

Priprema za 2 klk Angular SSA primer TODOs

Kreirati Angular aplikaciju. Dodati novu komponentu na kojoj treba da se prikaže lista korisnika sa adrese:

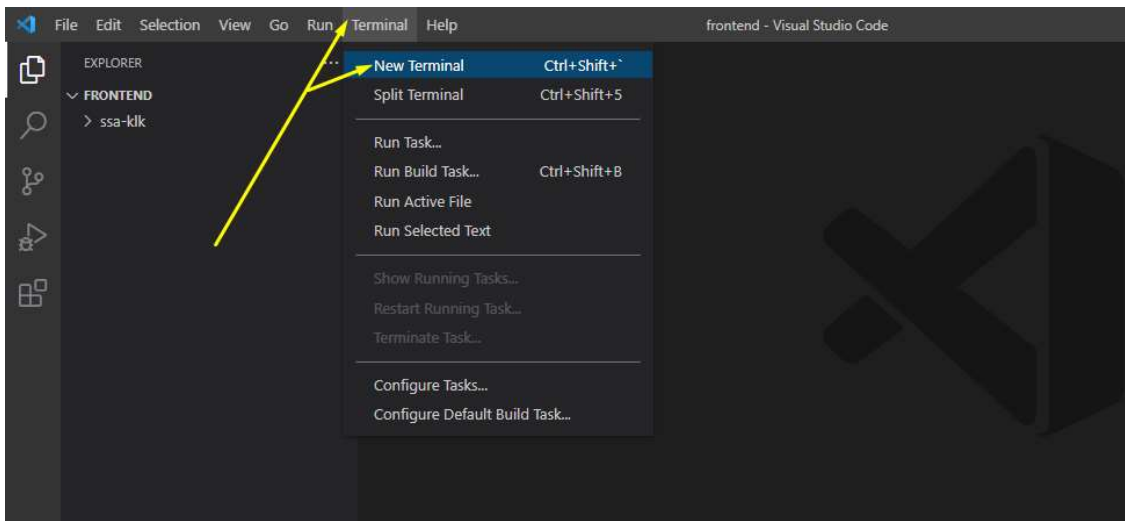
<https://jsonplaceholder.typicode.com/users>

Klikom na jednog korisnika, otvara se nova komponenta koja prikazuje njegove taskove sa adrese:

<https://jsonplaceholder.typicode.com/todos?userId=<id user>>

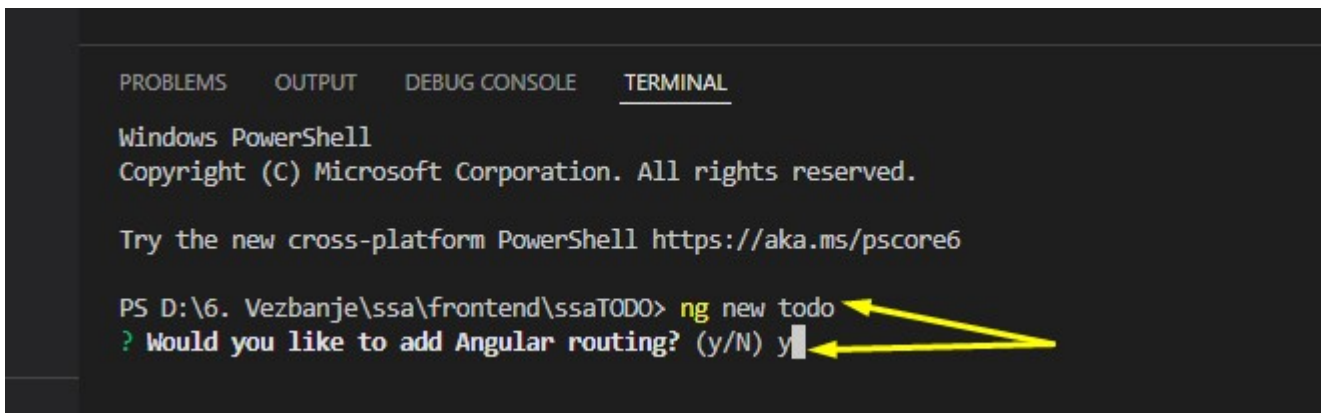
Prvo palimo visual studio code

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



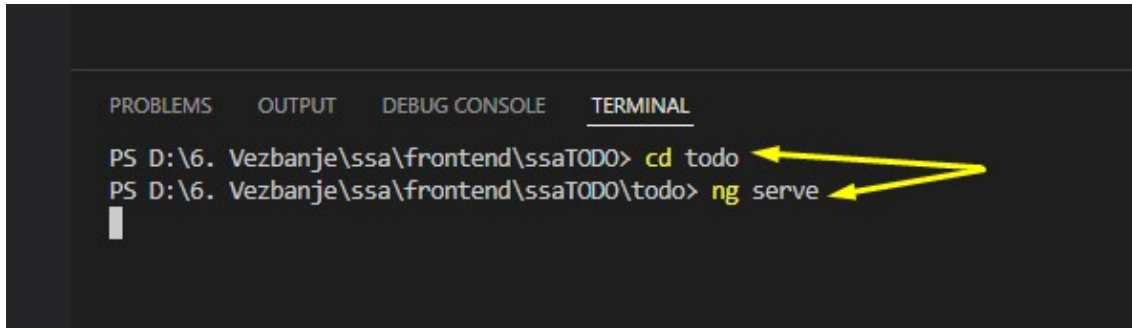
za ovaj zadatak su potrebne **2 komponente za user-a i todos**, kao i **2 servisa user services i todo services** kao i **2 modela user i todo**.

Nakon toga kucamo sledecu komandu u terminalu: **ng new** pa naziv koji cemo, i sa enter sve potvrđujemo 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.



