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	Type Soupt.
	1 . sortery days ?
	TION CALLED
	open source, object ordented, Developed and maintain,
	of winoselt.
	> Licensed under Apache 2
	Javascript but statically typed
THE REAL PROPERTY.	PART OF THE PART O
	Typescript code (Typescript tile) (*.ts)
	L
	compilation transpilation typescript compiler
	(180)
	Vanilla Is code Javes wipt tile
	(runs every where)
	Design Goals of Ty pescript.
*	Statically identity I was wift construct at compile time,
	that are likely to be errors
*	Be a cross platform development tool.
*	Empose no runtime ouerhead on emitted programs.
*	High compatibility with extering savasaript code.
*	Provide a structuring mech. tor larger pieces 3 code.
×	Align with current and future Econtscripts proposals.
	Typesvipt
	Language te Empiler Language
	Language te compiler language
const	ets of keywords, converts ortranspiles affet common editor operations
SYNT	at and instructions written in editor operations of at and the statement of at the statement of a statement of
ann	equivalent completton, stantal
	code format and so an

function add (alany, biany): any ? it ctupe of == primper, 80 & tribe of p == , unuper,) of return 946;

it (typeot a ca'string' & & typeot b ac'string's ? return 9. concat (b)

console. (og (add (3,6)); (("phow", "olusti" | bbb) (add | "Hello", "world"));

Javasvipt V/s Typesvipt

7 It is dynamically typed + Hets cope develop-in 1995

tean be directly our on the browser

+ stisjust a svi, ptry

lanjuage.

y numbers and sturings and object

+ code Example.

> It is strongly ryped.

-1 Guoquin 2012

- ts water

- connot be directly run on the browser

- supports oop, clause, intertaces:

- number string are interface: 4 code coumple.

F " got 15 : Jeline " horse" , oslom 3. [seyword] [variable-name) : [type_annotation] = value;

· 2018 2 more aprigory of the of bear to agree of

The first send to some it a state of a law to decide the

for again who have derived as a finished

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	in a used to check for existence of property			_
	on an object make: "Hond", model: C	LIQ	• 3	_
	consolering of 'make' in Bike); !	outp	ut 1 true.	_
•	delete + used to delete properties from Bites	L		-
	support of returns the data type of			-
	instance of a week to struct of specific of specific of	ythe	of when	
	Not-			

pedsion Making: it statement! it - elle statement; loans ar level salf switch ; petinite luopi while loop; do .- while loop; vignor of 19 hor same on same A break; mas fa jo hoger and south mit continue; Functions !function tune_name ([parametere]); 1. Named tunction Shirt will all 2. Anony mous tuntion let myhdd = tentton (xinumber, y:number): number ? cons. (2. (09 (my Add (213)); · Optional Perameters o petault forameters bedung was - a · Rest Panameter *Ourbads!to many languages each overload how its own implementation, but in its the overloads all decorate a single implementation. Munution outroad for string param tanation for tod (a: 24212 1p124212 1c124212) 124212) tunution overload for number params tuncon get Ang (92 number, benumber, conumber) inumber; dimplemen.

Almorion det And (al 34 sind Jum, p: string num, c 13 hydrum); &

non total = berselet (an 44 y 10) + barresut (p as 40 y 10);

non and and attack (an 44 y 10) now and ototal 3: return 'The ang 18' + "ang";

Armow Functions :-

Alex called as Lambda Function.

Typescript classes and Objects:-

A class in typescript is compiled to plain Javasaipt tunctions by Typescript compiler to work across

plattorms and browsers,

Aclass definition can contain to howing properties 1-

- 1. Fields
- 2. Methods
- 3. constructors
- 4. Nested class and Entertains.

Object Initializations

- 1. By reference variable
- 2. By Muthod
- 3. By Constructor.

Typescript supports only singu Inheritance and multilevel Inheritance.

we can use inheritance tor method oversiding (so runtime pocymorphism is achieved) and code reusability. rypesvipt Interfaces:

, total an contract in our application.

