Lab 1 - Review Ionic Application & Customization

This short lab (10min) introduces the Ionic application artifacts and code.

Steps

If you haven't already done so, run the following commands below to start from a known point for the first lab:

1. Start a command line terminal (i.e. `cmd` on Windows or `terminal` on OS X and Linux).
2. Change context to the IBMEmployeeApp directory:

   ```
   cd IBMEmployeeApp
   ```

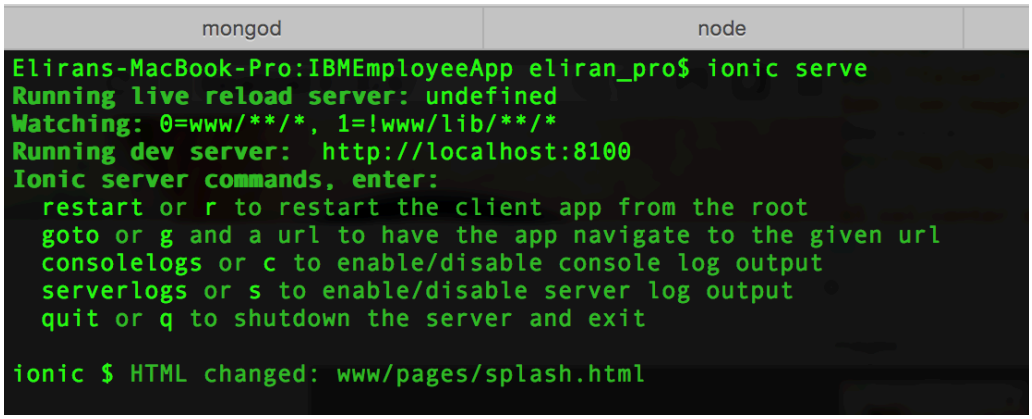
3. In order to start from a known point for the first lab run the following command:

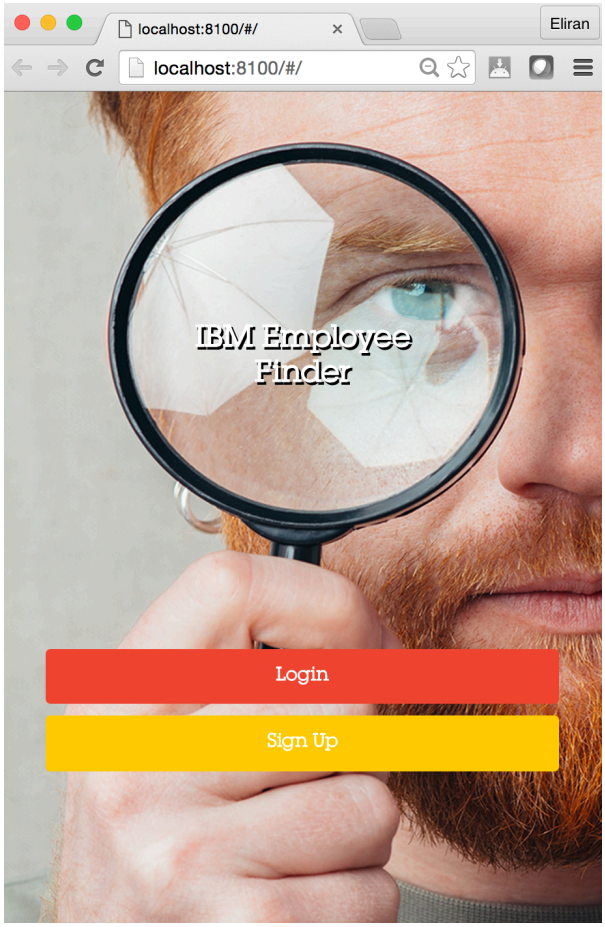
   ```
   git checkout -f step-0
   ```

   > **Note:** this checkout will also add the **/snippets** and **/extras** folders for use in the editing steps later on.

