

Note 2019-07-02T08.47.31

Angular getting started workshop

Intro

- angular intro (1 min)
- goal -> Display app: to get to it:



```
* structure of the project / components expl
* bases:
  - extrapolation > __{{ __ }}__
  - controller to view: vars > __[]__ / view to controller: event > __()__
  - pipes (__date__)
  - directives (__*ngFor__, __ngIf__)
  - __@Input__ (__@Output__ exists)
* services (observable / model)
* routing
* forms (template / reactive) + Validators
* firebase bd connect
* build / deploy on firebase
```

Setup the project

1. `sudo npm install -g @angular/cli`
2. `ng new todo-list-app --style=scss --skip-tests=true`
3. `npm install bootstrap jquery popper.js --save`



1. `ng serve -o`

(+ explain files)

Todo-list / Todo

- components generate (todo-list / todo / header)

app

```
<app-header></app-header>
```

```
<div class="container">
  <div class="row">
    <div class="col-md-8 offset-2">
      <app-todo-list></app-todo-list>
```

```

    </div>
  </div>
</div>

```

todo model

```

export class Todo {
  id: number
  content: string
  date: Date
  checked: boolean

  constructor (
    content: string,
    date: Date
  ) {
    this.content = content
    this.date = date
    this.id = Date.now() + Math.ceil(Math.random() * 1000000)
    this.checked = false
  }
}

```

todo-list

```

todos: Todo[] = [
  new Todo('My first todo', new Date(2019, 5, 30)),
  new Todo('My second todo', new Date(2019, 6, 2)),
  new Todo('My third todo', new Date(2019, 6, 5)),
  new Todo('My fourth todo', new Date(2019, 6, 7)),
]

```

```
<h2 class="mt-3">Todos</h2>
```

```

<ul class="list-group">
  <app-todo
    *ngFor="let todo of todos"
    [todo]="todo"
  ></app-todo>
</ul>

```

todo

```
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.0/css/all">
```

```

<li
  [ngClass]="{
    'my-1': true,
    'list-group-item': true,
    'list-group-item-danger': getDiffOfDays() < 0,
    'list-group-item-warning': (getDiffOfDays() >= 0 && getDiffOfDays() <=

```

```

      'list-group-item-success': getDiffOfDays() > 2
    }"
  >
    <small>
      {{ todo.date | date: 'fullDate' }}
    </small>

    <h5
      [ngStyle]="todo.checked ? { 'text-decoration': 'line-through' } : ''"
      class="check"
      (click)="onCheckTodo()"
    >{{ todo.content }}</h5>

    <i
      class="far fa-square check"
      *ngIf="!todo.checked"
      (click)="onCheckTodo()"
    ></i>
    <i
      class="far fa-check-square check"
      *ngIf="todo.checked"
      (click)="onCheckTodo()"
    ></i>

    <small
      class="delete"
      (click)="onDeleteTodo()"
    >&#10007;</small>
  </li>

```

```

li {
  user-select: none;
  min-height: 85px;
}
small {
  float: right;
  color: #555;
}
.delete {
  font-size: 1.5rem;
}
.delete:hover {
  cursor: pointer;
}
.check:hover {
  cursor: pointer;
}

```

```

getDiffOfDays = () => Math.ceil((this.todo.date.getTime() - Date.now()) / (1000 * 60 * 60 * 24))
onDeleteTodo = () => console.log('delete: ', this.todo.id)
onCheckTodo = () => console.log('check: ', this.todo.id)

```

Service todos

```
`ng g s services/todos`
```

- copy todos from todos-list

```
todosSubject = new Subject<any[]>()  
emitSubject = () => this.todosSubject.next(this.todos)
```

```
deleteTodo = (id: number) => {  
  this.todos = this.todos.filter(todo => todo.id !== id)  
  this.emitSubject()  
}
```

```
checkTodo = (id: number) => {  
  this.todos.find(todo => todo.id === id ? todo.checked = !todo.checked : null)  
  this.emitSubject()  
}
```

Todo-list

- remove array data from todos
- todosSubscription: Subscription this.todosSubscription = this.todosService.todosSubject.subscribe((todos: Todo[]) => this.todos = todos) this.todosService.emitSubject()

Todo

- change delete / checked methods onDeleteTodo = () => this.todosService.deleteTodo(this.todo.id) onCheckTodo = () => this.todosService.checkTodo(this.todo.id)

Router

```
ng g c todos/todo-form { path: 'todos', component: TodosListComponent }, { path: 'new', component: TodoFormComponent }, { path: '', redirectTo: 'todos', pathMatch: 'full' }, { path: '**', redirectTo: 'todos' } - router-outlet > app component
```

Header

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">  
  <a class="navbar-brand" routerLink="todos">Todos</a>
```

```
  <ul class="navbar-nav ml-auto navbar-right">  
    <li class="nav-item">  
      <a class="nav-link" routerLink="todos" routerLinkActive="active">Todos</a>  
    </li>
```

```
  <li class="nav-item">  
    <a class="nav-link" routerLink="new" routerLinkActive="active">New</a>  
  </li>  
</ul>
```

</nav>

Form

- addTodo method in todos service `addTodo = (todo: Todo) => { this.todos.push(todo) this.emitSubject() }`
- import reactive forms module in app module ``

New Todo

Content

Date Save

```
- import FormBuilder, FormGroup, Validators
```

```
ngOnInit() { this.todoForm = this.formBuilder.group({ content: ['', Validators.required], date: ['', Validators.required] }) }
```

```
onSubmit = () => { this.todosService.addTodo(new Todo( this.todoForm.get('content').value, new Date(this.todoForm.get('date').value) )) this.router.navigate(['todos']) } ``
```