rdkbrowser2

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Overview

rdkbrowser2 is the browser application based on WPE, it is integrated with following components which enables it with new features compared with legacy rdkbrowser.

- injectedBundle: Provides integration Layer for Service manager and Player inside WPE, adds ability to send messages between JavaScript & other application.
- pxcore-libnode: pxcore Provides a lightweight Frame-buffer library, pxscene 2D scene graph API library.
- wpe-webkit: WebKit porting which is used with Wayland.
- rdk-logger: Provides console and file level message logging feature to RDK component.
- westeros: Wayland compositor library that allows applications to create their own Wayland displays, which allows nesting and embedding of third party application

How to Launch rdkbrowser2?

rdkbrowser2 can be launched in two different ways:

o Server Mode: --server - Launch the browser in a server("tab") mode

It could be directly launched as:

/usr/bin/rdkbrowser2 --server

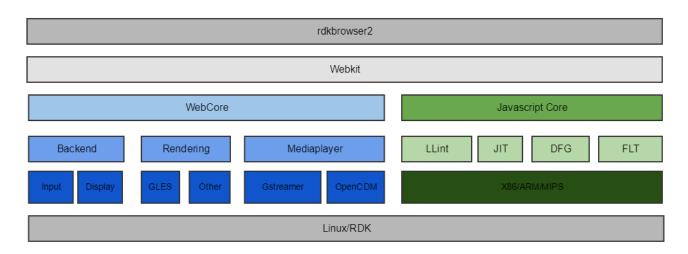
Also can launch _rdkbrowser2_server.sh, script file to run rdkbrowser2 as a server.

o Standalone mode: --url <url> - Launch opening a specific URL

web pages could be launched using rdkbrowser2 by passing the URL.

/usr/bin/rdkbrowser2 --url http://www.google.com

Architecture Diagram



Webkit: Thin layer to link against from the applications.

WebCore: Provides rendering, layout, network access, multimedia, accessibility support etc.

JavaScript Core: Javascript engine.

 $Platform: Provides\ platform\text{-}specific\ hooks\ to\ implement\ generic\ algorithms.$

rdkbrowser2 Controls

rdkbrowser2-control is an app for discovering RDKBrowser2 RtRemote Server Object and invoking its RtRemote based API.

Only works in conjunction with /usr/bin/rdkbrowser2.sh

Usage:

start rdkbrowser2: /usr/bin/rdkbrowser2.sh 'about:blank'

start /usr/bin/rdkbrowser2-control in a separate shell

Sample control sequence:

```
rdkbrowser2tab = rt.locate()
rdkbrowser2tab.transparentBackground = false
rdkbrowser2tab.proxies = [ { "pattern": "*", "useproxy": "http://<ip>:<port>" }]
rdkbrowser2tab.url = "https://www.google.com/"
rdkbrowser2tab.evaluateJavaScript("startTest()")
```