|  |
| --- |
| cd app  md modules  cd modules  ng g module shared  ng g module public --routing  ng g module admin --routing  cd admin  ng g component cities  cd cities  ng g component cities-edit  └───app  ├───auth-guards  ├───endpoints  │ ├───auth-endpoints  │ ├───city-endpoints  │ └───country-endpoints  ├───helper  ├───modules  │ ├───admin  │ │ ├───admin-error-page  │ │ ├───admin-layout  │ │ ├───cities  │ │ │ └───cities-edit  │ │ ├───dashboard  │ │ ├───destination  │ │ └───reservation  │ ├───auth  │ │ ├───auth-layout  │ │ ├───forget-password  │ │ ├───login  │ │ ├───logout  │ │ ├───register  │ │ └───two-factor  │ ├───public  │ │ ├───about  │ │ ├───blog  │ │ ├───contact-us  │ │ ├───home  │ │ ├───public-layout  │ │ └───travels  │ └───shared  │ └───unauthorized  └───services  └───auth-services  └───dto |

# Angular moduli, komponente, lazy loading

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# Endpoint interface

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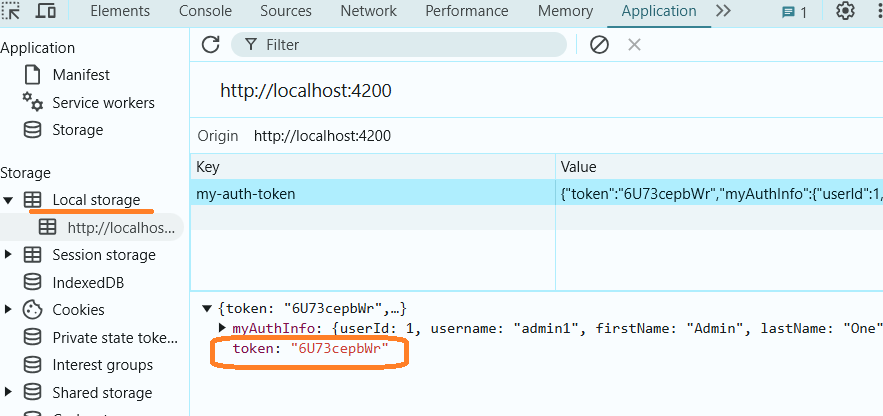
A screenshot of a computer

