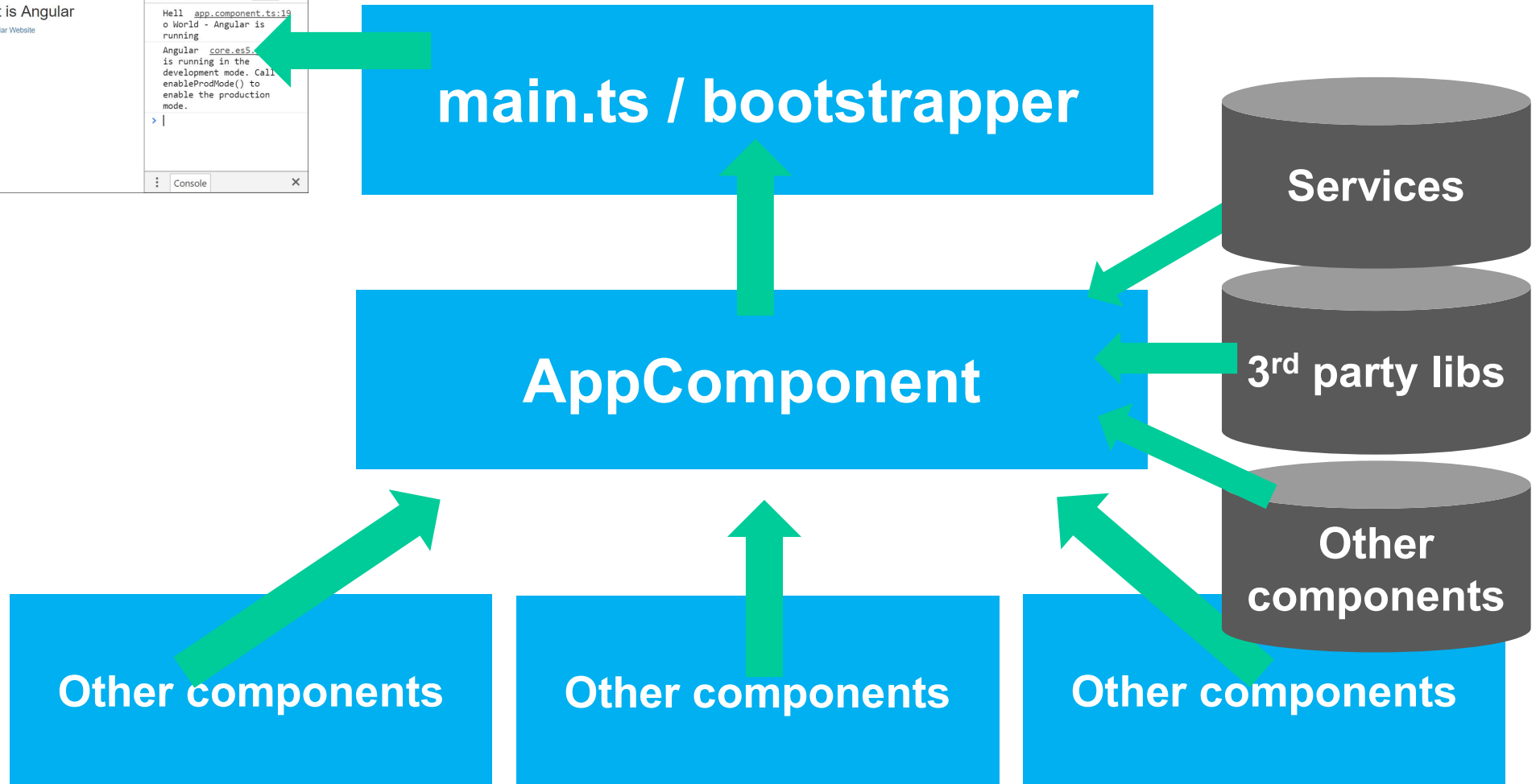
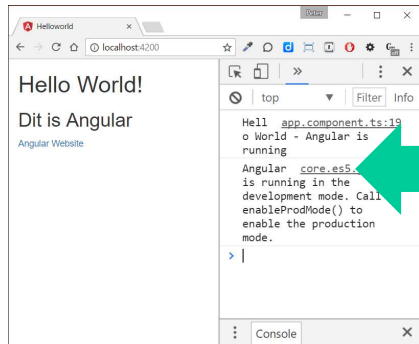
Peter Kassenaar
info@kassenaar.com



