

Minification and bundling using NPM Packages

Attachments:

package.json
gruntfile.js
index.html
PublishProfile.pubxml

Install NPM

Install the NPM downloading from <https://nodejs.org/en/download/>

Install grunt

Add "package.json" your project directory (PFA sample package.json), this file lists grunt and its plugins for your project. Open Node.js terminal in your project directory of your code and type:

```
npm install grunt --save [press enter]
npm install grunt-ts --save [press enter]
npm install grunt-cli -g --save [press enter]
```

Configure grunt and its dependencies

Add the grunt configuration file "gruntfile.js" in your project directory (PFA sample gruntfile.js). This file tells grunt which dependencies to use and to run those on which files i.e source and destination.

Installing the grunt dependencies

Open Terminal in your project directory and type:

```
grunt [press enter]
```

This would list down all the dependencies of grunt (as per the gruntfile.js). Now, install the listed dependencies using "npm install <Dependency-Package-Name> --save"

Excluding/Including the files from publish

Add a publish profile (PFA sample PublishProfile.pubxml) to your Project to exclude files and directories that have to be excluded from the published files.

Also, Include the bundled & minified js file in the project and then into the index.html (PFA sample index.html) using the ProcessHtml syntax i.e by surrounding the js file references in the HTML with a tag like

```
<!-- build:js scripts/app.min.js -->
<!-- /build -->
```

where app.min.js is the file generated after bundling & Minification

Executing Grunt

a. Using terminal

using the following command in Node.js terminal:
grunt [press enter]

b. Using Post-Build event

```
if $(ConfigurationName) == Debug goto end
echo off
```

@echo off

cmd /c (start /b "\$(ProjectPath)")

grunt

:end