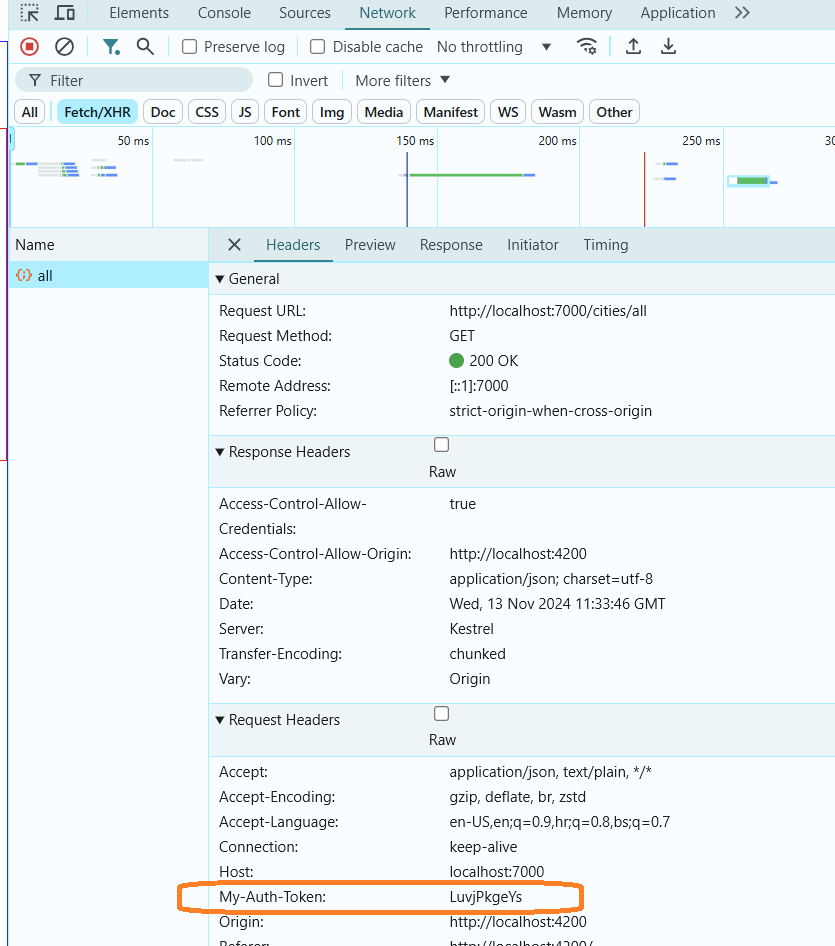
Description automatically generated

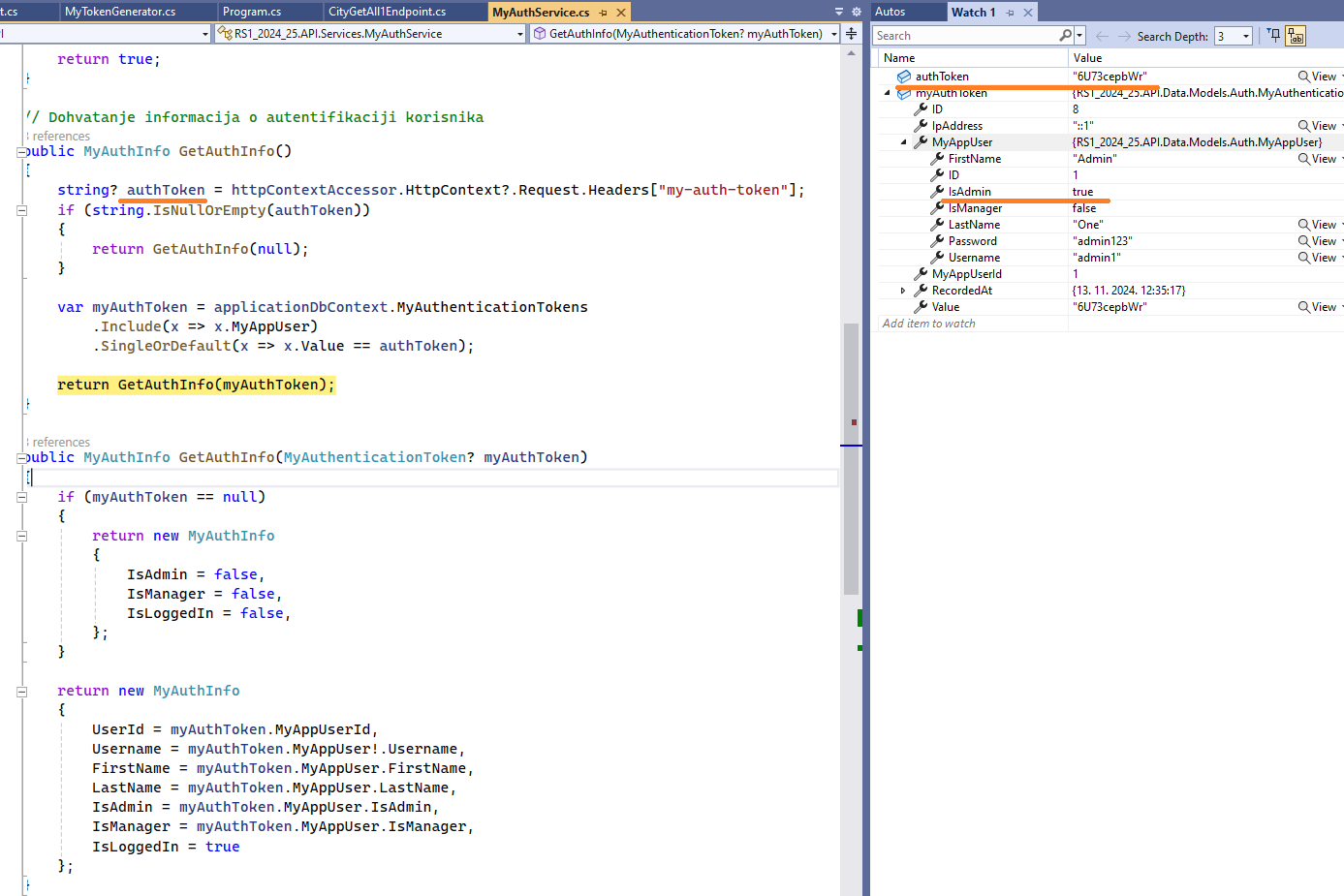
# Auth service i http interceptor

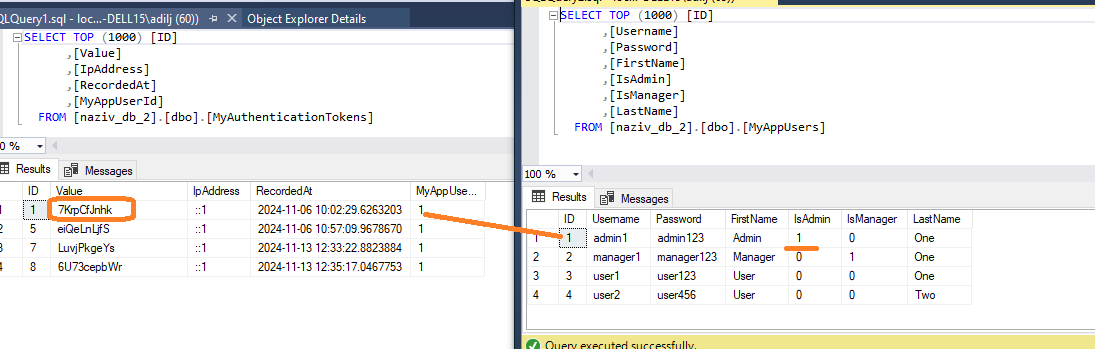
A screenshot of a computer program

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# AuthGuard

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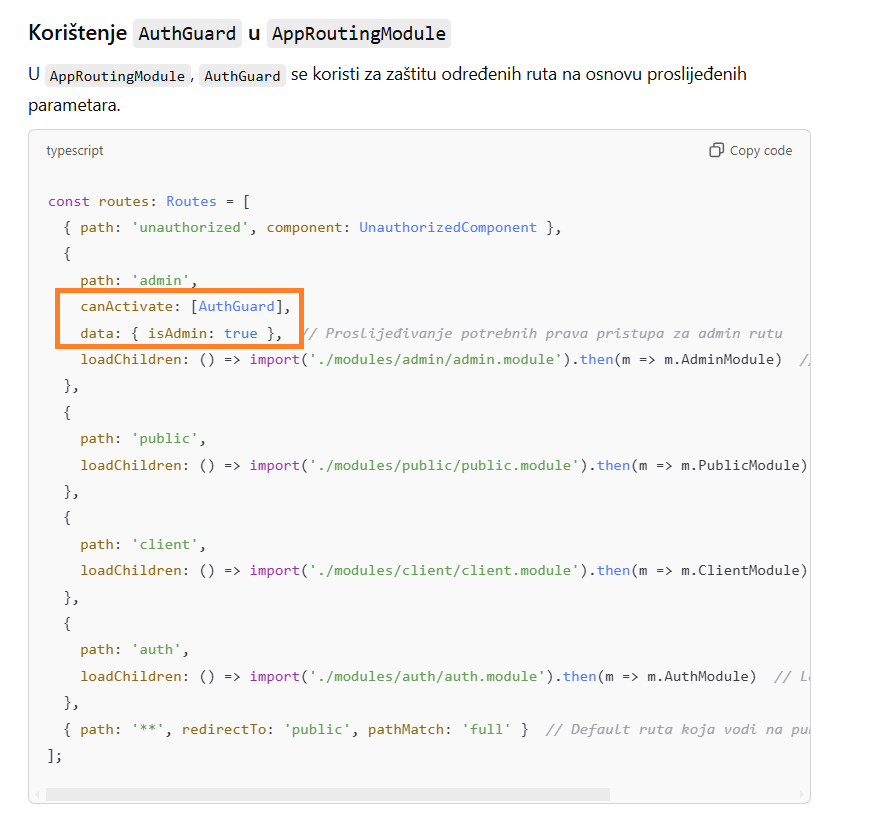
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# Angular Reactive Forms

admin\cities1\cities1-edit – **NgModel**