Agenda - day #1

- Angular **New Features** + refresher
 - NPM, npx, node_modules, webpack, Vite and more
 - Files – package.json, angular.json, tsconfig.json, app.config.ts
 - @for, @if-then-else, @switch()
 - Standalone components and module-less defaults
 - Dependency Injection
 - Updating Angular versions
 - Dependency Injection
 - Getters vs. Methods, types **vs** interfaces
 - New provideHttpClient()
 - Subscribing vs. Async pipe
- **Routing** & Guards
 - Creating & using guards, lazy loading

Structure: modern Angular apps



(Note: no Module anymore, as this is now handled by standalone components)

Angular Coding Style Guide on structure

```
project root
├─ src
│  ├─ app
│  │  └─ core
│  │     └─ exception.service.ts|spec.ts
│  │     └─ user-profile.service.ts|spec.ts
│  │  └─ heroes
│  │     └─ hero
│  │        └─ hero.component.ts|html|css|spec.ts
│  │     └─ hero-list
│  │        └─ hero-list.component.ts|html|css|spec.ts
│  │     └─ shared
│  │        └─ hero-button.component.ts|html|css|spec.ts
│  │        └─ hero.model.ts
│  │        └─ hero.service.ts|spec.ts
│  │     └─ heroes.component.ts|html|css|spec.ts
│  │     └─ heroes.routes.ts
│  │  └─ shared
│  │     └─ init-caps.pipe.ts|spec.ts
│  │     └─ filter-text.component.ts|spec.ts
│  │     └─ filter-text.service.ts|spec.ts
│  └─ villains
│     └─ villain
│        └─ ...
│     └─ villain-list
│        └─ ...
```

File structure convention

Single response

Rule of O

Naming

General T

Guideline

Separate with dots

Symbols names

Service r

Bootstrap

Component

Component prefix

Directive

Directive prefix

Pipe name

Unit test

Application and NgMod

Overall s guideline

Folders-t structure

<https://angular.dev/style-guide>



Useful information

Elsewhere on the internet

TypeScript Guru – Matt Pocock

The screenshot shows the YouTube channel page for Matt Pocock. The channel name is "Matt Pocock" with the handle "@mattpocockuk" and 120K subscribers. The bio states: "Become a TypeScript wizard with tips, tricks and tutorials. Plus, updates from the latest TypeScript releases (and other open ...)".

The featured video is titled "Types vs Interfaces: What I Got Wrong In 2022" with 68K views and posted 1 month ago. The video thumbnail shows Matt Pocock with a red arrow pointing to his head and the text "MATT POCKOCK WAS WRONG".

Below the featured video is a section for "Shorts" with five thumbnails. The first thumbnail shows Matt Pocock with the text "doc is great because I don't". The second thumbnail shows a comparison between JSDoc and TypeScript with the text "No build step" and "Build step". The third thumbnail shows Matt Pocock with the text "make a change there it". The fourth thumbnail shows a code snippet:

```
props: MyComponent.Props,

return < />
```

. The fifth thumbnail shows Matt Pocock with the text "here or generic type." and a code snippet:

```
method: "POST",
body: JSON.stringify(input),
});

type CreateAPIMethod = <
TInput extends Record<string, string>,
TOutput>
[Output]
```

.