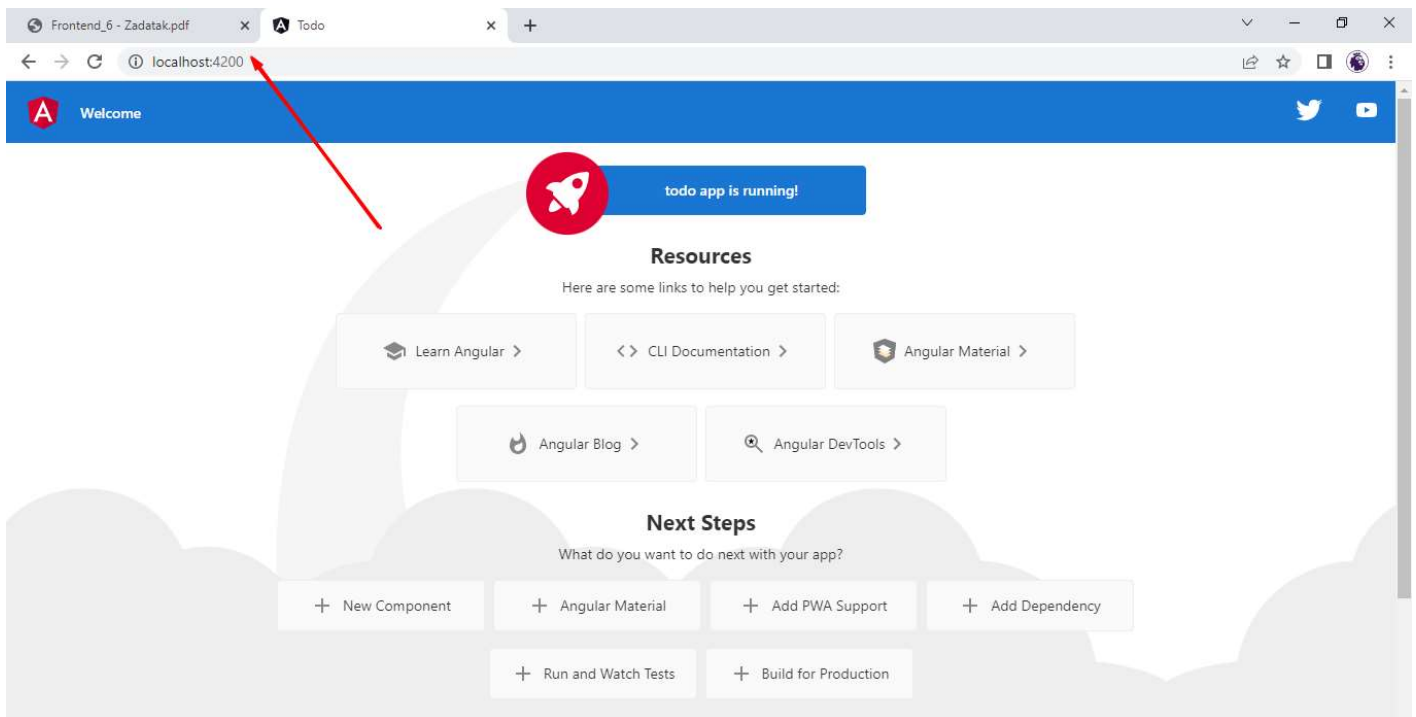
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS D:\6. Vezbanje\ssa\frontend\ssaTODO> cd todo
PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo> ng serve
```

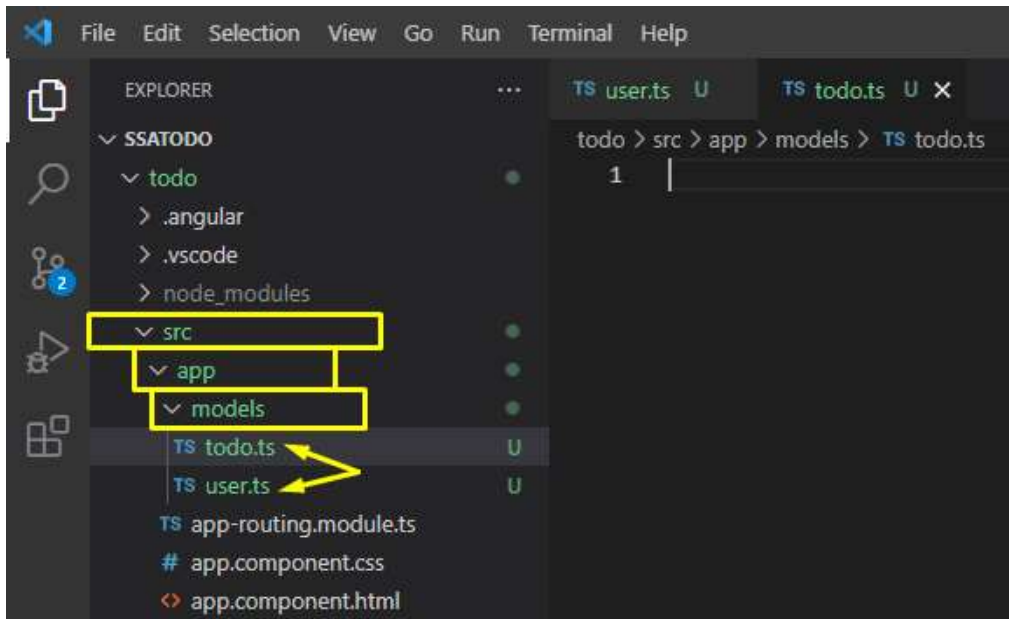
The screenshot shows a terminal window with two lines of command execution. The first line is `PS D:\6. Vezbanje\ssa\frontend\ssaTODO> cd todo` and the second line is `PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo> ng serve`. Two yellow arrows point from the right towards the `cd todo` and `ng serve` commands.

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

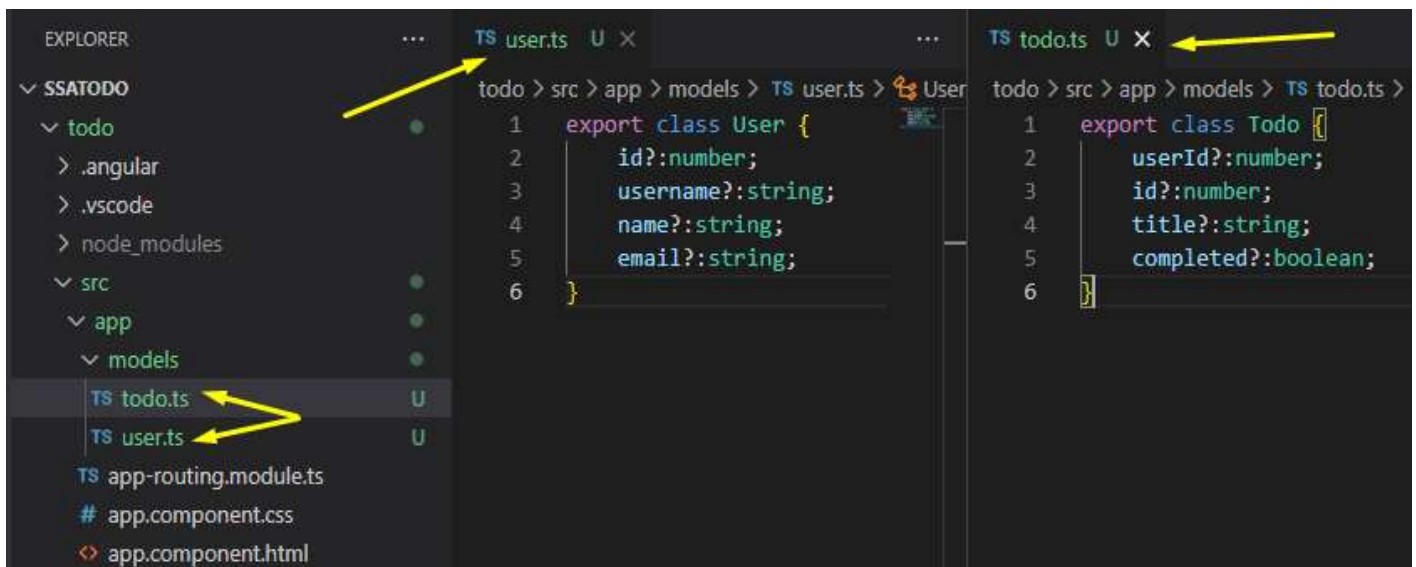
Nakon toga pokrecemo brauzer uz pomoc koga pokrecemo projekat, gde u adress baru kucamo `localhost:4200` i dobijamo prikaz kao na slici da bi se uverili da li radi uopste.



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

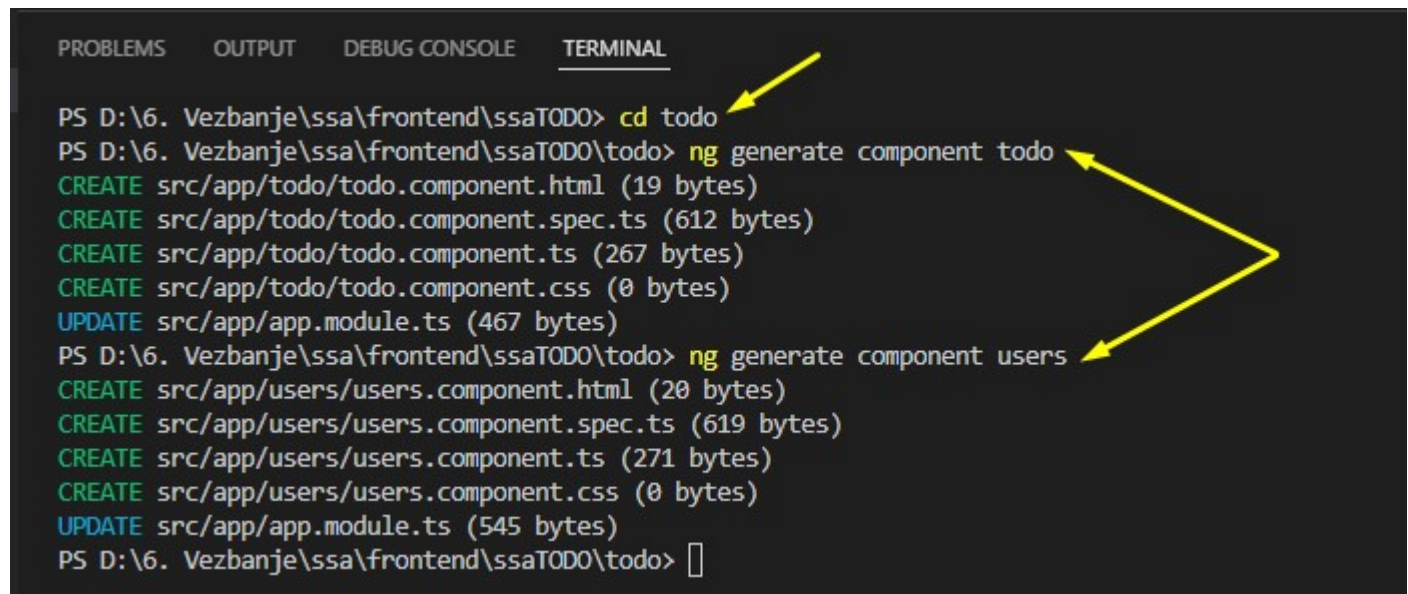


Unutar samih klasa pisemo sledece kodove.



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

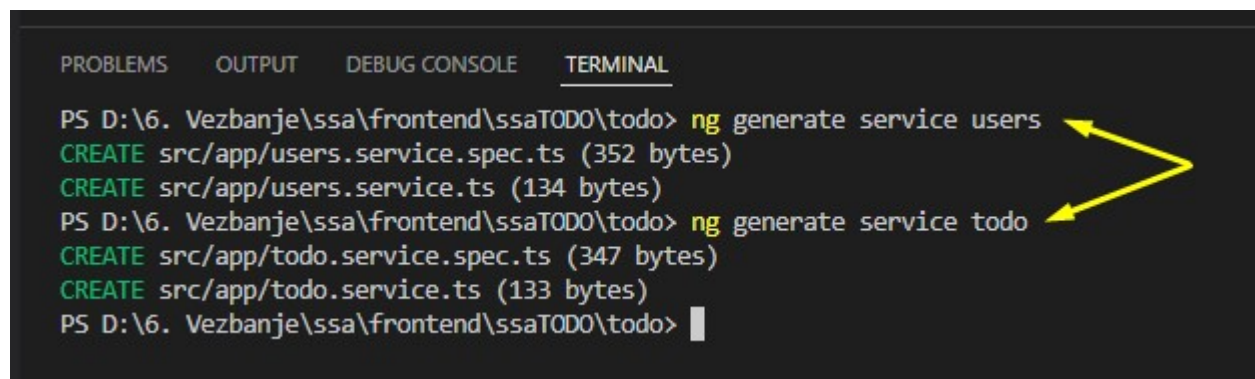
ng generate component todo ng generate component users