, used to entorce the implementation of specified properties or methods at an object.

I we cannot instantiate the interpace but can be returned by

and object that implements it.

I contains only declaration of methods and tields, but

Typescript Modules:

, modull is a way to vecate a group of variable, turntion, closes and intentaus, etc.

. Executes in local scope.

· veate using export keyword, we in other module saing impost keywood.

construence with a part of a source of the source

enous you provide so at a supply is propertied as me as a

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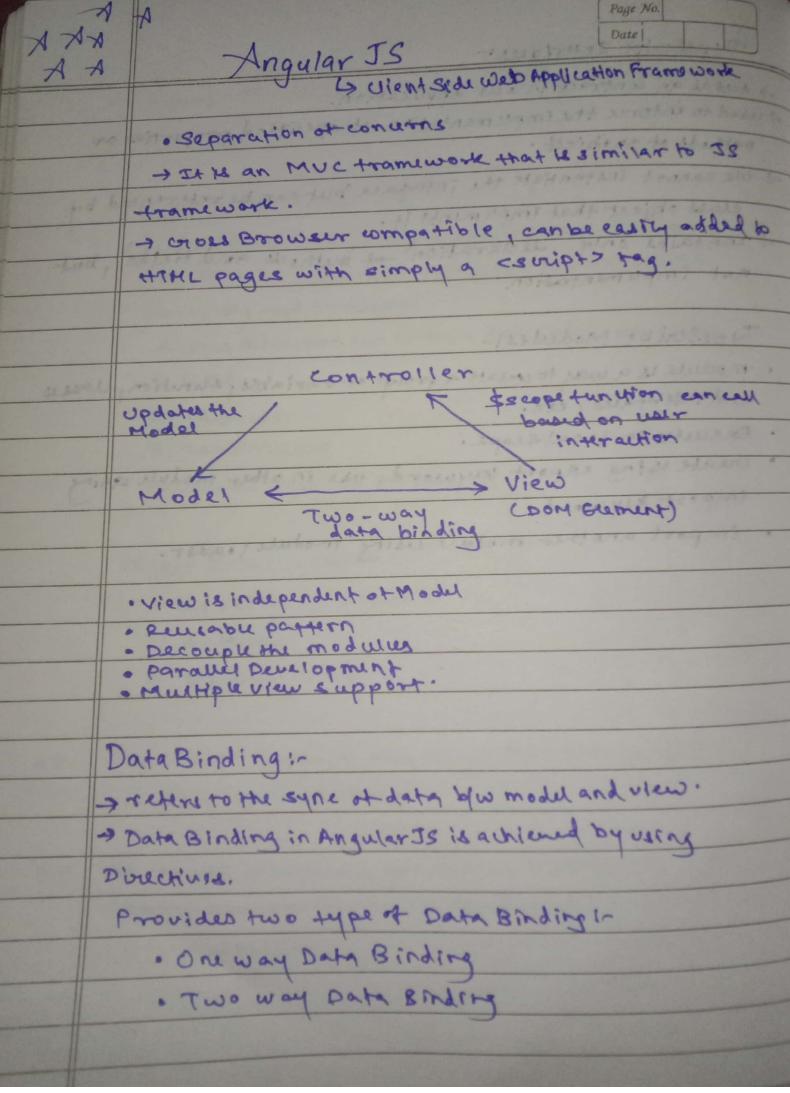
import another module using module leader.

hibe Note darkasarbai al carivo

*11/10 6 2779 1/15 N BURE 23 1/2 * Interestant printered .

· Proggald way of States and .

