

# Ionic Components

In this lab, we will be using various Ionic CSS components to build our layouts for the Yulp app.

## Initial Data Setup

We will be using the Yelp Search API ([https://www.yelp.com/developers/documentation/v2/search\\_api](https://www.yelp.com/developers/documentation/v2/search_api)) to grab data for your app. However, to do so, we will need to use the \$http service in Angular and setup OAuth. We will be revisiting that at a later time. For now, we will use hardcoded data.

Download the following file and save it as `data.json` in the `js` folder of `www` folder: <https://gist.github.com/imjching/8cb263a8a30f0de36511>

Next, we will create a YelpApi service in `services.js`. Create **services.js** in your `js` folder. Paste the following code:

```
(function() {
  'use strict';

  angular.module('yulpApp')
    .factory('YelpAPI', ['$http', YelpAPI]);
  // .factory('anotherService', [anotherService])

  function YelpAPI($http) {
    function getData() {
      return $http.get('/js/data.json');
    }
    return {
      getData: getData
    };
  }
})();
```

Do not worry too much about the code style. This is using JohnPapa's AngularJs Style Guide (<https://github.com/johnpapa/angular-styleguide>), which is considered one of the best practices by AngularJs developers.

The code above is essentially the same as:

```
var app = angular.module('yulpApp');

app.factory('YelpAPI', ['$http', function($http) {
  var serviceInstance = {};

  serviceInstance.getData = function() {
```

```
    return $http.get('/js/data.json'); // returns an Angular promise which you can use c  
    allbacks with  
  }  
  
  return serviceInstance;  
}]);
```

## Feed Layout

We will now create a controller for your *feed.html*. Create a file named **controllers.js** in your js folder. Paste the following code:

```
(function() {  
  'use strict';  
  
  angular.module('yulpApp')  
    .controller('FeedCtrl', ['YelpAPI', FeedCtrl]);  
  
  function FeedCtrl(YelpAPI) {  
    var vm = this; // view model (vm)  
  
    YelpAPI.getData().then(function(res) {  
      vm.total = res.data.total;  
      vm.businesses = res.data.businesses;  
  
      console.log(vm.businesses);  
    });  
  }  
})();
```

Remember to include both the javascript files in your *index.html*. Place them **below** app.js.

```
...  
<script src="js/app.js"></script>  
<script src="js/controllers.js"></script>  
<script src="js/services.js"></script>  
...
```

And finally, `feed.html` .

