***DOCUMENTAION--ANGULAR ROUTING***

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* **INTRODUCTION**

Angular is an application design framework and development platform for creating efficient and sophisticated single page applications.

These Angular docs help to learn and use the Angular framework and development platform ,to optimizing single-page apps.

Routing in Angular JS is used when the user wants to navigate to different pages in application but still wants to be a single page application . Angular JS routes enables the user to create different URLs for different content in an application the **ngRoute** module helps in accessing different pages of an application without reloading the entire application.

* $routeProvider is used to configure the routes. It helps to define what pages to display when a user clicks a link. It accepts either when () or otherwise () method.
* The ngRoute must be added as a dependency in the application module
* ***Angular concepts***

*Angular is a platform and framework for building single-page client applications using HTML and TypeScript. Angular is written in TypeScript it implements core and optional functionality as a set of TypeScript libraries that import into the apps.*

*The architechure of an Angular application relies on certain fundamental concepts. The basic blocks are NgModules, which provide a compilation context for components. NgModules collect related code into functional sets; an Angular app is defined as a set of NgModules. An app always has at least a root module that enables bootstrapping, and typically has many more feature modules.*

* *MODULES*

*Angular NgModule differ from and javascript modules. An NgModule declares a compilation context for a set of components that is dedicated to an application domain, a workflow, or a closely related set of capabilities. An NgModule can associate its components with related code, such as services, to form functional units.*

*Every Angular app has a root module, conventionally named as AppModule, which provides the bootsrap mechanism that launches the application. An app typically contains many functional modules.*

* ***COMPONENTS***

*Every Angular application has at least one component, the root component that connects a component hierarchy with the page document object model. Each component defines a class that contains application data and logic, and is associated with an HTML template that defines a view to be displayed in a target environment.*

* ***SERVICES***
* *ROUTING*

*The Angular Router NgModule that defines a navigation path among the different application states and view hierarchies in the app. It is modeled on the browser navigation conventions:*

* *Enter URL in the address bar and the browser navigates to a corresponding page.*
* *Click links on the page and the browser navigates to a new page.*
* *Click the browser back and forward buttons and the browser navigates backwards and forward.*

*The router maps URL-like paths to views instead of pages. When a user performs an action, such as clicking a link, that would load a new page in the browser.*

*If a router determines that the current application state requires particular functionality, and the module that defines it hasn’t been loaded, the router can load module.*

*To define navigation rules, can associate navigation paths with the components. A path uses a URL-like synax that integrates the program.*

***Basic angular app***

*Single page website*

*Index.php*

<!DOCTYPE html>

<html>

<script src="http://ajax.googleapis.com/ajax/libs/angular/1.6.9/angular.min.js"></script>

<script src="http://ajax.googleapis.com/ajax/libs/angular/1.6.9/angular.route.js"></script>

<script src="app/route.js"></script>

<body ng-app="window"><h1>WELCOME</h1>

<a href="#!menu1">MENU1</a>

<a href="#!menu2">MENU2</a>

<div class="ng-view"></div>

</body>

</html>

*Rout.js*

var app = angular.module("window", ["ngRoute"]);

app.config( function($routeProvider) {

  $routeProvider

  . when ("/menu1", {

    templateUrl : "templates/menu1.html",

  })

  .when("/menu2", {

    templateUrl : "templates/menu2.html",

  });

});

* **SYNtaX**
* The ngRoute module helps the application in single page.
* The Application must contain the Angular Js Route module.

<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-route.js"></script>

* Must contain ngRoute in application

var app = angular.module("window", ["ngRoute"]);

* Application can use by the $routeProvider

app.config(function($routeProvider) {

  $routeProvider

  .when ("/menu1",  {

 templateUrl : "templates/menu1.html",

  })

  .when ("/menu2", {

    templateUrl : "templates/menu2.html",

  });

});

* Application must need a container to put the content provider to routing

Using ng-view (is the container)

<div ng-view></div>

Defining the route provider

var app = angular.module("window", ["ngRoute"]);

app.config(function($routeProvider) {

  $routeProvider

  .when("/menu1", {

    templateUrl : "templates/menu1.html",

  })

  .when("/menu2", {

    templateUrl : "templates/menu2.html",

  });

});

Sample apps using angular routing

* <https://github.com/tieppt/angular-routing-example>
* <https://github.com/sprintcube/angular-routing-demo>