Class assignment - 2



Q2.	Write a short note on
a)	Angular JS Kontroller
7	They control the data of Angular JS applications.
7	They are regular JS objects.
-	The controller in Angular JS is a Javascript
A London	function that maintains the application date and
	behaviour using & Scope Object.
133	Code: - < div ng-app = my App ng- controller = my (tr)
	tirst name: <input -="" mode="" ng="" type="text" ="first name"/> (br)
	last name : <input)="" -="" <br="" model="lustname" ng="" type="text"/> bx)
4	Full name : { (first Name + " " + lastname) }
Marine Ch.	< Script7
	var app = angular module ('myApp', []);
	app. controller (my(tr)', function (\$ scope) {
	\$ scope, firstname = "John's
9	\$ scope . lastname = "Doe";
	3);
	(/script7
	The Court and ages ago 2
	- Angular JS application is defined by ng-appe "my App"
	171. all 0: 1. t
	- ing-controllers: "myctrl' is an Angular JS directive. It
	- my Ctrl is a Jarascrift function
	- After invoking the controller with a \$ stope object, the controller creates two variables (firstname)
	the controlles creates two variables (firstname)
	and lasmanie
	- The ng-model directives bind the input fields to the controller properties (firstname and lastname)
	the controller properties (firsthame and lasthame)

6) Angular JS scope: - In Angular JS, scope is a JS Object that acts as a content for variables and functions available to the templates. It serves as the glue between the controller (JS) and the view (HTML). - The scope contains data that can be bound to the view, and changes made to this data in the view of the controller are automatically reflectes in both places due to Angular JS's two-way date binding Ldiding -app = "my App" ng - controller = "my Ctrl"> LP > Name: & f name 33 < button ng-click = " Change Name () 1 > Change Name (buttog (script) var apr - angular . modulo ('my App', []) app controller ('my C+r), function (\$ scope)] \$ Scope name = " John Doe"; \$ SLOPP. Change Name = function() { \$ scope name = " Jane Doe"; (ISCRIPT)



Q4 Explain any 5 Angular JS directives with suitable example. 1) ng. app: - This directive initializes an Anghar JS Soltton: application. It designates the root element of the application and auto bootstraps it. Code:-<div ong-app- "my App"> </div> (script) var app = angular module ('myApp', []); < 1script > 2) ng - init: This directive initializes Angular JS application data. It's often used to set intial values of execute enpressions when the page loads. <div ng-app = " myApp" ng-ini + = "name = 'John'" > Hello, &f name 33! < /div> 3) ng-model: As mentioned earlier, this directive binds (4 the value of HTML controls to application data, enabling two way dato linding. Code: Ldiv ng-app = 'myApp" ng- controller = "my Ctrl"> Lingut type = "text" ng-model = " name"> < P> Hello, {{name}}}! </ P> (/div> (Scipt > var app = angular module ('my App', []); app controller ('my Ctrl', function (\$scope) }
\$ scope name = "John"; (/script)



4) ng-repeat: This directive iterates over a collection and generates HTML for each item in the collection, allowing dynamic rendering of lists Code: (UL) <11 ng-repeat ="Iten in items"> { sitem }3 (/117 (101) (script) var app = angular . module ('my App', []);
app controller ('my Ctrl, tunction (\$scope) ? \$ Score items = ['Apple', 'Banana', 'Orange']; < /scipt) 5) ng- it :- This directive conditionally renders the HTML elements based on the evaluation of an enfression. If the enfression is truthy, the element is included in the DOM; otherwise it's removed Code :-(div ng- APP=" my APP" ng- controller = "my Ctr 1"> < P ng-if= " Show Element" > This element is shown! (1P) < Idiv > (SCIPT) var app = angular module ('my App', []); all controller ('my Ctrl, function (\$ scope) { \$ scope show Flement = tree; </script)



