HunSpellChecker Umbraco Plugin

Package Description

This package provides a spellchecker which covers all the default languages of Umbraco (except Finnish). It contains all of the dictionary files and is not dependant on any external services as GoogleSpellChecker was (R.I.P.)

The reasoning for not using browser based spell checkers is that they don't function reliably inside the tinymce editor window. Firefox was the only browser whose inbuilt spell checker actually works.

The package uses the Hunspell library and dictionary files sourced from OpenOffice Extensions. By default only the servers current locale dictionary is loaded, others are loaded when spell check requests in those languages are made. Additional dictionaries will be automatically detected if added to the /umbraco/plugins/HunSpellChecker/dict folder. See the 1-Readme.txt file in this folder for more information on adding dictionary files.

Disclaimer

1. This package was built by a monolingual Aussie (locale = 'en-AU'). While the package has been tested with all other tinyMce languages (other than Finnish) it hasn't been used in anger for any language other than 'en'. Feel free to give feedback!

2. Try this out in a development environment and **test it** before adding to your production server…

Installation

The package install copies the required dll's to the /bin folder and the dictionary files to the /umbraco/plugins/HunSpellChecker/dict folder. It also adds the HunSpellCheckerStartupMode & HunSpellCheckerDefaultDictionaryCulture appSettings to the web.config.

Pre Install - *Read this before installing as a local package...*

If you want to install as a local package, you'll need to edit the web.config and increase the httpRuntime maxRequestLength attribute to be larger than the size of the zipped up package - 8192 should do it.

e.g.

```
<httpRuntime requestValidationMode="2.0" executionTimeout="7200" maxUrlLength="5000"
relaxedUrlToFileSystemMapping="true" enableVersionHeader="false" maxRequestLength="8192" />
```

Post Install

After installation, the package requires the following manual changes before it will function as the TinyMce spell checker.

1. Web.Config

Edit the web.config file and edit handlers / httpHandlers as appropriate for IIS setup - just add both if you are not sure...

httpHandlers - comment out the old GoogleSpellChecker.ashx httpHandler and add

```
<add  verb="GET,HEAD,POST" path="HunSpellChecker.ashx"
type="Usc.Plugins.HunSpellChecker.HunSpellChecker" validate="True" />
```

Handlers - again comment out the old GoogleSpellChecker handler and add the new handler

```
<add verb="GET,HEAD,POST" preCondition="integratedMode" name="SpellChecker"
path="HunSpellChecker.ashx" type="Usc.Plugins.HunSpellChecker.HunSpellChecker" />
```

2. /config/tinyMceConfig.config

Edit /config/tinyMceConfig.config and replace the old GoogleSpellChecker.ashx spellchecker_rpc_url custom config value with HunSpellChecker.ashx

e.g.

```
<config key="spellchecker_rpc_url">HunSpellChecker.ashx</config>
```

Restart your web site and use the spell check button on your editor.

(If you don't have this button, navigate to the developer section > datatypes > rich text editor and check the ABC spelling option.)

TroubleShooting

Add the following to you log4net.config to ensure info/errors are logged to the umbracoTraceLog.txt file.

```
<logger name="Usc.Plugins">
    <level value="INFO" />
</logger>
```

Default Locale is detected on the server using `Thread.CurrentThread.CurrentCulture`. If the wrong locale is being detected and you can't wrangle the correct Windows setting to override it (en-US is a common one), use the HunSpellCheckerDefaultDictionaryCulture appSetting in the web.config and set it to the correct locale string - eg "en-AU"

Adding Dictionary Files

The HunSpellChecker plugin uses the .net version of HunSpell which supports OpenOffice dictionary files. The dictionary files included in this package have been sourced from open office extension files (.oxt files). The .oxt file format is actually just a renamed .zip files. (Rename them and extract the .dic and .aff files.)

Language file sources by language:

English AU (pretty much GB English + a few Australianisms ☺), US, Danish, Dutch, Finnish (not supported by Hunspell), French, German, Italian, Polish, Portuguese, Spanish, Swedish

Additional dictionaries can be found here: http://extensions.openoffice.org/en/search by entering the language and the keyword 'dictionary'

Languages are loaded based on the current locale which may be over written by the web.config appSetting `HunSpellCheckerDefaultDictionaryCulture` or dynamically by the tinymce

configured 2 digit language code. Eg selecting 'da' language option in tinyMce will load the da-DA dictionary.

To instal a language, the following files must be added to the 'dict' subfolder and use the naming convention as described here http://www.maierhofer.de/en/open-source/hunspell-dictionaries.aspx

eg en_us.dic, en_usc.aff

Note the '_' underscores!

To reduce the memory footprint and site startup times, dictionary loading can be controlled by the HunSpellCheckerStartupMode appSetting in the web.config

Valid options are:

`LoadNone`   // Dont load any languages at startup - only load on demand.

`LoadCurrent` // Load only the language for the current locale - others are loaded on demand.

`LoadAll`   // Load all installed languages at startup.

References

HunSpell: http://www.maierhofer.de/en/open-source/nhunspell-net-spell-checker.aspx

OpenOffice Extensions: http://extensions.openoffice.org