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1. Basic Setup

Kiosk Browser is a Browser App designed for an interactive kiosk or Internet kiosk enclosing the system in a way that prevents user interaction and activities on the device outside the scope of execution of the App. This way, the App replaces the look and feel of the system it runs over, allowing for customization and limited offering of ad-hoc services. Kiosk Browser locks down the application in order to protect the kiosk from users which is especially relevant under, but not only limited to, scenarios where the device is publicly accessed. Multiple kiosks can be managed remotely if needed via another Kiosk Remote Management tool.

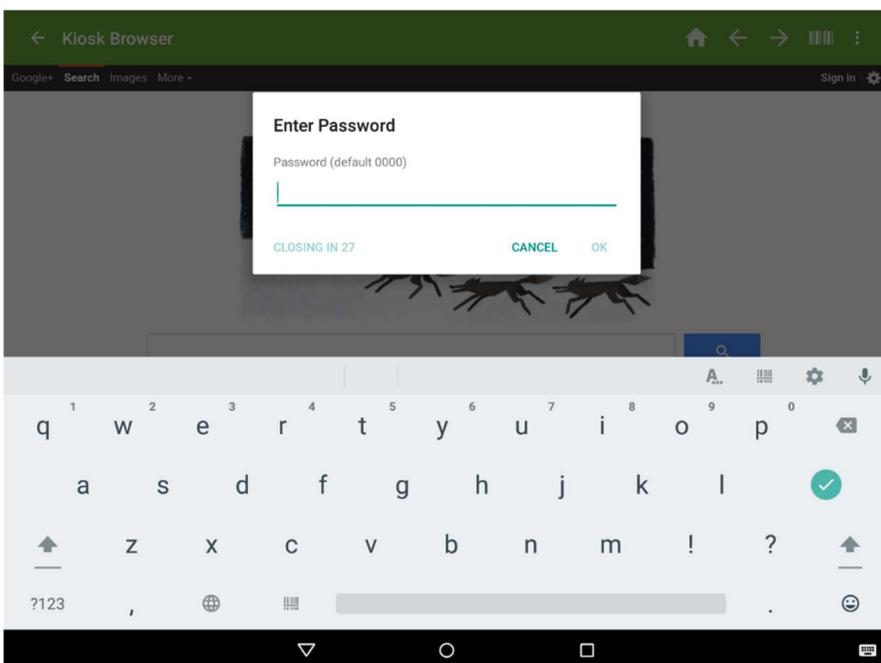
1.1. How do I exit/access settings of Kiosk Browser?

There are two methods for exiting/accessing settings.

Method 1

Press the menu button in the top right-hand corner of the screen, tap "Settings" to access the settings or tap "Exit to Launcher " to exit to Launcher. Enter the default password of 0000 (zero zero zero zero) and tap OK.

If you have hidden the toolbar, by default you can automatically show the toolbar again by swiping down from the top edge of the screen. If you have turned the swipe option off please see [Method 2](#).

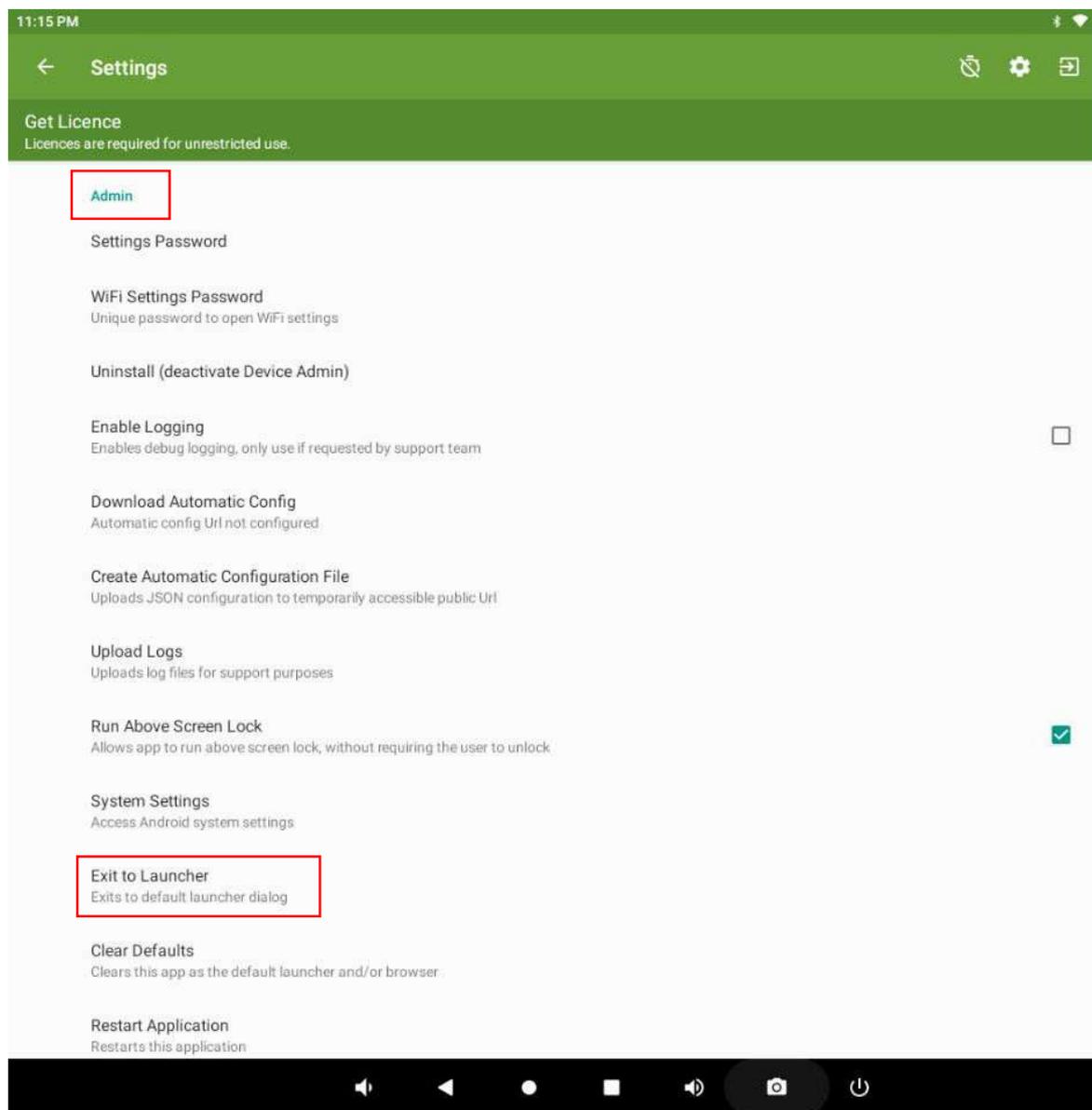


Method 2

Tap anywhere within the screen 4 times in quick succession to open the password dialog. Enter the default password of 0000 (zero zero zero zero) and tap **OK**. This will take you to the **Settings**.

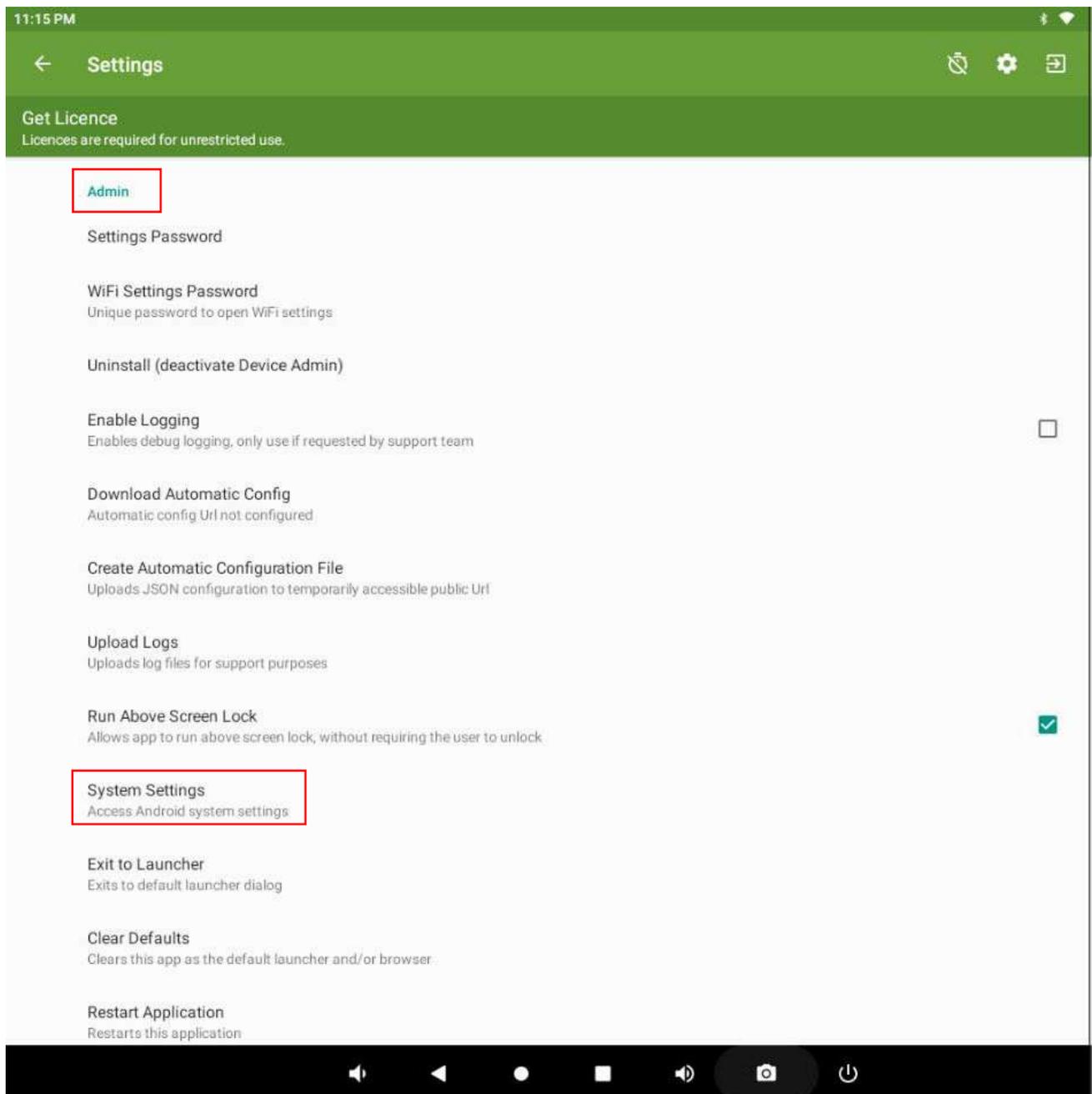
To exit to Launcher, go to **Admin > Exit to Launcher**.

Please note, when using the multi-tap method, you must tap a minimum of 4 times very quickly.

