

Topics

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Open Source Web Kiosk?

- Information Displayer (websites, photos, slideshows)
- Personalize
- Locked in Full Screen
- Automatic on Start-up

Found in:

- Shopping Centres
- Airports
- Hotel Lobbies
- Work Spaces
- Other Public & Private Spaces

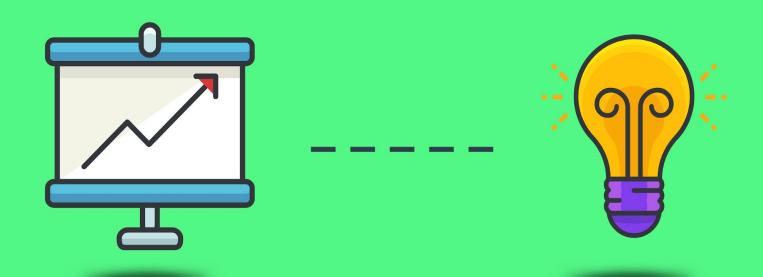




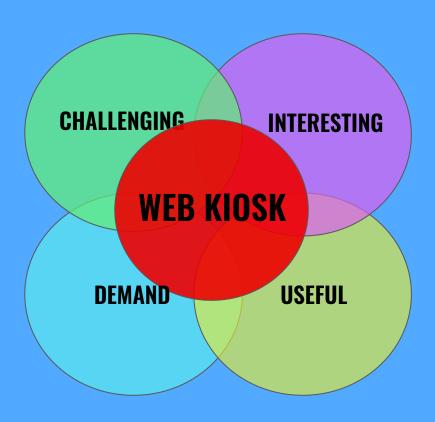




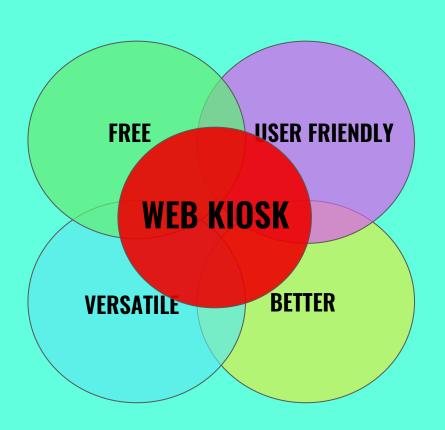
Idea



Motive



End Product



Execution

- 1. Creating simple and easy to use UI using Glade
- 2. UI Interaction with Unix/Python Scripts
- 3. Python file communication with bash
- 4. Browsing websites









Code?

- Languages: Python 3.5.3 and Unix shell
- Python standard libraries utilized: os and time
 - o time.sleep(switchRate)
 - o os.system('./videoPlayer.sh ' + 'directory')
- Added libraries: GTK+ 3.22





Working with GTK+



Connecting buttons to functions:

Define a button:

saveButton = Gtk.Button("Save")

Connect to function:

saveButton.connect("clicked", handler.savebutton_is_clicked)

Define the function:

In Handler class: def savebutton_is_clicked(self, button):

Working with GTK+



URL:	X]	1	0	box	LABEL	ENTRY	BTN BTN BTN
URL:	X	P	0	box	LABEL	ENTRY	BTN BTN BTN
URL:	X		(P)	box	LABEL	ENTRY	BTN BTN BTN
URL:	X	Ŷ.	0	box	LABEL	ENTRY	BTN BTN BTN

Accessing widgets/containers:

urlbox

```
urlbox.get_children() = [Gtk.Box, Gtk.Box, Gtk.Box, Gtk.Box]
urlbox.get_children() [0].get_children() = [Gtk.Label, Gtk.Entry, Gtk.Button, ...]
```

Get all entries texts:

```
for n in urlbox.get_children():
    url_list.append(n.get_children()[1].get_text())
```

Cycling browser tabs

```
while True:
    if cycle == 0:
        for n in websiteList:
            os.system('chromium-browser --incognito '+n)
            if cycle == 0:
                os.system('xdotool key "F11" &')
                cvcle = 1
            time.sleep(switchRate)
    else:
        for n in range (2, len (websiteList) +1):
            os.system('xdotool key "ctrl+'+str(n)+'"')
            time.sleep(switchRate)
```

How to Use?

- 1. Download Source Code
- 2. Run the .exe File
- 3. Reboot







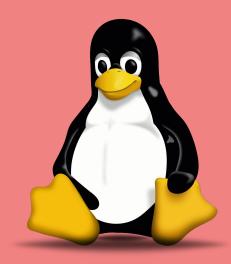
- 4. Configure Settings Using UI
- 5. Press "Run web-kiosk"

Challenges

Learning Linux

GTK & Python

Time



Future Improvements

App Support

Multiple Windows Simultaneously

Windows Compatibility

Arrangebility

Error Logs

Revenue?









