

Media Library Box



What is a Media Library Box?

The Media Library Box is a self-contained, self-powered WiFi based portable media distribution system. It allows users to create a full featured 'digital library' from which Gospel/Educational media (text, video, audio, applications) can be shared on mobile phones, tablets, laptops, desktops in an off-the grid environment without depending on access to the internet or electricity. Any device with WiFi capability can wirelessly connect to the Media Library Box and access/download content with a simple web browser. The Media Library Box will support over 30 simultaneous browsing/download sessions from different devices. The Media Library Box also supports DLNA services for streaming Audio and Video to playback devices.

What has been done?

- 1) We have modified the unit to support full UTF-8 character set in the file names/directory

- 2) We have added a hook for run-on-boot script. This allows for automating the build cycle post firmware flash to automatically install the h5ai interface, custom branding and custom configuration. This also allows for a re-build on a firmware update.
- 3) Documentation on the build process, administration of the units, customization of the unit including language translation, base brochure, users guide.
- 4) Providing a virtual environment for building the OpenWrt & LibraryBox code base
- 5) Fixing of the H5ai interface to support the download counters as well as changes to the file download scripts to ignore blank database entries.

What needs to be done?

There are three main webpages in the Media Library Box. The Index page, Statistics page and About page. All other pages (text, video, audio, application) pages are automatically generated using H5ai file directory generation toolset.

We need to redesign the main three pages (index, statistics and about) to meet the following goals:

- 1) Easier navigation by oral learners who may not be literate. This includes the use of Icons in addition or instead of text for main navigation. It is important to remember that icons must be recognizable by those in other cultures (eg: use of icons that are not culturally dependent but more internationally recognizable)
- 2) We must keep the responsive design. Devices which attach to the Media Library Box are mobile phones, tablets, laptops, desktop computers and other media consuming devices. Screen size will vary from several hundred pixels wide to large screen
- 3) We want to keep the Firefox L10 language substitution capability for multi-lingual users and browser identification of language. However, we would like to add an override to the base language in a dropdown/menu item. Even with the Icon-ization for oral learners, there is still a need for the ability to manage text for additional information (about, etc.)
- 4) Promotion of video format based on screen size... (mp3 for small devices and mp4 for smart/large format devices)
- 5) Remote power off capability (security in creative access countries) as well as general shutdown (likely done as part of the following objective)

These are the core guidelines for the first cut of a new UI for the Media Library Box.

Additional objectives would be:

- a) Add a password protected administration interface that would allow configuration and file management capabilities
 - a. SSID modification
 - b. WiFi channel modification
 - c. Hostname modification
 - d. Enable/Disable of shoutbox (messaging) function
 - e. Administrative Password modification
 - f. FTP Password modification
 - g. Time/Date modification and/or synchronization

- h. Statistics read/reset
- i. DHCP pool/IP change
- j. File delete
- k. File move
- l. File add/upload capability (per the original PirateBox) to allow upload by an administrator in the field.
- m. Possible (mesh configuration – ftp sync, syncport, etc.)
- n. Unit shutdown

Pages :

Curent Main LibraryBox page :

The screenshot shows the LibraryBox v2.1 main content page. The browser address bar displays 'librarybox.lan/content/'. The page has an orange header with the LibraryBox logo and navigation links: Home, Text, Audio, Video, Apps, All Content, Statistics, and About. A grey banner below the header says 'Welcome to LibraryBox v2.1' and includes the text: 'Browse and download any of the available files, or chat with other users below. LibraryBox is private; no logs or other identifying data are retained.'

The main content area is divided into two columns. The left column, titled 'Top Downloads', lists several files with their download counts:

- Movie - Jesus - He Lived Among Us.3gp (4 download(s))
- 3 download(s)
- 1 download(s)
- Chinese Standard Children's Animation Edition Customized.pdf (1 download(s))
- B01_03_Matthew_ENGWEBN2DA.mp3 (1 download(s))
- Portuguese Africa Children's Animation Edition Customized.pdf (1 download(s))
- bounds-power-01.mp3 (1 download(s))

The right column, titled 'Chat', shows a chat interface with the text '00:00:00 LibraryBox: Chat and share files anonymously!'. At the bottom of the chat area is a text input field labeled 'Anonymous' and a 'Send' button.

A red banner at the bottom of the page states: 'The LibraryBox Project is Software Licensed under GPLv2, see https://www.gnu.org/licenses/gpl-2.0.html for license details.'

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the date and time as 5:30 PM on 12/29/2015.

Curent Statistics Page :

The screenshot shows the LibraryBox v2.1 statistics page. The browser address bar displays 'librarybox.lan/content/stats.html'. The page has the same orange header as the main content page. A grey banner below the header says 'LibraryBox Downloads' and includes the text: 'Below are download statistics and visitor counts for this LibraryBox.'