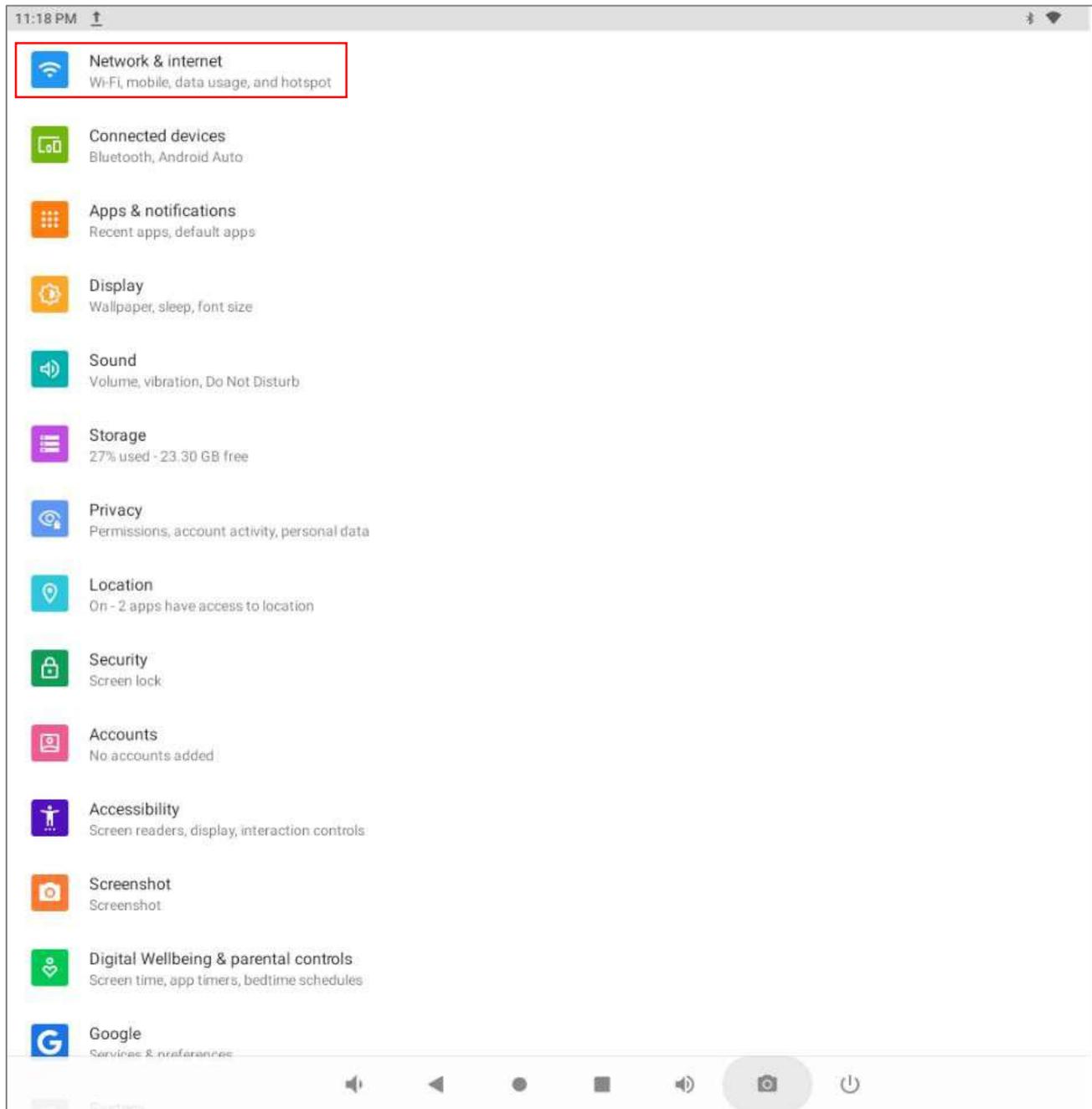


1.2. Set up Network via Android Settings

From Settings, go to **Admin > System Settings**



From Android Settings, go to **Network & Internet**



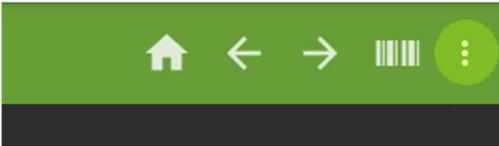
1.3. Setting the Home Page/Kiosk URL

By default, Kiosk Browser is set to a default page but it's very easy to change the URL to point to a website or local html files.

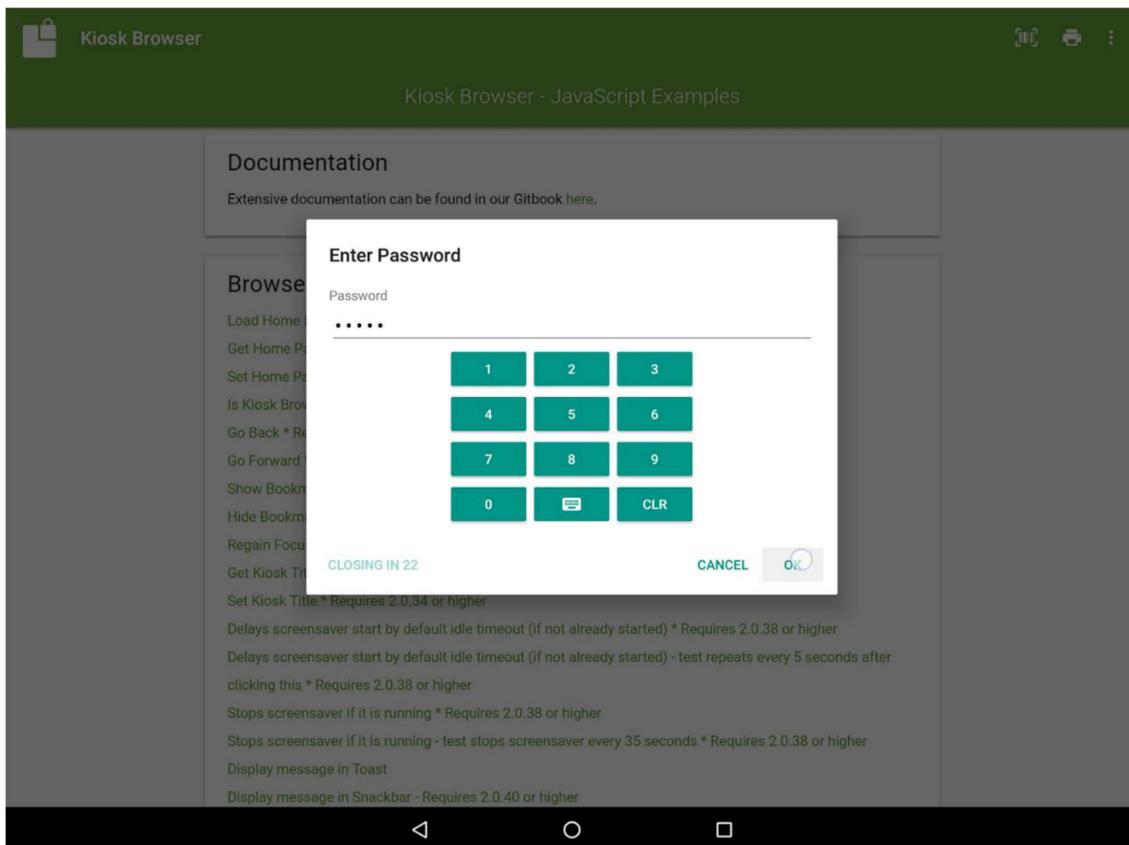
Option 1: Website

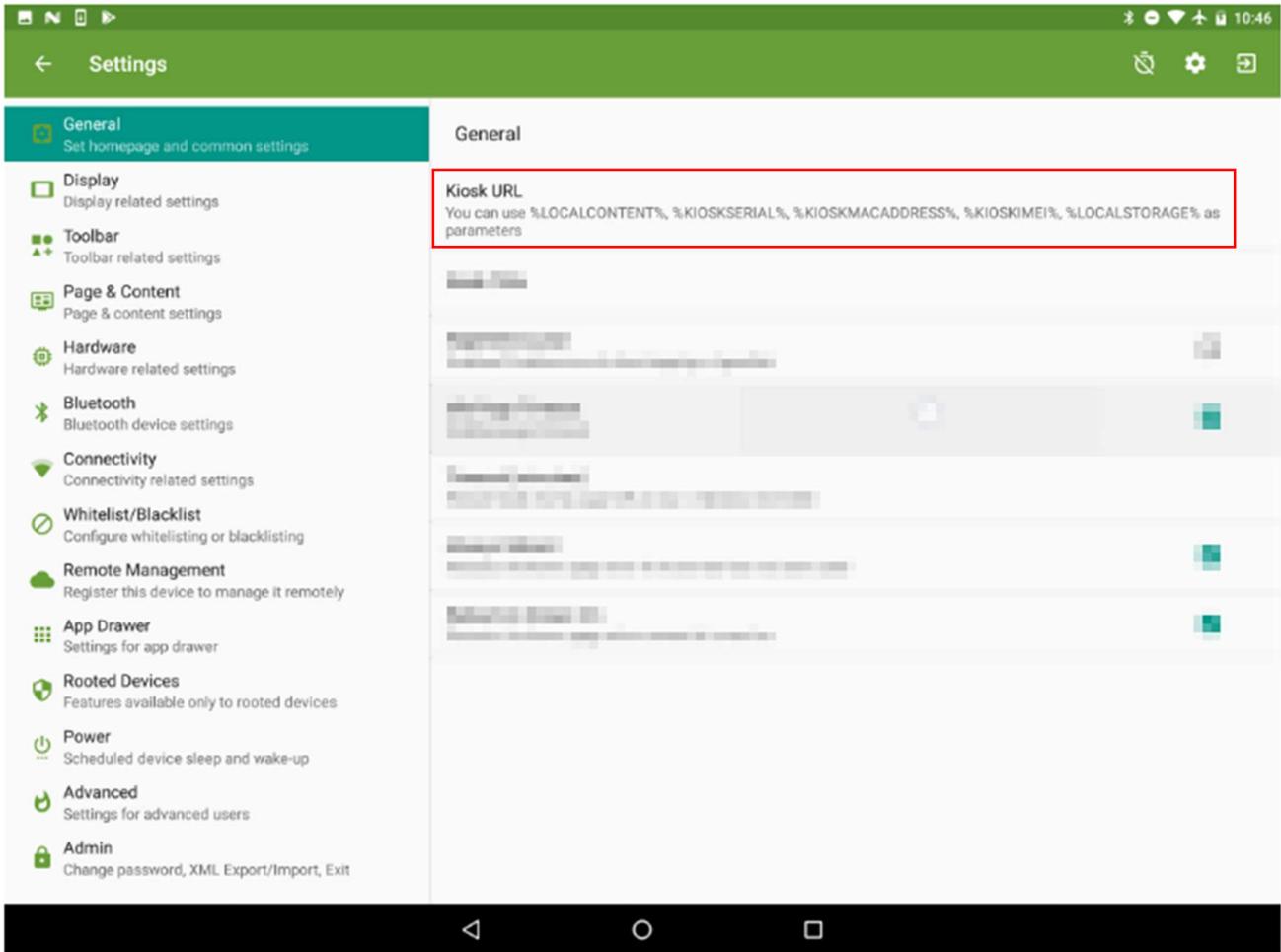
Go to **Settings > General > Kiosk URL**

Tap the **three dots** in the top toolbar, then tap **Settings**.



Enter the default password of **0000** (zero zero zero zero).





Tap **Kiosk URL** and change the URL to a URL of your choice, e.g. <http://www.google.com> and tap ok.

When exiting back to the main browser window (by pressing back) your URL will have loaded.

Option 2: Using an html file stored on the device

To use a html file stored on the device you must use the [file:///](#) prefix when entering your URL. An example would be something like <file:///sdcard/webfolder/index.html> within **Settings > General > Kiosk URL**

Alternatively you can point to kioskbrowser/localcontent by just using a simple variable:

%LOCALCONTENT% i.e. %LOCALCONTENT%/index.htm

Or %LOCALSTORAGE%/myfolder/index.htm (please see [parameter](#)).

For more information on file paths please see our [Default Storage Location guide](#)

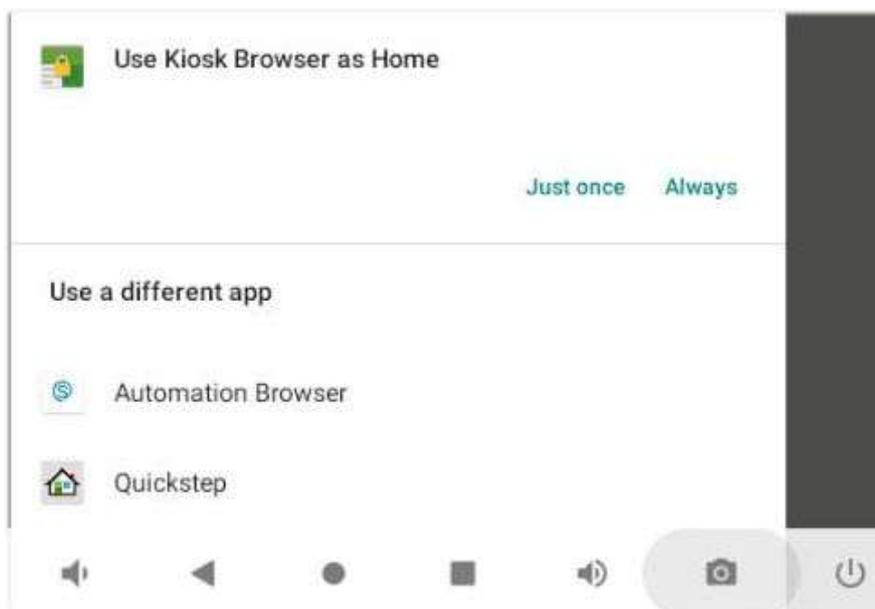
1.4. Set Kiosk Browser to start on boot

Kiosk Browser is designed to replace the default launcher on the device, once set as the default it can only be unset by entering the device admin password. As all Android devices have the potential to behave differently we do not suggest you set Kiosk Browser as the default launcher until you have tested gaining access to the settings screen

If you are receiving the "set default" screen at startup then you must be aware of the following:

Turning off/rebooting the device by tapping "Exit to launcher" this will always cause this behaviour, it is by design. To turn off/reboot the device you should tap [Settings](#), enter the password and then power the device off as normal.