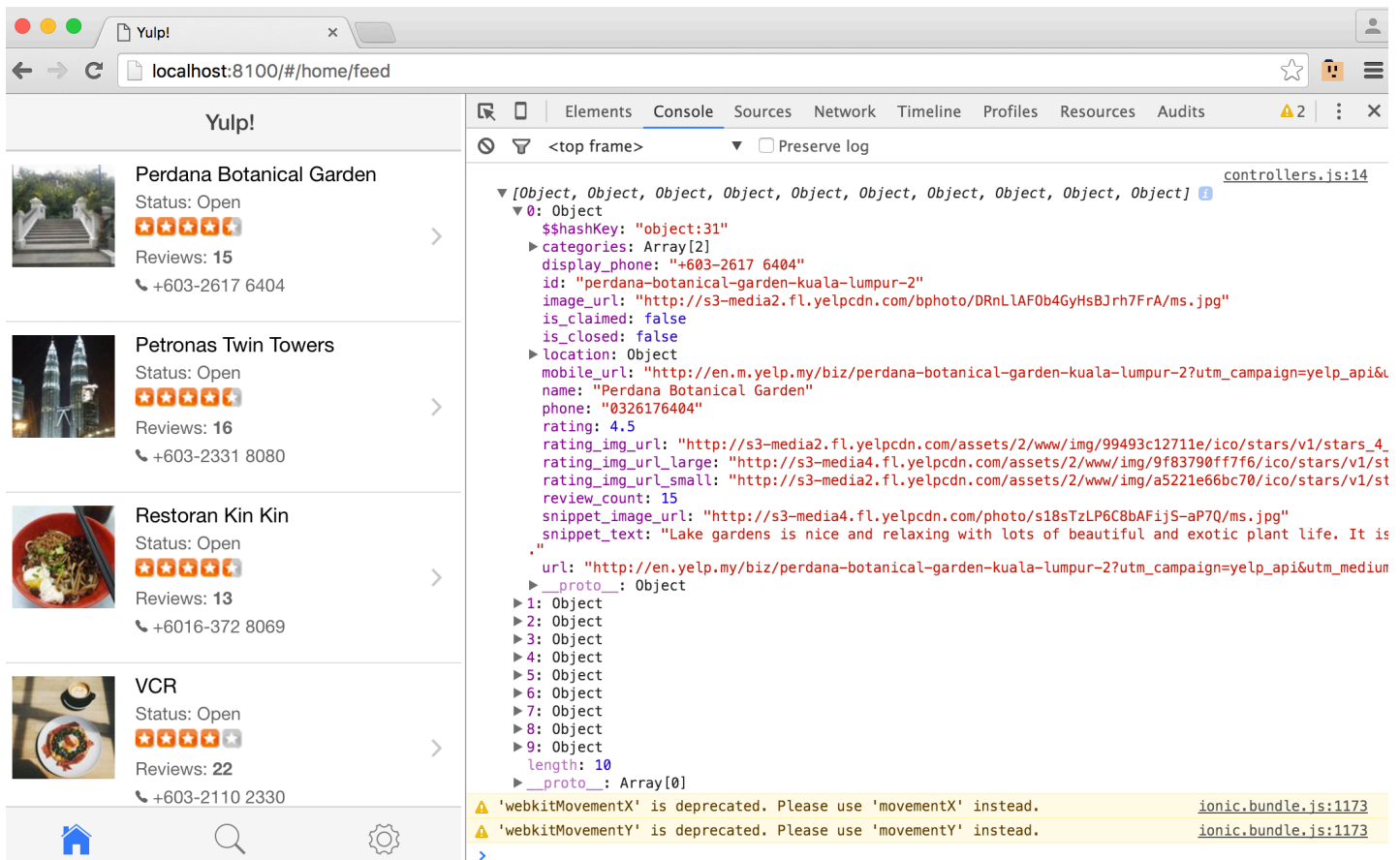
```
<ion-view view-title="Yulp!" ng-controller="FeedCtrl as vm">  
  <ion-content>
```

```

<div class="list">
  <a class="item item-thumbnail-left item-icon-right" ng-repeat="business in vm.businesses">
    
    <h2>{{ business.name }}</h2>
    <p>Status: {{ business.is_closed ? 'Close' : 'Open' }}</p>
    
    <p>Reviews: <b>{{ business.review_count }}</b></p>
    <p><i class="ion-ios-telephone"></i>&nbsp;{{ business.display_phone }}</p>

    <i class="icon ion-chevron-right icon-accessory"></i>
  </a>
</div>
</ion-content>
</ion-view>

```



## Feed Details Layout and Navigation

Now, we will add the feed details layout so that when you click on any businesses, it will redirect you to another page.

In your `feed.html`, modify the `a` tag so that it looks like this:

```

<a class="item item-thumbnail-left item-icon-right" ng-repeat="business in vm.businesses

```

```
" ui-sref="home.feed-details({ businessId: business.id })">
```

Note that the `ui-sref` is added.

To create the `home.feed-details` state, head to `app.js` and modify the code:

```
...
.state('home.feed', {
  url: '/feed', // url will be /home/feed
  views: {
    'tab-feed': {
      templateUrl: 'views/home/feed.html'
    }
  }
}).state('home.feed-details', {
  url: '/feed/:businessId', // url will be /home/feed/1
  views: {
    'tab-feed': {
      templateUrl: 'views/home/feed-details.html'
    }
  }
}).state('home.search', {
  ...
```

Next, create a new file `feed-details.html` in **`www/views/home/`**. Paste the following:

```
<ion-view view-title="Details">
  <ion-content>
    <h1>Todo: Feed Details here...</h1>
  </ion-content>
</ion-view>
```

You should be able to click on the links now.

