IHK Abschluss-Projekt 2017

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Für den Beruf des Fachinformatiker der Anwendungsentwicklung

Agentur Website

Ein Full-Stack Web-Developer Projekt

SOURCE CODE

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1 Services

1.1 DrupalService

```
firstline
import {Injectable ,PLATFORM_ID, Inject} from '@angular/core';
import {HttpClient} from '@angular/common/http';
import {Observable} from 'rxjs/Observable';
import {isPlatformServer, Location} from '@angular/common';
//import * as request from 'request';
//import {isPlatformServer} from '@angular/common';
@Injectable()
export class DrupalService {
    public baseApi:string;
    constructor (@Inject (PLATFORM_ID) private _platformId: object, private httpClient: HttpClie
        //TODO create way to store Endpoint more dynamic
        if (isPlatformServer(_platformId)){
            this.baseApi = "https://zmb.agency/drupal/index.php"
        }else{
            console.log(location);
            this.baseApi = "//zmb.agency/drupal/index.php"
        }
    }
    getPage(page:string):Observable<any>{
        console.log(this.baseApi + '/export/pages/' + page);
        return this.httpClient.get(this.baseApi + '/export/pages/' + page);
    }
    getPages():Observable<any>{
        return this.httpClient.get(this.baseApi + '/export/pages/all');
    }
    getParagraph(section:string):Observable<any>{
        return this.httpClient.get(this.baseApi + '/export/paragraphs/' + section);
    }
    getParagraphs():Observable<any>{
        return this.httpClient.get(this.baseApi + '/export/paragraphs/all');
    }
    getHeadBar(): Observable <any>{
```



```
return this.httpClient.get(this.baseApi + '/export/headbar');
    }
    getForm(string:string):Observable<any>{
        return this.httpClient.get(this.baseApi + '/webform_rest/elements/'+ string +'?_form
    }
    /**
     * [Because of the limitations of URL Parsing we use ":" as "/" for the cms set url]
     * @param {string} string [description]
     * @return {[type]}
                               [description]
     */
    transformUrl2Api(string:string){
        //Remove first slash when applicable
        if(string[0] = "/"){
            string = string.slice(1, string.length);
        }
        return string.replace("/",":");
    }
}
```

2 Components

2.1 HeroSectionComponent



```
@Input() section:any;
                  headline: any;
                  subline: any;
                  body: any;
                  field_backgroundimage:string = "none";
/*
                  @HostBinding('style.background')
                  field\_backgroundimage: string = "url('http://52.29.161.188/sites/default/files/2017-10/Acception for the file of the file of
 */
                  public css:any;
                  constructor(){}
                  ngOnInit()
                                     this.field\_backgroundimage = ``url(' + this.getHeroImageURL() + ')';
                  }
                  /**
                      * retrieves Hero Image URl from the Section Metadata else ""
                      * @return {string} [Hero IMAGE URL]
                      */
                  public getHeroImageURL():string
                  {
                                     if (this.section.field_backgroundimage[0]) {
                                                      return this.section.field_backgroundimage[0].url;
                                    }
                                   return "";
                  }
}
```

