[Curs 3]

Modules, Components, Data Binding, Directives, Pipes Thought Project Shuckere

papp folder: contains "modules" and "components" for our Angulax application. Inode-modules folder: contains all packages installed for - assets tolder: contains resources such as images, styles, icons, etc. environments folder: contains the environment contiguration constants that help while building the angular application favicon. io: the icon appears in the browser tab of our application index. html: Basic HTML file
main.ts: the starking point of our application. it
bootstraps (starts the App Module from the app. module.ts to specific Java Script methods Pstyles. essiglobal CSS hile.
Plests.ts: main lest hile browserslister tile: browser compatibility and varsions

\* editorconding: this tile deals with consistency in code editors to organize some basics such as indentation and whitespaces rangular. json: defines the structure of our application. It includes settings associated with our application (+ env).

\* Karma. contijs: contigunation tile for the Karma Test Runner. It is used in Unit Teshing all the package ison: the npm configuration file. All the dependencies mentioned in this file. We can modify dependency versions as per our need on this tile \*package-lock. json: whenever we change something on the node-modules or package json, this like will be be generated. - README.md: created by default. it contains our project description otscontig.app. json overrides the tscontig. json tole with relevant app-specific contigurations
- tscontig.base.json introduced in Angular 10+. It has the same configuration as compared to know Lig. json tile tsconfig. json: Type Script compiler configuration file. This is responsible for compiling Type Script to Law Script so that the browser will understand, \*ts config. spec. json: overprides the tsconfig. json like with app-specific and unit lest configurations while running the "ng test" command - Itslint. json : static analysis tool. This tile Keeps mack of the Type Script code for readability, maintainability, and Lunctionality errors.

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(Curs 3) 11 Decorators Definition: in Angular, the decorators are used to store metadata about a class, method, property or paramoter parameter. Each decorator has a list of arguments which can be set. - Class deconator : Poly Module

@ Component

@ Directive - Parameter decorator: {@Input @ Output III Angular modules Definitions: Angular modules Keep application code organized by blocks of hunctionality and teatures. A sport module acts as the starting point for an A. D. o andication Angular application. Each Angolar app has a module (called root) to which we can link other modules called harupe modules. The components are the main building blocks for an Angular application. Each component is composed of:

Angular application. Each component is composed of:

THE haplate: what renders on the page.

-> CSS styles

- Typescapt class: that defines the behavior

OCSS selector: define the tag of component, this will be used to call the component in a template

L' Angolar Standalone Components Components, directives, and pipes can now be standalone. Angular classes marked as standalone do not need to be doclared in an a Ng Module. Standalone components specify their dependencies directly instead of getting them through Ng Modules. Standalone components per can also be imported into existing Ng Modules - based contexts. Advantages:

-plays loading
-psimplify creation of components

simplify project structure and module management Data binding

Data binding allows to define communication between a component and the DOM. 1) Interpolation: {{value}} 2) Property binding: [property] = value" 3) Event binding (event) = "method ()" 4) Two way data binding: [ (ng Model)] = property? Interpolation reters to embedding expressions into the text between HTML element tags and within attribute assignments. By default, interpolation uses as its delinited the double curly braces.

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Property binding Hows a value in one direction, teem a component's property into a target element property property.

When an event is briggered, the desired method is called in the component.

Two way data binding allows bidirectional dataflow.

VII @ Input() and @Output()

Definition: @input() and @Output() represents common component communication scenarios in which two or more components share intormation.

1)@input()

Send a message from parent component to a child component.

Send a message show a child component to the parent component.

Pipes let you declare display-value hears formations in your template HTML.

? { fitte | uppercase }} You can creak custom pipes that can manipulate your displayed data in any desired way.

@Pipe ( {name: 'add Years', standalone: true}) export class Add Years lipe implements lipe Transform ?

transform (value: number): string ?

years")

## Dinectives

There are three Kinds of directives in Anyslaw. 1. Components: directives with a template

2. Attribute directives change the appearance or behavior of an element, component, or another directive

3. Structural directives: change the DOM layout by adding and removing DOM elements a) ngit: makes a DOM element to be added or removed based on a boolean expression b) ng Tor: makes a DOM element to be added for how many times the boolean expression is here

## X Commands

- create a new app : ng new app-name

- oceate a new module ng generate module-name

ocheate a new componenting generate component-name

"install packages (when needed) inpm install

Non the apply default nons on http://localhost:4200)

ng serve