```
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 već usput terminal **kreiracemo 2 servisa** sledecim komandama kao na slici ispod:
komande su: **ng generate service users** i **ng generate service todo**



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

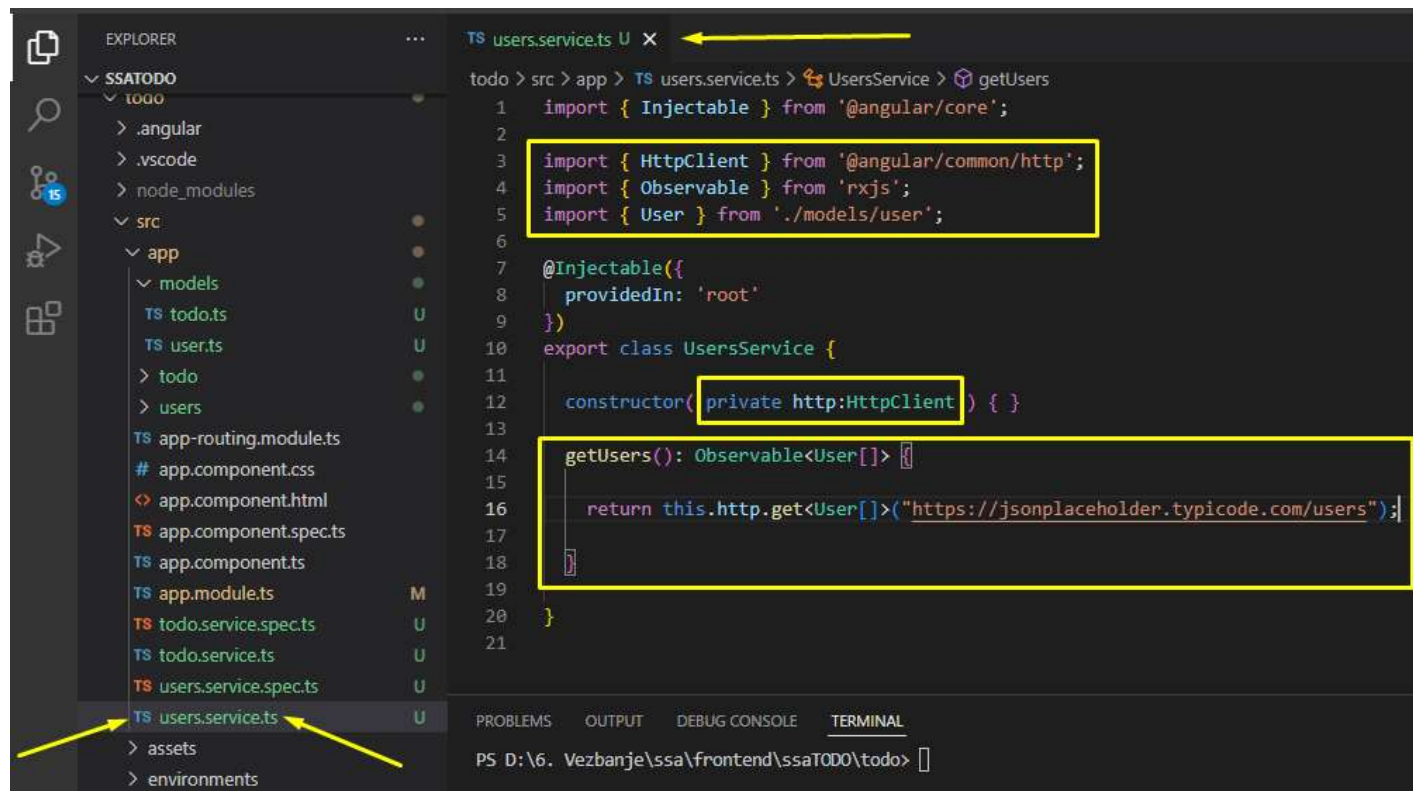
PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo> ng generate service users
CREATE src/app/users.service.spec.ts (352 bytes)
CREATE src/app/users.service.ts (134 bytes)
PS D:\6. Vezbanje\ssa\frontend\ssaTODO\todo> ng generate service todo
CREATE src/app/todo.service.spec.ts (347 bytes)
CREATE src/app/todo.service.ts (133 bytes)
PS D:\6. Vezbanje\ssa\frontend\ssaTODO\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");
}
```

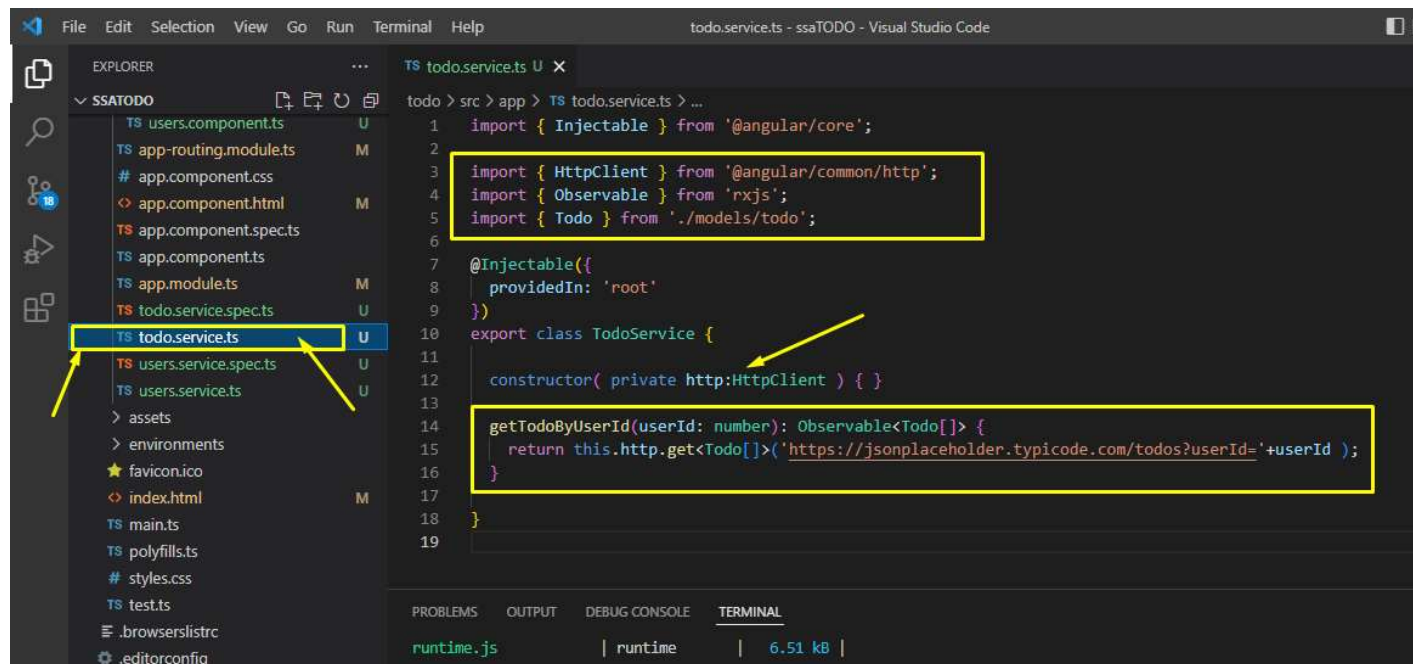


Nakon user servisa **prelazimo na todo servis** i u fajlu popunjavamo kod kao na slici ispod:

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

constructor( private http:HttpClient ) { }

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



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';
```