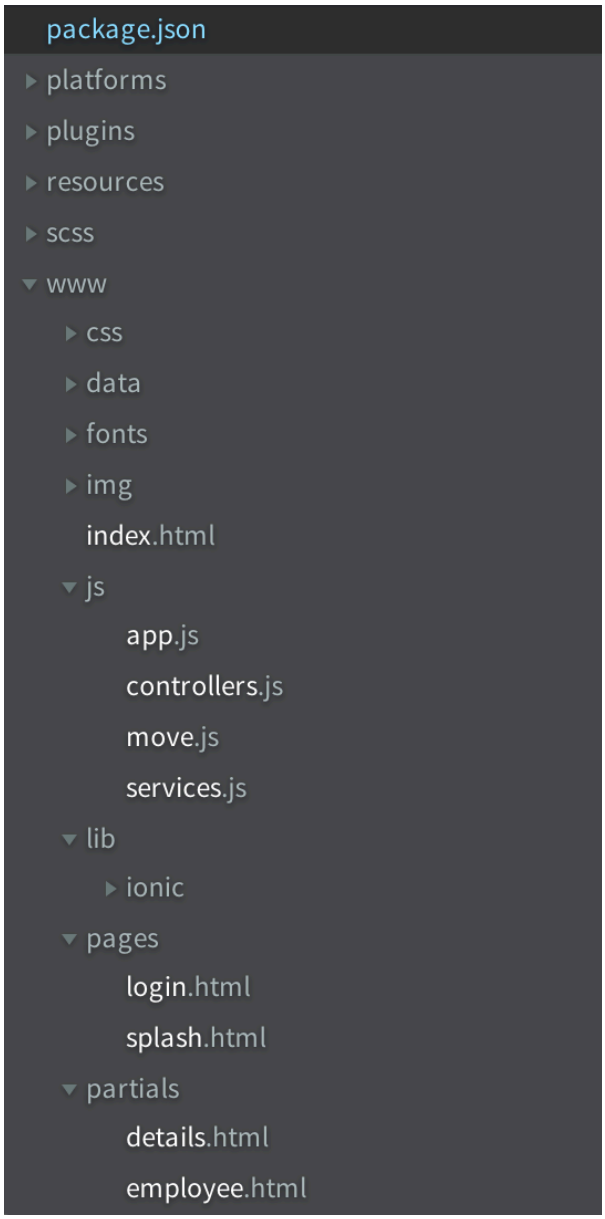
4. Run the application using the Ionic serve command to start the default browser and point to **localhost:8100/#/**. This will also track and reload any application code changes.

   ```
   ionic serve
   ```





5. Review the project structure on the left side



- **package.json** - contains all application dependencies.
- **platfroms directory** - contains the added device platforms that have been added to the project (iOS, Android etc).
- **plugins directory** - contains the different cordova plugins added to the project.
- **resource directory** - contains the application splash screen and the app icon for the different platforms (default to Ionic)
- **scss directory** - contains application color theme definitions.
- **www directory** - contains application assets such as; css files, images, data files, html files, javascript files etc.
- **lib directory** - contains the ionic libs and any additional libs that might add.
- **index.html** - the main html file for the application.
- **app.js** - the main javascript file for the application.

- **controllers.js** - JavaScript file containing the controllers that have been defined for each page (view). See Angular Controllers for more information.
- **services.js** - JavaScript file containing service, or network, calls used by the application. See Angular Services for more information.