admin\cities2\cities2-edit – **Reactive Forms (podržava naprednije opcije)**

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# CSS with superpowers - SCSS

<https://sass-lang.com/guide/>

Ispravljeno u projektu

src/styles.css -> src/styles.scss

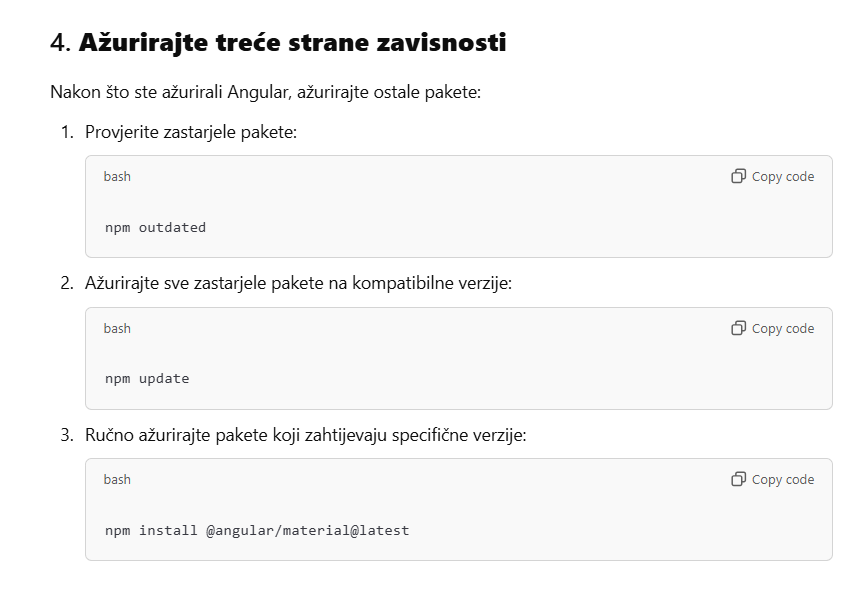
# Angular 19

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| ng version  npm install -g @angular/cli  ng version  ng update @angular/core @angular/cli --force  npm outdated  npm update  npm install |

