Angular

# Overview

* **In app.js**

var musicApp = angular.module('musicApp', ['ngRoute']);

//.config(['$routeProvider', function($routeProvider) {

// $routeProvider.when('/view1', {templateUrl: 'partials/partial1.html', controller: 'MyCtrl1'});

// $routeProvider.when('/view2', {templateUrl: 'partials/partial2.html', controller: 'MyCtrl2'});

// $routeProvider.otherwise({redirectTo: '/view1'});

//}]);

* **In controller**

musicApp.controller('ArtistDetailsController',

function ($scope) {

var artist = {

"id": 1,

"name": "Linkin Park",

"image": "/img/1.jpg",

"created": "01/10/1998",

"additionalInformation": {},

…

}

$scope.artist = artist;

…

* **In view**

<html xmlns="http://www.w3.org/1999/xhtml" ng-app="musicApp">

<div id="wrapper" ng-controller="PageController">

<div class="artist" ng-controller="ArtistDetailsController" ng-cloak>

!refer all controllers, services, filters, etc.

# Filters

{{artist.name | limitTo 3}}

## orderBy:

* **In controller**

$scope.sort = "id"; // default sort

* **In view**

<div class="row">

Sort:

<select ng-model="sort">

<option value="id" selected="selected">Default</option>

<option value="name">Name</option>

<option value="year">Year</option>

<option value="price">Price</option>

<option value="-rating">Rating</option>

</select>  
</div>

<ul class="nav nav-tabs">

<li class="" ng-repeat="album in artist.albums | sort: sort">

<a href="#album-{{album.id}}" data-toggle="tab">**{{** album.name **}}**</a>

</li>

<li><a href="#">See all...</a></li>

</ul>

## filter (search)

* **In view**

<div class="pull-right">

Search:

<input type="text" ng-model="search"/>

</div>

<ul class="nav nav-tabs">

<li class="" ng-repeat="album in artist.albums | filter: search">

<a href="#album-{{album.id}}" data-toggle="tab">**{{** album.name **}}**</a>

</li>

<li><a href="#">See all...</a></li>

</ul>

## Custom filter

* **In status-filter.js**

musicApp.filter('status', function () {

return function (input) {

switch (input) {

case 1: return "Sold out"; break

case 2: return "Released"; break

case 3: return "Unreleased"; break

}

}

});

* **In view**

**{{** album.status | status **}}**

## Other filters

**{{** album.price | number: 2 | currency: "$"**}}**

**{{** album.name | lowercase**}}**

**{{** album.name | uppercase**}}**

ng-repeat="album in artist.albums | limitTo: 3 "

# Styles

## ng-style

* **In view**

<a href="#/{{id}}" ng-style="boldFontCss>**{{** member **}}** </a>

* **In controller**

$scope.boldFontCss = {

fontWeigth: 'bold',

fontStyle: 'italic'

};

## ng-class

* **In view**

<li class="list-group-item" ng-repeat="member in artist.additionalInformation.bandMembers" ng-class-odd="greyBackgroundClass">

<a href="#/{{id}}" ng-class="blueClass"> **{{** member **}}** </a>

</li>

* **In css**

.blue-text {

color: blue;

}

.grey-background {

background: #aaa;

}

.grey-background a {

color: #ff0000;

}

* **In controller**

$scope.blueClass = "blue-text";

$scope.greyBackgroundClass = "grey-background";

# Events

## ng-click

* **In view**

<button class="btn btn-sm pull-right" ng-click="showMoreInfo()">

**{{** showInfoText **}}**

</button>

<div class="panel panel-default" ng-hide="hideInformation">  
…  
</div>

* **In controller**

$scope.hideInformation = true;

$scope.showInfoText = "Show";

$scope.showMoreInfo = showMoreInfo;

function showAlbumInfo() {

if ($scope.hideAlbumInfo === true) {

$scope.showAlbumText = "Hide";

$scope.hideAlbumInfo = false;

} else {

$scope.showAlbumText = "Show";

$scope.hideAlbumInfo = true;

}

}

### ng-hide / ng-show

* **In view**

<div class="panel panel-default" ng-hide="hideInformation"></div>

* **In controller**

$scope.hideInformation = true;

## ng-change

# Other

## ng-repeat

* **In view**

<li class="list-group-item" ng-repeat="member in artist.additionalInformation.bandMembers">

* **In controller**

musicApp.controller('ArtistDetailsController',

function ($scope) {

var artist = {

"id": 1,

"name": "Linkin Park",

"image": "/img/1.jpg",

"created": "01/10/1998",

"additionalInformation": {

"location": "USA",

"bandMembers": ["Chester Benington", "Mike Shinoda", "Felix", "Joseph Han", "Rob Burton"],

"albums": 12,

"singles": 25

}

}

$scope.artist = artist;

}

## Escape HTML ng-sanitize

* **In app.js**

var ticTacToeApp = angular.module('ticTacToeApp', ['ngSanitize']).

