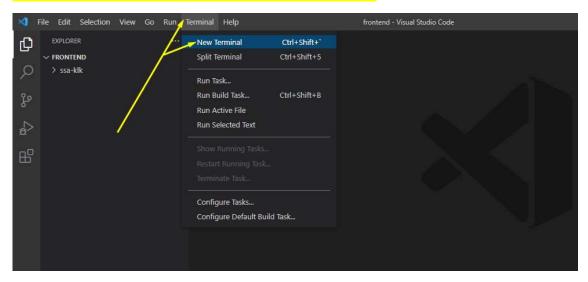
Priprema za 2 klk Angular SSA primer TODOs

Kreirati Angular aplikaciju. Dodati novu komponentu na kojoj treba da se prikaže lista korisnika sa adrese: https://jsonplaceholder.typicode.com/users

Klikom na jednog korisnika, otvara se nova komponenta koja prikazuje njegove taskove sa adrese: https://jsonplaceholder.typicode.com/todos?userId=<id user>

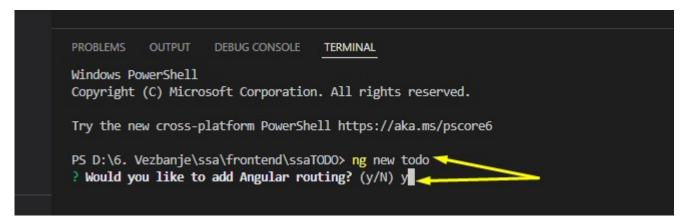
Prvo palimo visual studio code

Nakon toga palimo terminal u sklopu visual stido code-a u sklopu menija Terminal pa new Terminal



za ovaj zadatak su potrebne <u>2 komponente za user-a i todos</u>, kao i <u>2 servisa user services i todo services</u> kao i <u>2 modela user I todo</u>.

Nakon toga kucamo sledecu komandu u terminalu: **ng new pa naziv koji cemo**, I sa enter sve potvrdjujemo I sacekamo proces moze da potraje.



Ako ovo budu prof za nas odradili kucamo samo npm install

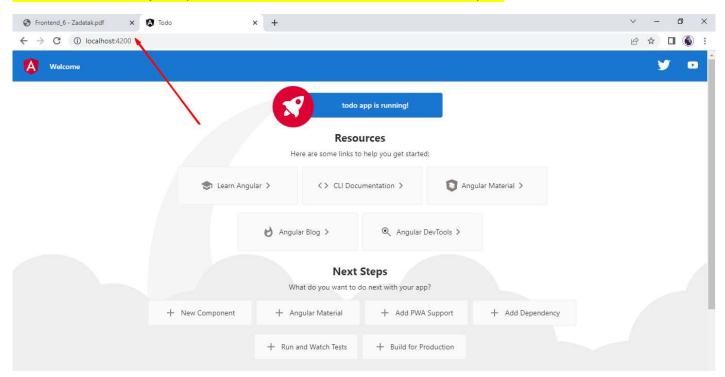
Nakon toga prvo ulazimo u folder todo sa komandom **cd todo** nakon cega kucamo **ng serve** da bi pokrenuli projekat da radi, kao na slici ispod.



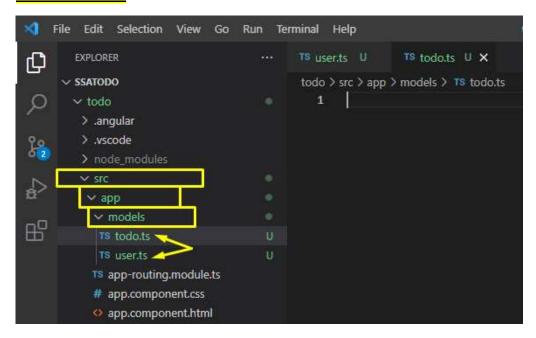
Gasimo I AutoSave savetuje Vicovic kako ne bi ukocilo racunar na faxu zbog konstantnog auto sejva.

