

Angular class 13

Topic

- ① custom directive → - help to make in a project
(like a library - predefined)
↓
can be reused.

Why custom directive?

- to build your own directive so that we can use JS or jQuery.
- so we can use other lang. features like animations of jQuery or google maps.

- ① make a folder, customDir
- ② install angular using bowser -
include in script tag.
- ③ make module - app
- ④ New → like config., controller, factory
- ⑤ app.directive ("fooHeader", function() {
directive
controller
companyname
});

- ⑥ like factory returns object
directive also returns object.

directive → func → obj → return obj.

func() {

var obj = {
template

return obj;

};

- ⑦ use template: '<h1>this is header </h1>'
include html

in html

not used much for java or not developers

```

<foo-header> </foo-header>
<foo-header> </foo-header>
  + ⊖ n
  small
  <foo:header> </foo:header>
  
```

or a separate vml → for new nml file

```

var obj = {
  template vml: header.html
}

```

make a new nml

header.html →

2 div
 <div> company logo
 </div> a nml

Benefit of directive

html - less
 if page login - make it directive.

logic → HTML does NOT know camel case

∴ testheader

↓

test-header

use -> typom

logic / link

custom directive for HTML

directive name - used like HTML tag only

if the instruction is defined in directive (function body)

link

Since directive ~~not~~ are either attributes or tags

∴ HTML tags

But prob is

this directive - [which controller, which factory, which cs]

↓

it does not bind

∴ Drawback

[so use only for reusability]

∴ → TO divide HTML in directives

new state

Angular HTML using directives

use of this

```

- module
app.controller ( function($scope) {
  console.log ( this );
  $scope.show () {
    console.log ( this );
    this.message = "Hello user";
  }
} )

```

here object is controller
∴ window

current object here is scope

this.message = "Hello user"

HTML

a button — & on click call a func.

⇒ Grunt

compress or minify

but also uglify.

i.e. ~~this~~ it minimises variables also

for say \$scope → 'A'
or factory → B

So prob is at the code minification

⇒ Array in controller.

So solⁿ is to use square brackets. — ~~is~~ i.e. Array

2 ways —

1) → controller (name, func)

or

2) → controller (name, array)

∴ app.controller ('ctrl', ['scope', func(s)])

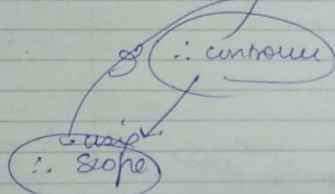
s.show = function () {
this.message = "Hello user";
}

if we give small names!

here '\$' is alias name of \$scope.

>> Dynamic directive

means to attach this directive with JS



put the (directive name - as html tag)

inside controller body

so controller scope is given to directive

store scope of controller to directive by using

```
<div ng-controller=" " >
{
<div>
</div>
</div>
```

if this directive also has a controller

mention it within the directive obj body

```
var obj = {
  template: "...",
  controller: function ($scope) {
    $scope.print = function () {
      $scope.msg = " "
    }
  }
}
```

not name of that ctrl

html a button that calls that func
but call is from in directive

7) directive directive

```
app.directive('companyTitle',
  function() {
```

```
    var obj = {
      compile: function($element, $scope) {
        return function(scope, element, attrs) {
          // ...
        }
      }
    };
  })
```

