Angular/CLI(command line interface)

How to install Angular

Npm install –g @angular/cli (-g = globally)

Wants to get a list of command you type NG HELP

When we want to create component we use

NG GENERATE COMPONENT NAME (NG G C NAME)

Also module can be generated as

NG GENERATE MODULE

Also components in a module can be generated as

NG G C MODULE NAME/FILE NAME

Alos class can also be created as

NG G CLASS NAME

Also to create a folder

NG BUILD

WHAT IS COMPONENT

Component are building block of our application

HOW TO CREATE COMPONENT

NG GENERATE COMPONENT NAME

How do we use this components

Ng g component name / inline—style.css

Ng g component name / inline—style.css inline template

**WHAT IS MODULE**

Complete feature of your application

Component 1 component2 component3

Service pips

Example

User Auth

Login Register Forget password

API Helpers

call

**HOW TO GENERATE MODULE**

Ng generate module name

Creating component in a module

Ng generate component user-auth/login

**HOW TO MAKE AND CALL FUNCTIONS**

Point to note;

1. Define function
2. Call function on button click
3. Parameters in function
4. Interview questions

Define functions

* Go to classcomponent and define the function without the use of the word function
* Then html and place your button with the name click me

IMPORTANT EVENTS IN ANGULAR

1. Call function with different events
2. Events with input box and get value
3. Interview Questions

Call function with different events

<button (click)="getData('Click Event')">Click Me</button>

<br  /><br  />

<input type="text" #box1 placeholder="keyup box" (keyup)="getData(box1.value)">

<br  /><br  />

<input type="text" #box2 placeholder="keydown box" ((keydown))="getData(box2.value)">

<br  /><br  />

<input type="text" #box3 placeholder="blur box" (blur)="getData(box3.value)">

<br  /><br  />

<input type="text" #box4 placeholder="input" (input)="getData(box4.value)">

<h2 (mouseover)="getData('mouseover')">Code Step by Step</h2>

<h2 (mouseleave)="getData('mouseleave')">Gabee</h2>

PROPERTY BINDING

What is property binding?

<h1>{{title}}</h1>

<input type="text" value={{name}} disabled="{{disabled}}">

<br /><br/>

<input type="text" [value]=name [disabled]="disabled">

To check if a particular condition is true

<h1>{{title}}</h1>

<h1 \*ngIf="show else elseBlock">

    Code step by step

</h1>

<ng-template #elseBlock>

    <h1>Else condition</h1>

</ng-template>

How to use if and else to check the quality of a data

<h1 \*ngIf="show; then IfBlock else elseBlock"></h1>

<ng-template #IfBlock>

    <h1>if condition</h1>

</ng-template>

<ng-template #elseBlock>

    <h1>Else condition</h1>

</ng-templ

<h3 \*ngFor="let items of users">Name is {{items}}</h3>

<h3 \*ngFor="let items of usersDetalis">

    Detatils are {{items.name}}--- {{items.email}}---{{items.phone}}</h3>

Style binding

<h1 [style.color]="'green'">{{title}}</h1>

<h1 [style.color]="color">{{title}}</h1>

<h1 [style.color]="color">{{title}}</h1>

<button (click)="updateColor()">UpdateColor</button>

<h1 [style.color]="color" [style.backgroundColor]="bgColor">{{title}}</h1>

<button (click)="updateColor()">UpdateColor</button>

Header

First create the component

Ng c header

nav>

    <img src="https://helpx.adobe.com/photoshop/using/convert-color-image-black-white.html" alt="">

    <ul>

        <li> <a href="#">Home</a></li>

        <li> <a href="#">About</a></li>

        <li> <a href="#">Login</a></li>

        <li> <a href="#">users</a></li>

    </ul>

</nav

Import form module

<h1>{{title}}</h1>

<form #basicForm = "ngForm" (submit)="getData(basicForm.value)">

    <input type="text" ngModel name="user" placeholder="Enter user name">

    <br /><br />

    <input type="text" ngModel name="email" placeholder="Enter email">

    <br /><br />

    <input type="text" ngModelname="password" placeholder="Enter password">

    <br /><br />

    <button>Register</button>

</form>

<ul>

    <li>{{userData.user}}</li>

    <li>{{userData.password}}</li>

    <li>{{userData.email}}</li>

</ul

Toggle element

Means how to hide element in a single button

<button (click)="toggle()">Toggle</button>

<h1 \*ngIf="display">Heading tag</h1>

Add bootstrap

What is bootstrap

Library that makes other application responsive

How to install bootstrap

ng add @ng-bootstrap/ng-bootstrap

How to create material UI

<mat-slider min="1" max="100" step="1" value="50"></mat-slider>

<div class="example-button-row">

    <button mat-raised-button>Basic</button>

    <button mat-raised-button color="primary">Primary</button>

    <button mat-raised-button color="accent">Accent</button>

    <button mat-raised-button color="warn">Warn</button>

    <button mat-raised-button disabled>Disabled</button>

    <a mat-raised-button href="https://www.google.com/" target="\_blank">Link</a>

  </div>

Todo list with Angular

html

<input type="text" placeHolder="Enter New Task" #task >

<br>

<br>

<button (click)="addTask('Task.value')">Add new Task</button>

<input type="text" placeHolder="Enter New Task" #task >

<br>

<br>

<button (click)="addTask(task.value)">Add new Task</button>

<br>

<ul \*ngFor="let item of list">

    <li>{{item.name}} <button (click)="removeTask(item.id)">Remove</button></li>

</ul>

Ts

list:any[] =[];

  addTask(item:string){

      this.list.push({id:this.list.length, name:item})

      console.warn(this.list)

  }

  removeTask(id:number){

      console.log(id)

      this.list =this.list.filter(item=>id!==id)

  }

How to send data from parent to child component

Parent html

<child1 [item]="data"></child1>

<button (click)="updateData()">update Child Component</button>

Parent ts

data = 5;

  updateData(){

    this.data = Math.floor(Math.random()\*10);

  }

Form in Angular

Uses of forms

1. Submit any information to Database
2. But angular cannot connect to Database so we send data to API and API update the database

Example of forms

1. Login
2. Sign up
3. Post
4. Google search is also a type of form

TYPES OF FORMS

Template driven forms

* Mostly work done in the component template

Reactive form

* Mostly work done in component class

Data flow of angular

Template Class Service (API) Database