https://www.youtube.com/results?search_query=matt+pocock

More info on Angular SSR

Medium

Search

Write

Sign up

Server-side rendering with Angular



React Masters

Follow

5 min read · Nov 14, 2024



6

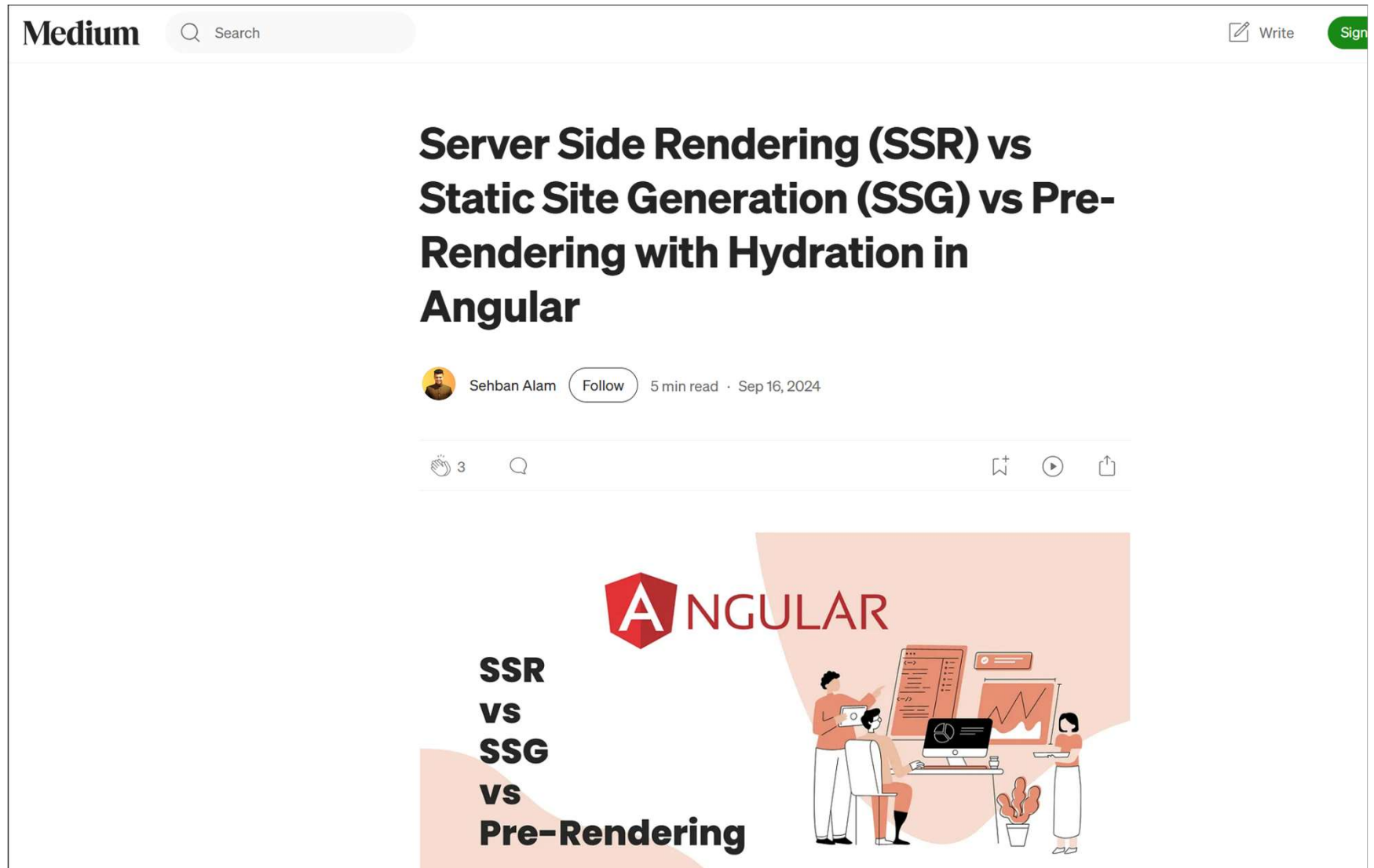


**Server -Side
Rendering
with Angular**



<https://medium.com/@reactmasters.in/server-side-rendering-with-angular-637b0f087c13>

More info on SSG



<https://medium.com/@sehban.alam/server-side-rendering-ssr-vs-static-site-generation-ssg-vs-pre-rendering-with-hydration-in-49ff2ef59427>



Routing in Angular applications

- Use `<a [routerLink]>` when:
 - You just want a **clickable link**.
 - Navigation is **simple and declarative**.
 - **No logic** needs to be executed before navigation.
 - SEO-friendly, accessible code
- Use `this.router.navigate()` when:
 - Navigation needs to be **conditional**.
 - You need to **run some logic** first (e.g., save a form, log out user, etc).
 - You're **navigating from a class** (e.g., after an API call or in a button handler).
 - Navigating from a **service**

Simple examples

Using routerLink:

```
<a routerLink="home">Home</a>
```

Navigating from code:

```
constructor(private router: Router) {}

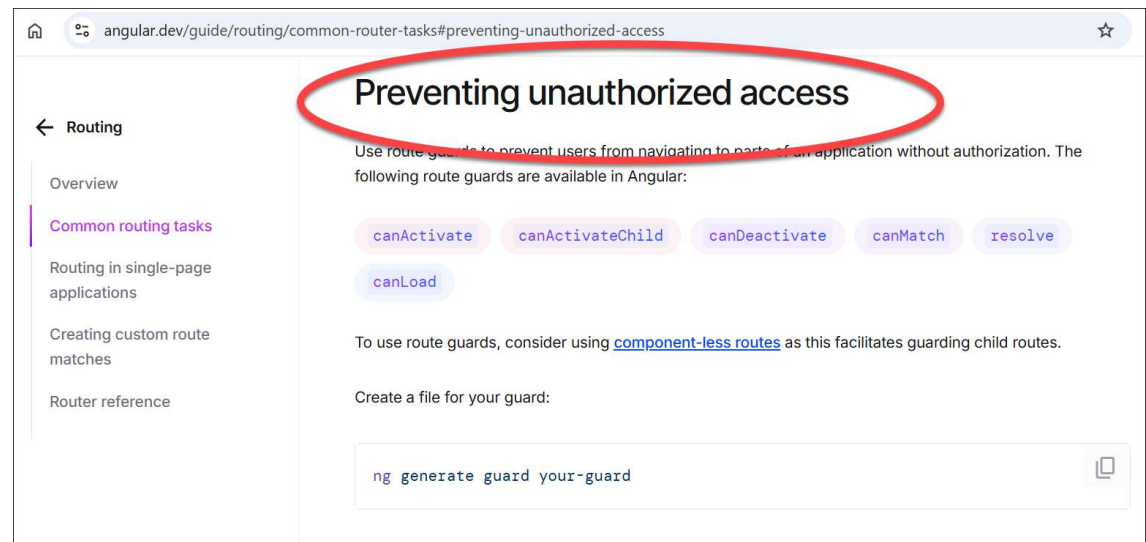
onClick() {
  if (this.form.valid) {
    this.router.navigate(['/home']);
  }
}
```

```
<button (click)="onClick()">Submit and go Home</button>
```