If you want your end users to be able to reboot the device please see [Power off or Reboot](#).



1.5. Bookmarks Bar

In certain scenarios you may wish to provide easy access to a number of websites as well as the default homepage, this is where the bookmarks feature is useful. It provides a side menu where the end user can tap a website from a predefined list of websites. The bookmarks bar is automatically closed if still open after 40 seconds.

Setup Bookmarks

There are two settings to control how websites appear in the list of bookmarks. The first is **Settings > Toolbar > Bookmarks**. This controls the URLs shown in the list. Separate each URL with a comma.

Settings > Toolbar > Bookmark Names. This controls the "friendly" names shown in the bar, if not specified the URLs will be used as names instead. Separate each name with a comma.

You can also use **Settings > Toolbar > Bookmarks Title** to change the header on the bookmarks bar (default wording is *Bookmarks*).

Example:

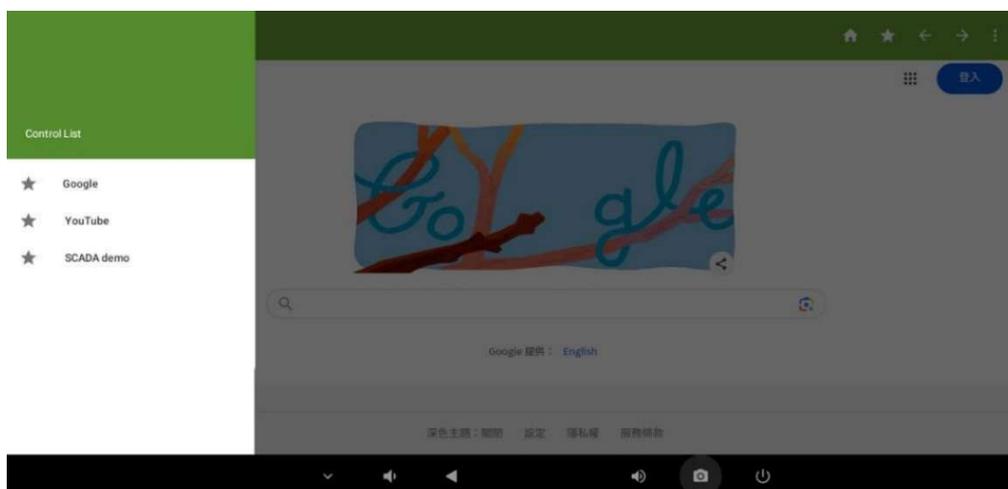
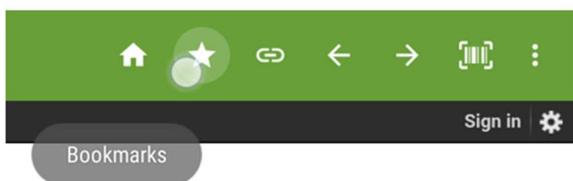
Bookmarks: <http://www.google.com/images>, <http://www.youtube.com>, https://www.genlogic.com/html5_demos/process_demo_full.html

Bookmark Names: Google, Youtube, SCADA demo

Bookmark Title: Control List

How to access bookmarks

You can access bookmarks in the main interface by turning on **Settings > Toolbar > Bookmarks Icon**. This will display an extra icon on the toolbar as per below:



1.6. Toolbar Buttons & Their Functions

In order to customise the user experience within Kiosk Browser, you can ensure that only the relevant buttons are displayed on the toolbar.



All buttons can be added and removed within the **Settings > Toolbar** menu as below.

App Icon (enabled by default)

When enabled, this will reload the home page. You can disable this behaviour using the option under **Settings > Toolbar > App Icon Reloads Home Page**

The app icon can be removed by enabling the setting **Settings > Toolbar > Custom App Icon** and ensuring that there isn't a custom icon file stored on the device under `/DEFAULTSTORAGE/kioskbrowser/customicon.png`

Home Icon

When enabled, this button will load the home page.

Settings > Toolbar > Home Icon

Refresh Icon

The refresh button will refresh the current URL.

Settings > Toolbar > Refresh Icon

Bookmarks Icon

This will open the bookmarks bar and display any bookmarks you have stored.

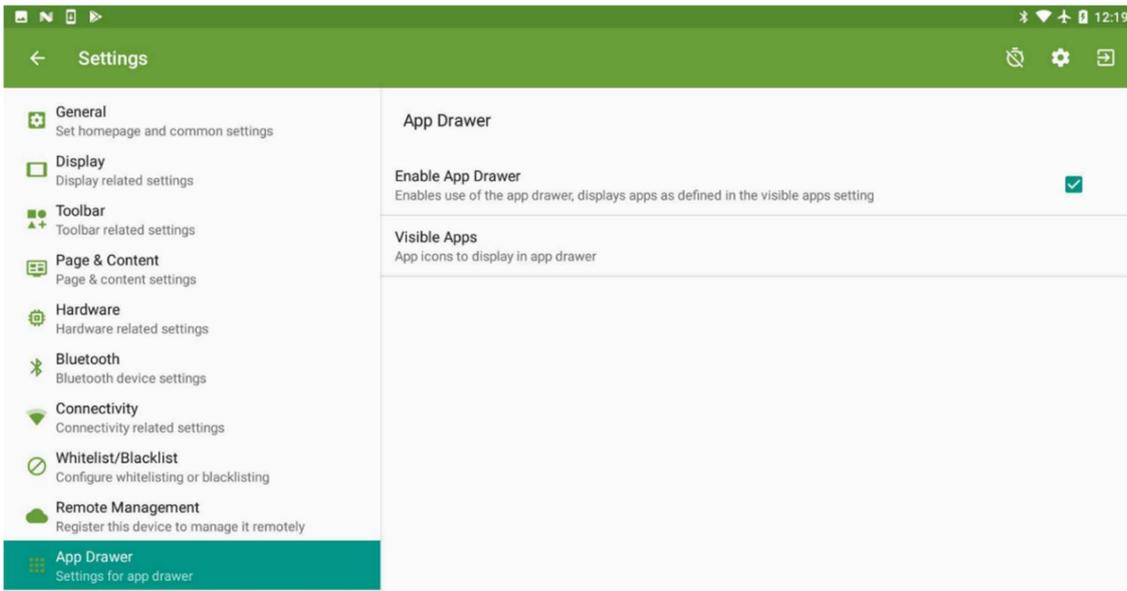
Settings > Toolbar > Bookmarks Icon

App Drawer Icon

Opens the app drawer and displays any apps that you have enabled.

Settings > Toolbar > App Drawer Icon

Any applications you would like to be displayed in the app drawer, must be enabled under **Settings > App Drawer > Visible Apps** and the Enable App Drawer option switched on.



Back Icon

Loads the previous page.

Settings > Toolbar > Back Icon

Forward Icon

Loads the next page.

Browser Controls

The *Home*, *Refresh*, *Back* and *Forward* buttons can be removed from the toolbar as a group, using the Browser Controls option.

Settings > Toolbar > Browser Controls

Camera Icon

Opens the default camera within Kiosk Browser

Settings > Toolbar > Camera Icon

Barcode Scanner Icon

Opens the barcode scanner within Kiosk Browser.

Settings > Toolbar > Barcode Scanner Icon

Show Print Menu Icon

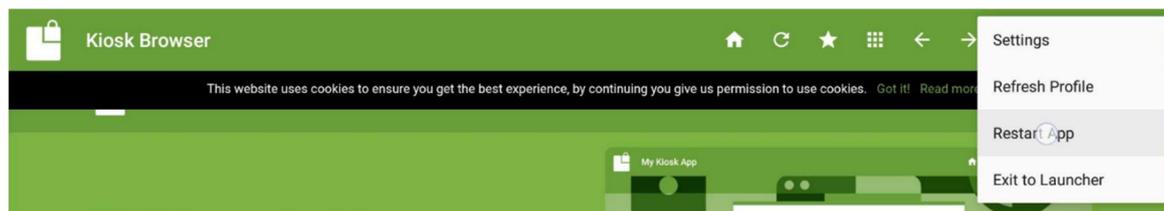
Opens the Google Cloud Print menu.

Settings > Toolbar > Show Print Menu Item

Show Restart App

This will include the Restart App option within the overflow menu.

Settings > Toolbar > Show Restart App



Hide Overflow Menu Items

The overflow menu is enabled by default. By hiding the overflow menu you will need to access settings and exit to launcher by using the multi-tap method.

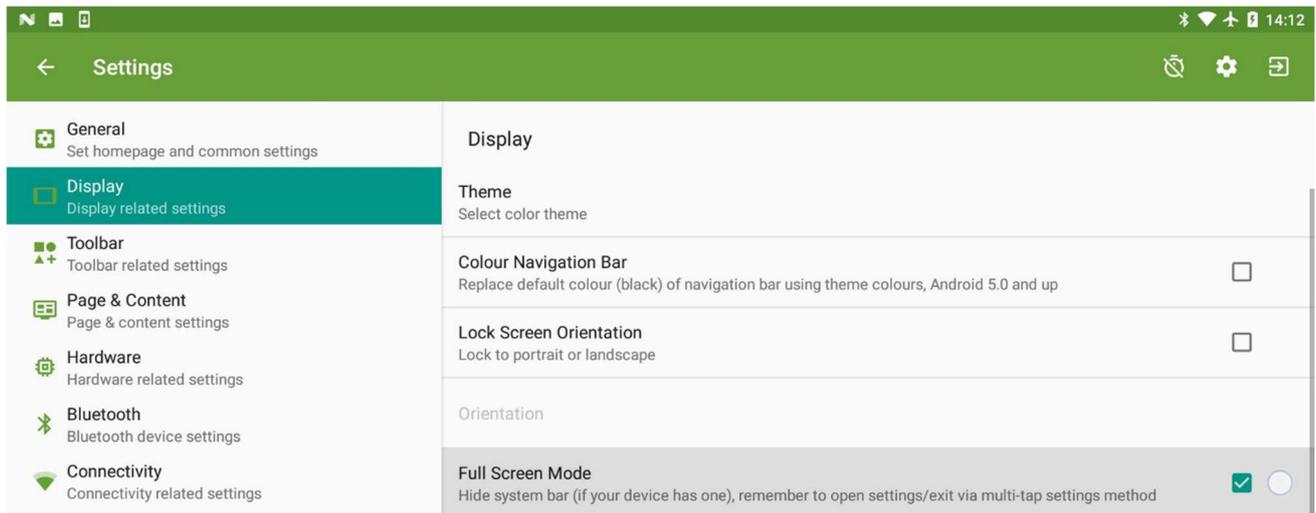
Settings > Toolbar > Hide Overflow Menu Items

1.7. Full Screen Mode & Hiding the Toolbar

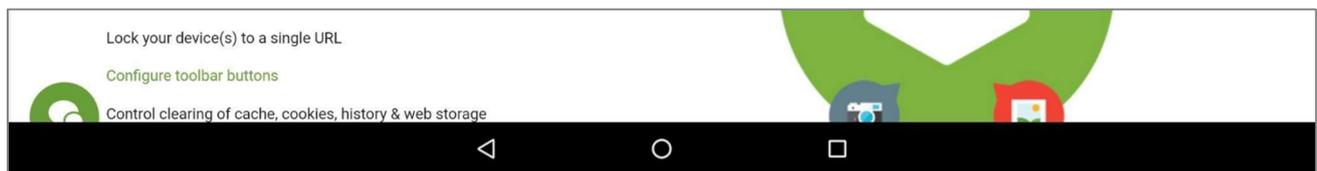
View content in full screen mode, removing the Navigation Bar and the Toolbar.

Full Screen Mode

You can hide the bottom bar (known as the Navigation or System Bar) using the full screen setting - **Settings > Display > Full Screen Mode**, which is known as immersive mode (image 1 below).



