Angular 2 Sample Plug-in

This sample demonstrates how to integrate an app that was built by using Angular 2 in TypeScript into IBM Content Navigator. The integration is implemented as an IBM Content Navigator plug-in, which loads an Angular app component inside an IBM Content Navigator custom feature. The Angular app contains two pages, which are accessible by clicking on two links at the top of the Angular sample page. The first page loads two tables, which demonstrate how to leverage IBM Content Navigator JavaScript model APIs, Desktop and Repository, to display IBM Content Navigator objects in an Angular component. The second page calls a custom plug-in service, which is included in this sample plug-in, to display the top daily stories from the New York Times.

To load an Angular 2 app, first load the Angular JavaScript dependencies by connecting to the IBM Content Navigator Desktop load event and running a function to manually load the JavaScript files required to load an Angular component. The sample demonstrates how to load these JavaScript files from the plug-in resource path. The files are loaded as part of the desktop loading procedure, so they are available before the custom feature is loaded by IBM Content Navigator at runtime.

The sample also includes an index.html file, which can be used to run the Angular source outside of IBM Content Navigator. In the WebContent plug-in directory, there are two System JS configuration JavaScript files.

- icn.systemjs.config.js is used to load the Angular source inside IBM Content Navigator. Running the Angular app within IBM Content Navigator requires resources to be loaded by the plug-in resource path.

- systemjs.config.js is used when the app is run outside IBM Content Navigator. Running the Angular app stand-alone uses simple relative paths to load resources.

  To run the application stand-alone, modify the path to the app.component.html file in the app.component.ts file. The app.component.ts file is configured to load the template that is required by the app component from the plug-in resource path "/navigator/plugin/AngularSamplePlugin/getResource/app/app.component.html". To run the app stand-alone, change the path to "./app/app.component.html".

Before you can run the Angular app within or outside IBM Content Navigator, you must download the dependent modules, copy the following JAR files to the lib folder (navigatorAPI.jar and j2ee.jar), and compile the TypeScript. Look at the steps "Prerequisite" and "Step 5" in the Angular QuickStart guide at https://angular.io/docs/ts/latest/quickstart.html. After you install Node.js, run "npm install" from the WebContent plug-in directory to install the dependent modules. Then use "npm start" to compile and launch the Angular app as described in the Angular QuickStart guide. After you perform these steps, you're ready to load the plug-in and test it within IBM Content Navigator.

To load the plug-in, first obtain an API key for the New York Times top stories API by going to the website https://developer.nytimes.com and clicking "Get NYT API Key". Fill in your name and email address, then select "Top Stores V2" from the "API" drop down. Click "Create API Key" to receive an email with your API key. Add this key to the input in the Angular 2 Sample Plug-in configuration screen, then save the plug-in. Finally, either create a new desktop or use an existing desktop to expose the Angular Sample Feature added by this plug-in!