The main content area is divided into two sections. The first section, titled 'Visitor Counts', shows the number of visitors for the last two days:

- December 30, 2015 → 1
- December 29, 2015 → 1

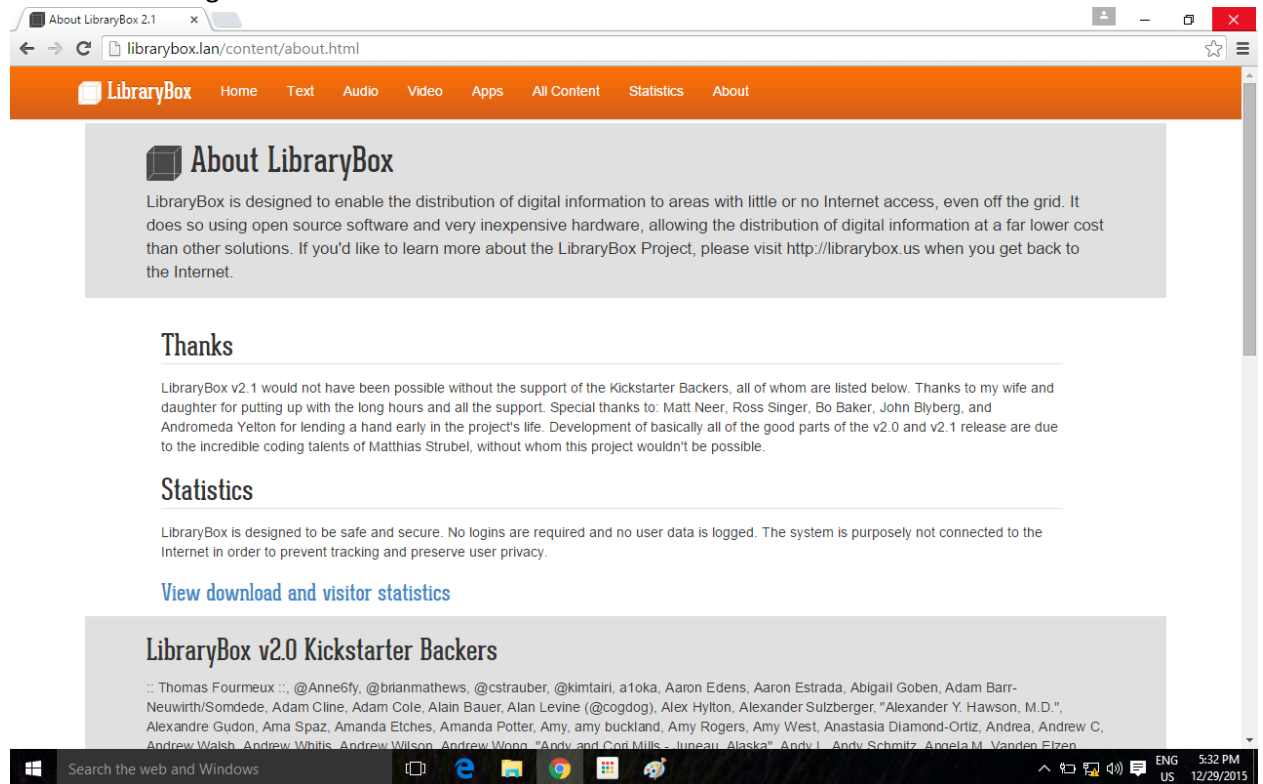
The second section, titled 'Content Downloads', lists the same files as the 'Top Downloads' section, with their download counts:

- Movie - Jesus - He Lived Among Us.3gp (4 download(s))
- 3 download(s)
- 1 download(s)
- Chinese Standard Children's Animation Edition Customized.pdf (1 download(s))
- B01_03_Matthew_ENGWEBN2DA.mp3 (1 download(s))
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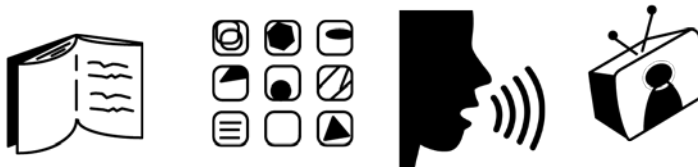
A red banner at the bottom of the page states: 'The LibraryBox Project is Software Licensed under GPLv2, see https://www.gnu.org/licenses/gpl-2.0.html for license details.'

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the date and time as 5:32 PM on 12/29/2015.

Curent About Page :



Possible Icons :



Sample page :



Where do I find all the materials to work on :

<https://github.com/kirkdwilson/LibraryBox-HTML-Pages>

For reference the LibraryBox H5ai add on it located at:

<https://github.com/kirkdwilson/LibraryBox-h5ai-Interface>

OM's branded options and scripts, build environment, documentation, etc.

https://github.com/kirkdwilson/OM-Media_library-Box