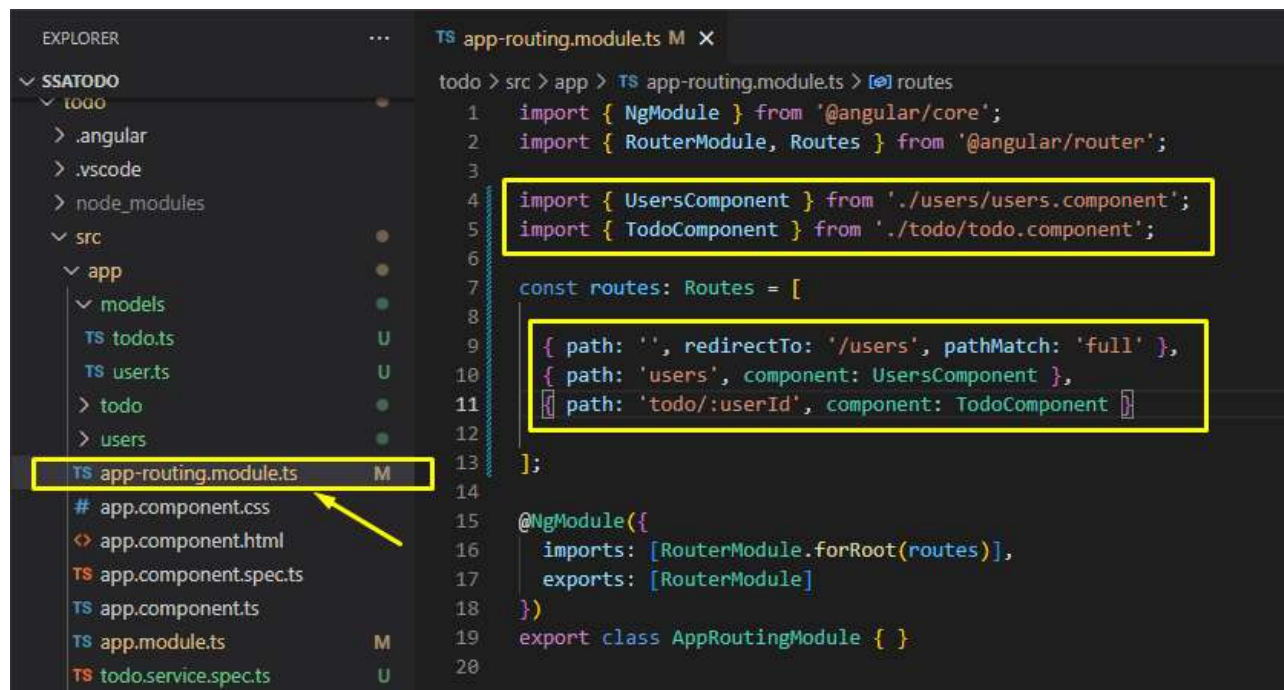
```
const routes: Routes = [
```

```
  { path: '', redirectTo: '/users', pathMatch: 'full' },
```

```
  { path: 'users', component: UsersComponent },
```

```
  { path: 'todo/:userId', component: TodoComponent }
```

```
];
```



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

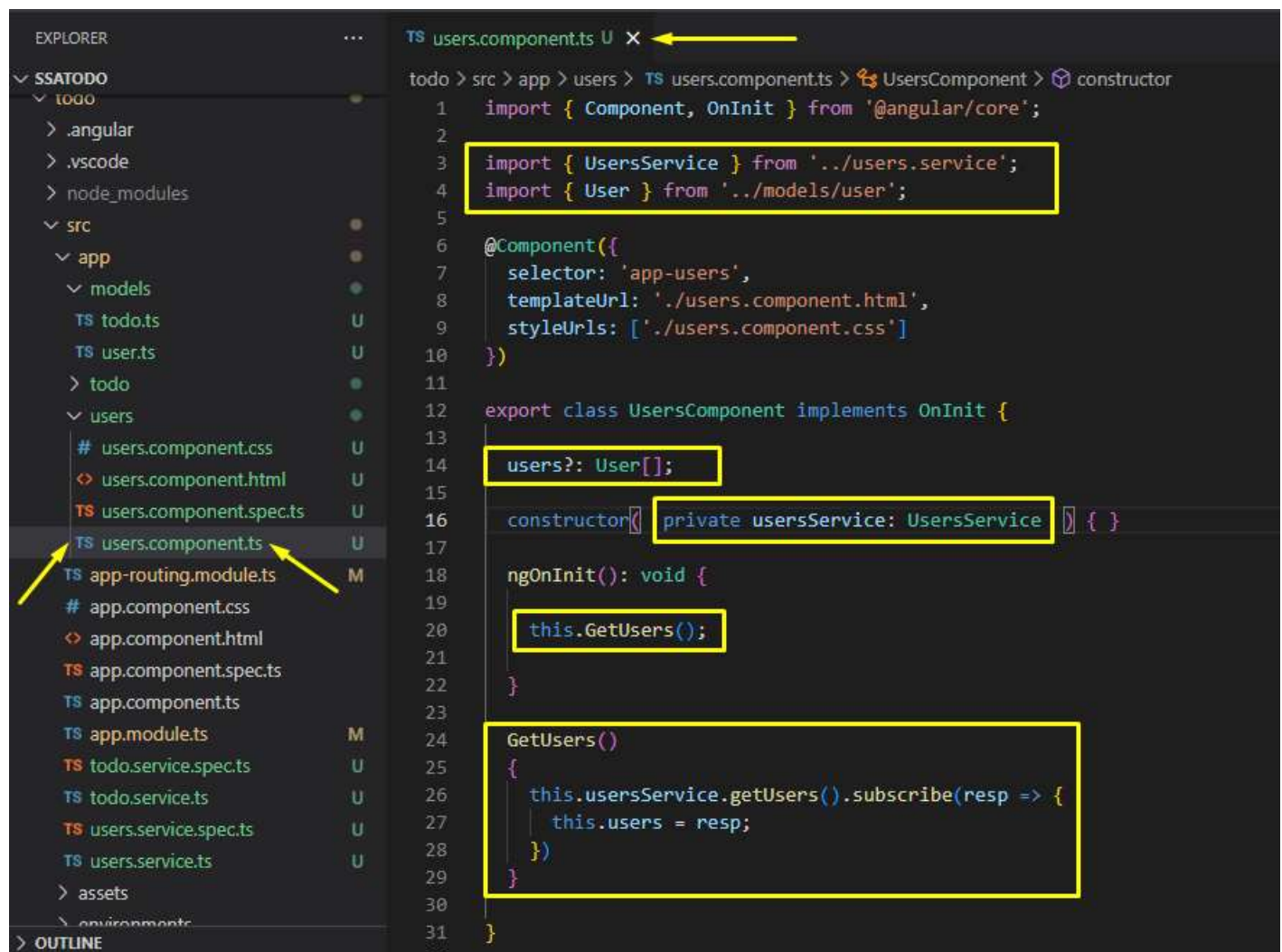
```
import { UsersService } from '../users.service';
```

```
import { User } from '../models/user';
```

```
users?: User[];
```