System Bar shown below displays the back, home and recent items menu buttons.



Same page shown below with System Bar removed, allowing more page content to be displayed on the device.



Note: that the system bar / navigation bar cannot be permanently hidden and will always reappear on swipe up. This is a feature by design (in Android), and cannot be changed.

Hiding the Toolbar

The Toolbar can also be hidden, which will prevent access to Kiosk Browser settings unless swipe down is enabled. If swipe down is disabled, then settings can be accessed by via the [multi tap](#) method.

The setting can be changed via **Settings > Toolbar > Always Hide Toolbar**.

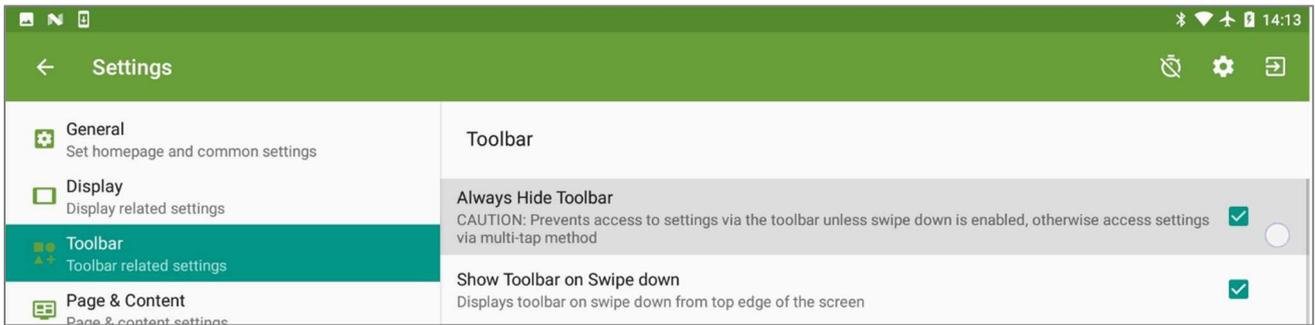
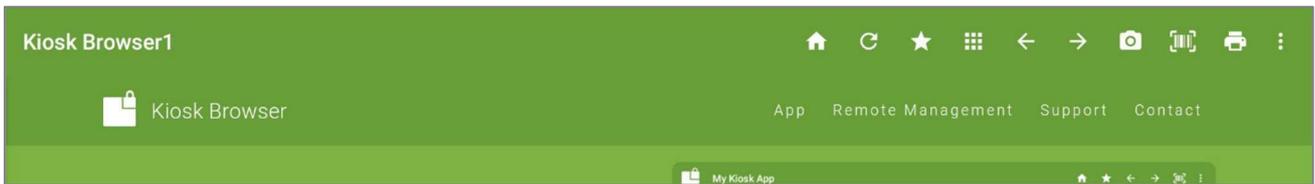
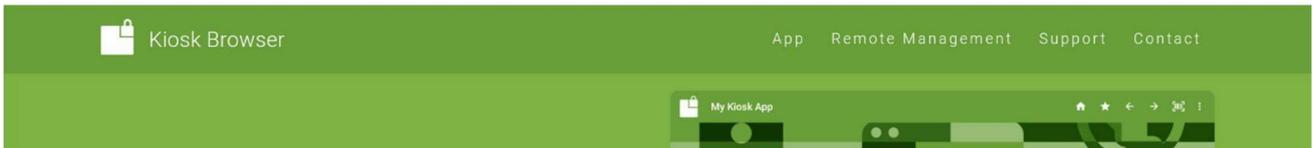


Image below shows the Toolbar enabled, containing any buttons that have been enabled within the [toolbar menu](#), such as Camera, Bookmarks and Print.



The following image shows the same webpage with the Toolbar disabled / hidden.

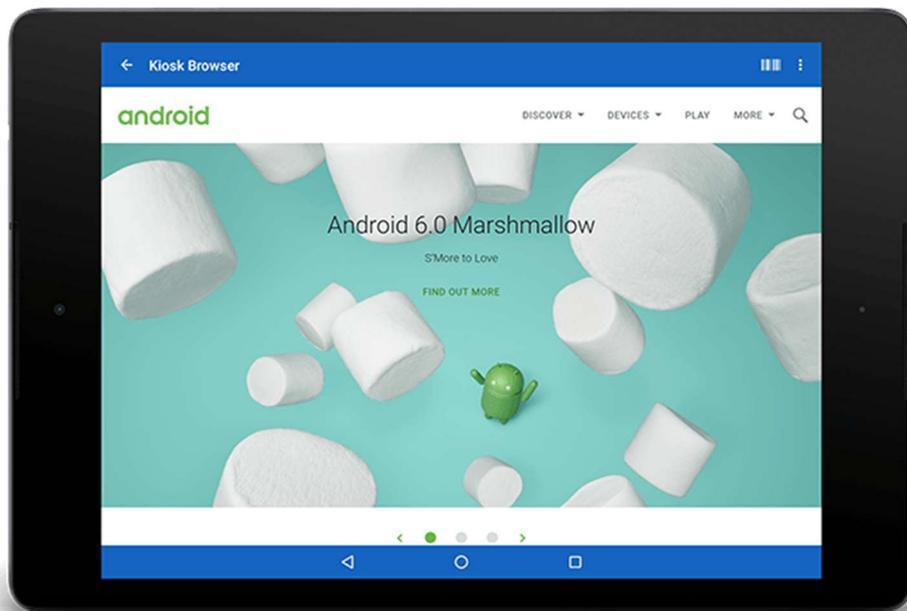
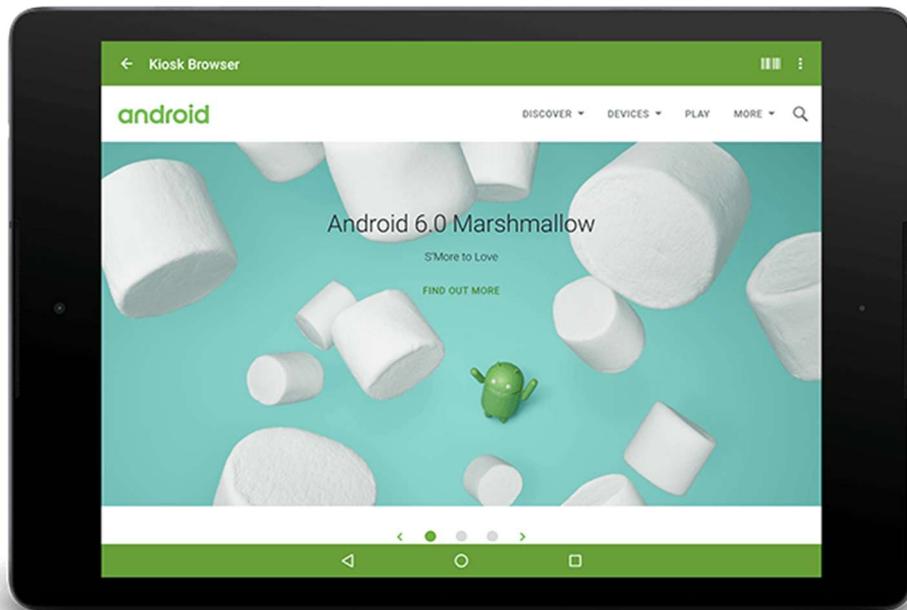


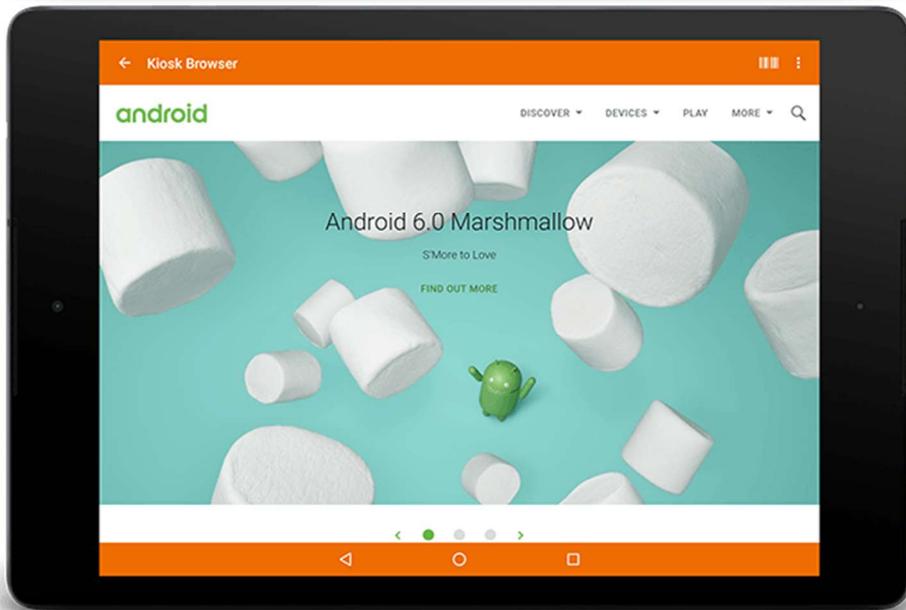
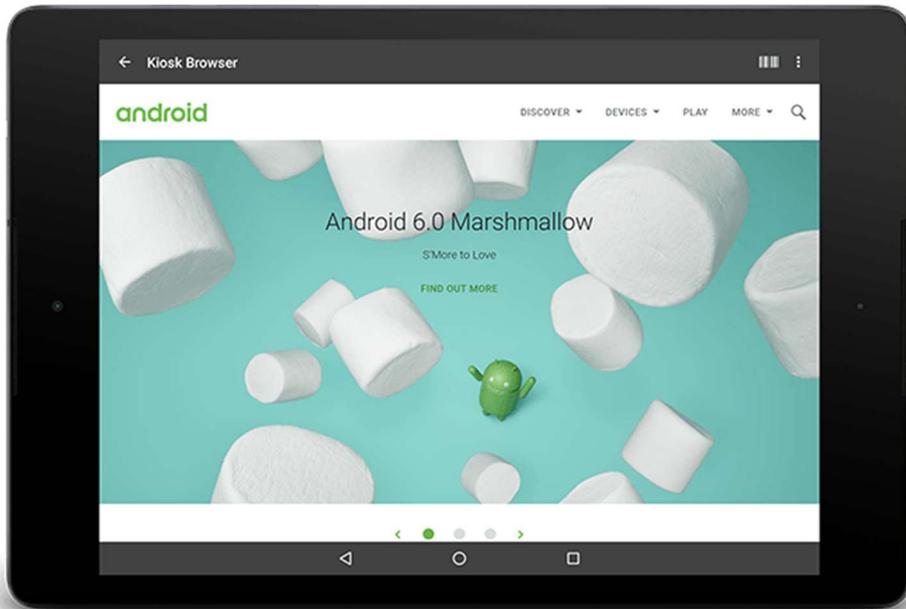
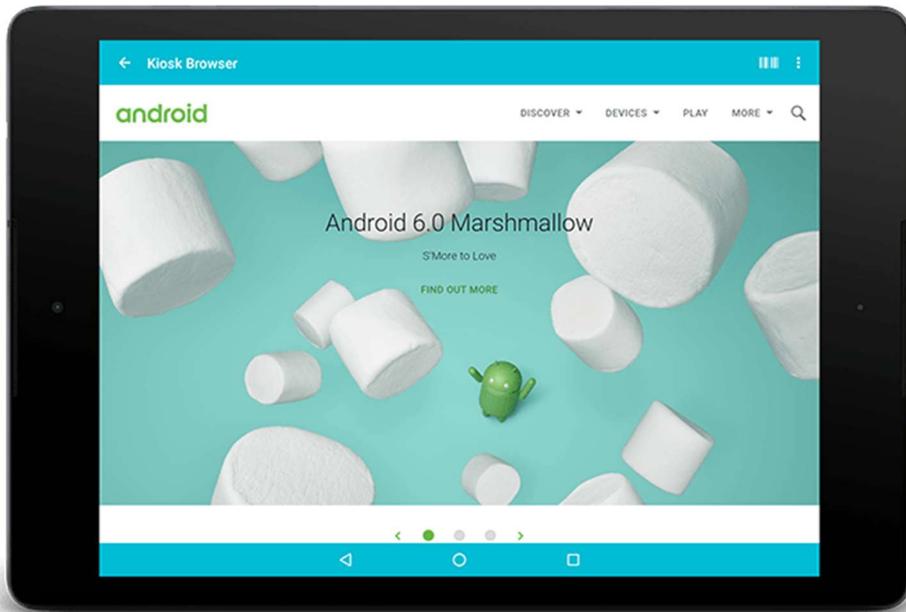
Information on accessing settings can be found via this [link](#).