MANAGO MERRILLA



View one-way Data Binding get can be achieved by :-Interpolation Template Model , using ng-brad directive * Interpolation 1~ Ang IS expression can contain citrale, operators or variables, unlike traditional Is. · cdiv ng-appeuu> My expression in try 3 2 : 8 2 3 + 3 3 3 4 p> 2/div7 Two way donta Binding Templak View + continous updates changeto charge to model & lebam Opdate VIEW you updaty singu-souru-of model truth. > Model a proposition laborations, one crossing of a edir ng-appa" Dataty pe: ·Numbers ng-nnit or ng-controller · Strings <diu ng-app="" ng-init="tirst variaburance" your_string";</pre> second variable = your string > cp> My Harst exp in Ang Is 125 Hrst_variable + second_variable) < div>

	Page No.
	Date 188 Park
0	Angular Is Objects
	> behave same way as Is objects, can be accessed using
	dot operator.
	- 1 month of a graph had
. adda too	Arrays:
	same as Is Arrays.
	2 div ng-app = " " ng-init = " your_array = [011,243]'>
	My Hast value: 22 your array 20383 4p>
	eldiu>
**	** Note:
	· Agalar Is does not support conditionals, loops, and
	exceptions in expressions.
	· Does not support teurshion de daration
	. Does not support bituise, comma, void and new
	operator
	· Ignores null and undertrul properties.
	· Expression are evaluated belonging to scope object
	and not the global wholew.
	D'orectives!
1	
	2000. i Directives are used like Attributes.
Eddiner +	2 types: - " " " " " " " " " " " " " " " " " "
	Built-In
	Custom

Built in Disurius

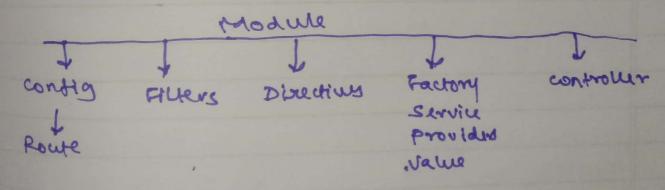
- . ng-app 1- Detines and links and Angularss to 147ML-
- to and I binds the values of Ary 35 to HTML input
- · ng-bind 1- binds days to 1+TML tags.
- . ng-controllers. to associate with controller
- ng-shows- shower hide control from DOM
- ong-init 1- Enitialise any variable
- o videsofer for labbled
- · ng-click: is like on click().
- · ng-rquised: tor torm validation.
- 19-duabadi- enabuor disable control at runtime.

Custom Directives!

To implement our own directives.

Angulards Modules:

Amodule is a collection of provided, services, directives, and optionally contig tile and run blocks which get applied to application during bootstrap proude.



holding a controver. app. controver ("Controver_name", tunchion (\$scope) &
\$scope. variable - name = "";

	Page No. Date	
1	Angular JS Scope!	1
-)	Angularis super. Scope is an object that retend to application model. used to bind both controller and model.	1
7	acussible to both.	1
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	· · · · · · · · · · · · · · · · · · ·	-
	Angular Controllers 1- control tlow of data.	
	control flow, of dain.	
	emplained to feet and there are done - to do the party	
	Angalarss Ritters:-	
-	guntions that are used to tormat, transform and Hiter de	19
	in expression.	
->	They allow you to modify data before it is displayed	
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clickstream Analysis: building blocks of murics and (KP23).

The witical Eighte

· 128175

· unique visitors

· Llur ou bads

· Timeonsite

· Bounce Rate

· Exit Rate

· comersion Cak

· Engagement

Web Analytics 2.0

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Strategic Shift

web Analytics 1.0

Clicks Rule!

Head

Analysis score me, me, me

Data -> Report -> You + BURS +

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and minuder of 199

making tackers

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Different types of Analysis:

, Descriptive + what happened in the past

. Diagnostic - why did It happened in the post

, predictive - what will happen in future

, prosessiptive - How can us make it happen.

Semantic Web

a goal that it would be possible for machine to understand duty on the

To unlock potential of web was of date rather than was of documents.

"An extension of current web in which information is given well-defined meaning better enabling computers and people to work together".

Main topics that provide conceptual underpinning

· Building models

· compating with knowledge

· Exchanging Into.

Linked Datal-

Define relaship with data.

accessiblity and integration

standard Format: - Linked Data Triples.

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	SPARQL
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