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

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



Prelazimo na sredjivanje user component html dela:

```
<table class="table table-striped table-hover table-bordered" >
<thead class="thead-dark">
  <tr>

    <th>ID</th>
    <th>Name</th>
    <th>Username</th>
    <th>Email</th>

  </tr>
</thead>

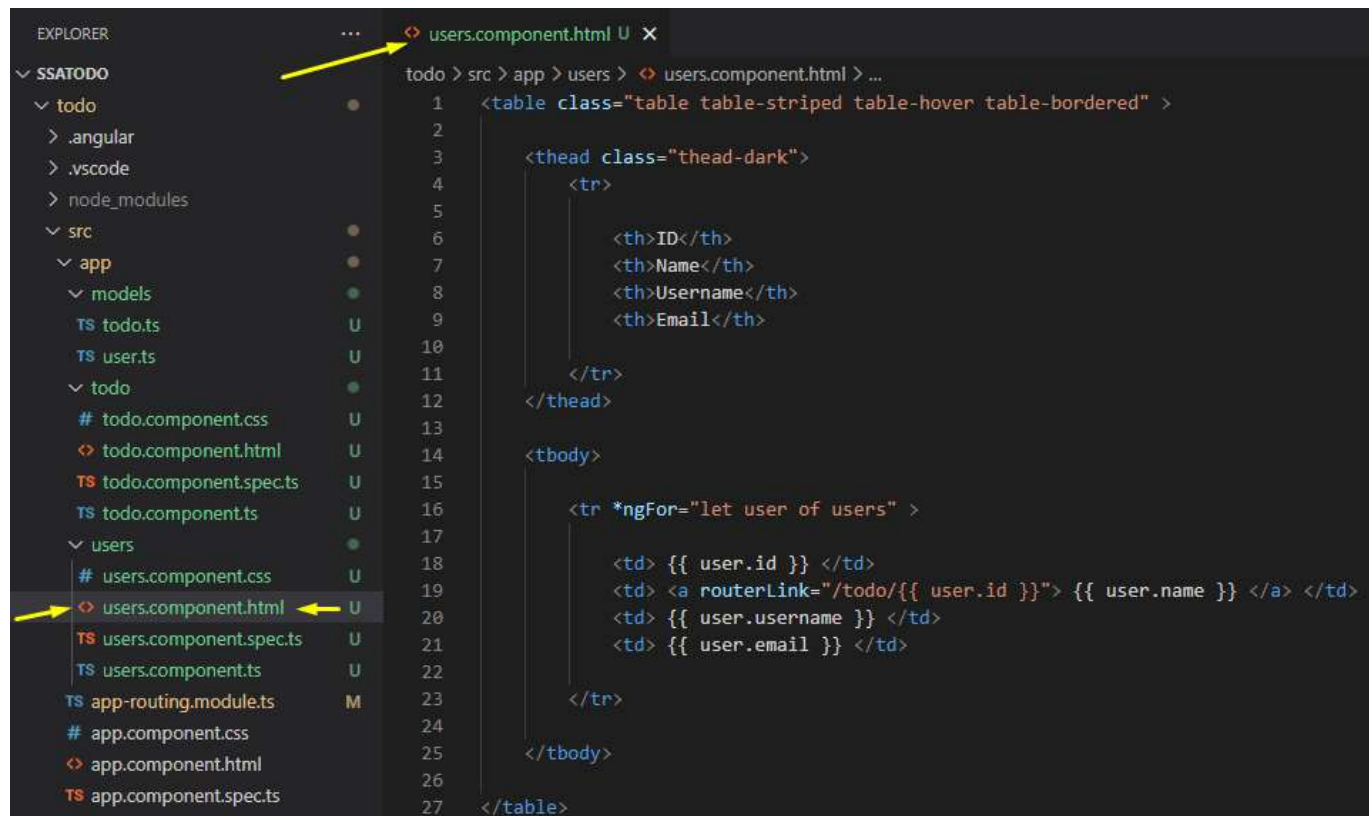
<tbody>

  <tr *ngFor="let user of users" >

    <td> {{ user.id }} </td>
    <td> <a routerLink="/todo/{{ user.id }}"> {{ user.name }} </a> </td>
    <td> {{ user.username }} </td>
    <td> {{ user.email }} </td>

  </tr>

</tbody>
</table>
```



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';
```

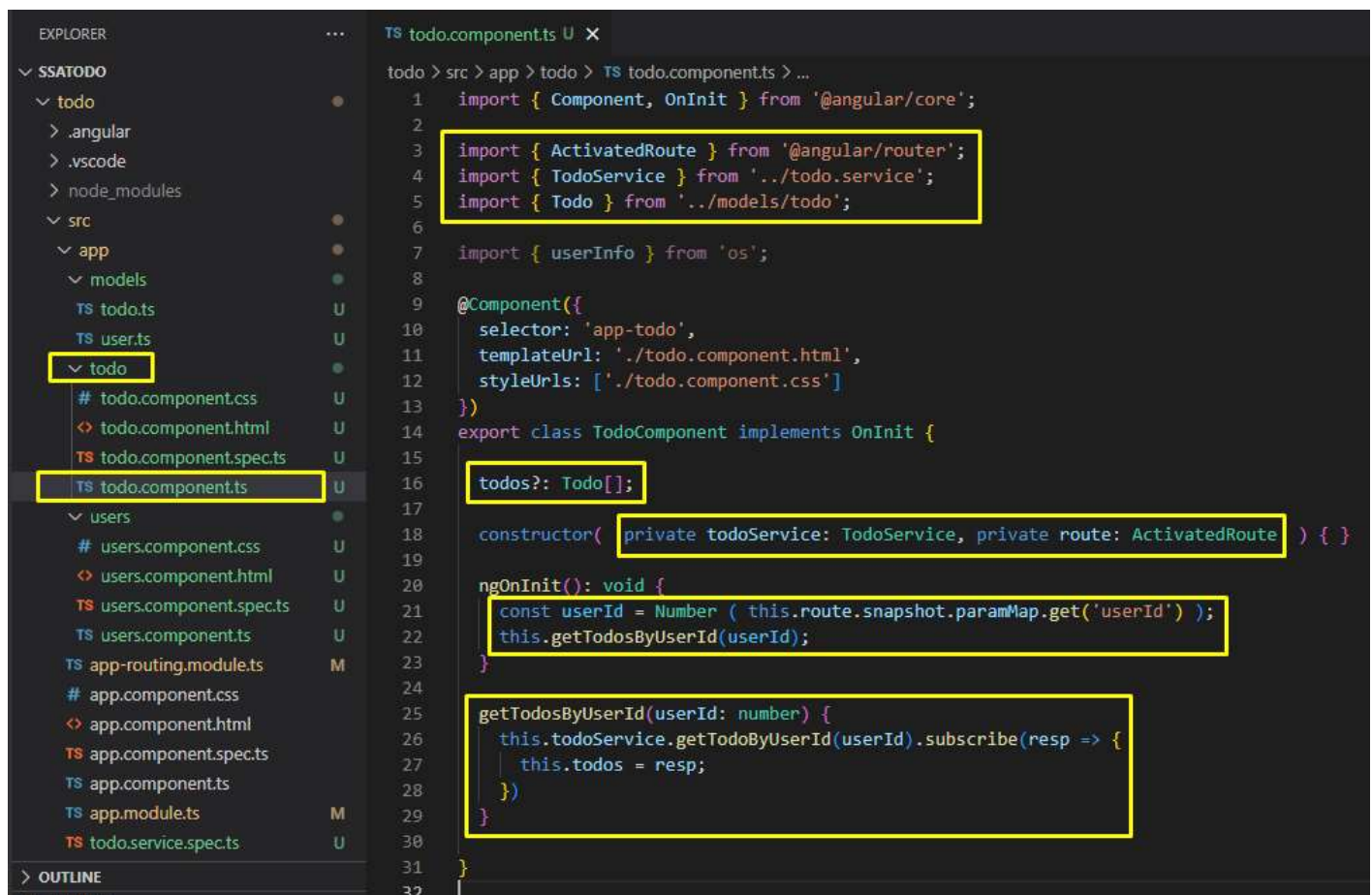
```
todos?: Todo[];
```

