

FrontEnd Introduction

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Project Tools : NodeJS、Bower、Ruby、Grunt

JavaScript Editors

- -Sublime Text 3

Project tools

- -Package Management: NPM & Bower
- Scaffolding: Yeoman
- Task Automation: Grunt

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Tools Version

- NodeJs v4.4.0
- Bower 1.7.9
- Ruby 2.2.3
- Grunt 0.4.5

For Windows Setting Path

- Nodejs

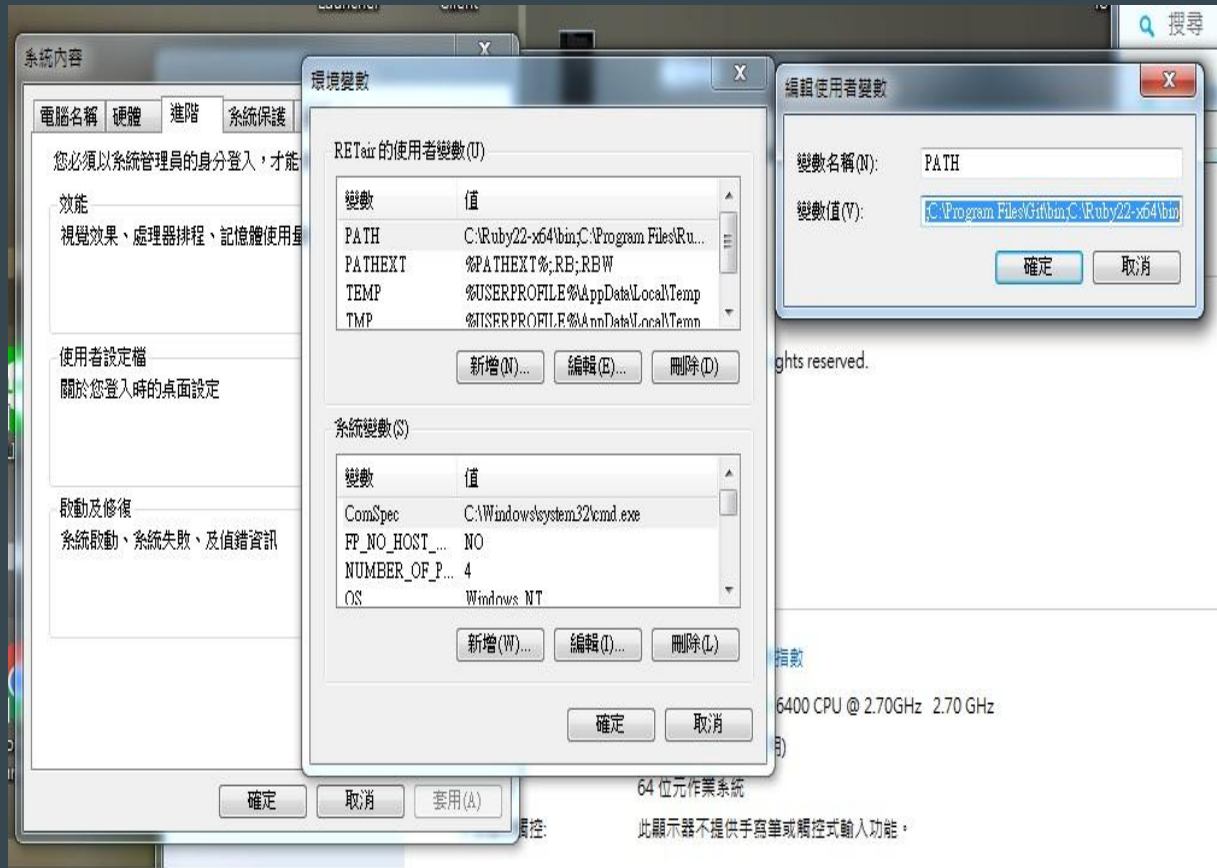
C:
\ProgramFiles\nodejs\node_modules\n
pm\bin

