

The Sahana License

- Sahana Codebase is under:
 - Lesser GNU Public License (LGPL)
- Empowerment of User
 - Freedom to run, modify and distribute
 - Code developed upon code base can have a different license unlike GPL

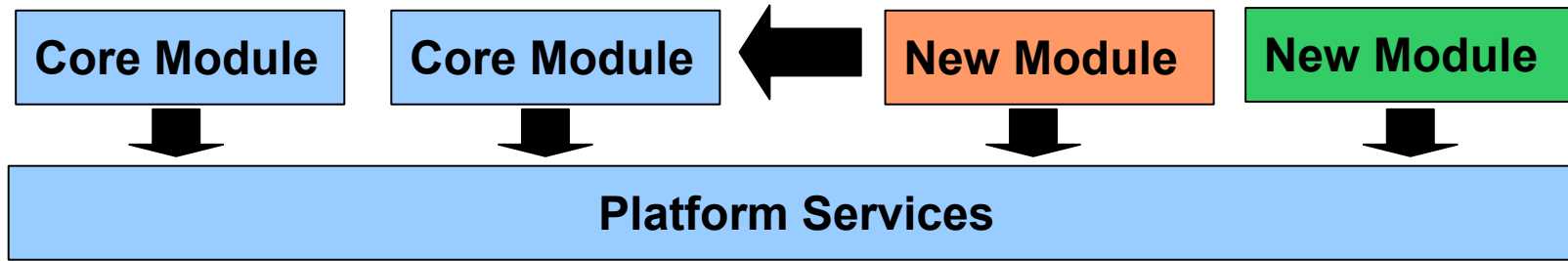
Directory Structure

- **www** - Web root of Sahana
 - **theme**
 - **default** - The default theme for Sahana
 - **green_theme** - An alternative theme
- **conf** - contains the config files for Sahana
- **3rd** - 3rd party components Sahana depends on
- **inc** - Sahana libraries
- **mod** - main modules directory for sahana
 - **home** - displays the home page
 - **dvr** - people registry
- **inst** – Sahana web installer

Sahana Modules & Platform

- Module = **Sub-Application** on Platform
 - Pluggable solution to disaster coordination problem
- **Platform** eases development. Provides:
 - Themed UI, Support diverse multiple-clients
 - Tailored GIS, WS, Reporting Toolkits
 - Security, Data management, Error handling

“Plugin” / Platform Pattern



- The Plugin / Modular Architecture pattern
 - Enables evolutionary **parallel development**
 - Consistent Base Platform
 - Core **“System” Module** and Free for all
 - In FOSS the platform is **royalty free** and open
 - Eg. Firefox, Symbian, Android, PHP, Eclipse

Main Module Files

- main.inc
 - (required only for sub-application) - This file is the front-controller for the sub-application that you hope to build
- conf.inc (required)
 - Configuration values that a administrator is permitted to change in your module.
- admin.inc (optional)
 - Each module can have it's own admin page in the admin panel if this file is included.

Module & Actions

`shn_<module name>_<action>()` {

- module name - has to be the same as the directory name of the module - set by the mod POST parameter
- action - is the same as the act POST parameter

`index.php?mod=dvr&act=delp`

- Will Call

`shn_dvr_delp()` function in `/mod/dvr/main.inc` file

The default function

```
mkdir -p mod/myapp
```

```
<?php
```

```
function shn_myapp_default()
```

```
{
```

```
    print "<p>Hello World!</p>";
```

```
}
```

```
?>
```



Page Sections

shn_<module name>_<section>() {

- Sections include
 - Mainmenu – Override the main menu
 - Header – Override for the header
 - Footer – override for the footer
 - Login – override for login section
 - HTML_header – override for HTML header

The Configuration System

- Main config files in
 - /conf directory
 - sysconf.inc
 - conf-order.inc
- Module configuration in
 - /mod/dvr/conf.inc
- Configuration Overrides
 - By database based on default conf order

Conf.inc

- You can create configuration variables for your module in the `conf.inc` file
- These values are automatically picked up by the system
- Special Config values for modules

```
$conf['mod_skel_name'] = _t("Skeleton Module");
```

```
$conf['mod_skel_menuorder'] = 21;
```

Streams

shn_<stream>_<module name>_<action>() {

- Supported Streams
 - HTML – default: shn_dvr_report()
 - XML - shn_xml_dvr_report()
 - SOAP
 - TEXT
 - IMAGE

Installation Files

- `inst/dbcreate.sql` (required)
 - The MySQL database creation script for module installation. This is automatically used by the web installer or the package installer.
- `inst/setup.inc` (optional)
 - A setup script beyond the MySQL database creation for module installation. This is automatically used by the web installer or the package installer. The basic version will have the package version and details, whilst the advanced form of this script will have installation, upgrade and uninstallation functions

Forms

`include_once`

```
($global[approot]."/inc/lib_form.inc");
```

- Contains the template handlers for
 - Form elements
 - Textbox, TextArea, Select Box, Rich Text
 - Submit, Hidden,
 - Field Options
 - Sections
- http://wiki.sahana.lk/doku.php?id=dev:form_handler