Preventing unauthorized access

- Use **Route Guards** to prevent users from navigating to parts of an application without authorization.
- The following route guards are **available** in Angular:
 - `canActivate`
 - `canActivateChild`
 - `canDeactivate`
 - `canMatch`
 - `resolve`
 - `canLoad`



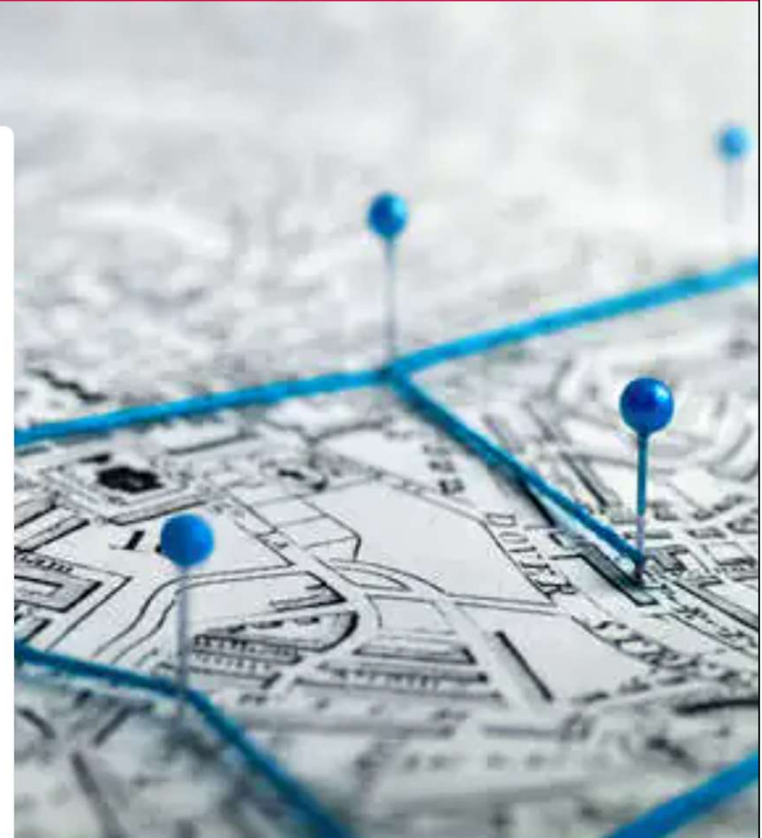


Child Routes

[ANGULAR WORKSHOPS](#)[PRESENTATIONS](#)[TEAM](#)[BLOG](#)

Routing and Lazy Loading with Angular's Standalone Components

For lazy loading, we can directly point to further routing configurations but also to Standalone Components.



<https://www.angulararchitects.io/en/blog/routing-and-lazy-loading-with-standalone-components/>



In general: Manfred Steyer, GDE

ANGULAR ARCHITECTS

ANGULAR WORKSHOPS PRESENTATIONS TEAM BLOG CONTACT EN | DE

#ANGULARarchitects

Angular from Insiders!

In-depth training and consulting for your successful Angular project, delivered by an international team of experts. Available on-site and remotely.

Angular Workshops

Slides and Examples of the latest Presentations

Start

<https://www.angulararchitects.io/en/>

Article on project structure and file locations



<https://www.angulararchitects.io/en/blog/the-perfect-project-setup-for-angular-structure-and-automation-for-more-quality/>

Questions?





Agenda - Today, day #2

- **State Management**
 - General concepts, Redux, NgRX
 - NgRx Effects
- **Reactive Form Controls**
 - Control states: pristine, dirty, touched, etc.
 - Dynamic Form arrays
- **Internationalization**
 - Angular Package for i18n
 - Translation files
- ...

