Purpose: 1. To maintain code and synchronize code easy, and re-use code.
2. To make skeleton more clear and easy to know.

The CGI code skeleton rule:

1. To make some functions into a group which are refered to menu item.
2. Every CGI page will only have one c file which include get and set functions.
   If the get/set functions need to call sub-function that just this page will used,
   please put the sub-function into same c file.
3. Don't use #ifdef #endif under C function utmost.
4. The common functions for all project will put files in ./ifx_httpd.
5. The common functions by project will put in ./ifx_httpd/$project_name
6. To modify ./ifx_httpd/project/menu/ifx_src_menu_advance.c will make the
   different menu.

7. To Create a new project
   7.1 To create a new folder name ./ifx_httpd/$project_name
   7.2 To select and copy which functions the project need form ATA/GATEWAY
into ./ifx_httpd/$project_name
   7.3 To modify C file under menu folder ./ifx_httpd/$project_name/menu
   7.4 To modify Makefile.include and Makefile ./ifx_httpd
   7.5 To build and get libifx_httpd.so

Compare new and old CGI skeleton
Old CGI skeleton

build_mips	sh	1,092
build_x86	sh	1,011
ifx_amazon_cgi	h	15,62
ifx_amazon_cgi_getFunctions	c	499,2
ifx_amazon_cgi_setFunctions	c	
ifx_cm	h	
ifx_cm_web	c	9,122
ifx_common_defs	h	1,672
ifx_emf	h	7,765
ifx_exportFunc	h	458
ifx_httpd	h	1,399
ifx_httpd_main	c	34,456
ifx_httpd_method	c	11,328
ifx_httpd_method	h	2,476
ifx_iip_fifos	h	3,544
Makefile		1,734
tags		40,927
vssver	scc	304

The get/set function has include all functions , system, wan,lan,wireless,Nat ,firewall,DNS,voip

New CGI skeleton

..[..]		<DIR>
[ATA]		<DIR>
[GATEWAY]		<DIR>
[webpage]		<
Makefile		4,187
ifx_cm_web	c	8,7
ifx_common_cgi	c	9,1
ifx_common_security	c	2,2
ifx_httpd_main	c	33,48
ifx_httpd_method	c	10,878
rc	conf	5,684
ifx_common_defs	h	1,611
ifx_emf	h	7,765
ifx_exportFunc	h	439
ifx_httpd	h	1,328
ifx_httpd_method	h	2,393
ifx_web_common	h	2,996
Makefile	include	3,886
build_mips		1,1
build_x86	sh	
libifx_httpd_ata	so	
libifx_httpd_wgateway	so	

Had 2 projects , ATA / GATEWAY

Common functions for all projects

```
□ ☐ ATA
    📁 ddns
    📁 firewall
    📁 lan
    📁 login
    📁 login_cm
    📁 menu
    📁 nat
    📁 qos
    📁 route
    📁 system
    📁 upnp
    📁 vlan
    📁 voip
    📁 wan
    📁 wizard
    📁 wlan
□ 📁 GATEWAY
    📁 ddns
    📁 firewall
    📁 lan
    📁 login
    📁 menu
    📁 nat
    📁 route
    📁 system
    📁 upnp
    📁 wan
    📁 wizard
    📁 wlan
□ 📁 webpage
    📁 ATA
    📁 GATEWAY
```
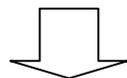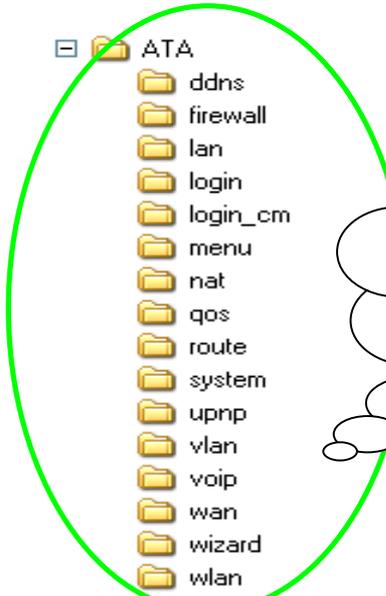
Have different functions
which depend on menu .

```
📁[..]                                    <DIR>
📁[ddns]                                  <DIR>
📁[firewall]                              <DIR>
📁[lan]                                   <DIR>
📁[login]                                 <DIR>
📁[login_cm]                              <DIR>
📁[menu]                                  <DIR>
📁[nat]                                   <DIR>
📁[qos]                                   <DIR>
📁[route]                                 <DIR>
📁[system]                                <DIR>
📁[upnp]                                  <DIR>
📁[vlan]                                  <DIR>
📁[voip]                                  <DIR>
📁[wan]                                   <DIR>
📁[wizard]                                <DIR>
📁[wlan]                                  <DIR>
📄Makefile
📄ifx_amazon_cgi_get___ions        c    87,80
📄ifx_amazon_cgi_set___ions        c    3
📄ifx_amazon_cgi                   h    14,933
```

Commond get/set function by project

```
📄 ifx_src_system_mainpageconte...
📄 ifx_src_systemfirmwareupgrade.c
📄 ifx_src_systemhostnameconfig.c
📄 ifx_src_systemlog.c
📄 ifx_src_systemreset.c
📄 ifx_src_systemstatus.c
📄 ifx_src_systemtime.c
📄 ifx_src_systemusersetting.c
📄 Makefile
```

Every asp page has corresponded with one c code.