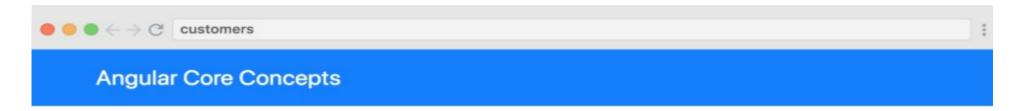
Angular

Co budujemy



Customers

James Thomas



\$29.99

Las Vegas

IntelliJ

```
npm install -g @angular/cli
ng new my-dream-app
cd my-dream-app
ng serve
```

Angular CLI

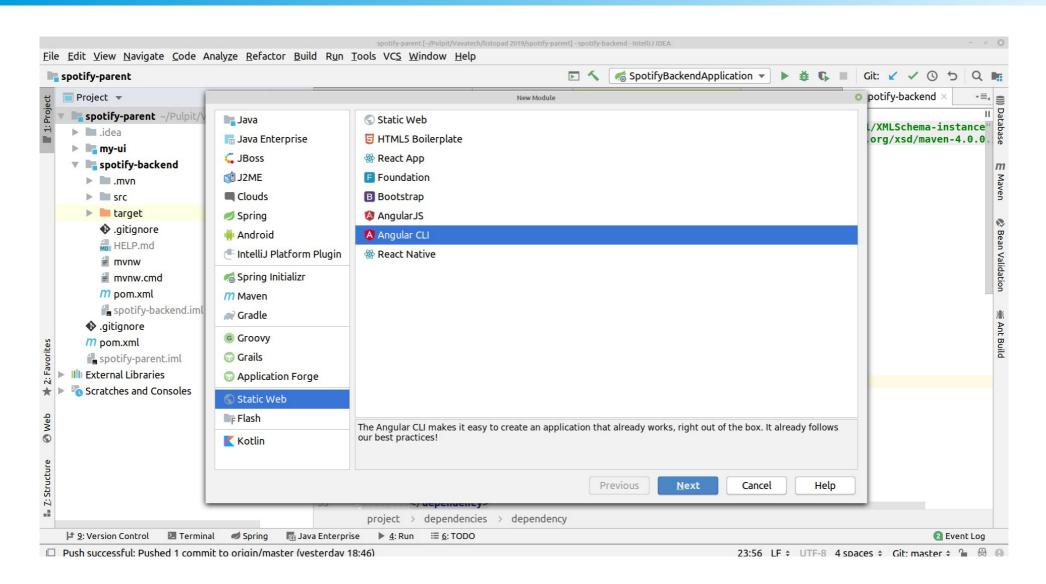
A command line interface for Angular

GET STARTED

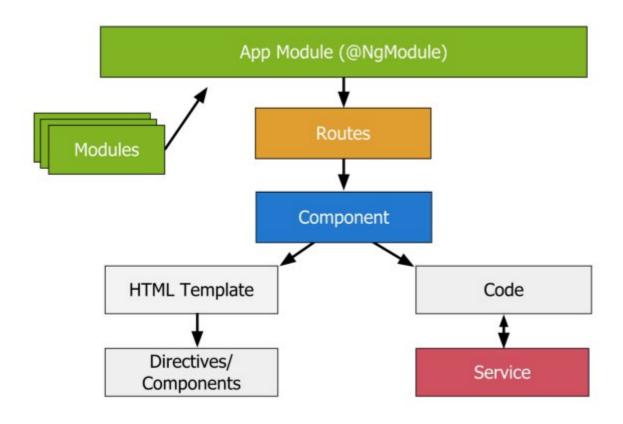
Angular CLI

```
ng --version
ng --help
ng new my-app-name
ng generate
    [component | directive | pipe | service | class | interface | enum | guard]
ng build
ng serve
ng lint
ng test
```

IntelliJ



Komponenty i moduły



Komponenty i moduły

```
imports
import { Component } from '@angular/core';
import { DataService } from '../services/data.service';

@Component({
    selector: 'app-customers',
    templateUrl: './customers.component.html'
})

export class CustomersComponent {
  }
}
```

App Component

```
import { Component, OnInit } from '@angular/core';
    @Component({
      selector: 'app-root',
     template: `
        <h1>Hello World</h1>
    3)
    export class AppComponent implements OnInit {
      constructor() { }
      ngOnInit() {
17 }
```