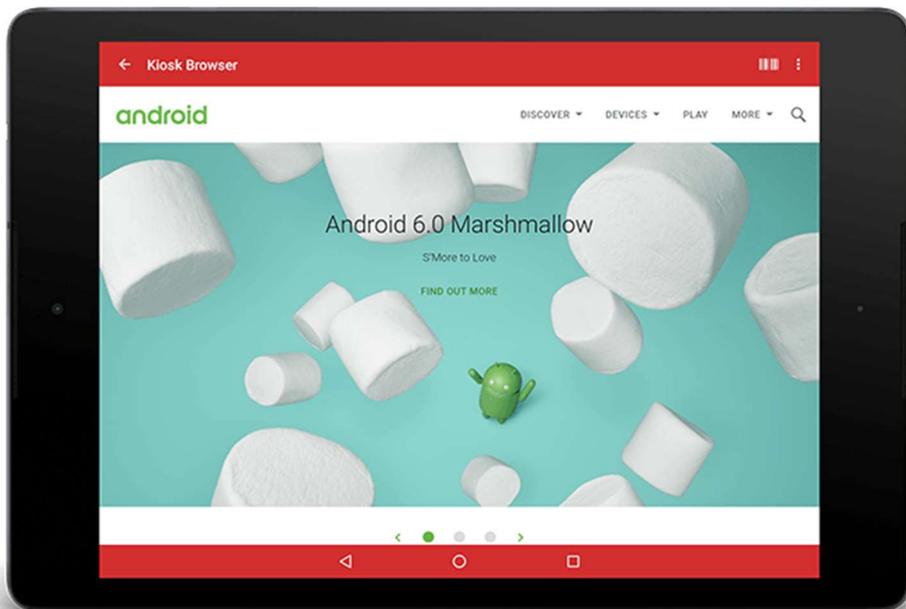
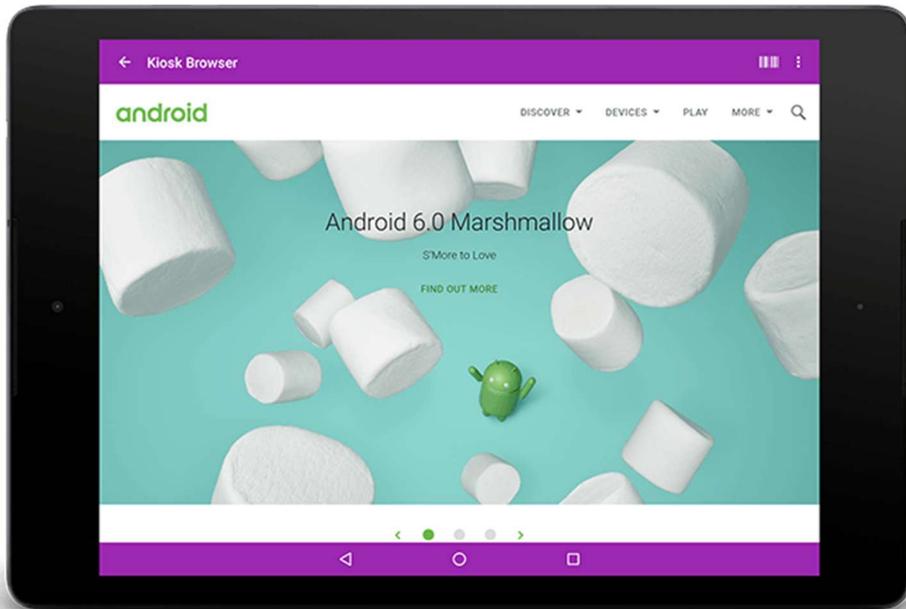
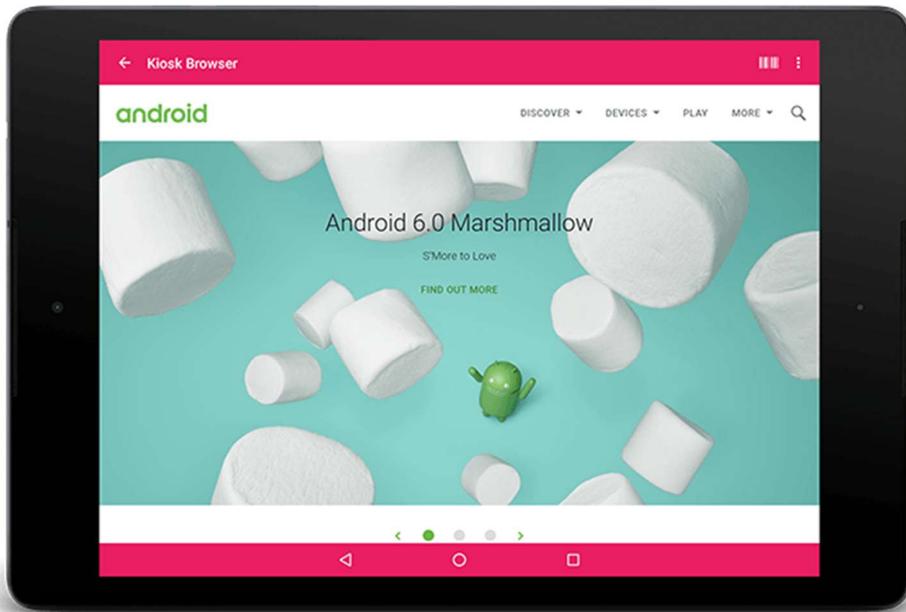
1.8. Themes

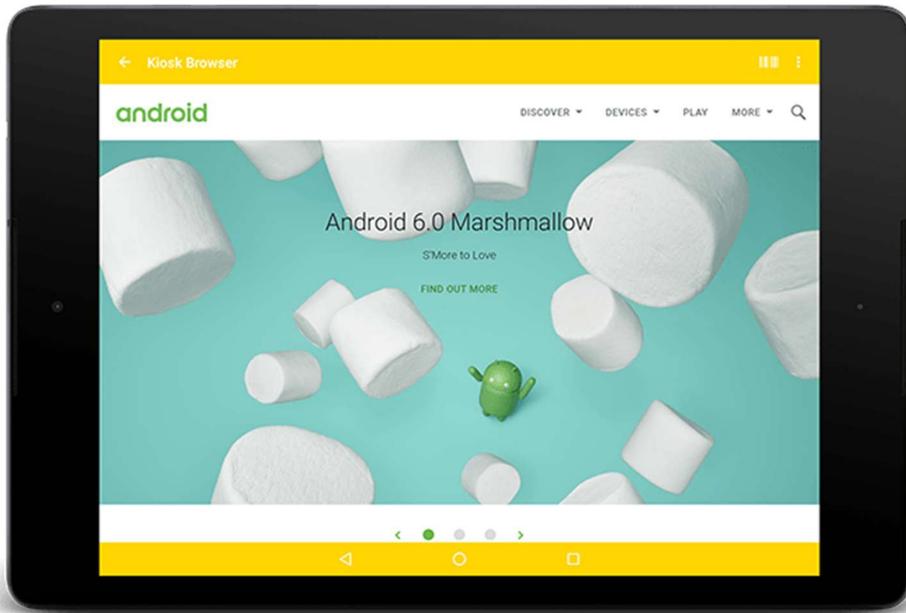
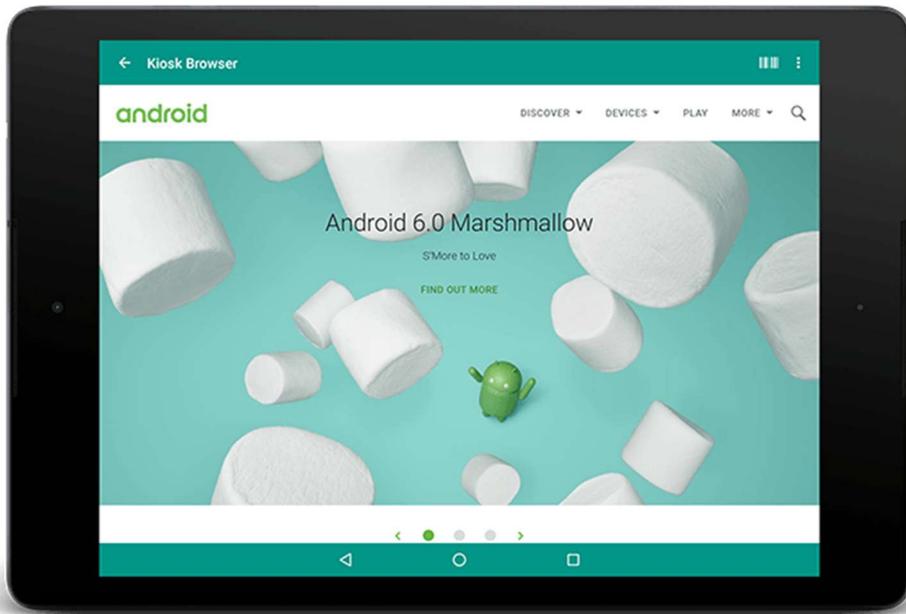
To switch themes, go to **Settings > Display > Theme** and select a colour.

You can also choose to colour the **navigation bar** according to the theme by enabling **Colour Navigation Bar** under **Settings > Display**.





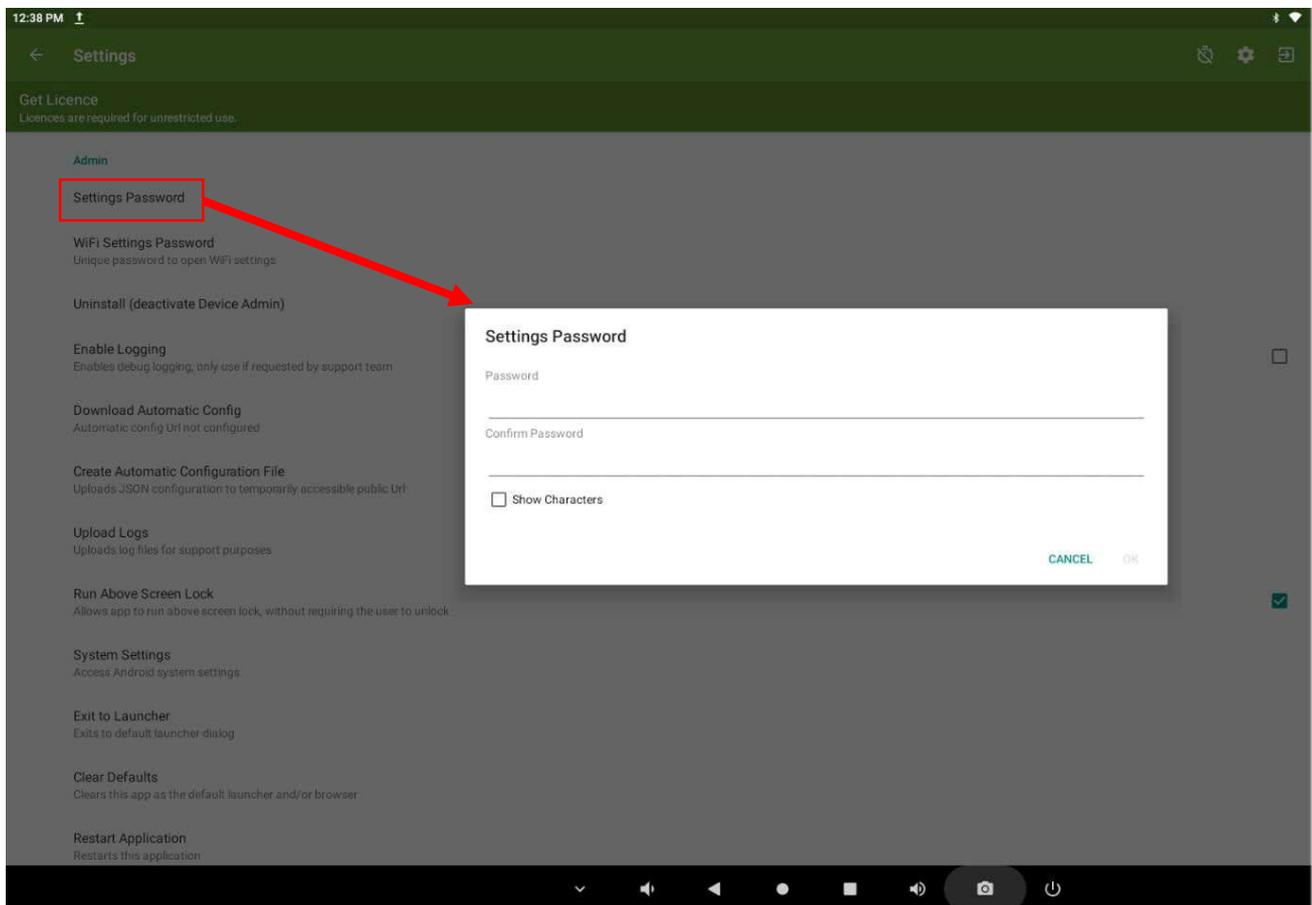




1.9. Setting Password

By default, Kiosk Browser sets the password to 0000 (zero zero zero zero).

