Angular2 Quote Flow

11/15/2017

1. Make sure node.js version 6.9.x and npm version 3.x.x is installed with
   1. Node -v
   2. Npm -v
2. Install angular cli command line interface. Go to c:\angular2 and run
   1. Npm install -g @angular/cli
3. Create test project
   1. Ng new my-app
4. Using angular CLI.
   1. Opened command window, cd c:\angular2
   2. Npm Install -g @angular/cli
   3. Ng new KemperQuoteFlow – create new project.
   4. Cd KemperQuoteFlow.
   5. npm install ngx-bootstrap bootstrap –save
   6. put bootstrap cdns in index.html (probably don’t need the above install)
   7. create header component – get template from <https://bootswatch.com/spacelab/> and modify with kemper logo, our navigations.
   8. Also do footer component – put footer styles in footer.compnent.css
   9. Create components for each page in the CLI.
      1. Ng generate component Applicant
      2. Ng generate component PolicyInfo
      3. Ng generate component Drivers
      4. Ng generate component Vehicles
      5. Ng generate component Coverages
      6. Ng generate component Summary
   10. Create app.router.ts in app folder
   11. Applicant component
       1. Create Address.ts, Applicant.ts, states.ts components for data model
       2. Applicant.component.ts – implements OnChanges, OnInit
          1. ngOnChanges –reset form flags of form controls.
          2. ngOnInit –set form values from data model .
       3. createForm – call from constructor, use FormBuilder to create FromGroup with FormControls with validation and more FormGroups. Used on Reactive Form applicant.component.html
       4. get methods needed to reference applicantForm controls on html.
       5. @Input applicant – used bu reset method. (not sure what reset does, works without it!)
       6. Testing http calling api –
          1. Successfully called <http://date.jsontest.com> – get method
          2. Successfully called <http://convert.jsontest.com> – post method
          3. Successfully called http://10.200.131.193/GuidewireFakeAPI/api/GuidewireRetrieve post method
             1. Had to go to iis guidwirefakeapi, click httpResponse,

add Access-Control-Allow-Headers", "Content-Type, Accept"

add Access-Control-Allow-Origin", "\*".

* 1. install angular material, animations at \KemperQuoteAng2\KemperQuoteAngular2
     1. npm install --save @angular/material @angular/cdk
     2. npm install --save @angular/animations
     3. fix ‘metadata version mismatch’ problem by installing newer version!
        1. npm install @angular/material@latest –save
        2. npm install @angular/cdk@latest --save
        3. Package.json – update dependencides, devDependencies for angular from ^4.2.4 to ^5.0.0
        4. npm install @angular/cdk@latest –save
     4. finally fix matDatepicker not an attribute of <input> error (after changeing package.json dependencies versions, npm installs again and again, adding import, imports, exports)
        1. app.Module.ts – imports – add MatDatepickerModule, MatNativeDateModule
     5. add hammerjs dependency.

1. Visual Studio 2017
   1. From component services, clicked more.. Extensions and Updates, downloaded Microsoft WCF WebService Reference Provider. Close VS.
   2. Create web core project – Angular. KemperQuoteFlowA
      1. App.module.shared.ts
         1. import my components from VS Code project: applicant, vehicles, etc.
         2. import ReactiveFormsModule
         3. declarations
         4. replace RouterModule.forRoot with code from app.router.ts in VS code project.
      2. Copy component folders applicant, vehicle, etc from angular2 VS code project to \components folder.
      3. Copy other components: header.component.ts, .css, footer.component.ts, session.service.ts, etc. from angular2 VS code project to \components folder.
      4. App.component.html – replace vs code version
      5. Copy assets folder from vs code project to project folder.
2. Visual Studio 2015 (uninstalled VS2017 webservice problem)
   1. KdQuoteLibrary –
      1. created class library project, added web services, copied and included folders and code from KdQuoteFlow, add references dlls, add system.web ref.
      2. RenterServices.cs
         1. Updated class ref Scenarios to ScenariosSoapClient.
         2. Updated class ref AccountMaster to AccountMasterSoapClient.
   2. SinglePage Application (mvc, web api checked)
      1. Copied items from angular2 VS Code not including node\_modules, e2e, bu, .git, including src folder, individual json, js items.
      2. Include items, src folder in project.
      3. Package.json – restore packages, runs npm install
         1. Taking forever, 20 + minutes, I opend package manager window and typed npm install, worked eventually.
      4. Ng server-open works
      5. Do ng build to create /dist folder
      6. Create home controller, create index view.
      7. Update index.cshtml to act like index.html
         1. <app-root>Loading...</app-root>
         2. Refer to /dist build
            1. <script type="text/javascript" src="~/dist/inline.bundle.js"></script>
         3. TODO – add ng build, any necessary copies to pre-build command line in project properties. For example:

echo "cd $(SolutionDir)candor-sample-ng-cli" &&^

cd "$(SolutionDir)candor-sample-ng-cli" &&^

echo "building candor-sample-ng-cli" &&^

ng build &&^

echo 'copy files' &&^

xcopy /I /E /Y "$(SolutionDir)candor-sample-ng-cli\dist" "$(ProjectDir)Scripts\NgApp"

* + - * 1. Or add to package.json:

"copy": "xcopy \"dist\" \"..\\Candor.Sample.MvcWeb\\Scripts\\NgApp\" /i /s /r /y /c",

  "dist": "npm run build && npm run copy"

* + - * 1. See <http://candordeveloper.com/2017/04/12/how-to-use-angular-cli-with-visual-studio-2017/>
    1. ~~npm install @types/node --save-dev – to use require for xml2js~~
    2. ~~"compilerOptions": {~~

~~"types": ["node"]~~

~~}~~

* + 1. To fix problem with routing mvc and routing angular (refresh button returns a 404 because anlular/applicant is not found in mvc route – code the following in app.module.ts to use hash tag method routing:
       1. import { HashLocationStrategy, LocationStrategy } from '@angular/common';
       2. providers: [{ provide: LocationStrategy, useClass: HashLocationStrategy }]
    2. to make this work in IE11 – uncomment browser pollyfills in polyfills.ts. (a bundch of imports preceded by comment,

“/\*\* IE9, IE10 and IE11 requires all of the following polyfills. \*\*/”

* + 1. vehicles page use angular material dialog for handling crud style ( add, edit delete vehicle) vehcilesList.component, ManageVehicle.component (replacing vehicle.component.ts
       1. <https://www.codeproject.com/Articles/1191341/Angular-to-Angular-with-Angular-Material-Compo>
    2. While Visual Studio Update 3 ships with TypeScript support out of the box, it currently doesn’t ship with TypeScript 2.2, which you need to develop Angular applications.Download and install [TypeScript 2.2 for Visual Studio 2015](https://www.microsoft.com/en-us/download/details.aspx?id=48593)
    3. npm install xml2js