- Ruby

C:\Ruby22-x64\bin

- Git

C:\Program Files\Git\bin



Before running the project

- `$ npm install`
- Installs all missing packages from `package.json`

Bower is a package management tool for installing client JavaScript libraries

- `$ npm install -g bower`
- Creates `bower.json` file to manage libraries

package.json

```
{
  "name": "icemapp",
  "version": "0.0.0",
  "dependencies": {},
  "devDependencies": {
    "gifsize": "0.1.3",
    "grunt": "^0.4.5",
    "grunt-autoprefixer": "^0.7.3",
    "grunt-concurrent": "^0.5.0",
    "grunt-contrib-clean": "^0.5.0",
    "grunt-contrib-compass": "^0.7.2",
    "grunt-contrib-concat": "^0.4.0",
    "grunt-contrib-connect": "^0.7.1",
    "grunt-contrib-copy": "^0.5.0",
    "grunt-contrib-cssmin": "^0.9.0",
    "grunt-contrib-htmlmin": "^0.3.0",
    "grunt-contrib-imagemin": "~0.2.0",
    "grunt-contrib-jshint": "^0.10.0",
    "grunt-contrib-uglify": "^0.4.0",
    "grunt-contrib-watch": "^0.6.1",
    "grunt-filerev": "^0.2.1",
    "grunt-google-cdn": "^0.4.0",
    "grunt-karma": "^0.9.0",
    "grunt-neuter": "~0.6.0",
    "grunt-newer": "^0.7.0",
    "grunt-ng-annotate": "^0.9.2",
    "grunt-open": "~0.2.0",
    "grunt-svgmin": "^0.4.0",
    "grunt-usemin": "^2.1.1",
    "grunt-wiredep": "^1.7.0",
    "jasmine-core": "^2.1.2",
    "jshint-stylish": "^0.2.0",
    "karma": "^0.12.25",
    "karma-jasmine": "^0.3.1",
    "karma-phantomjs-launcher": "^0.1.4",
    "load-grunt-tasks": "^0.4.0",
    "time-grunt": "^0.3.1"
  },
}
```

bower.json

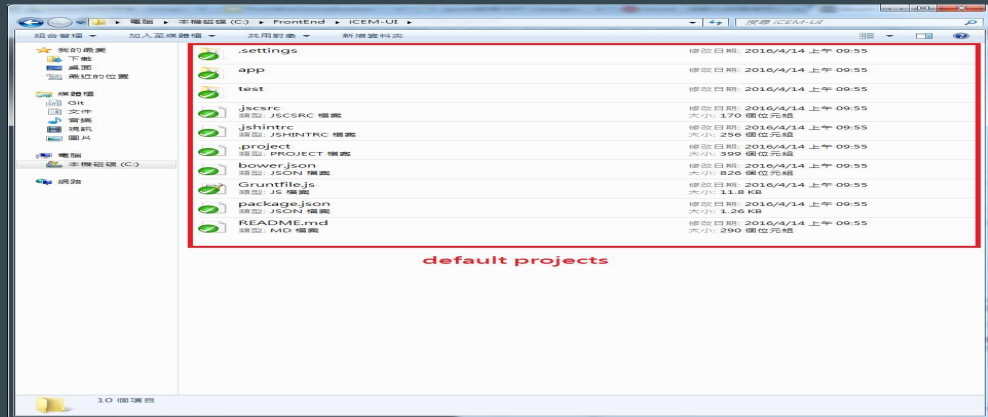
```
{
  "name": "icem-ui",
  "version": "0.0.0",
  "dependencies": {
    "angular": "^1.5.3",
    "bootstrap": "^3.2.0",
    "angular-bootstrap": "0.13.0",
    "angular-animate": "^1.5.3",
    "angular-cookies": "^1.5.3",
    "angular-messages": "^1.5.3",
    "angular-resource": "^1.5.3",
    "angular-route": "^1.5.3",
    "angular-sanitize": "^1.5.3",
    "angular-touch": "^1.5.3",
    "angular-local-storage": "^0.2.7",
    "jquery": "1.x",
    "jquery-ui": "~1.11.2",
    "ng-table": "0.8.3",
    "ng-i18next": "^0.5.2",
    "i18next": "1.7.7",
    "jStorage": "0.4.12",
    "startbootstrap-sb-admin-2": "1.0.7"
  },
  "devDependencies": {
    "angular-mocks": "^1.3.0"
  },
  "appPath": "app",
  "moduleName": "iCemApp"
}
```

