50)Project Challenge

We want to put some animations in our project. Like we dnt get data instantly , so we can animate that. So it would be nice to play some spinner, which indicates that data is being loaded. It will also be nice to animate when we mark a project. Maybe we can bumpup the scale and may be transition the border color.

51)Project: implementing an animating loading bar

Code-

Projects.component.html-

<div class="row">

<div class="col-xs-12">

<div

class="loading-bar"

\*ngIf="!projects">

<div

class="loading-bar-element"

\*ngIf="progress != 'finished'"></div>

</div>

<app-project

\*ngFor="let prj of projects; let i = index"

[project]="prj"

[ngClass]="{marked: markedPrjIndex === i, inactive: prj.status === 'inactive'}"

(statusUpdated)="onStatusUpdated($event, i)"

(projectDeleted)="onProjectDeleted(i)"

(click)="markedPrjIndex = i"></app-project>

</div>

Projects.component.css-

.inactive {

border: 1px solid #ccc;

}

.marked {

border: 2px solid blue;

}

.loading-bar {

width: 200px;

height: 20px;

border: 1px solid black;

margin: auto;

box-sizing: content-box;

}

.loading-bar-element {

width: 0px;

height: 20px;

background-color: deepskyblue;

animation: loading 1s ease-out infinite;

}

@keyframes loading {

0% {

width: 0;

}

100% {

width: 100%;

}

}

Here we used infinite because we want to restart the animation.

Projects.component.ts-

import { Component, OnInit } from '@angular/core';

import { Project } from './project.model';

import { ProjectsService } from './projects.service';

@Component({

selector: 'app-projects',

templateUrl: './projects.component.html',

styleUrls: ['./projects.component.css'],

})

export class ProjectsComponent implements OnInit {

projects: Project[];

markedPrjIndex = 0;

progress = 'progressing';

createNew = false;

constructor(private prjService: ProjectsService) { }

ngOnInit() {

this.prjService.loadProjects()

.subscribe(

(prj: Project[]) => {

this.progress = 'finished';

this.projects = prj;

}

);

}

onStatusUpdated(newStatus: string, id: number) {

this.projects[id].status = newStatus;

}

onProjectDeleted(index: number) {

this.projects.splice(index, 1);

}

onProjectCreated(project: Project) {

this.createNew = false;

this.projects.push(project);

}

}

52)Project: Transitioning Border Color

Here we want to animate the change of border when we selct a border. So we add this transition-

:host {

display: block;

border: 1px solid black;

border-radius: 3px;

box-shadow: 3px 3px 2px #ccc;

margin: 20px 0;

padding: 20px;

transition: border-color 0.5s ease-out;

}

53)Project: Animating the selection (“marked”) of List Items

Here we want to make the element that we have selected a little bigger. We are already attaching a class when we select a project. So we add our animation to that class.

In projects.component.css-

.marked {

border: 2px solid blue;

animation: marked 0.5s ease-out forwards;

}

@keyframes marked {

0% {

transform: scale(1)

}

50% {

transform: scale(1.05)

}

100% {

transform: scale(1)

}

}

54)Transiition vs Animations vs Angular Animations

See lecture