```
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');
}
```



Prelazimo na **todo component html** kao na slici ispod :

```
<table class="table table-striped table-hover table-bordered" >
```

```
<thead class="thead-dark">
```

```
<tr>
```

```
<th>ID</th>
```

```
<th>Title</th>
```

```
<th>Completed</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr *ngFor="let todo of todos" >
```

```
<td> {{ todo.id }} </td>
```

```
<td> {{ todo.title }} </td>
```

```
<td> {{ todo.completed }} </td>
```

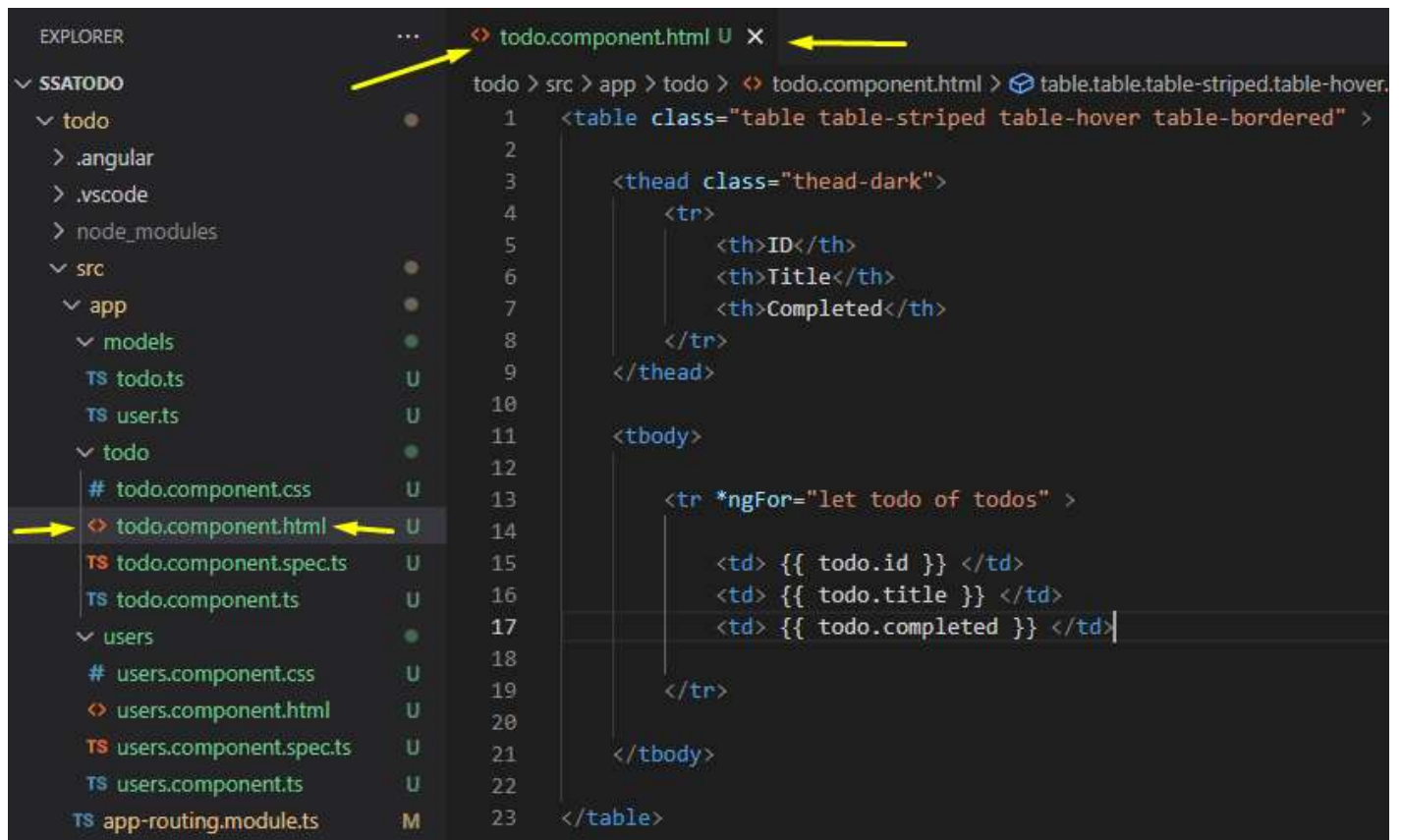
```
</tr>
```