2.2 PageComponent

```
import {Component, ComponentFactoryResolver, ViewContainerRef, ComponentRef, ViewEncapsulation
import {DrupalService} from '../../services/DrupalService';
import { Router, NavigationEnd } from '@angular/router';
import { Meta, Title } from '@angular/platform-browser';
import {Observable} from 'rxjs/Observable';
import 'rxjs/add/operator/toPromise';
import {HeroSectionComponent} from "../sections/hero/HeroSectionComponent";
import {FormSectionComponent} from "../sections/form/FormSectionComponent";
```



```
import {RichTextSectionComponent} from "../sections/imprint/ImprintSectionComponent";
const paragraphDictionary = {
             "heroimage_paragraph" : HeroSectionComponent,
             "form_paragraph" : FormSectionComponent,
             "richtext_paragraph" : RichTextSectionComponent,
             "err-section": "PlaceholderComponent"
};
@Component({\{}
             selector: 'page',
             styleUrls:['./PageComponentStyle.css'],
             template: '',
             encapsulation: ViewEncapsulation.None
})
export class PageComponent {
             public page:Observable<any>;
             public sections:any[];
             private component: ComponentRef<any>;
             constructor (private \ drupal Service: Drupal Service:, \ private \ factory Resolver: Component Factor Resolver: Component Factor Resolver: Component Factor Resolver: C
             {
             }
             ngOnInit(){
                         this.router.events.subscribe((data)=>{
                                      if ( data instance of Navigation End) {
                                                  this.updatePage();
                                     }
                         });
                         this.updatePage();
             }
             updatePage() {
                         if (this.router.url == "/"){
                                      this.page = this.drupalService.getPage("startseite");
                         } else {
                                      console.log(this.router.url);
                                      this.page = this.drupal Service.get Page (this.drupal Service.transform Url 2 Api (this.drupal Service). \\
                         }
```



```
this.page.subscribe((data:any) =>{
        console.log(data);
        if (data[0].field_paragraph){
            this.setSections(data[0].field_paragraph);
        }
        this.sections = this.sections.map(section => section.toPromise());
        if (data [0]. field_description [0]) {
            this.meta.updateTag({charset:"utf8",content:data[0].field_description[0].val-
        }
        if (data [0]. field_seo_titel [0]) {
        this.title.setTitle(data[0].field_seo_titel[0].value as string);
        this.title.setTitle(data[0].title[0].value as string);
        }
        Promise.all(this.sections).then(this.onSectionsRdy.bind(this));
    });
}
/**
 * [Callback Function executed when all Section promises resolved]
 * @param {any}
                    sections [Section]
 */
onSectionsRdy(sections:any){
    //Its Possible that old view container where loaded so we clear em here
    this.viewContainer.clear();
    sections.forEach((section:any) => {
        try {
            let type = this.getSectionType(section[0]);
            const factory = this.factoryResolver.resolveComponentFactory(paragraphDictio
            this.component = this.viewContainer.createComponent(factory);\\
            this.component.instance.section = section [0];
        }catch(error){
            console.error("Could not add Section component for " + section + "\n Error:
        }
    });
}
```



```
public setSections(sections:any[]){
    this.sections = sections.map((section) => {return this.drupalService.getParagraph(se)}

/**
    * Takes a section and returns it type
    * @param {any} section
    * @return {string} [section Type]
    */
    private getSectionType(section:any):string{

        if(section.type && section.type[0]){
            return section.type[0].target_id;
        }
}
```