To set a new password, go to **Settings > Admin > tick Setting Password**. Then enter your password as below



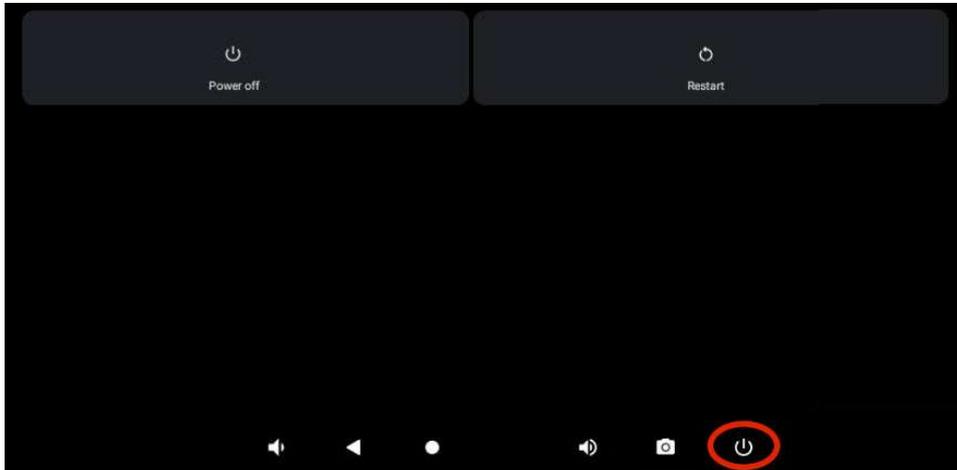
Forgot the Password

We appreciate passwords get forgotten when staff leave etc... but there are no backdoors in Kiosk Browser as this would create a security risk.

You will need to factory reset your device according to the manufacturers manual and setup Kiosk Browser from scratch.

1.10. Power Off or Reboot

By default, Kiosk Browser **disables** access to all system menus and dialogs, so when you press the power button on the **navigation bar** nothing will happen. If you want to turn off the power, you can do

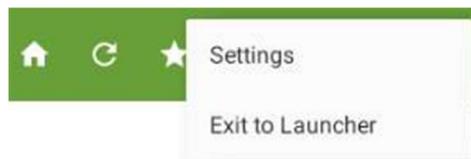


Method 1

You can disable this feature under **Settings > Advanced > Hide System Dialogs**. This will allow the device to be powered down without exiting Kiosk Browser.

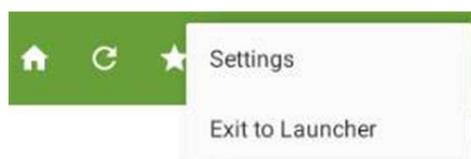
Methods 2

Press  and select Settings. From Settings you can press the **Power** button on the **navigation bar** to power off the device



Methods 3

Press  and select Exit to Launcher. Once you are at the Android default launcher, you can press the **Power** button on the **navigation bar** to power off the device



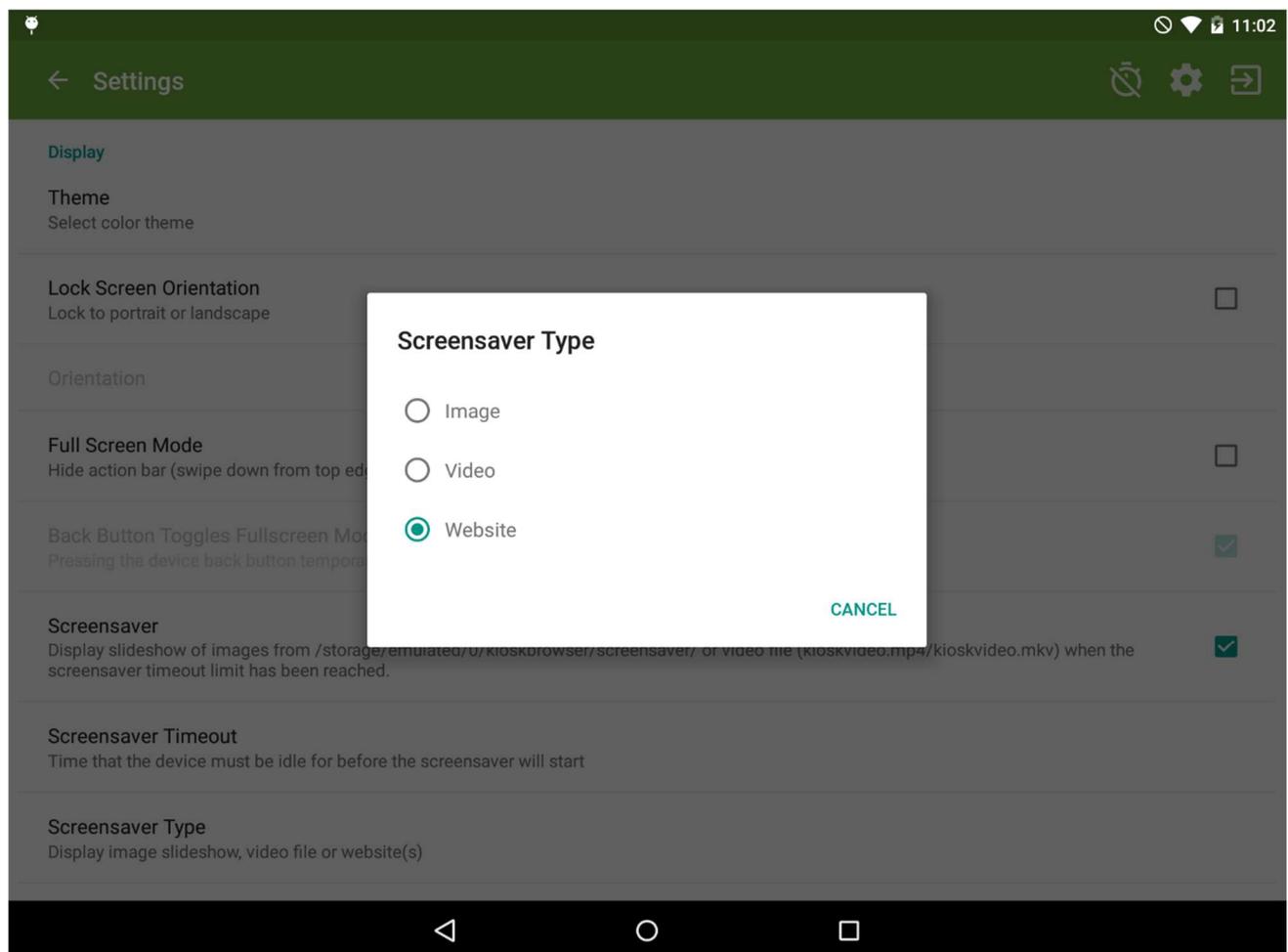
2. Advanced Setup

2.1. Screensaver

There are three types of screensaver that can be used within Kiosk Browser. The screensaver function is activated when the device has been idle for a specified amount of time (default is 5 minutes).

To enable, go to **Settings > Display > tick Screensaver**. To change the timeout from the default tap "Screensaver Timeout" and select the timeout you require.

To select the screensaver type tap **Screensaver Type**.



Image

This plays a slideshow of images (JPG/PNG) stored in the screensaver [folder](#). By default the image will change every 45 seconds. To change the default just tap **Slide Delay** and select the value you require.

By default, images will display in the order they are stored on the filesystem i.e. 1.jpg, 2.jpg, 3.jpg etc... If you wish to randomize the order which images are displayed, use the setting **Randomise Screensaver Images**.

You will need to use a file manager/explorer in order to place images in the relevant directory.

Video

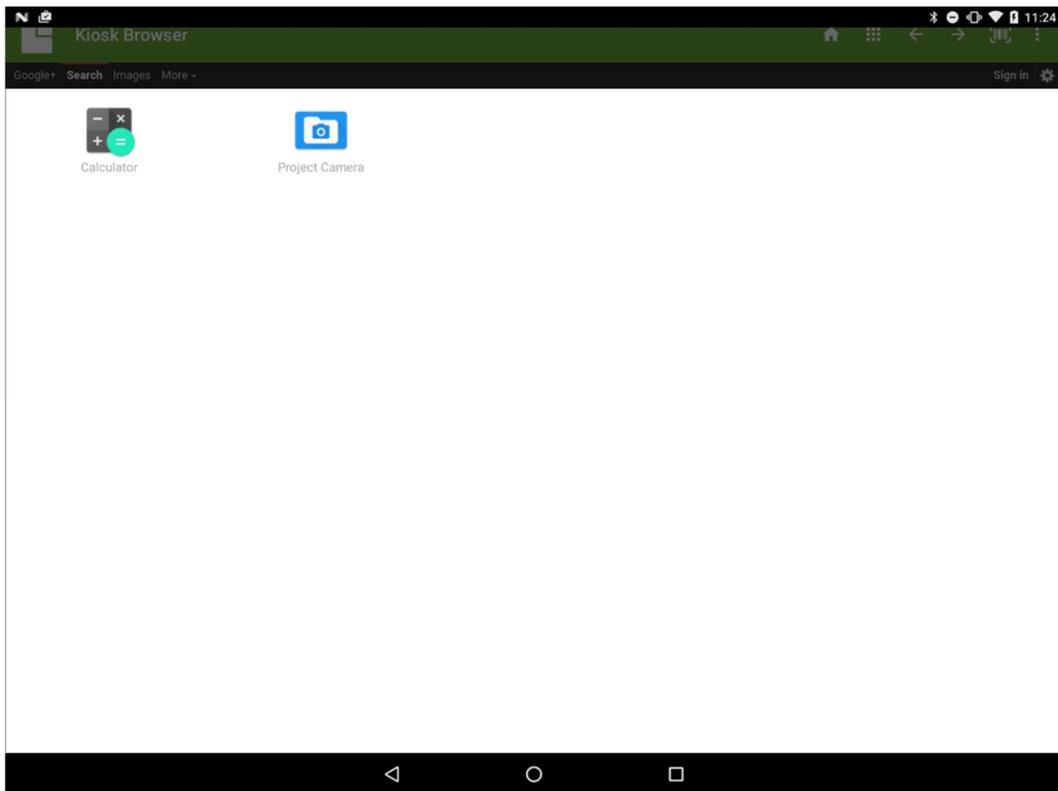
This plays one video file on loop, it supports either MKV or MP4 formats. Place a file named **kioskvideo.mp4** or **kioskvideo.mkv** in the screensaver [folder](#).