From Git Check iCEM-UI

- Default Porject
- Command line

\$ npm install

\$ bower install



```
C:\Windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\RETAir>cd C:\FrontEnd\iCEM-UI
C:\FrontEnd\iCEM-UI>npm install
npm WARN package.json icemapp@0.0.0 No repository field.
npm WARN package.json icemapp@0.0.0 No license field.
npm WARN engine karma@0.12.37: wanted: {"node": ">=0.8 <=0.12 || >=1 <=2"} (current: {"node": "4.4.0", "npm": "2.14.20"})
npm WARN deprecated lodash@0.9.2: Grunt needs your help! See https://github.com/gruntjs/grunt/issues/1403.
npm WARN deprecated find-file@0.1.4: Use the globby package instead
npm WARN deprecated graceful-fs@1.2.3: graceful-fs version 3 and before will fail on newer node releases. Please update to graceful-fs@v4.0.0 as soon as possible.
npm WARN deprecated lodash@1.0.2: lodash@<3.0.0 is no longer maintained. Upgrade to lodash@4.0.0.
npm WARN deprecated graceful-fs@3.0.8: graceful-fs version 3 and before will fail on newer node releases. Please update to graceful-fs@v4.0.0 as soon as possible.
npm WARN deprecated graceful-fs@2.0.3: graceful-fs version 3 and before will fail on newer node releases. Please update to graceful-fs@v4.0.0 as soon as possible.
npm WARN deprecated jade@0.26.3: Jade has been renamed to pug, please install the latest version of pug instead of jade
npm WARN optional dep failed, continuing fsevents@1.0.11
```


Grunt Setp Command line

- `$ gem install compass`
- `$ npm install -g grunt-cli`
- `$ npm install -g grunt-contrib-compass`
- `$ npm install -g grunt-mocha`

Yeoman Create Projects

- \$ npm install -g yo
- \$ npm install -g generator-angular
- \$ yo angular
- \$ grunt serve

```
C:\Users\RETair>cd C:\workspace\test
```

```
C:\workspace\test>yo angular
```



```
Out of the box I include Bootstrap and some AngularJS recommended modules.
```

```
? Would you like to use Sass (with Compass)? Yes
```

```
? Would you like to include Bootstrap? (Y/n) y
```

- **jshint (grunt-contrib-jshint)**
 - Runs jshint for specified files
- **cssmin(grunt-contrib-cssmin)**
 - Runs cssmin for specified files
- **stylus (grunt-contrib-stylus)**
 - Compiles STYL files into CSS files
- **uglify (grunt-contrib-uglify)**
 - Minifies configured JavaScript files
- **concat (grunt-contrib-concat)**
 - Concatenates configured JavaScript files
- **watch (grunt-contrib-watch)**
 - Can run other tasks on file changed

neuter (grunt-neuter)

- before

```
<!-- Core Scripts - Include with every page -->
<script type="text/javascript" src="scripts/icprm.js"></script>
<script type="text/javascript" src="scripts/RETchat.js"></script>
<script type="text/javascript" src="scripts/directives/ng-common.js"></script>
<script type="text/javascript" src="scripts/app.js"></script>

<!-- service -->
<script type="text/javascript" src="scripts/service/commonService.js"></script>
<script type="text/javascript" src="scripts/service/siteService.js"></script>
<script type="text/javascript" src="scripts/service/sessionService.js"></script>
<script type="text/javascript" src="scripts/service/changeService.js"></script>
<script type="text/javascript" src="scripts/service/adminService.js"></script>
<script type="text/javascript" src="scripts/service/dmpService.js"></script>
<script type="text/javascript" src="scripts/service/itemService.js"></script>
<script type="text/javascript" src="scripts/service/menuService.js"></script>
<script type="text/javascript" src="scripts/service/userAttrService.js"></script>
<script type="text/javascript" src="scripts/service/microSiteService.js"></script>
<script type="text/javascript" src="scripts/service/pointService.js"></script>
<script type="text/javascript" src="scripts/service/memberService.js"></script>
<script type="text/javascript" src="scripts/service/orderService.js"></script>
```

- after

```
require('scripts/controllers/**/*.js');
require('scripts/route/**/*.js');
require('scripts/service/**/*.js');
require('scripts/directives/**/*.js');
```

Setting & Start Nginx

```
# Web Directory
location / {
    proxy_pass      http://127.0.0.1:9000;
    proxy_set_header Host          $host;
    proxy_set_header X-Real-IP     $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}
```

```
# Connect IPCRM 34 server API
# location /ipcrm-manager/api {

    # proxy_pass http://192.168.1.34/ipcrm-manager/api;

    # proxy_pass http://amnet.tw/ipcrm-manager/api;

    # proxy_set_header    Cookie $http_cookie;
    # proxy_cookie_path /ipcrm-manager/ /;
# }
```

```
# Connect ICEM 105 server API
location /api {
    proxy_pass      http://192.168.1.105:8080/dmp-admin-console/;
    proxy_set_header Host          $host;
    proxy_set_header X-Real-IP     $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    # proxy_cookie_path /dmp-admin-console/ /;
    # proxy_set_header Cookie $http_cookie;
}
```

```
# Not found file 404
# error_page 404                /404.html;

# redirect server error pages to the static page /50x.html
#
error_page 500 502 503 504 /50x.html;
location = /50x.html {
    root    html;
}
```

Integration with backend