6. New review the index.html file

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="initial-scale=1, maximum-scale=1, user-scalable=no, width=device-width">
    <title></title>
    <link href="lib/ionic/css/ionic.css" rel="stylesheet">
    <link href="css/ionicons.css" rel="stylesheet">
    <link href="css/style.css" rel="stylesheet">
    <!-- ionic/angularjs js -->
    <script src="lib/ionic/js/ionic.bundle.js"></script>
    <!-- cordova script (this will be a 404 during development) -->
    <script src="cordova.js"></script>
    <!-- your app's js -->
    <script src="js/app.js"></script>
    <script src="js/controllers.js"></script>
    <script src="js/services.js"></script>
  </head>
  <body ng-app="ibmApp" ng-controller="appCtrl">
      <!--  enable-menu-with-back-views="true" - fix the issue with the side-menu button not showing. -->
      <ion-side-menus enable-menu-with-back-views="true" ng-cloak>
        <!-- right menu -->
        <ion-side-menu side="right">
            <ul class="list menuList">
                <a nav-clear menu-close class="item item-icon-left" ui-sref="splash">
                    <i class="icon ion-key"></i>Home
                </a>
                <a menu-close class="item item-icon-left" ui-sref="main">
                    <i class="icon"></i> Employee List
                </a>
                <a nav-clear menu-close class="item item-icon-left" ui-sref="splash" on-tap="logout()">
                    <i class="icon ion-locked"></i> Logout
                </a>
            </ul>
        </ion-side-menu>
        <ion-side-menu-content>
        <!-- Main content, usually <ion-nav-view>  nav-title-slide-ios7 -->
            <ion-nav-bar class="bar-positive" align-title="center" ng-cloak>
                <ion-nav-back-button class="button-clear" side="primary">
                    <i class="ion-arrow-left-c"></i>Back
                </ion-nav-back-button>
                <ion-nav-buttons side="secondary">
                    <!-- Toggle left side menu -->
                    <button menu-toggle="right" class="button button-icon icon ion-navicon"></button>
                </ion-nav-buttons>
            </ion-nav-bar>
            <ion-nav-view></ion-nav-view>
        </ion-side-menu-content>
      </ion-side-menus>
  </body>
  <!-- animation js -->
  <script src='js/move.js'></script>

```

Notice that there are three different sections:

- The first section adds a reference to the Ionic framework css and javascript files along with reference to custom css style.
- The second section adds a reference to the app.js, controllers.js and services.js files. These files include the application business, flow, and transaction logic.
- The third section is the actual bootstrapping of the application. The bootstrap is performed by including the **ng-app** directive to auto bootstrap the app and **ng-controller** directive which attaches a controller class to the view. This is a key aspect of how angular supports the principles behind the Model-View-Controller design pattern.

> **To learn more**, visit the ng-app and ng-controller sections of the Angular documentation.

Application Customization

The demo asset was built in a way that will allow easy customization to match the most common use cases for demos or POCs. The splash and login screens are easily modified by editing the exising PNG files to match a company logo and color scheme.

The master detail list can represent anything from employees, bank accounts, car insurance policiesor or store locations.

Take a look at the image below:

```
<ion-view class="" title="" hide-nav-bar="true" cache-view="false" hide-back-button="true">
  <ion-content scroll="false">
    <div class="item item-image">
         A <!-- Replace with customer/custom background -->
           <img src="img/login/bg7.png" height="730px" class="bgImg">
    </div>
    <div class="col col-center splashMsg" id="splashMsg">
     B <!-- Replace with customer logo -->
       <!--<img ng-src="img/fpl_logo.png">-->
       <!-- Replace with your application name or slogo -->
       <br><p class="splashSlogo">IBM Employee<br>Finder</p>
    </div>
    <center>
      <div class="list overlay box" id="splash-next-box" style="display:none;">
       C <button class="button button-block button-assertive rFont" on-tap="doShowLogin()">Login</button>
         <button class="button button-block button-energized rFont" ui-sref="auth.signup">Sign Up</button>
      </div>
      <div class="list overlay lBox" id="login-box" style="display:none;">
          <div class="loginOpacity">
              <label class="item item-input rFont">
                <input type="text" placeholder="Enter your username" ng-model="user.username" class="rFont">
              </label>
              <label class="item item-input">
                <input type="password" placeholder="Enter your password" ng-model="user.password" class="rFont">
              </label>
          </div>
          <button class="button icon-left ion-locked button-block button-energized rFont rFont-login" type="submit" on-
          tap="doLogin()">Login</button>
          <button class="button button-clear button-light rFont rFront-forgot">Forgot Password?</button>
      </div>
    </center>
  </ion-content>
</ion-view>
```

- To change the **splash/login background** refer to section A
- To change/add **splash/login customer logo** or change the slogo/application name refer to section B
- To change the **buttons color scheme** refer to section C, you can find all the default Ionic color schemes at the following link: http://ionicframework.com/docs/components/#buttons

1. Open the **splash.html** page under /pages/splash.html and customize your splash to the color scheme and the logo/application name of the last customer you have met.

2. If you look again in your browser you will see the ionic automatically apply and load your changes

Summary

This lab introduced the Ionic application source code and demonstrated how to easily customize the look and feel to match future POC or custom demo needs.

If you were unable to complete this lab, you can catch up by running this command:

```
git checkout -f step-1
```