3 Server

}

3.1 Node Main

```
import 'zone.js/dist/zone-node';
import 'rxjs';
import 'reflect-metadata';
import * as express from 'express';
import { ngExpressEngine } from '@nguniversal/express-engine';
import routes from './app/routing/routes';
//IMPORTANT import your app root module from a precompiled angular app aka factory
import {AppServerModuleNgFactory} from './app/app.server.ngfactory';
//setup express server
const server = express();
// Set the express-engine to bootstrap our root module to the application as html
server.engine('html', ngExpressEngine({
  bootstrap: AppServerModuleNgFactory // Give it a module to bootstrap(u should use ROOT Mod
}));
//function to render request to index
function ngApp(req:any, res:any) {
  res.render('./index', {req, res});
```



```
//set the view engine to the server engine
server.set('view engine', 'html');
//set the views directory to out
server.set('views', 'out');
//set the server to handle all request
server.get('**/*', ngApp);
//set server to use the out folder as static for handling static files
server.use(express.static('out'));
//set server port to x default 8000
server.listen('1337');
3.2 NGINX
server {
 listen *:80;
  server_name zmb.agency www.zmb.agency;
  return 301 https://zmb.agency;
}
server {
  listen *:442 ssl http2;
  ssl_certificate_key /etc/letsencrypt/live/zmb.agency/privkey.pem;
  ssl_certificate /etc/letsencrypt/live/zmb.agency/fullchain.pem;
  server_name www.zmb.agency;
  return 301 https://zmb.agency;
}
server {
   listen *:443 ssl http2;
   ssl_certificate_key /etc/letsencrypt/live/zmb.agency/privkey.pem;
   ssl\_certificate \ /etc/letsencrypt/live/zmb.agency/fullchain.pem;
   server_name zmb.agency;
   root /data/www;
   index index.html index.php;
   error_log /var/log/nginx/debug.log debug;
    location = /favicon.ico {
        log_not_found off;
        access_log off;
    }
    location = /robots.txt {
        allow all;
```



```
log_not_found off;
    access_log off;
}
# Very rarely should these ever be accessed outside of your lan
location \sim * \setminus (txt | log)  {
    allow 192.168.0.0/16;
    deny all;
}
location \sim \..*/.*\.php\$ {
    return 403;
}
location ~ ^/sites/.*/private/ {
    return 403;
}
# Allow "Well-Known URIs" as per RFC 5785
location ~* ^/.well-known/ {
    allow all;
}
# Block access to "hidden" files and directories whose names begin with a
# period. This includes directories used by version control systems such
# as Subversion or Git to store control files.
location \sim (^|/) \setminus . {
    return 403;
}
location /drupal/ {
    # try_files $uri @rewrite; # For Drupal <= 6</pre>
    index index.php;
    root /data/www/drupal;
             try_files $uri /index.php?$query_string; # For Drupal >= 7
    expires 2d;
}
location @rewrite {
    rewrite ^{(.*)} /index.php?q=$1;
}
# Don't allow direct access to PHP files in the vendor directory.
location ~ /vendor /.*\.php$ {
    deny all;
    return 404;
}
```



```
location \sim \. php(/|\$) {
    include snippets/fastcgi-php.conf;
    fastcgi\_split\_path\_info ^(.+?\.php)(|/.*);
   # With php7.0-cgi alone:
   # fastcgi_pass 127.0.0.1:9000;
   # With php7.0-fpm:
   fastcgi_pass unix:/run/php/php7.0-fpm.sock;
   #fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
}
# Fighting with Styles? This little gem is amazing.
location ~ ^/sites/.*/files/styles/ { # For Drupal >= 7
    try_files $uri @rewrite;
}
# Handle private files through Drupal. Private file's path can come
# with a language prefix.
location ~ ^(/[a-z\-]+)?/system/files/ { # For Drupal >= 7
    try_files $uri /index.php?$query_string;
}
location \sim * /drupal/(.+\.(js|css|png|jpg|jpeg|gif|ico|svg)$) {
   try_files $uri @rewrite;
   expires 7d;
   log_not_found off;
}
location /out/
{
   expires 7d;
   alias /home/ubuntu/stack/angular/out/;
}
location /dev/out/
   expires 7d;
   alias /home/ubuntu/stack/dev/out/;
}
location /dev {
    proxy_pass http://localhost:1336/;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection 'upgrade';
    proxy_set_header Host $host;
```



```
proxy_cache_bypass $http_upgrade;
}

location / {
    proxy_pass http://localhost:1337/;
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection 'upgrade';
    proxy_set_header Host $host;
    proxy_cache_bypass $http_upgrade;
}
```