We will now decorate our feed-details page. Earlier we used the `List` component to list businesses on our home page. Now, we will be using the `Card` component to display the address of the business. Below this card, we will use Google Maps API to insert the location of the business. At the moment, we will put a placeholder first.

In your `controllers.js`, replace it with the following:

```
(function() {
  'use strict';
```

```

angular.module('yulpApp')
  .controller('FeedCtrl', ['YelpAPI', FeedCtrl])
  .controller('FeedDetailsCtrl', ['$stateParams', 'YelpAPI', FeedDetailsCtrl]);

function FeedCtrl(YelpAPI) {
  var vm = this; // view model (vm)

  YelpAPI.getData().then(function(res) {
    vm.total = res.data.total;
    vm.businesses = res.data.businesses;

    console.log(vm.businesses);
  });
}

function FeedDetailsCtrl($stateParams, YelpAPI) {
  var vm = this; // view model (vm)

  vm.businessId = $stateParams.businessId;
  console.log(vm.businessId);

  // load the first data first, temporary
  YelpAPI.getData().then(function(res) {
    vm.businesses = res.data.businesses;

    vm.business = vm.businesses[0]; // temporary
  });
}
})();

```

Now for `feed-details.html` .

```

<ion-view view-title="Details" ng-controller="FeedDetailsCtrl as vm">
  <ion-content>
    <div class="card">
      <div class="item item-text-wrap item-icon-left">
        <i class="icon ion-home"></i>
        <h2 ng-repeat="line in vm.business.location.display_address">
          {{ line }}
        </h2>
      </div>
    </div>

    <div class="card">
      <p class="item"> Google Maps Here </p>
    </div>
  </ion-content>

```

```
</ion-view>
```

## Search Layout

Now, for the search layout (search.html):

```
<ion-view view-title="Search">
  <ion-content>
    <div class="bar bar-header item-input-inset">
      <label class="item-input-wrapper">
        <i class="icon ion-ios-search placeholder-icon"></i>
        <input type="search" placeholder="Input location here">
      </label>
      <button class="button button-outline button-positive">
        Search
      </button>
    </div>

    <div class="list list-inset">

      <a class="item item-thumbnail-left item-icon-right">
        
        <h4>Perdana Botanical Garden</h4>
        
        <h5><i class="ion-ios-telephone"></i> &nbsp;+603-2287 8445</h5>

        <i class="icon ion-chevron-right icon-accessory"></i>
      </a>

      <a class="item item-thumbnail-left item-icon-right">
        
        <h4>Perdana Botanical Garden</h4>
        
        <h5><i class="ion-ios-telephone"></i> &nbsp;+603-2287 8445</h5>

        <i class="icon ion-chevron-right icon-accessory"></i>
      </a>

    </div>

  </ion-content>
</ion-view>
```

We used the `Buttons` component.

You can preview the app now. Two placeholder search results have been added for you. You may modify the design to satisfy your imagination.

## Settings Layout

Here, we use the `List`, `Card`, `Toggle`, and `Select` components to build our `settings.html` layout.

```
<ion-view view-title="Settings">
  <ion-content>
    <ion-list>

      <li class="item item-input item-select">
        <div class="input-label">
          Default Location
        </div>
        <select>
          <option>Selangor</option>
          <option selected>Kuala Lumpur</option>
          <option>Sabah</option>
          <option>Sarawak</option>
        </select>
      </li>

      <li class="item item-toggle">
        Enable Random Feed
        <label class="toggle toggle-assertive">
          <input type="checkbox">
          <div class="track">
            <div class="handle"></div>
          </div>
        </label>
      </li>

    </ion-list>

    <div class="card">
      <div class="item item-text-wrap item-divider">
        <p>Made with Ionic Framework.<br>
        Copyright &copy; 2016 Demo</p>
      </div>
    </div>

  </ion-content>
</ion-view>
```

## Further Reading

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Angular Style Guide by johnpapa: <https://github.com/johnpapa/angular-styleguide>

AngularJS Promises - The Definitive Guide: <http://www.dwmkerr.com/promises-in-angularjs-the-definitive-guide/>