Q6. Write a flask code to implement GET and POST request. Write a flask import Flask, request, isonity app = Flask (_ name __) # GET request handler @ app. route ('/', methods = ['4ET']) det get_request_handler(): retur 'This is a get request' # POST request handled @ app. route ('/', methods = ['POST']) det post request handler (): data = request . get - Json () # Get Json data from Post request way # Process the received data eg: - Save to database response_data = { message : 'Data received successfuly , 'data' : data 3 return isonify (response data) if __name__ = "__main__ "; app. run (debug = Trues) Q10. Write a Flask Script to display "This is TSEC TE Network" from flask import Flask olution: # Create a Flosk application app = Flask (= _ name _ -) # Define a least route for the root URL ("1") @ app . route ("1") det hello (): return " This is TSEC TE Network' It expose __ name_ == app run (debug = True)



Write Short notes on DRUPAL, JOOMLA, DJANGO 99 DRUPAL:tion :-- It is a free, open source content management system to build and maintain websites, online directories, e-commerce stores, intranetes and other Types of digital content -> It is a popular and customizable content management framework. This makes it suitable to write both simple and complex applications. - It includes thousands of modules and themes to attract web audiences and build a community. Key features: - 1) It is known for "What you see is what you get; " or WYS IWYG, content creation and editing tools. Even & non-technical users can uptote and publish content 2) It has the theme system to customize front-end. 3) It has day drag-drap interface to build wepages 4) Enables uses to add media to the above website Other features: · Menu management . URL management · simple syndicate · Log management · Content scheduling . SFO



	United the control of
	Layers in DRUPAL: - Control flow works on 5 main
	layer.
100	1) Bottom (Base) layer is data layer
	2) Second Rayer - Modules
77	3) Third layer - Blocks and Menu's
	4) Fourth layer - Permissions
	5) Fith layer - The Skin (HTML /css)
	Advantages:
1	- It is open source and extensible
	- Aighly customizable tools available
	-> 2t include Web development facilities.
	- Access the thousands of modules to get more uses
	1- 1101:
	-> Ecasy to get install and highly accessible> It is collaborative by design.
	- It is collaborative by design.
	Joomla:
	- It is an open source content management system
	which is used to build websites and onein approximations.
	- It is free and extensible which is seperated into
	Want-and and back-end
	9t is douglabed using PHP OUT and My of L
	-> It is to be used by heaple who have wask website
	creation skills:
	[maragel User Bannel maragel
	Template margel
	managel Transmal
	Meny manager
	[Search]
	[RSS] [Contact Web link manager]
	[Manager]



- · West manger De It allows managing User information.
 · Content manger It manages content using WYS INY G.
 · Banmer manager Used to add branners on the website.
 · Template manager Manages the design to be used on the website.
 · Media manager Easily uploading media.
 · Contante manager Albous to add contracts and user information.
 · Search Searching offrapriation information on
- the cost web is allowed. Menu manager - It allows creating Menu's easily. RSS - Real simple syndication

Advantages: - 1) Open source and available for free 2) Easy to install and use.

3) Build web site /app in less amount of time

4) Very easy to edit content.

5) Data Safety is present.

6) Toomle is compatible with all browsers.

Disadvantages: 1) Makes website heavy to Road and Sun 2) It is NOT SEO friendly.

3) Development is difficult to handle.

4) Physins and modules are not FREE

5) Compatibolity problems arise during installing.

P. T.O .

DJANGO: -- It is a high level Python Web framework that encourages rapid development and claim fragmatic design. - It follows the Dont repeat yourself' (DRY) principle aimining to minimize redundancy. - It prometes code reusablity. -> Provides built in features for handling common web development tasks. like VRI routing. - It includes Object relational - Maffing (ORM) system for interacting with database 21 makes working with data models easy. - It comes with a rich set of tools and libraries, reducing the need of thers - party redundancies - It has a vibrant community and entensive documentation making It easy too developers to find support