```
</tbody>
```

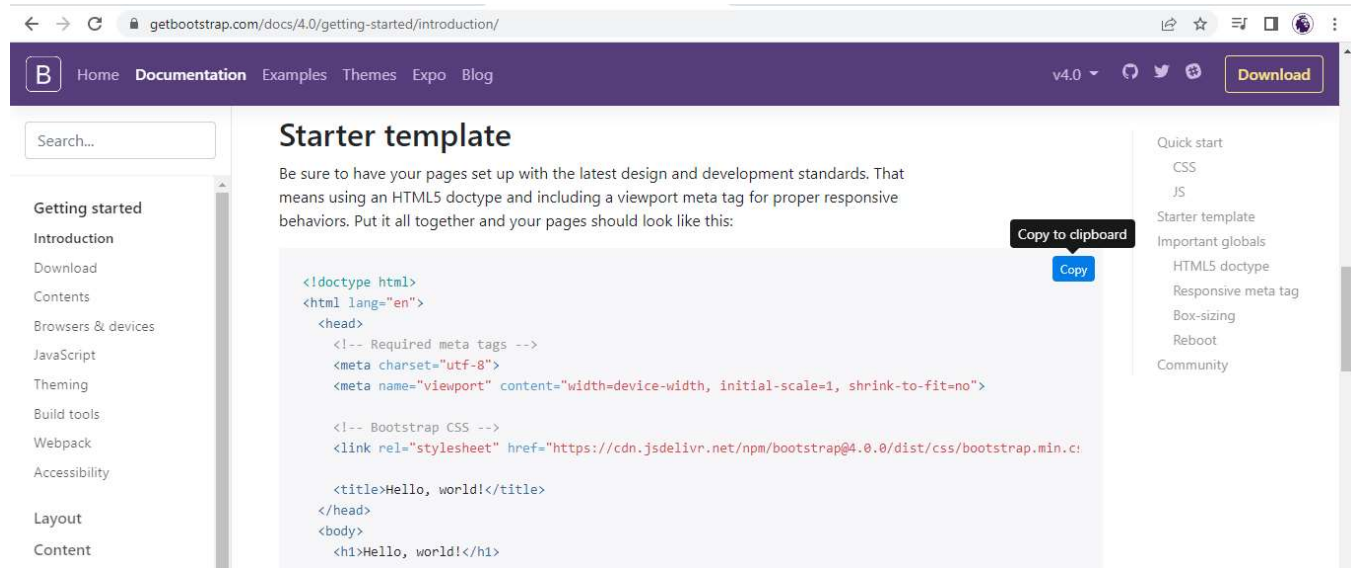
```
</table>
```

```
<td (click)='onClick(photo.url)'>  </td>
```

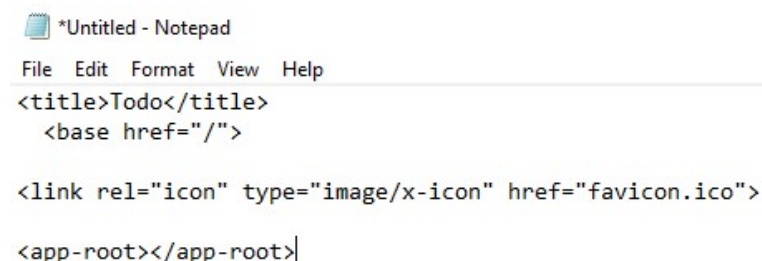
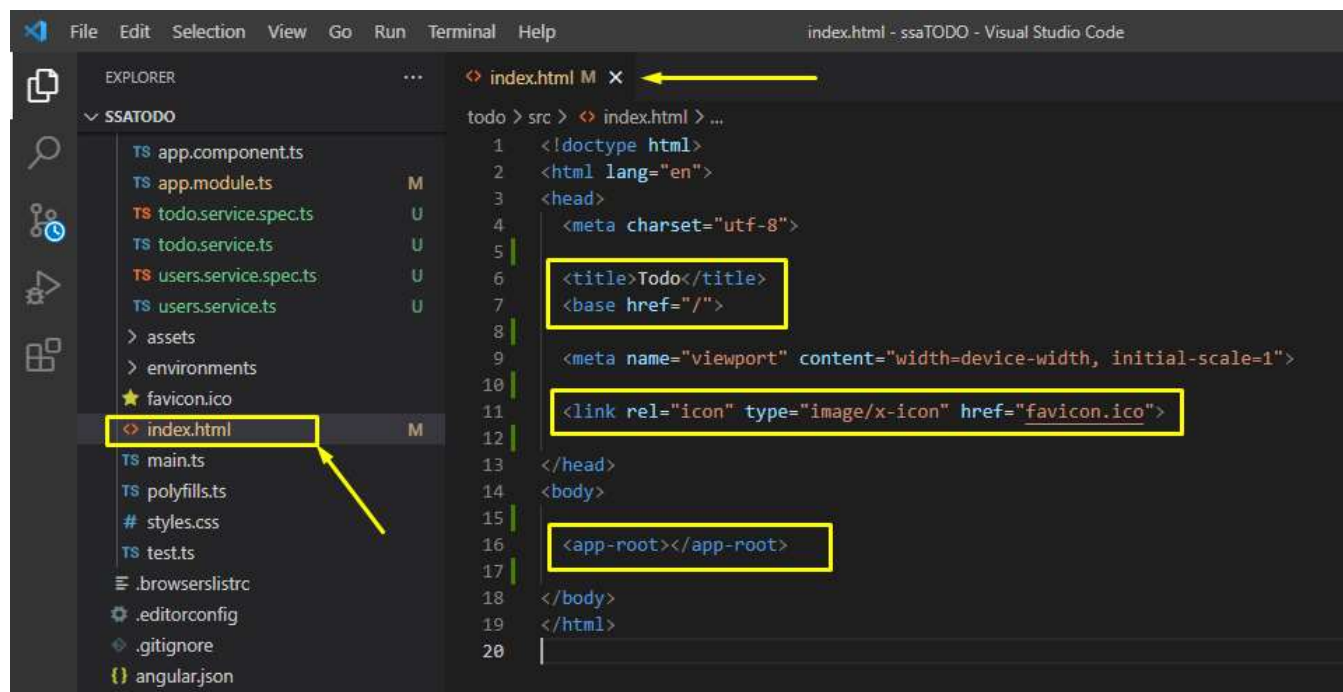
Klik na sliku



Zatim idemo do sajta butstrepa gde kopiramo starter template:

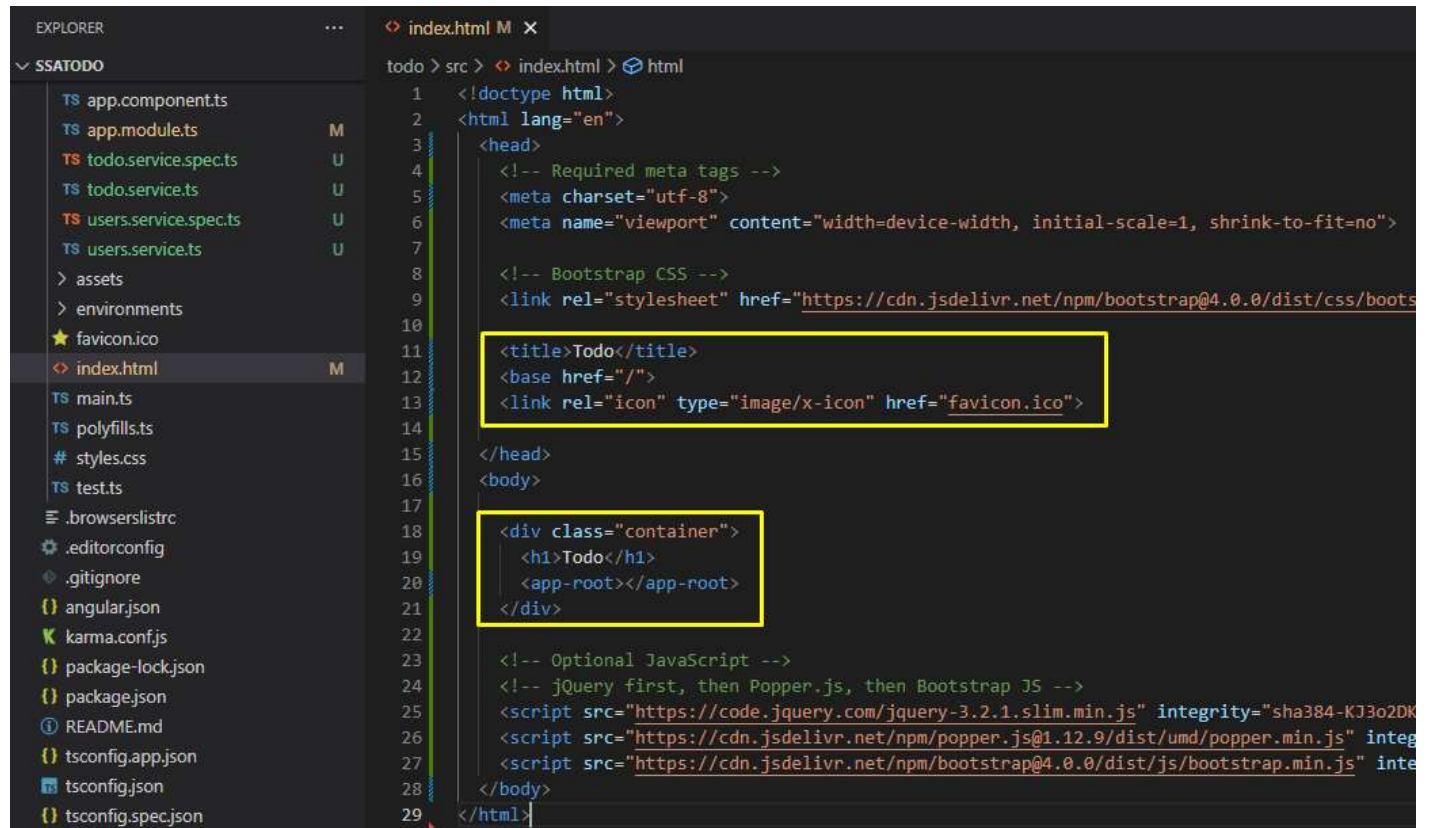


Zatim idemo do glavnog index.html fajla iz kog nam je potrebno da sacuvamo tj kopiramo uokvirene delove koda u novi butstrepost starter templejt.



kopije recimo u notpedu staviti dok ih ne kopiramo u novi butstrepost 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:

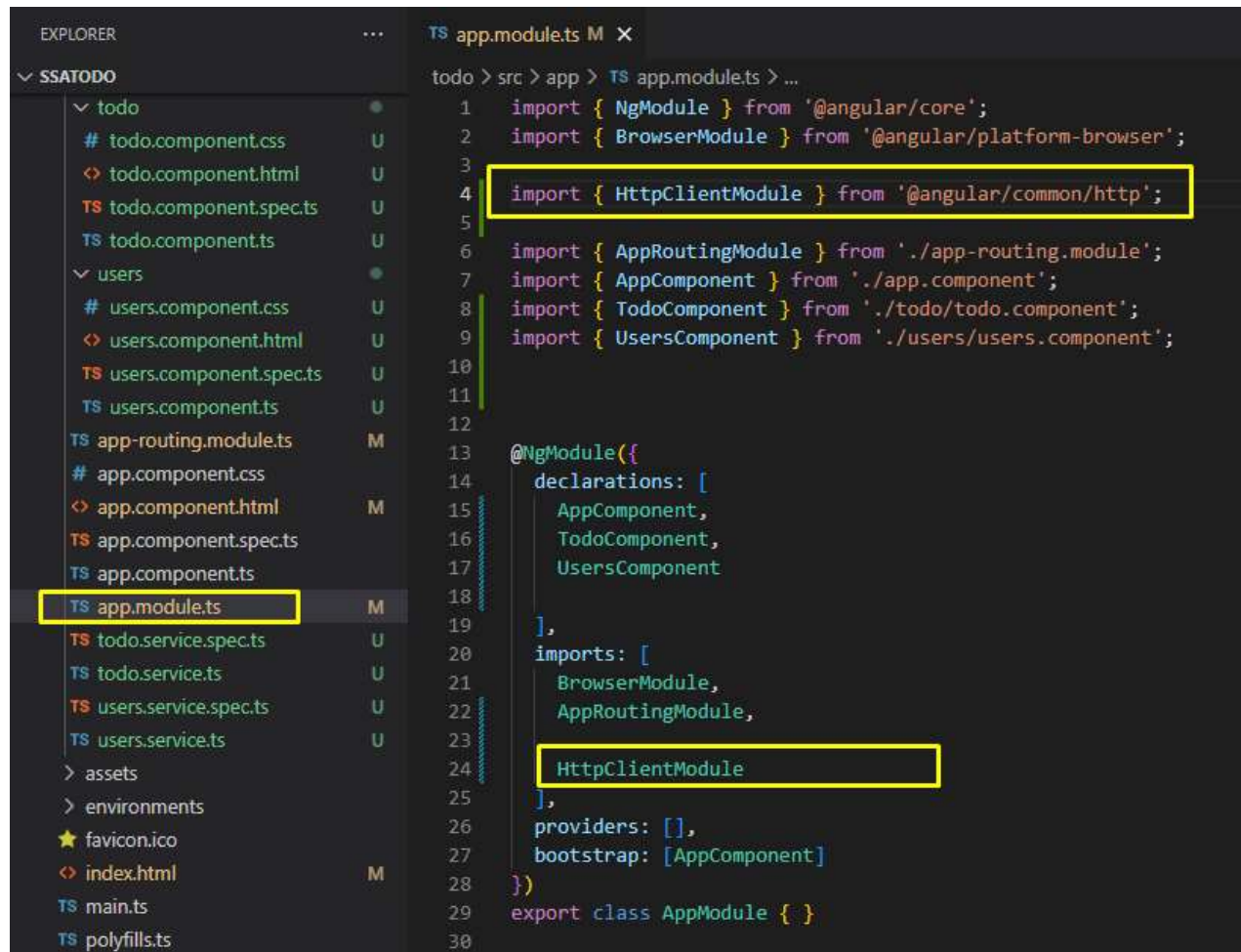


