

Three small squares in purple, grey, and green are positioned in the top left corner of the slide.

accelerating
innovation
in healthcare

A cluster of five small squares in white, grey, green, and blue is located in the bottom right corner of the slide.

Routing

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Agenda

- **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)

AngularJS Routing example x

localhost:63342/angularjs_controller/routing3/routing_doctor_patients.html#/AddPatient

- [Create Doctor](#)
- [Add Patient to Doctor](#)
- [List patients based on doctorname](#)

PatientName PatientCategory PatientDoctor

PatientName	PatientCategory	Patient's Doctor	Action
Rohit Tawde	Heart	Dr. Pradhan	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

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

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

*Screenshot taken from: [Day4\day4_Labs_todo\2_Routing_Controller_Service_app.html](#)

Client Side Routing (3/3)

AngularJS Routing example x

localhost:63342/angularjs_controller/routing3/routing_doctor_patients.html#/AddPatient

- [Create Doctor](#)
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PatientName PatientCategory PatientDoctor

PatientName	PatientCategory	Patient's Doctor	Action
Rohit Tawde	Heart	Dr. Pradhan	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

- 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.html

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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**

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_modules/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/sample3_customdata.html
- UI 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