* **In controller**

ticTacToeApp.controller('TestController', ['$scope', '$location', 'resourceTest', 'notifier',

function TestController($scope, $location, resourceTest, notifier, game) {

$scope.escape =

'<p style="color:blue">an html\n' +

'<em onmouseover="this.textContent=\'PWN3D!\'">click here</em>\n' +

'snippet</p>';

}]);

* **In view**

<script src="lib/angular/angular-sanitize.min.js></script>

<div ng-bind-html="escape"></div>

## ng-model

* can be applied on input, select or textarea
* <input type="text" ng-model="search" /> {{search}}

## ng-bind

<input type="text" ng-model="search" />

<p ng-bind="search"></p>

# Forms

* **In view**

<form class="form-horizontal" name="newArtistForm">  
…

<input type="text" required="required" class="form-control form-validation" id="name" placeholder="Name" ng-model="artist.name" />  
…  
<button class="btn btn-primary" ng-disabled="newArtistForm.$invalid"   
ng-click="saveArtist(artist, newArtistForm)">Save</button>

ng-pattern = some regex; find regex for images

* **In Controller**

$scope.saveArtist = function (artist, newArtistForm) {

if (newArtistForm.$valid) {

console.log(newArtistForm);

} else {

alert('invalid data'); //notify.js

}

}

* **In css**

input.ng-invalid.ng-dirty.form-validation {

border-color: red;

background-color: pink;

}

input.ng-valid.ng-dirty.form-validation {

border-color: green;

background-color: green;

}

# Services

## $http

### Callbacks

* **In service**

musicApp.factory('artistData',

function ($http, $log) {

return {

getArtist: function (id, successcb) {

$http({

method: 'GET',

url: '../data/artist/' + id

})

.success(function (data, status, headers, config) {

successcb(data);

})

.error(function (data, status, headers, config) {

$log.error(data);

});

}

}

});

* **In controller**

musicApp.controller('ArtistDetailsController',

function ($scope, artistData) {

artistData.getArtist(1, function (data) {

$scope.artist = data;

});

});

### $q

* **In service**

musicApp.factory('artistData',

function ($http, $q) {

return {

getArtist: function (id) {

var deffered = $q.defer();

$http({

method: 'GET',

url: '../data/artist/' + id

})

.success(function (data, status, headers, config) {

deffered.resolve(data);

})

.error(function (data, status, headers, config) {

deffered.reject(data);

});

return deffered.promise;

}

}

});

* **In controller**

musicApp.controller('ArtistDetailsController',

function ($scope, artistData) {

artistData

.getArtist(1)

.then(function (data) {

$scope.artist = data;

});

});

## $resource

* **In service**

musicApp.factory('artistData',

function ($resource) {

var resource = $resource('../data/artist/:id', {id: '@id'})

return {

getArtist: function (id) {

return resource.get({id: id})

},

saveArtist: function (artist) {

if (!artist.id) {

resource.query().$promise.then(function(data) {

artist.id = data.length + 1;

});

}

resource.save(artist);

}

}

});

* **In controller**

musicApp.controller('EditArtistController',

function EditArtistController($scope, artistData) {

$scope.saveArtist = function (artist, newArtistForm) {

if (newArtistForm.$valid) {

artistData.saveArtist(artist);

} else {

alert('invalid data'); //notify.js

}

}

});

## Custom service

* **In service**

musicApp.factory('artistData',

function () {  
…  
return {  
get: get,  
post: post  
}

}

* **In cotroller**

musicApp.controller('ArtistDetailsController',

function ($scope, artistData) {

$scope.artist = artistData.get;

}

# Routes

* **In app.js**

var musicApp = angular.module('musicApp', ['ngRoute', 'ngResource'])

.config(['$routeProvider', function($routeProvider) {

$routeProvider.when('/artist-details/:id/:albums', {

templateUrl: 'templates/artist-details.html',

//controller: 'ArtistDetailsController'

});

$routeProvider.when('/artist-details/:id', {

templateUrl: 'templates/artist-details.html',

//controller: 'ArtistDetailsController'

});

$routeProvider.when('/edit-artist', {

templateUrl: 'templates/edit-artist.html',

controller: 'EditArtistController'

});

$routeProvider.otherwise({redirectTo: '/home'});

}]);

* **In view**

<li><a href="/#/artist-details">Artist Details</a></li>

* **In controller**

musicApp.controller('ArtistDetailsController',

function ($scope, $routeParams, artistData) {

$scope.artist = artistData.getArtist($routeParams.id);

}

});

//artist-details/:id/:albums

musicApp.controller('ListAlbumsController',

function ListAlbumsController($scope, $routeParams, artistData) {

if ($routeParams.albums) {

artistData

.getArtist($routeParams.id)

.$promise

.then(getAlbum);

}

function getAlbum(artist) {

$scope.albums = artist.albums;

}

});

* **Note**
* If using a href with ids/names (in current page) – add target=”\_self”

# Directives

* **In directive**

musicApp.directive('searchArtists',

function searchArtists() {

return {

restrict: 'EA', //use as element and as attribute

templateUrl: 'templates/directives/search-artists.html',

replace: true, //makes the directive valid html

scope: { //adds a new scope for every instance of the directive

search: '='

}

}

});

* **In view**

<div search-artists search="search"></div>