Website

This allows you to display a website or multiple websites in a slideshow format. Just enter a URL or multiple URLs by tapping the **Screensaver URLs** setting. Remember to use one of the following prefixes [http://](#), [https://](#) or [file://](#). When entering multiple URLs remember to separate each one with a comma i.e. [http://www.youtube.com,http://www.google.com](#)

2.2. App Drawer

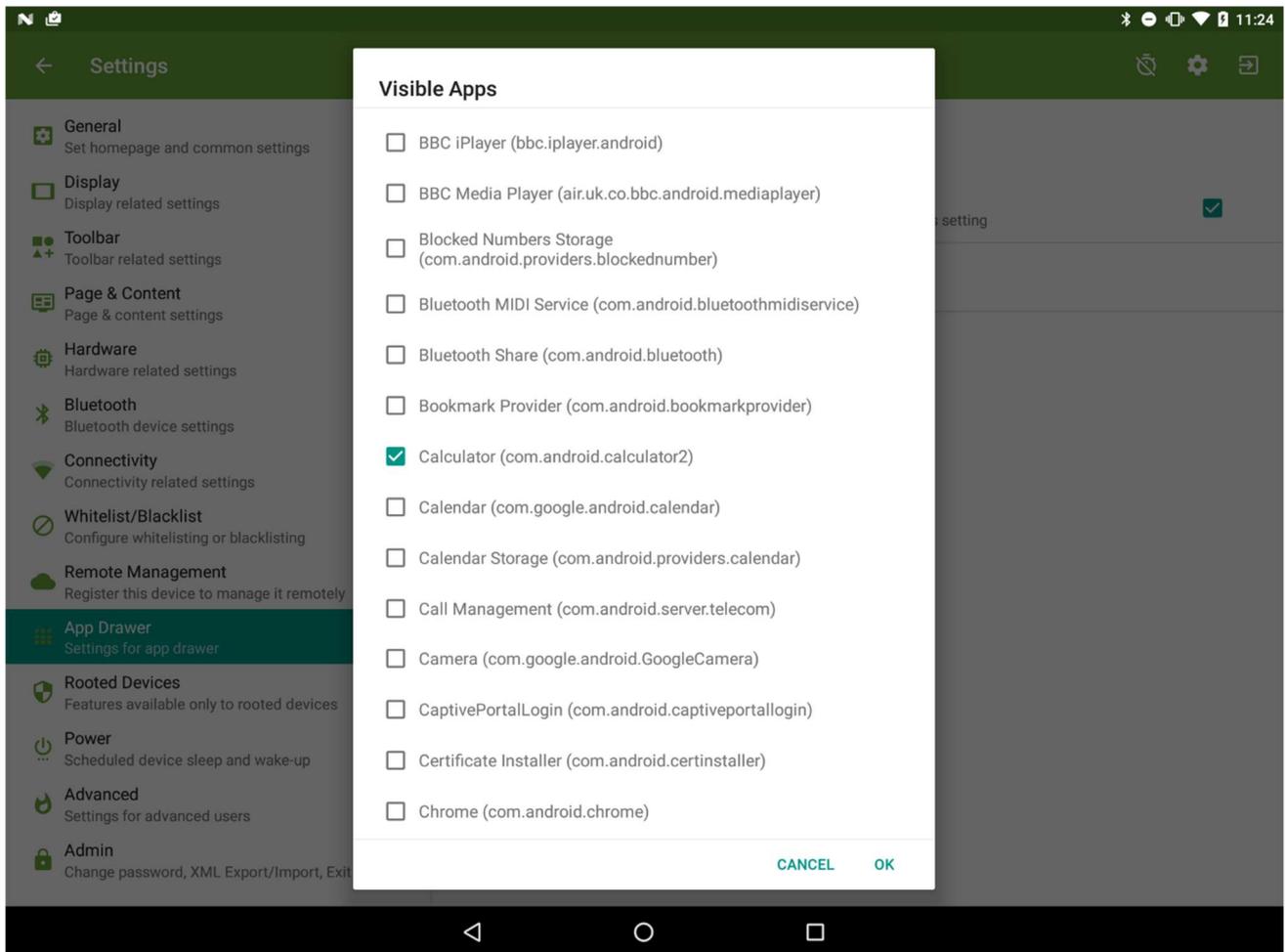
In certain scenarios you may wish to provide easy access to a small number of applications already installed on the device, this is where the app drawer feature is useful. It provides a bottom drawer where the end user can tap an app icon from a predefined list.



Enable App Drawer

In order to use the app drawer it first must be enabled under **Settings > App Drawer > Enable App Drawer**.

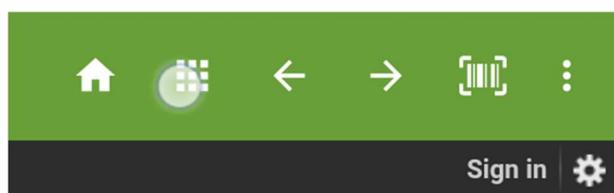
To control which applications are shown in the drawer you can use the **Visible Apps** setting (**Settings > App Drawer > Visible Apps**) which you can select an unlimited number of apps from.



How to access the app drawer

You can access the app drawer in the main interface by turning on **Settings > Toolbar > App Drawer Icon**

This will display an extra icon on the toolbar as per below:

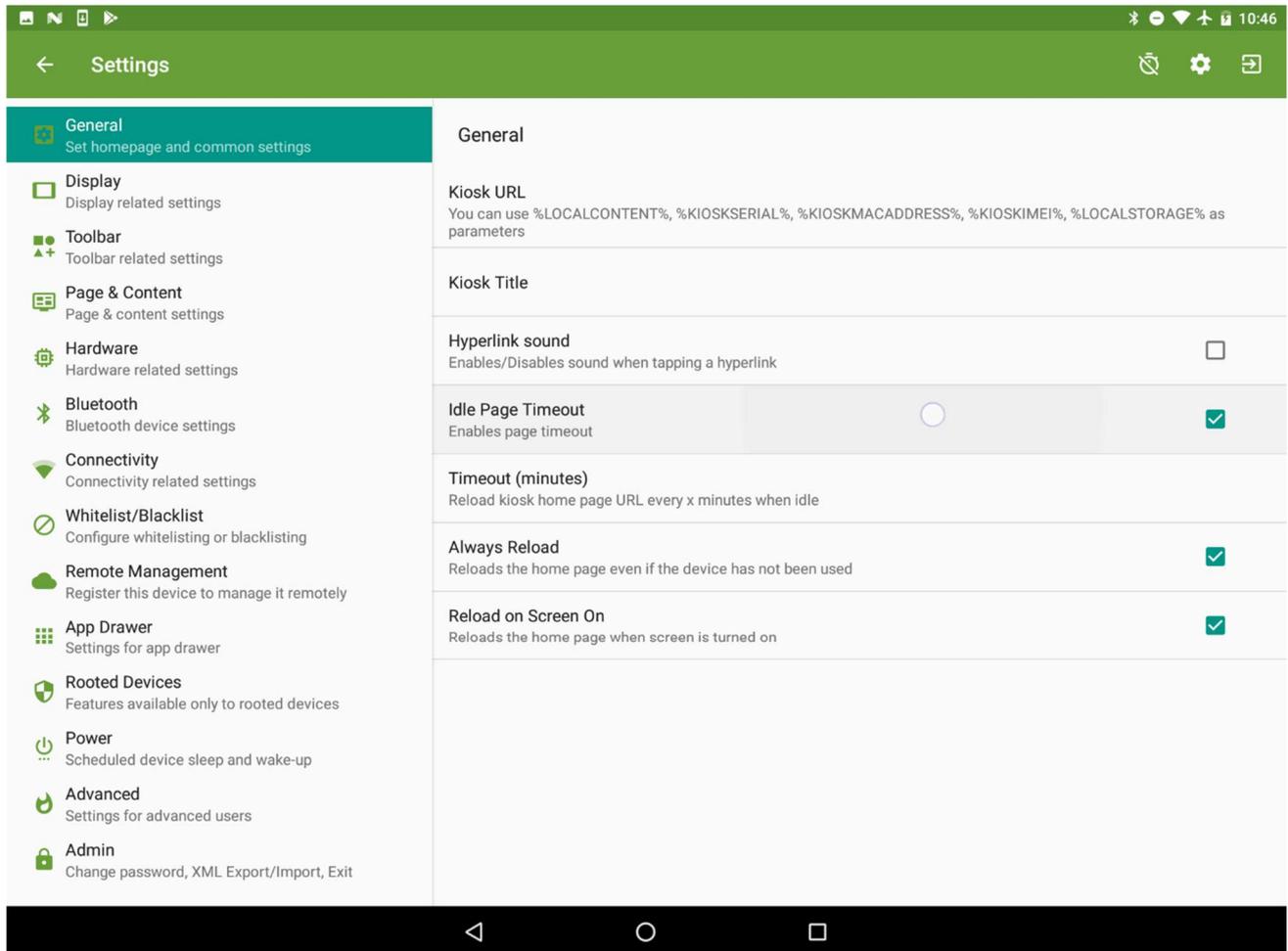


2.3. Automatic Page Reload Options

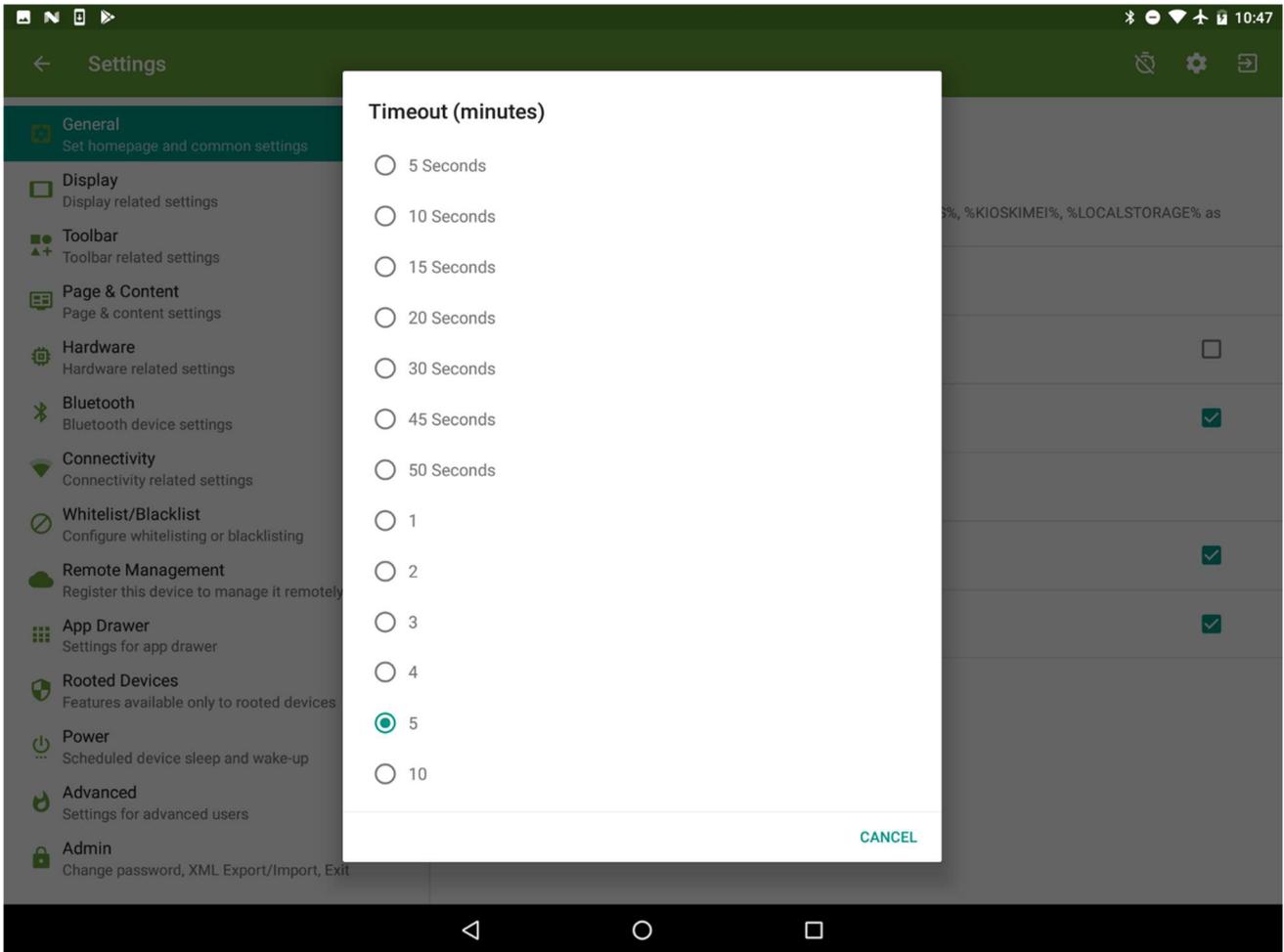
Enabling Automatic Page Reloads

The Idle Page Timeout setting allows you to force the home page URL to be reloaded after a set period of time, when the device is idle.

This option can be found under **Settings > General > Idle Page Timeout**.



