Adding new elements to LuCI

This is a sample to show how to add a new element to the LuCI interface

NOTE: Some of the information provided in this Wiki might be redundant from ⊕ http://luci.subsignal.org/trac/wiki/Documentation/ModulesHowTo

As the examples show in the LuCI wiki, here are 2 ways to do this:

1. CBI
2. View (Template)

Adding a new top level tab

First we are going to add a new tab to the top navigation. Normally one can see: Freifunk | Status | System | Services | Network, etc

One can do this by adding a file to the controller directory in your `<luci-path>/applications/luci-myapplication/luasrc/controller/myapp`

<luci-path> is the path of your LuCI source files

luci-myapplication is a new directory created for these examples. The name of the directory has to start with *luci-* so that it is recognized by `make menuconfig` and show up as a module to be compiled.

controller is the default directory for any UI control (i.e. new tab)

myapp is also a custom directory for this particular application

We will call this file `new_tab.lua`

The content is as follows:

```
module("luci.controller.myapp.new_tab", package.seeall)  --notice that new_tab is the name of the file new_tab.lua
  function index()
      entry({"admin", "new_tab"}, firstchild(), "New tab", 60).dependent=false  --this adds the top level tab and
defaults to the first sub-tab (tab_from_cbi), also it is set to position 30
      entry({"admin", "new_tab", "tab_from_cbi"}, cbi("myapp-mymodule/cbi_tab"), "CBI Tab", 1)  --this adds the
first sub-tab that is located in <luci-path>/luci-myapplication/model/cbi/myapp-mymodule and the file is called
cbi_tab.lua, also set to first position
      entry({"admin", "new_tab", "tab_from_view"}, template("myapp-mymodule/view_tab"), "View Tab", 2)  --this adds
the second sub-tab that is located in <luci-path>/luci-myapplication/view/myapp-mymodule and the file is called
view_tab.htm, also set to the second position
  end
```

Adding the cbi_tab code

As specified above, we need to create a file called `cbi_tab.lua` in `<luci-path>/luci-myapplication/model/cbi/myapp-mymodule`

We will include the following code:

```
m = Map("cbi_file", translate("First Tab Form"), translate("Please fill out the form below")) -- cbi_file is the
config file in /etc/config
d = m:section(TypedSection, "info", "Part A of the form")  -- info is the section called info in cbi_file
a = d:option(Value, "name", "Name"); a.optional=false; a.rmempty = false;  -- name is the option in the cbi_file
return m
```

Adding the cbi_file

From the code above, we know we need a config file that has the appropriate sections and options. In our case, we will create the file *cbi_file* in `/etc/config` which looks like this:

```
config 'info' 'A'
        option 'name' 'OpenWRT'
```

Adding the view_tab code

The *view_tab.htm* file needs to go in `<luci-path>/applications/luci-myapplication/luasrc/view/myapp-mymodule/`

Here are the contents of the file:

```
<%+header%>
<h1><%:Hello World%></h1>
<%+footer%>
```