for html - not new tag but inside div
 <div company-title >

to give feature to existing html
 by own

E - element
 A - Attribute
 C - comment

Directives

are used to add other codes and features
 of jstems to add other features

then merge it

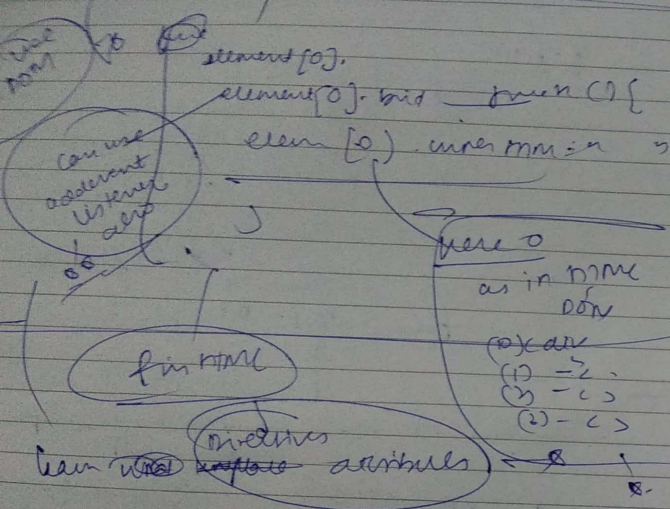
(all dependencies inside it only)

1) angular2-net - give map
 (includes it in directive)

In Angular - use data structure (e.g. JS)
 from scope HTML

DOM in angular - use with instruction directive

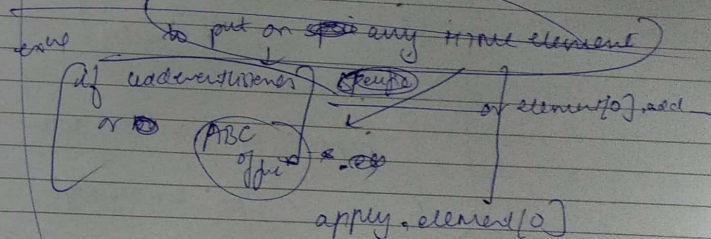
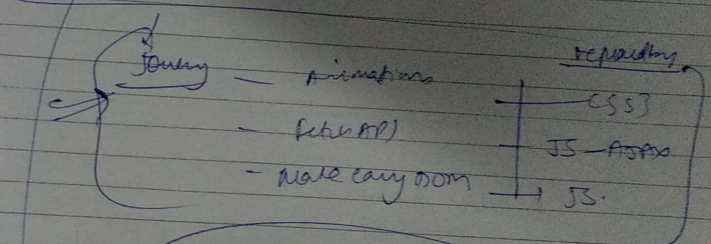
function parameters of init (scope, element, attrs)



use jQuery in browser

initiate explorer
→ since angular, we use jquery

include script tag in HTML of page



now can use jQuery for .width

in jQuery

element.width(1000);

Can use pure JS inside .directive div

template: "<h1> {span id= ' ' /> {/span}</h1>"

or use can also like in JS

PTS

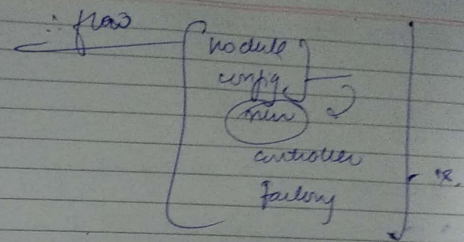
5) AngularJS

if we want a code to run before controller
suppose to fetch any data from local storage

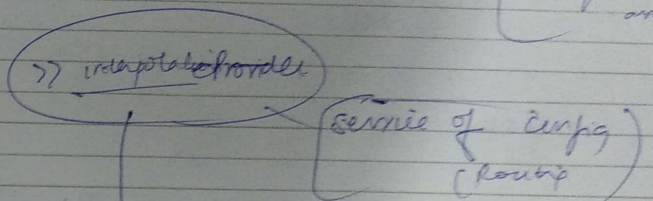
∴ use angularJS

Example: make a module - & then

app.module('app',
function() {
 controller('ctrl', function(\$scope) {
 // ...
 })
})



These features controller, promise, array



|| series strip interpolation
to change this service of ||

we use interpolationProvider

app.config(function(interpolationProvider) {

3

∴ make app — module

```
{ config ( )  
  interpolateTronels, startSymbol('[[',  
    endSymbol(']]');  
}  
involes ( )  
  { start.message  
# now JS — SS }  
but [[message]];
```

need to use

as there is a template engine
{ handlebar & can be used with
 ~~css~~ nuxls.
 # it uses [[]]
 ∴ we can change this.