

# Helpshift Assignment.

## Helpshift Project Directory Structure

| -helpshift (Also know as Project Directory or PROJDIR hereafter.)  
| ---conf (Hold configuration for the server.Change host, port etc here.)  
| ---data  
| ---docroot  
| ----open  
| -----css  
| -----images  
| -----js  
| -----lib  
| -----dojo.minified  
| ---httpd.config (Holds the sample Apache Host file.Use if you are manually configuring.)  
| ---logs  
| ---src (Holds all python code.Also know as the Source Directory or SRCDIR hereafter.)  
| ----common  
| ----webapp  
| ----tests  
| ---templates

## Approach

There is one server which is handling searching, tracking and admin interfaces.The apache host's document root points to the folder docroot/open/ in Project Directory.Apache will route all requests to the WSGI Server with paths starting with /app.

The server contains the following interfaces:

Route	Method	Purpose
/app/index	GET	Just to check if server is up.
/app/search/:query#.*#	GET	Accepts the query and returns wrapped results.
/app/link	GET	Clicking on results invokes this route.It tracks data and redirects to the embedded URL.
/app/admin	GET	Shows the admin interface.
/app/admin/getsitedata/:url#.*#	GET	Returns the site data.If you give a URL returns data specific to that URL.
/app/admin/getuserdata/:user#.*#	GET	Returns all user data.If you give a

		user returns data specific to that user.
--	--	--

Rest I will let you explore the code. There is documentation for every function and class. If you feel I have not done justice somewhere please contact me.

### Getting Started:

The Project Directory holds two files:

- `install.sh` installs the necessary modules.

This script just installs a bunch of requirements need for the solution to run successfully. It does not take any params.

- `configure.sh` installs and configures the server.

This script will configure and also install all requirements depending on what params you provide.

It takes the following params:

Param	Usage
<code>--host</code>	The hostname of the server. (required)
<code>--domain</code>	The domain of the server. (optional, but its better to give "local".)
<code>--dir</code>	The project directory. (optional, takes pwd as project directory.)
<code>--force</code> or <code>-f</code>	Overwrites the host file if already present.
<code>--install</code> or <code>-i</code>	Installs the required packages (Internally calls the <code>install.sh</code> script specified above)
<code>--help</code>	Prints Usage.

Note: I have created and tested this script only for Ubuntu.