U novijim verzijama Angular-a (od verzije **19**), standalone komponente postaju **defaultna konfiguracija** kada je opcija standalone izostavljena. Ovo je dio Angular-ove tranzicije prema modularnijem pristupu bez oslanjanja na NgModule.

**Kako ovo utiče na vaš projekt?**

* Ako niste eksplicitno postavili standalone: false, Angular automatski tretira komponentu kao **standalone**.
* Ovo znači da komponente koje želite koristiti unutar NgModule moraju imati jasno definisano standalone: false ili se moraju koristiti isključivo kroz imports.

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# Angular material i Angular CDK

**Angular Material** je biblioteka komponenti baziranih na **Google Material Design** standardima. Cilj je omogućiti jednostavno implementiranje dizajnerskih principa i elemenata u Angular aplikacije.

**Ključne karakteristike:**

* **Predefinisane UI komponente**: Komponente poput dugmadi, tabela, kartica, dijaloga, menija, formi, date-picker elemenata, i mnoge druge.
* **Material Design pravila**: Sve komponente su usklađene s Material Design standardima za dosledan i moderan izgled.
* **Responzivnost**: Komponente automatski reaguju na različite veličine ekrana (mobilni, tablet, desktop).
* **Prilagodljivost**: Možete prilagoditi izgled koristeći **CSS** i **Sass** teme.

**Popularne komponente:**

* **Buttons** (mat-button, mat-raised-button)
* **Inputs** (mat-input)
* **Dialog** (mat-dialog)
* **Table** (mat-table)
* **Snackbar** (mat-snack-bar)
* **Stepper** (mat-stepper)

<https://material.angular.io/guide/getting-started>

**Angular CDK** je biblioteka osnovnih funkcionalnosti za izgradnju prilagođenih komponenti. Fokusira se na **funkcionalnost**, a ne na izgled, i pruža osnovne alate za razvoj kompleksnih UI elemenata.

**Ključne karakteristike:**

* **Prilagođeni UI elementi**: Možete kreirati svoje komponente koristeći ugrađene funkcionalnosti.
* **Pristupačnost (Accessibility)**: Omogućava jednostavno dodavanje pristupačnih elemenata (npr. a11y).
* **Drag & Drop**: Implementacija povuci-i-pusti funkcionalnosti.
* **Virtual Scrolling**: Prikazivanje velikog broja podataka uz optimizaciju performansi.
* **Overlay**: Omogućava prikazivanje elemenata preko drugih (npr. tooltip ili modalni prozor).
* **Responsive utilities**: Alati za responzivni dizajn.

npm install @angular/cdk

**Popularni moduli:**

* @angular/cdk/drag-drop: Povuci-i-pusti.
* @angular/cdk/overlay: Prikazivanje elemenata preko drugih.
* @angular/cdk/scrolling: Virtualni skrol.
* @angular/cdk/a11y: Alati za pristupačnost.

**Razlika između Angular Material i Angular CDK**

* **Angular Material** pruža gotove komponente sa unaprijed definisanim dizajnom (npr. dugmad, tabele, meniji).
* **Angular CDK** omogućava kreiranje prilagođenih komponenti koristeći funkcionalne alate, ali bez unaprijed definisanog dizajna.

<https://material.angular.io/cdk/categories>

**Zadatak 1:**

Kreirati helper dialog

* Simple za ispis obične poruke
* Confirm dialog, npr. delete

<https://material.angular.io/components/dialog/overview>

**Zadatak 2:**

Kreirati helper snackbar

* Simple za ispis obične poruke (npr. Uspješno snimljene izmjene)
* Sa dodatnom opcijom za click

<https://material.angular.io/components/snack-bar/overview>

**Zadatak 3:**

Prepraviti postojeću ngfor tabelu tako da koristi angular material tabelu

* Opcionalnost: koristiti Pagination

<https://material.angular.io/components/table/overview>

**Zadatak 4:**

Kreirati Angular material **Progress bar** tipa Indeterminate te ga povezati sa http interceptorom za fetch podataka sa API-a.

<https://material.angular.io/components/progress-bar/overview>