Nakon toga pokrecemo brauzer uz pomoc koga pokrecemo projekat, **gde u adress baru kucamo**

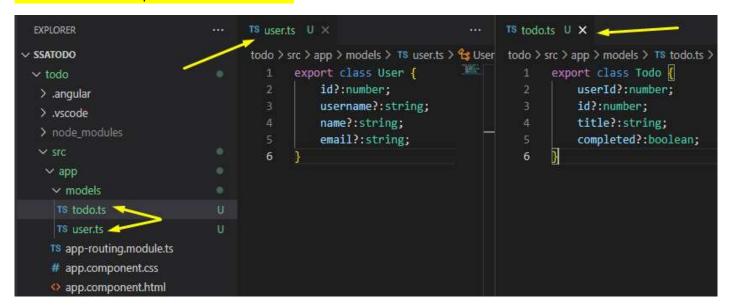
localhost:4200 i dobijamo prikaz kao na slici da bi se uverili da li radi uopste.



Nakon toga u okviru foldera src pa app kreiramo novi folder models u kom kreiramo nove dve klase todo.ts | user.ts|.



Unutar samih klasa pisemo sledece kodove.

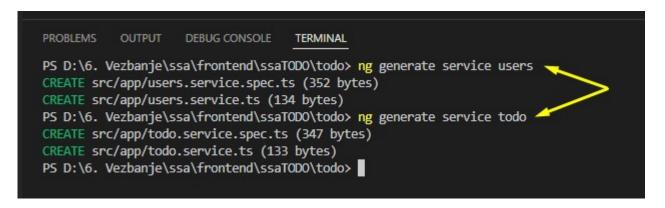


Nakon toga vracamo se ponovo u terminal, komandom **cd todo** ulazimo u folder projekta opet posto terminal zna da izadje, nakon toga **kreiramo 2 komponente** todo I user sa komandama kao na slici:

ng generate component todo ng generate component users

```
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                    TERMINAL
PS D:\6. Vezbanje\ssa\frontend\ssaTODO> cd todo '
PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo> ng generate component todo
CREATE src/app/todo/todo.component.html (19 bytes)
CREATE src/app/todo/todo.component.spec.ts (612 bytes)
CREATE src/app/todo/todo.component.ts (267 bytes)
CREATE src/app/todo/todo.component.css (0 bytes)
UPDATE src/app/app.module.ts (467 bytes)
PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo> ng generate component users
CREATE src/app/users/users.component.html (20 bytes)
CREATE src/app/users/users.component.spec.ts (619 bytes)
CREATE src/app/users/users.component.ts (271 bytes)
CREATE src/app/users/users.component.css (0 bytes)
UPDATE src/app/app.module.ts (545 bytes)
PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo>
```

Nakon toga kad nam je vec usput terminal **kreiracemo I 2 servisa** sledecim komandama kao na slici ispod: komande su: **ng generate service users i ng generate service todo**



Prelazimo na kodiranje users servisa dodavanjem delova koda kao na slici ispod:

```
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';
import { User } from './models/user';

constructor( private http:HttpClient ) { }
getUsers(): Observable<User[]> {
   return this.http.get<User[]>("https://jsonplaceholder.typicode.com/users");
  }
```

```
EXPLORER
                                      TS users.service.ts U X
                                       todo > src > app > TS users.service.ts > 😭 UsersService > 😭 getUsers
∨ SSATODO
                                              import { Injectable } from '@angular/core';
   > .angular
                                              import { HttpClient } from '@angular/common/http';
   > .vscode
                                              import { Observable } from 'rxjs';
                                              import { User } from './models/user';

√ app

                                              @Injectable({

✓ models

                                                providedIn: 'root'
     TS todo.ts
     TS user.ts
                                              export class UsersService {
                                                constructor( private http:HttpClient ) { }
     > users
     TS app-routing.module.ts
                                                getUsers(): Observable<User[]> {
     # app.component.css
     app.component.html
                                                  return this.http.get<User[]>("https://jsonplaceholder.typicode.com/users");
     TS app.component.spec.ts
     TS app.component.ts
     TS app.module.ts
     TS todo.service.spec.ts
     TS todo.service.ts
     TS users.service.ts
                                                                           TERMINAL
    > assets
                                       PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo> |
    > environments
```

