Citius Tech



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- Client Side Routing
- Configuring Routes Using \$routeProvider
- \$route, ng-view
- \$routeParams
- Accessing Current Route

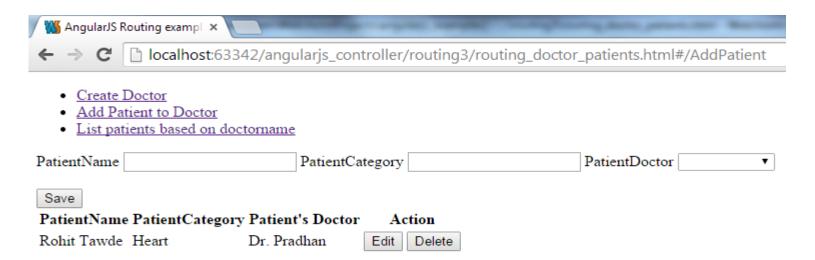


Client Side Routing (1/3)

- Angular Single Page Web Application uses client side routing instead of traditional server side routing
- With client-side routing, initial request loads the Main/Home page layout from server.
- All libraries included in the page also gets loaded once at the start when the main page gets loaded.
- Main page has the client side URLs which route on client side
- Every route is mapped to its associated html template and controller on client side
- Client side routes doesn't need entire page refresh, only the data changes to be loaded from its associated html template (client side) onto the main page



Client Side Routing (2/3)



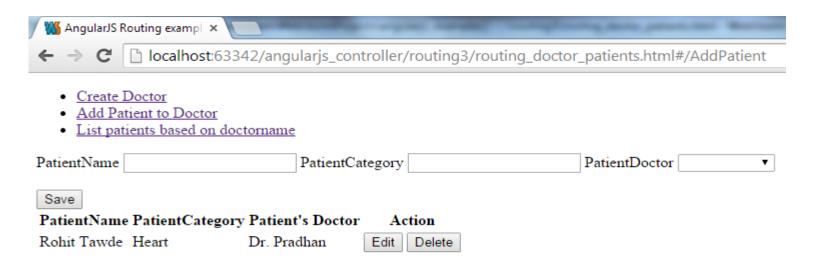
• Angular allows to create client side URLs in view using hashtag # as follows:

```
    <a href="#CreateDoctor"> Create Doctor</a>
    <a href="#AddPatient"> Add Patient to Doctor </a>
    <a href="#ListDoctorPatient"> List patients based on doctorname </a>
```

^{*}Screenshot taken from: Day4\day4_Labs_todo\2_Routing_Controller_Service_app.html



Client Side Routing (3/3)



• We configure/map each route to html template and controller on client side using\$routeProvider service as follows:

```
$routeProvider.when('/AddPatient', {
          templateUrl: 'template/add_patient.html',
          controller: 'AddPatientController' }).
```

<div ng-view></div> - ng-view directive marks place on Main/index page where
html template gets loaded



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Configuring Routes Using \$routeProvider

- Used for configuring client side routes
- Methods
 - when(path, route) Adds new route definition to \$route service
 - otherwise Sets route definition that will be used on route change when no other route definition is matched.

```
//below example configures 'CreateDoctor', 'AddPatient' routes using $routeProvider
var sampleApp = angular.module('sampleApp', ['ngRoute']);
     sampleApp.config(function($routeProvider) {
       $routeProvider.
         when('/CreateDoctor', {
           templateUrl: 'template/create doctor.html',
           controller: 'DoctorController'
         }).
         when('/AddPatient', {
           templateUrl: 'template/add_patient.html',
           controller: 'AddPatientController'
       otherwise({ redirectTo: '/CreateDoctor' });
       });
```

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\$route

- Used for deep-linking URLs to controllers and views
- Watches \$location.url() and tries to map the path to an existing route definition
- Requires ngRoute module to be installed
- This service is used in conjunction with ngView directive and \$routeParams service



ng-view

- A directive in module ngRoute
- Complements the \$route service by including the rendered template of the current route into the main layout (eg. Index.html) file
- Every time the current route changes, the included view changes with it according to the configuration of \$route service
- Requires ngRoute module to be injected

Demo on Routing:

http://ctgit/silviap/angularjsdemosandlabs/blob/master/Day4/day4 Demos/5 Routing Demo ngtemplate.ht ml



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\$routeParams (1/2)

- Retrieves current set of route parameters
- It is a combination of location's search() and path()
- If the parameter name collides, path params take precedence over the search params

```
//example depicting usage of $routeParams
sampleApp.config(['$routeProvider', function($routeProvider) {
    $routeProvider.
     when('/ShowOrder/:orderId', {
        templateUrl: 'template/show order.html',
        controller: 'ShowOrderController' });
    }]);
  //how to access $routeParams in controller
  sampleApp.controller('ShowOrderController', function($scope, $routeParams) {
    $scope.order_id = $routeParams.orderId;
   });
```

\$routeParams (2/2)

```
//example on $routeParams
var courseApp = angular.module('courseApp', ['ngRoute']);
courseApp.config(function ($routeProvider) {
  $routeProvider
    .when('/', {
        controller: 'TOCController'
        templateUrl:'View1.html'
    .when('/Chapter/:chapterId', {
         controller: 'ChapterController',
        templateUrl:'View2.html'
    .otherwise({ redirectTo: '/' });
});
```

```
// Given:
// URL: http://server.com/index.html#/Chapter/1
// Route: /Chapter/:chapterId
// Then
$routeParams ==> {chapterId:'1'}
```



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Accessing Current Route

- \$routeParams are only updated after a route change completes successfully
- \$route.current.params is used to access the new route's parameter
- Routing to different modules:

http://ctgit/silviap/angularjsdemosandlabs/blob/master/Day4/day4 Demos/4 Routing demo cntrl in diff m odules/routing diffmodules.html

Routing using path parameter:

http://ctgit/silviap/angularjsdemosandlabs/blob/master/Day4/day4 Demos/6 Routing demo using path parameter/routing using path parameter.html

• Accessing current route:

http://ctgit/silviap/angularjsdemosandlabs/blob/master/Day4/day4 Demos/7 Routing using custom data/sa mple3 customdata.html

Ul Routing:

http://ctgit/silviap/angularjsdemosandlabs/blob/master/Day4/day4_Demos/8_ui_routing/index.html http://ctgit/silviap/angularjsdemosandlabs/blob/master/Day4/day4_Demos/9_ui_routing1/index.html



Routing - Finding your way (1/2)

Technical Questions:

- 1. How to do nested Routing?
- 2. What is UI-Routing?

As you start to work with AngularJS Routing, you will frequently encounter technical issues which are not covered by this training.

How will you resolve these technical issues on AngularJS Routing?

Routing - Finding your way (2/2)

Resources	Remarks
http://tutorials.jenkov.com/angularjs/routes.html	Good blog post on Angularjs
https://docs.angularjs.org/api/ngRoute/service/\$route	AngularJS official doc site
https://github.com/jedrichards/angularjs- handbook#routing	Good handbook on AngularJS (covers routing)
CurioCT - https://interct/SitePages/CurioCT.aspx	
CTCourses – Routing	In addition to updated course material, CTCourse contains reference sites (Library) and list of project teams with expertise on 'Filter & Routing'



Thank You

