# Angular ngRoute and SPAs

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### Angular and SPA

- Data binding: one-way and two-way
- MVC/MVVM/MVW framework support
- Views -> Templates + Controller + Model
- Location and Routing

#### Role of Client and Server in SPA

- Server
  - Serves up data using REST API
  - Supplies the static HTML pages, Angular templates and resources
- Rendering of view is completely on the client-side
  - Templating and routing

# Deep Linking

- Deep Linking: Hyperlink that specifies a link to a searchable or indexed piece of web content
- Example:

  http://www.conFusion.food/index.html#/menu/0
- Any change to the hash portion does not cause a page reload

### The \$location Service

- Exposes the current URL in the browser address bar:
  - Watch and observe the URL
  - Change the URL
- Synchronizes the URL with the browser when the user:
  - changes the address bar
  - clicks the back/forward buttons
  - Clicks on a link
- Allows you to manipulate the hash portion of a URL
  - url(): get/set the URL
  - path(): get/set the path
  - search(): get/set the search part
  - hash(): get/set the hash part

### Routing

- Mapping the path portion of a URL to a handler for that particular route
  - Route is the hash portion of the URL in the context of SPAs
  - Example:

http://www.conFusion.food/index.html#/menu/0

### Angular ngRoute Module

- Installing the module:
   bower install angular-route –S
- Manages the interaction between the \$location service and the rendered view
- Dependency injection into the module: angular.module('confusionApp', ['ngRoute'])

## The \$routeProvider

- Angular provider
- Enables mapping from the routes to handlers
- Handlers are an object that defines:
  - template URL
  - controller

# \$routeProvider Configuration

```
angular.module('confusionApp', ['ngRoute'])
.config(function($routeProvider) {
    $routeProvider
      .when('/contactus', { // route for the contactus page
        templateUrl: 'contactus.html', controller: 'ContactController'
      })
      .when('/menu', { // route for the menu pag
        templateUrl: 'menu.html', controller: 'MenuController'
      })
      .when('/menu/:id', { // route for the dish details pag
        templateUrl: 'dishdetail.html', controller: 'DishDetailController'
      })
      .otherwise('/contactus');
  });
```

# \$routeParams

**}])**;

### The ngView Directive

 Directive that works together with \$route service to include the rendered template of the current route into the main layout

#### Usage:

```
<ng-view></ng-view></div>
```

# Exercise: Angular ngRoute and SPAs

- Design SPA using Angular support for SPA
- Use the ngRoute module to support SPA