Nakon user servisa prelazimo na todo servis I u fajlu popunjavamo kod kao na slici ispod:

```
import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';
import { Todo } from './models/todo';

constructor( private http:HttpClient ) { }

getTodoByUserId(userId: number): Observable<Todo[]> {
   return this.http.get<Todo[]>('https://jsonplaceholder.typicode.com/todos?userId='+userId );
  }
```

```
📢 File Edit Selection View Go Run Terminal Help
                                                                              todo.service.ts - ssaTODO - Visual Studio Code
Ф
       EXPLORER
     ∨ SSATODO
                                               1 import { Injectable } from '@angular/core';
          TS app-routing.module.ts
                                                   import { HttpClient } from '@angular/common/http';
import { Observable } from 'rxjs';
          # app.component.css
          o app.component.html
                                                   import { Todo } from './models/todo';
          TS app.component.spec.ts
          TS app.component.ts
                                                    @Injectable({
          18 app.module.ts
                                                     providedIn: 'root'
           TS todo.service.ts
                                                      constructor( private http:HttpClient ) { }
          18 users.service.ts
          ) assets
                                                      getTodoByUserId(userId: number): Observable<Todo[]> {
          > environments
                                                        return this.http.get<Todo[]>('https://jsonplaceholder.typicode.com/todos?userId='+userId );
          🛊 favicon.ico
         TS polyfills.ts
         # styles.css
         TS test.ts
                                                                   runtime
                                                                                   6.51 kB
        .editorconfia
```

Prelazimo na app-routing-module.ts i dopunimo sledecim kodom kao na slici ispod:

```
import { UsersComponent } from './users/users.component';
import { TodoComponent } from './todo/todo.component';
```

```
const routes: Routes = [
    { path: ", redirectTo: '/users', pathMatch: 'full' },
    { path: 'users', component: UsersComponent },
    { path: 'todo/:userId', component: TodoComponent }
```

];

```
EXPLORER
                                      18 app-routing.module.ts M X

∨ SSATODO

                                      todo > src > app > TS app-routing.module.ts > [●] routes
  ▼ togo
                                             import { NgModule } from '@angular/core';
  > .angular
                                             import { RouterModule, Routes } from '@angular/router';
  > .vscode
                                             import { UsersComponent } from './users/users.component';
                                             import { TodoComponent } from './todo/todo.component';

✓ src

   v app
                                             const routes: Routes = [

✓ models

     TS todo.ts
                                                  path: '', redirectTo: '/users', pathMatch: 'full' },
     TS user ts
                                                  path: 'users', component: UsersComponent },
    > todo
                                                 path: 'todo/:userId', component: TodoComponent }
                                             1;
                               M
  TS app-routing.module.ts
    # app.component.css
                                             @NgModule({
    app.component.html
                                               imports: [RouterModule.forRoot(routes)],
    TS app.component.spec.ts
                                               exports: [RouterModule]
    TS app.component.ts
                                             export class AppRoutingModule { }
    TS app.module.ts
    TS todo.service.spec.ts
```

Nakon toga idemo do user.component.ts i popunjavamo kao na slici ispod:

```
import { UsersService } from '../users.service';
import { User } from '../models/user';
users?: User[];

ngOnInit(): void {
    this.GetUsers();
  }

GetUsers() {
    this.usersService.getUsers().subscribe(resp => {
        this.users = resp;
    })
  }
}
```

```
EXPLORER
                                      TS users.component.ts U 🗙 🚤
                                      todo > src > app > users > ™ users.component.ts > ❤ UsersComponent > ❤ constructor
SSATODO
                                              import { Component, OnInit } from '@angular/core';
  > .angular
                                              import { UsersService } from '../users.service';
  > .vscode
                                              import { User } from '../models/user';

✓ src

                                              @Component({

→ app

                                                selector: 'app-users',

→ models

                                                templateUrl: './users.component.html',
     TS todo.ts
                                                styleUrls: ['./users.component.css']
     TS user.ts
    > todo
                                              export class UsersComponent implements OnInit {
     # users.component.css
                                               users?: User[];
     users.component.html
     18 users.component.spec.ts
                                                constructor private usersService: UsersService
                                        16
     TS users.component.ts
                                                ngOnInit(): void {
    18 app-routing.module.ts
    # app.component.css
                                                  this.GetUsers();
    app.component.html
    TS app.component.spec.ts
    15 app.component.ts
    TS app.module.ts
                                M
                                                GetUsers()
    TS todo.service.spec.ts
                                                  this.usersService.getUsers().subscribe(resp => {
    TS todo, service.ts
                                                    this.users = resp;
    TS users.service.spec.ts
    T8 users.service.ts
   > assets
 OUTLINE
```