4 Other

4.1 Gulp

```
firstline
/*copy src into cache*/
var gulp
           = require('gulp');
           = require('gulp-typescript');
var ts
           = require('gulp-ngc');
var ngc
var webpack = require('webpack');
var merge2 = require('merge2');
           = require('gulp-sass');
var sass
         = require('gulp-tar');
var tar
          = require('gulp-gzip');
var gzip
var tsProject = ts.createProject('tsconfig.json', {"include": ["build/**/*.ts"]});
gulp.task('setup', function() {
  return merge2 (
    gulp.src('./src/**/*',{base:'src'}),
    gulp.src('./src/out/**/*',{base:'src'}).pipe(gulp.dest("./dist")),
    gulp.src('./package.json').pipe(gulp.dest("./dist")),
    gulp.src('./package-lock.json').pipe(gulp.dest("./dist"))
  .pipe(gulp.dest('./build'));
});
gulp.task('copyFonts', function() {
  return gulp.src('./fonts/**/*',{cwd:'./node_modules/roboto-fontface/'}).pipe(gulp.dest("./
});
gulp.task('compile:sass', function() {
```



```
return gulp.src('./src/**/*.scss',{base:'src'})
    . pipe(sass())
    .pipe(gulp.dest('./build'));
})
gulp.task('compile:angular',['setup','compile:sass'], function() {
    return ngc("tsconfig-aot.json");
});
gulp.task (\ 'compile:typescript\ ',\ [\ 'compile:angular\ ']\ ,\ function ()\ \{
    var tsResult = tsProject.src()
    .pipe(tsProject());
    return tsResult.js.pipe(gulp.dest('dist'));
});
gulp.task('compile:webpack', ['compile:angular'], function(callback) {
    webpack( require('./webpack.config.js'), (err, stats) => {
      if (err || stats.hasErrors()) {
        console.log(err);
        const info = stats.toJson();
        if (stats.hasErrors()) {
          info.errors.forEach(error => console.error(error));
        }
        if (stats.hasWarnings()) {
          info.warnings.forEach(warning => console.warn(warning));
        }
      }
      callback();
    });
});
gulp.task('compress',['compile', 'setup', 'copyFonts'], function(){
    return gulp.src('./dist/**/*')
        .pipe(tar('dist.tar'))
        . pipe (gzip ())
        .pipe(gulp.dest('./'))
})
gulp.task('compile',['compile:angular','compile:webpack',"compile:typescript"]);
```



```
gulp.task('build', ['setup', 'compile', 'copyFonts', 'compress']);
4.2
     package.json
{
  "name": "zmbssr",
  "version": "1.0.0",
  "description": "zmb SSR Basic Test",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "Jeremy Seipelt",
  "license": "ISC",
  "dependencies": {
    "@angular/animations": "^4.4.6",
    "@angular/common": "^4.4.6",
    "@angular/core": "^4.4.6",
    "@angular/forms": "^4.4.6",
    "@angular/http": "^4.4.6",
    "@angular/platform-browser": "^4.4.6",
    "@angular/platform-browser-dynamic": "^4.4.6",
    "@angular/platform-server": "^4.4.6",
    "@angular/router": "^4.4.6",
    "@nguniversal/express-engine": "^1.0.0-beta.3",
    "@types/express": "^4.0.37",
    "@uirouter/angular": "^1.0.0 - beta.7",
    "express": "^4.15.4",
    "preboot": "^5.1.7",
    "reflect -metadata": "^0.1.10",
    "request": "^2.81.0",
    "roboto-fontface": "^0.8.0",
    "rxjs": "^5.0.1",
    "zone.js": "^0.8.4"
  },
  "devDependencies": {
    "@angular/compiler": "^4.4.6",
    "@angular/compiler-cli": "^4.4.6",
    "@types/request": "^2.0.3",
    "gulp": "^3.9.1",
    "gulp-gzip": "^1.4.0",
    "gulp-ngc": "^00.3.2",
    "gulp-sass": "^3.1.0",
    "gulp-tar": "^2.0.0",
    "gulp-typescript": "^3.2.2",
    "gulp-webpack": "^1.5.0",
```



```
"merge2": "^1.1.0",
    "ts-loader": "^2.3.4",
    "typescript": "^2.4.2",
    "webpack": "^3.5.5"
  }
}
4.3
      Compiler
{
  "compilerOptions": \{
    "baseUrl": "src/app",
    " module " : " \mathrm{ES2015} " ,
    "target": "ES5",
    "moduleResolution": "node",
    "removeComments": true,
    "emitDecoratorMetadata": true,
    "experimentalDecorators": true,
    "allowSyntheticDefaultImports": true,
    "sourceMap": true,
    "noEmit": true,
    "\,noEmitHelpers\,"\colon \ true\ ,
    "strictNullChecks": false,
    "outDir": "dist",
    "lib": [
      "es2015",
      dom'
    ],
    "typeRoots": [
      "node_modules/@types"
    ],
    "noImplicitAny": true,
    "suppressImplicitAnyIndexErrors": true
  },
  "exclude": [
    "node_modules",
    " \operatorname{dist} " ,
    " out "
  ],
  "files": [
    "build/app/app.server.ts",
    "build/app/app.ts"
  ],
  "angularCompilerOptions": {
    "genDir":"./",
    "trace":true,
    "\,skipMetadataEmit\,"\colon \ true\ ,
```



```
"strictMetadataEmit": true
},
"compileOnSave": false,
"buildOnSave": false
}
```