```
1 <!doctype html>
2 <html lang="en">
3   <head>
4     <!-- Required meta tags -->
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7
8     <!-- Bootstrap CSS -->
9     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css">
10
11     <title>Todo</title>
12     <base href="/">
13     <link rel="icon" type="image/x-icon" href="favicon.ico">
14
15   </head>
16   <body>
17
18     <div class="container">
19       <h1>Todo</h1>
20       <app-root></app-root>
21     </div>
22
23     <!-- Optional JavaScript -->
24     <!-- jQuery first, then Popper.js, then Bootstrap JS -->
25     <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DK" ></script>
26     <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js" integrity="sha384-AIUb06/H2" ></script>
27     <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js" integrity="sha384-JRP5" ></script>
28   </body>
29 </html>
```

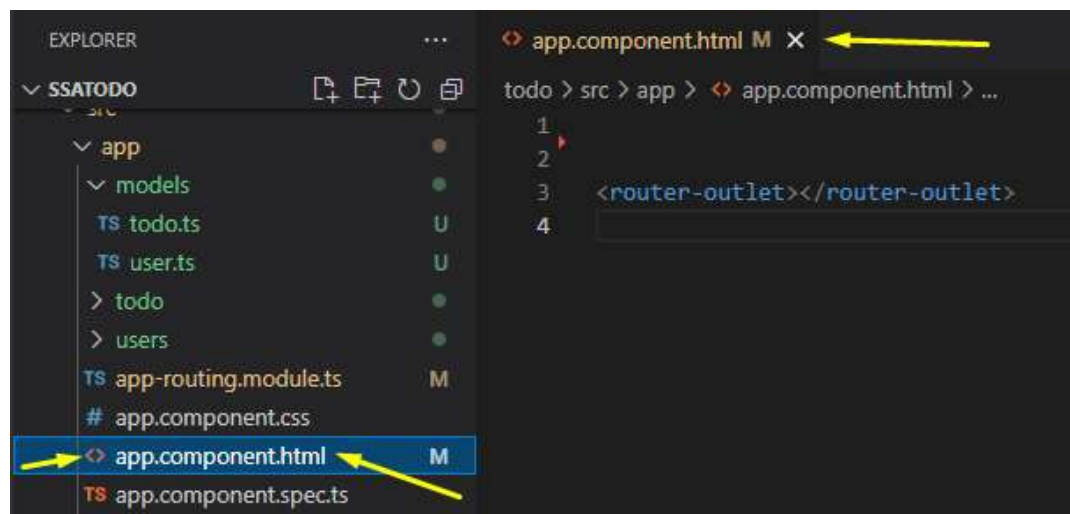

Ponovo se **vracamo do glavnog modula** I importujemo **HttpClientModule** kao na slici ispod :

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

HttpClientModule



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



Resenje

localhost:4200/users

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 Runolfsson	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.

localhost:4200/todo/1

Todo

ID	Title	Completed
1	delectus aut autem	false
2	quis ut nam facilis et officia qui	false
3	fugiat veniam minus	false
4	et porro tempora	true
5	laboriosam mollitia et enim quasi adipisci quia provident illum	false
6	qui ullam ratione quibusdam voluptatem quia omnis	false
7	illo expedita consequatur quia in	false
8	quo adipisci enim quam ut ab	true
9	molestiae perspiciatis ipsa	false
10	illo est ratione doloremque quia maiores aut	true
11	vero rerum temporibus dolor	true