Prelazimo na sredjivanje user component html dela:

```
<thead class="thead-dark">
 ID
   Name
   Username
   Email
 </thead>
 {{ user.id }} 
    <a routerLink="/todo/{{ user.id }}"> {{ user.name }} </a> 
   {{ user.username }} 
   {{ user.email }}
```

```
EXPLORER
                       ··· users.component.html U ×
                            todo > src > app > users > ♦ users.component.html > ...

✓ SSATODO

✓ todo

 > .angular
                                     <thead class="thead-dark">
 > .vscode
                                            ID
                                            Name
                                            Username
   models
                                            Email
   TS user.ts

✓ todo

    # todo.component.css
                                         TS todo.component.ts

✓ users

                                             {{ user.id }} 
   # users.component.css
                                             <a routerLink="/todo/{{ user.id }}"> {{ user.name }} </a> 
   users.component.html <- U
                                            {{ user.username }} 
    TS users.component.spec.ts
                                             {{ user.email }} 
   TS users.component.ts
   TS app-routing.module.ts
   # app.component.css
   app.component.html
   TS app.component.spec.ts
```

```
Nakon toga idemo do todo.component.ts I popunjavamo kao na slici ispod:
import { ActivatedRoute } from '@angular/router';
import { TodoService } from '../todo.service';
import { Todo } from '../models/todo';
todos?: Todo[];
constructor( private todoService: TodoService, private route: ActivatedRoute ) { }
ngOnInit(): void {
  const userId = Number (this.route.snapshot.paramMap.get('userId'));
  this.getTodosByUserId(userId);
}
getTodosByUserId(userId: number) {
  this.todoService.getTodoByUserId(userId).subscribe(resp => {
   this.todos = resp;
  })
 }
onClick(url?:string)
    window.open(url, ' blank');
                                  TS todo.component.ts U X

√ SSATODO

                                  todo > src > app > todo > TS todo.component.ts > ...
                                         import { Component, OnInit } from '@angular/core';
  v todo
   > .angular
                                         import { ActivatedRoute } from '@angular/router';
   > .vscode
                                         import { TodoService } from '../todo.service';
                                         import { Todo } from '../models/todo';
    ✓ app

✓ models

                                         @Component({
      TS todo.ts
                                          selector: 'app-todo',
      TS user.ts
                                          templateUrl: './todo.component.html',

✓ todo

                                          styleUrls: ['./todo.component.css']
      todo.component.html
                                         export class TodoComponent implements OnInit {
      TS todo.component.spec.ts U
                                          todos?: Todo[];
                                                        private todoService: TodoService, private route: ActivatedRoute
      # users.component.css

    users.component.html

                                           ngOnInit(): void {
      18 users.component.spec.ts
                                             const userId = Number ( this.route.snapshot.paramMap.get('userId') );
                                             this.getTodosByUserId(userId);
     TS app-routing.module.ts
     # app.component.css
                                           getTodosByUserId(userId: number) {
     app.component.html
```

this.todoService.getTodoByUserId(userId).subscribe(resp => {

this.todos = resp;

