AngularJS - Routing

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Agenda

- Need of Routing
- Layout Views
- #
- Browser History
- HTML5 Routing

Routing

 In a web application you probably have multiple pages or views

- Routing allows you to manage these multiple views
 - Pass parameters
 - Browser history
 - **—** ...

Routing

- Based on the URL (duh)
 - Locate the resource / view / controller
 - "courses/angular"
- Rules
 - When our visitor comes to a url with a specific fragment, you need to act on that
 - "courses/angular/info"
- Happens on the client

Routing and Angular

- Add angular-route.js on your page
 - Registers a new ng-route module
- Tell angular how to respond to a specific url
 - \$routeProvider

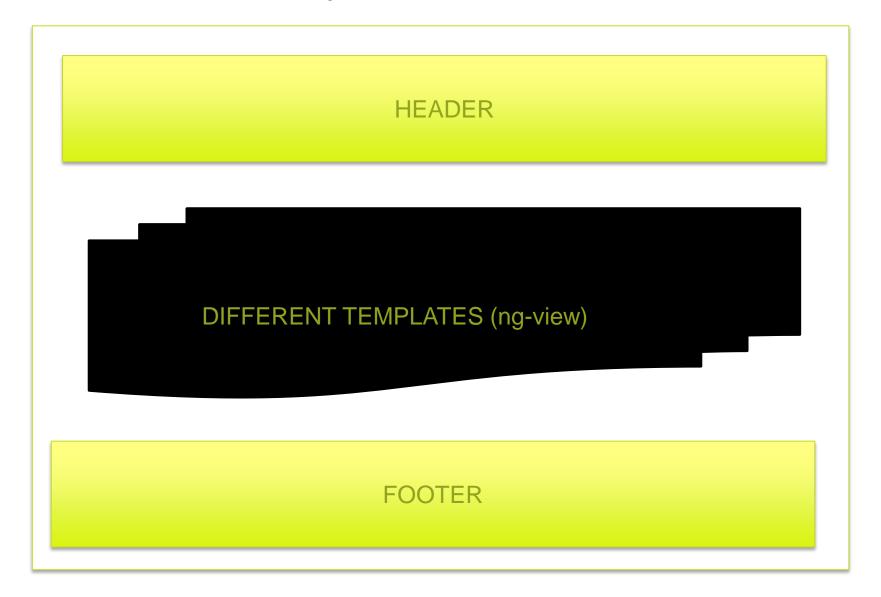
```
$routeProvider.when(
        "/info",
        {
             templateUrl: "courseinfo.html",
             controller: "CourseController"
        }
);
```

Routing and Angular

When our app gets bootstrapped

```
app.config(function ($routeProvider) {
    // if the user comes to this part of the application
    $routeProvider.when("/main", {
        templateUrl: "main.html",
        controller: "MainController"
    })
    .when("/user/:username", {
        templateUrl: "user.html",
        controller: "UserController"
    })
    .otherwise({ redirectTo: '/main' });
});
```

Layout Views



ng-view

 This is the element where all the templates will be displayed

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

- Put the views in a template folder
 - Best practice
 - Not called view, because this is more a final product

Added to he URL to specify that this is extantormation for the page itset

\$routeParams

- When you need to pass a variable or value to a view use the colon
 - /trainers/:trainername

- By doing this, angular knows that this is a piece of info that will be provided via the url
 - Via the \$routeParams service

Default route

```
app.config(function ($routeProvider) {
    // if the user comes to this part of the application
    $routeProvider.when("/main", {
        templateUrl: "main.html",
        controller: "MainController"
    })
    .when("/user/:username", {
        templateUrl: "user.html",
        controller: "UserController"
    })
    .otherwise({ redirectTo: '/main' });
});
```

Your default route

Browser History

AngularJS is also taking care of your history

 Although you are staying on the same page, angular will add the views to the history

\$route Service

You can also add your own properties to the routes

```
$routeProvider.when("/main", {
    customProperty: 'my custom prop',
    templateUrl: "main.html",
    controller: "MainController"
})
```

 Now you can use the \$route service in your controller to work with this property

```
console.log($route.current.customProperty)
```

QueryString

\$route.current.params.yourproperty

HTML5 routing

- Goal is to get rid of the # sign in the url
 - Only for newer browsers

```
app.config(function ($routeProvider, $locationProvider) {
    // if the user comes to this part of the application
    $locationProvider.html5Mode(true);
});
```

Template vs TemplateUrl

Template is a direct output instead of a url

```
$routeProvider.when("/main", {
    template: "Angular Course",
    controller: "MainController"
})
```

- To generate templates on the fly
 - Via a service