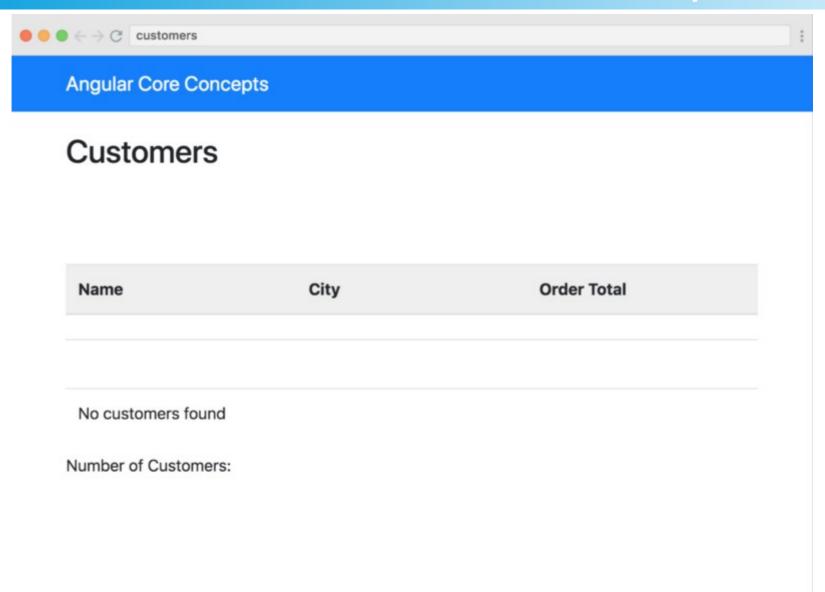
App Component



App Component - customers

```
src / app / customers / customers.component.ts
    import { Component, OnInit } from '@angular/core';
    @Component({
        selector: 'app-customers',
        templateUrl: './customers.component.html'
 6 })
 7 export class CustomersComponent implements OnInit {
        title: string;
        people: any[];
        constructor() {}
        ngOnInit() {
            this.title = 'Customers';
            this.people = [
                { id: 1, name: 'john Doe', city: 'Phoenix', orderTotal: 9.99, customerSince: new Date
                (2014, 7, 10) },
                { id: 2, name: 'Jane Doe', city: 'Chandler', orderTotal: 19.99, customerSince: new Date
                (2017, 2, 22)},
                { id: 3, name: 'Michelle Thomas', city: 'Seattle', orderTotal: 99.99, customerSince:
                new Date(2002, 10, 31)},
                { id: 4, name: 'Jim Thomas', city: 'New York', orderTotal: 599.99, customerSince: new
                Date(2002, 10, 31)},
            1;
```

Customers – customers-list.component



filter-textbox.component

Customers

| Filter: | | |
|---------|------|-------------|
| Name | City | Order Total |
| | | |

Shared module - customers

```
export interface ICustomer {
   id: number;
   name: string;
   city: string;
   orderTotal?: number;
   customerSince: any;
}
```

Data Binding

Data Binding Syntax

- Write value using interpolation: {{ propName }}
- Bind to DOM properties using [property] or bind-property
- Bind to DOM events using (event) or on-event

Data bindings

```
<h1 [hidden]="!isVisible">{{ title }}</h1>
```

```
<button (click)="changeVisibility()">Show/Hide</button>
```

Data bindings - dyrektywy

```
12
   <a>>
      {{ cust.name }}
     </a>
   {{ cust.city }}
   {{ cust.orderTotal }}
  21
    
22
   {{ customersOrderTotal }}
   No customers found
```

Data bindings - dyrektywy

Customers

Filter:

| Name | City | Order Total |
|-----------------|----------|-------------|
| john Doe | Phoenix | 9.99 |
| Jane Doe | Chandler | 19.99 |
| Michelle Thomas | Seattle | 99.99 |
| Jim Thomas | New York | 599.99 |

Sortowanie - customer-list.component

```
sort(prop: string) {
    // A sorter service will handle the sorting
}
```

```
Name
City
Order Total
```

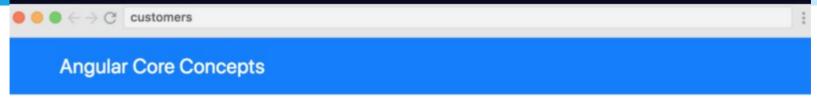
Data Binding—Input Properties

```
@Input() get customers(): ICustomer[] {
    return this._customers
}

set customers(value: ICustomer[]) {
    if (value) {
      this.filteredCustomers = this._customers = value;
      this.calculateOrders();
    }
}
```

```
<app-customers-list [customers]="people"></app-customers-list>
```

Pipes



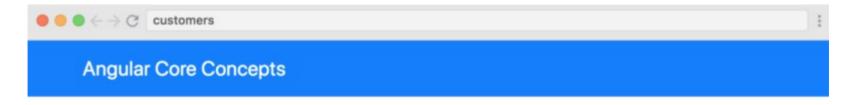
Customers

Filter:

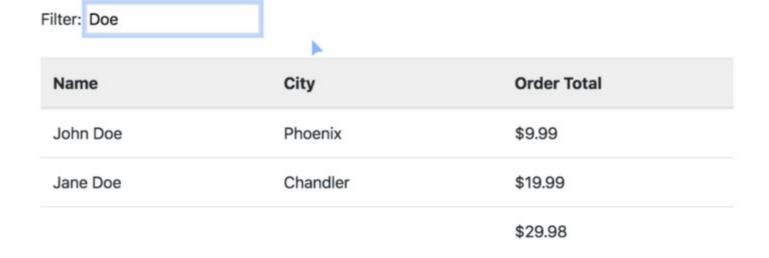
| Name | City | Order Total |
|-----------------|----------|-------------|
| john Doe | Phoenix | 9.99 |
| Jane Doe | Chandler | 19.99 |
| Michelle Thomas | Seattle | 99.99 |
| Jim Thomas | New York | 599.99 |
| | | 729.96 |

```
{{ cust.name | uppercase }} // renders JOHN {{ cust.name | titlecase }} // renders John
```

Filter i EventEmiter

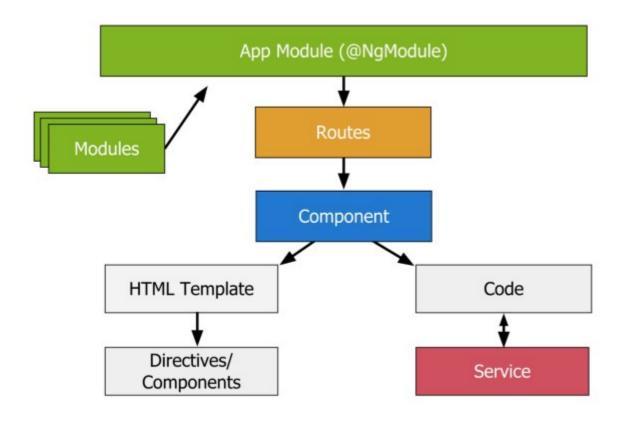


Customers



Number of Customers: 2

Services



Services

Angular Services

- An Angular service is a class that can be reused throughout an app
- Acts as a "singleton"

```
3---
```

```
import { Injectable } from '@angular/core';

@Injectable()
export class DataService {
   constructor() { }

   myServiceFunction() {
      //return data
   }
}
```

Service cd...

```
@Injectable()
    export class DataService {
        baseUrl: string = 'assets/';
        constructor() { }
        private handleError(error: any) {
19
          console.error('server error:', error);
          if (error.error instanceof Error) {
              const errMessage = error.error.message;
              return Observable.throw(errMessage);
          return Observable.throw(error || 'Node.js server error');
30 }
```

RxJavaScript

```
getOrders(id: number) : Observable<IOrder[]> {
    return this.http.get<IOrder[]>(this.baseUrl + 'orders.json')
    .pipe(
        map(orders => {
        let custOrders = orders.filter((order: IOrder) => order.customerId === id);
        return custOrders;
    }),
    catchError(this.handleError)
    );
43
}
```

Dodanie serwisu do komponentu

```
import { DataService } from '../core/data.service';
```

```
constructor(private dataService: DataService) {}
```

Zapisywanie się na odpowiedź

```
ngOnInit() {
    this.title = 'Customers';
    this.dataService.getCustomers()
        .subscribe((customers: ICustomer[]) =>
        this.people = customers);
```

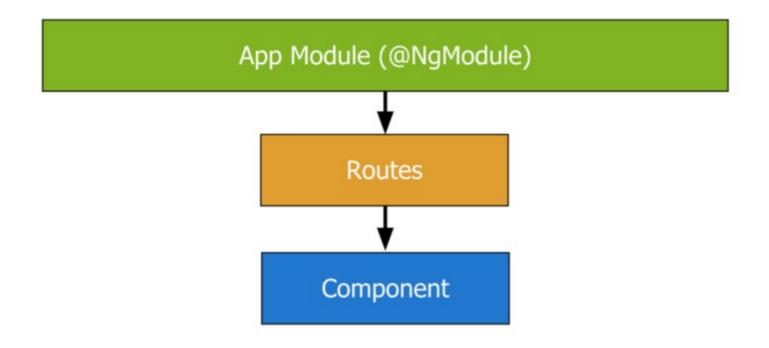
SorterService

```
import { SorterService } from '../../core/sorter.service';
```

```
constructor(private sorterService: SorterService) {}
```

```
sort(prop: string) {
    this.sorterService.sort(this.filteredCustomers, prop);
}
```

Routing



Routing

path — where your user goes, so path: '' would be the root of your app. path: '**' is a wild card match. It is usually placed last and it's there to cover cases for any route that is not specified in routes

pathMatch — how exactly should the route match for a specific component to bedisplayed

redirectTo — when a path is matched, this is where we send the user. In our case, we send them to /customers.