TS app.component.spec.ts

TS app.component.ts
TS app.module.ts

Prelazimo na todo component html kao na slici ispod:

```
<thead class="thead-dark">
  ID
   Title
  Completed
  </thead>
 {{ todo.id }} 
    {{ todo.title }} 
   {{ todo.completed }} 
  <img src=" {{photo.thumbnailUrl}} " width="150px"</pre>
height="150px" > 
              Klik na sliku
```

```
EXPLORER
                              🍑 todo.component.html U 🗙 🚤 🕳
                               todo > src > app > todo > ♦ todo.component.html > ♦ table.table.table-striped.table-hover.

√ SSATODO

∨ todo

  > .angular
                                        <thead class="thead-dark">
  > .vscode
                                               ID

✓ src

                                               Title

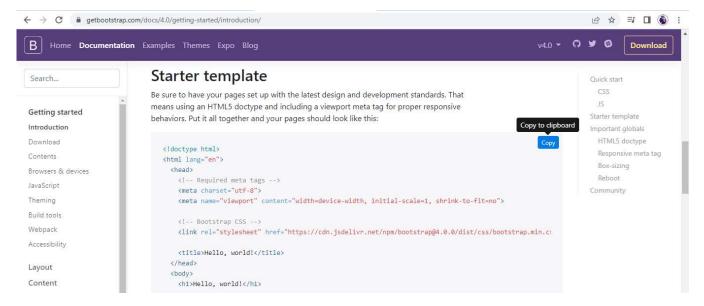
✓ app

                                               Completed

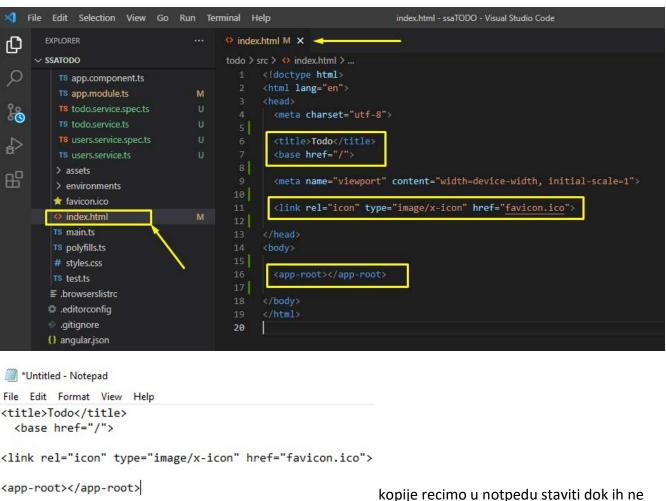
→ models

                                        </thead>
    TS todo.ts
    TS user.ts
   ∨ todo
    # todo.component.css
                                            todo.component.html
    TS todo.component.spec.ts
                                               {td> {{ todo.id }} 
                                               {td> {{ todo.title }} 
    TS todo.component.ts
                                               {td> {{ todo.completed }} 
                                17
    users
    # users.component.css
                                            (/tr>
    users.component.html
    TS users.component.spec.ts
    TS users.component.ts
                                     TS app-routing.module.ts
```

Zatim idemo do sajta butstrepa gde kopiramo starter template:



Zatim idemo do glavnog index.html fajla iz kog nam je potrebno da sacuvamo tj kopiramo uokvirene delove koda u novi butstrepov starter templejt.



kopije recimo u notpedu staviti dok ih ne kopiramo u novi butstrepov startter templejt na istim mestima kao I kod starog index.html koda. Nakon kopiranja starter templejta I dodavanja prethodnih linija koda iz starog u novi templejt doijamo kod kao na slici ispod:

```
EXPLORER
                                     index.html M ×

√ SSATODO

                                      todo > src > ♥ index.html > ♥ html
                                        1 <!doctype html>
    18 app.component.ts
                                             <html lang="en">
    TS app.module.ts
                                M
    TS todo.service.spec.ts
    TS todo.service.ts
                                                  <meta charset="utf-8">
    TS users.service.spec.ts
                                                  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
   > assets
                                                  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/boots</pre>
   > environments
   * favicon.ico
                                                  <title>Todo</title>
   index.html
                                                  <base href="/">
   TS main.ts
                                                  k rel="icon" type="image/x-icon" href="favicon.ico">
   TS polyfills.ts
   # styles.css
  TS test.ts
  ■ .browserslistrc
                                                  <div class="container">
  .editorconfig
                                                    <h1>Todo</h1>
  .gitignore
  () angular.json
  K karma.conf.js
  {} package-lock.json
  () package.json
                                                  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DK</pre>
  ① README.md
                                                  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js" integ</pre>
  {} tsconfig.app.json
                                                  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js" inte</pre>
  tsconfig.json
  () tsconfig.spec.json
                                             </html>
```

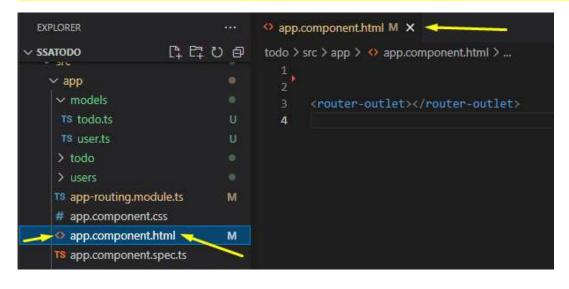
Ponovo se vracamo do glavnog modula I importujemo HttpClientModule kao na slici ispod:

import { HttpClientModule } from '@angular/common/http';

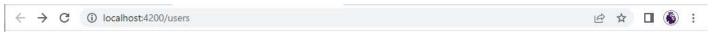
HttpClientModule

```
EXPLORER
                                        TS app.module.ts M X
∨ SSATODO
                                        todo > src > app > TS app.module.ts > ...
                                                import { NgModule } from '@angular/core';
     ∨ todo
                                                import { BrowserModule } from '@angular/platform-browser';
      # todo.component.css
      todo.component.html
                                                import { HttpClientModule } from '@angular/common/http';
     TS todo.component.spec.ts
     TS todo.component.ts
                                                import { AppRoutingModule } from './app-routing.module';
                                                import { AppComponent } from './app.component';
import { TodoComponent } from './todo/todo.component';
      # users.component.css
                                                import { UsersComponent } from './users/users.component';
     TS users.component.spec.ts
     TS users.component.ts
    TS app-routing.module.ts
                                                @NgModule({
     # app.component.css
                                                  declarations: [
    app.component.html
                                  M
                                          15
                                                     AppComponent,
    TS app.component.spec.ts
                                                     TodoComponent,
                                                    UsersComponent
    TS app.component.ts
   TS app.module.ts
    TS todo.service.spec.ts
                                                  imports: [
    TS todo.service.ts
                                                     BrowserModule,
                                                     AppRoutingModule,
    TS users.service.ts
                                                   HttpClientModule
    assets
    > environments
                                                  providers: [],
   * favicon.ico
                                                  bootstrap: [AppComponent]
   index.html
   TS main.ts
                                                export class AppModule { }
   TS polyfills.ts
```

Takodje se vracamo I do glavne komponente gde brisemo sve linije koda osim ove jedne kao na slici ispod:



<mark>Resenje</mark>



Todo

ID	Name	Username	Email
1	Leanne Graham	Bret	Sincere@april.biz
2	Ervin Howell	Antonette	Shanna@melissa.tv
3	Clementine Bauch	Samantha	Nathan@yesenia.net
4	Patricia Lebsack	Karianne	Julianne.OConner@kory.org
5	Chelsey Dietrich	Kamren	Lucio_Hettinger@annie.ca
6	Mrs. Dennis Schulist	Leopoldo_Corkery	Karley_Dach@jasper.info
7	Kurtis Weissnat	Elwyn.Skiles	Telly.Hoeger@billy.biz
8	Nicholas Runolfsdottir V	Maxime_Nienow	Sherwood@rosamond.me
9	Glenna Reichert	Delphine	Chaim_McDermott@dana.io
10	Clementina DuBuque	Moriah.Stanton	Rey.Padberg@karina.biz

Klikom na User-a otvara se sledeca stranica.