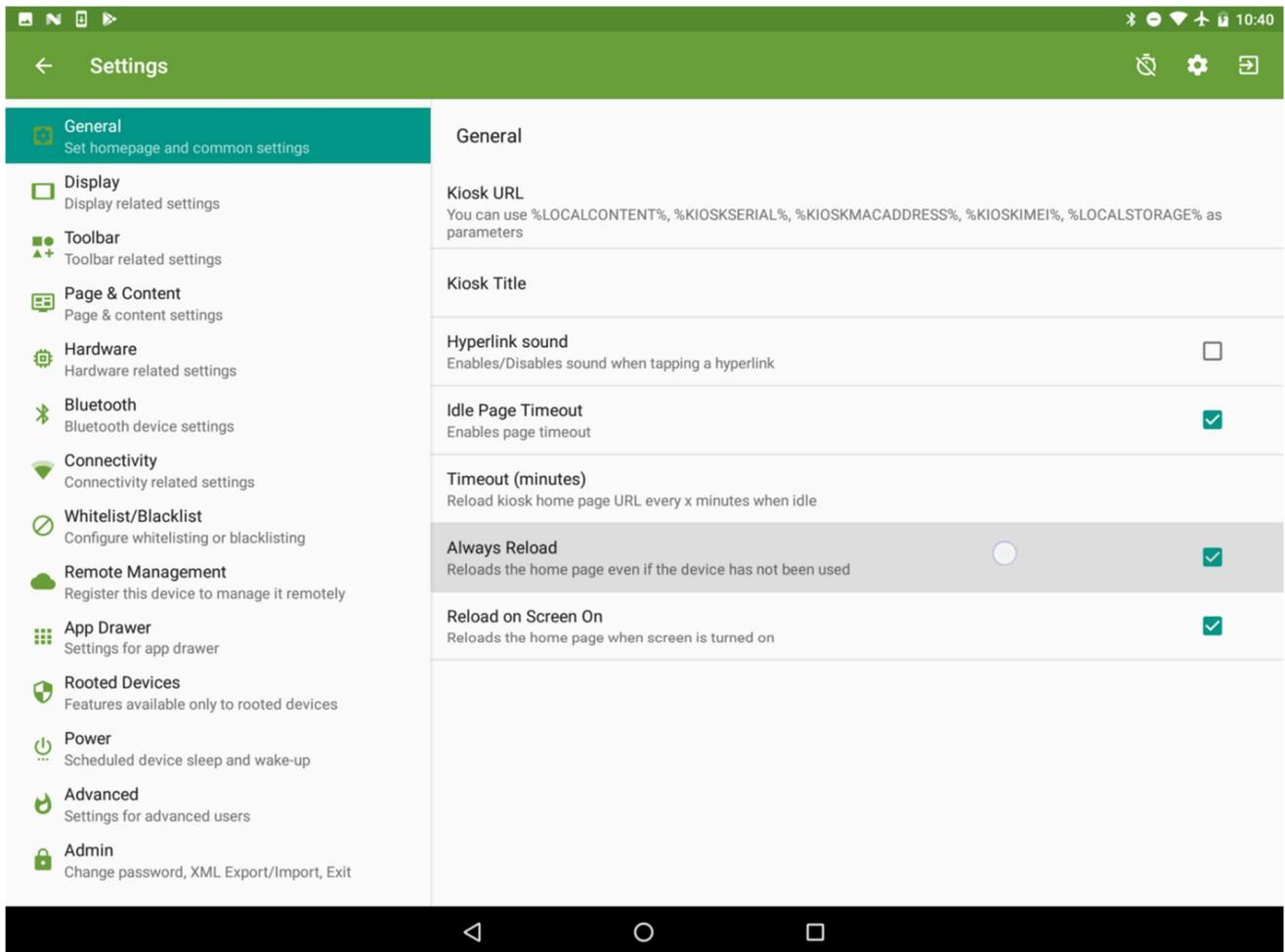
Upon enabling this Idle Page Timeout, you should also select the timeout duration in the next menu **Settings > General > Timeout (Minutes)** If the timeout duration is not changed after the option is enabled then it will remain at the default idle timeout of 5 minutes.



Settings > General > Always Reload

If this option is enabled it will force the home page URL to be reloaded every X minutes (depending on the timeout minutes set), even if the device has not been touched.

If this option is disabled then the home URL will only reload once, after the first X minutes of being idle.

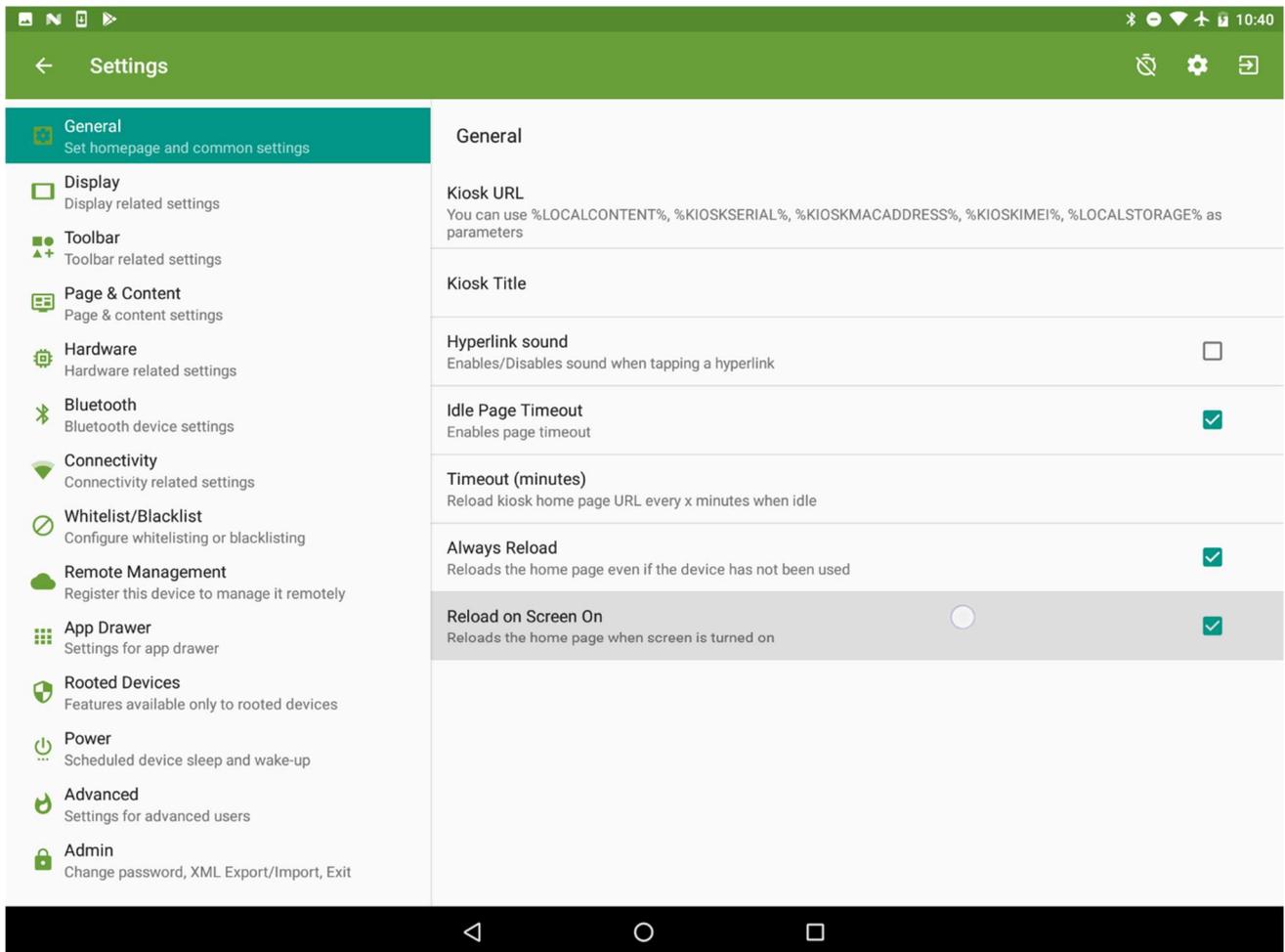


When using the Idle Page Timeout, it is also advisable to pay attention to the settings for managing the [cache, cookies & form data](#). As the longer the timeout duration is, the more likely it is the next user may be able to see information entered into forms etc.

Settings > General > Reload on Screen On

With the setting enabled, this will reload the Kiosk URL home page when the screen is turned on.

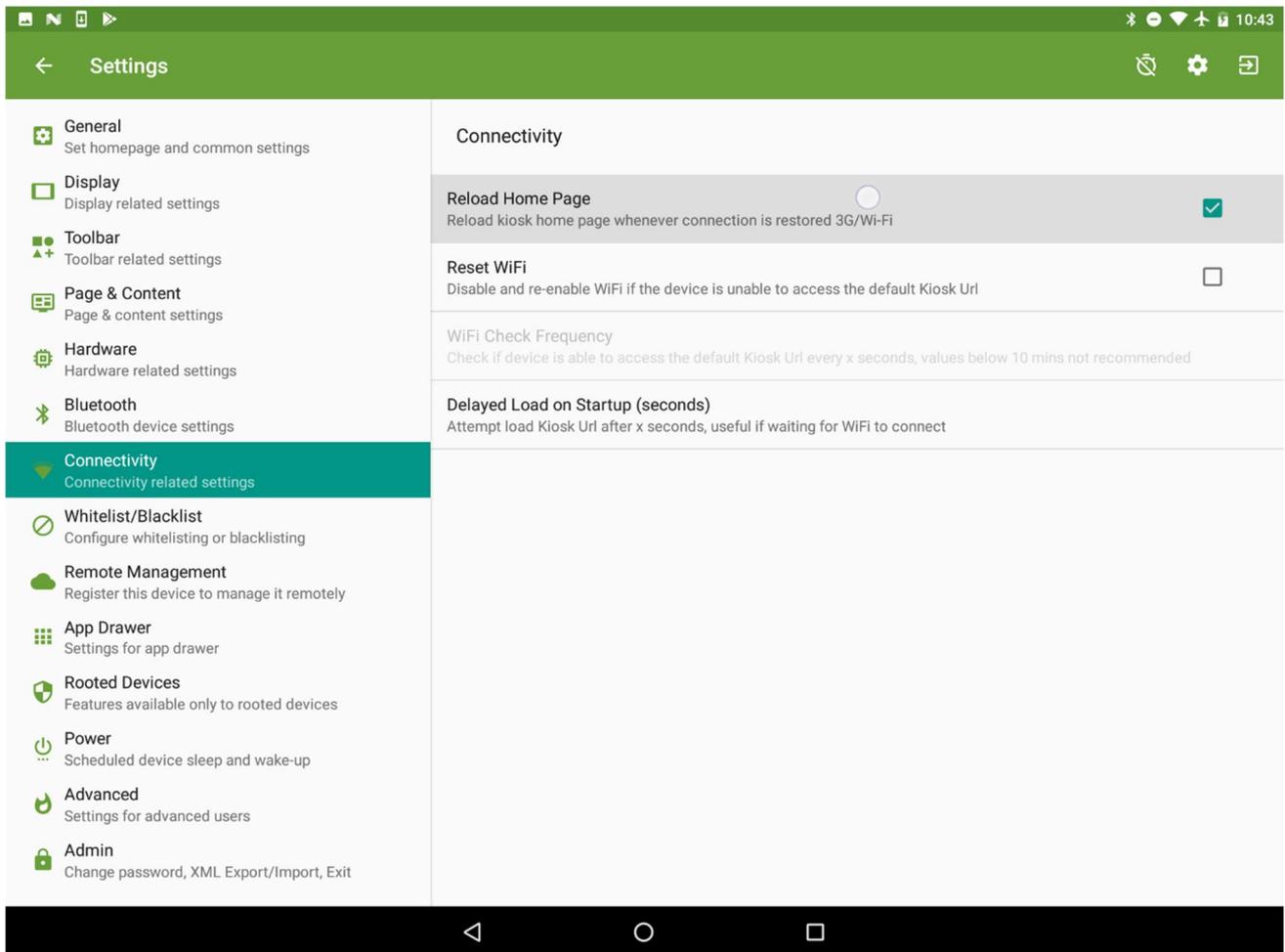
This setting can be used in conjunction with the [cache, cookies & form data](#) settings to ensure that certain data is cleared when the screen is turned on.



Settings > Connectivity > Reload on Network Connect (Reload Home Page)

When Reload Home Page under the Connectivity menu is enabled, this will reload the Kiosk Browser home page whenever the connection to Mobile Data (2G, 3G, 4G) / WiFi.

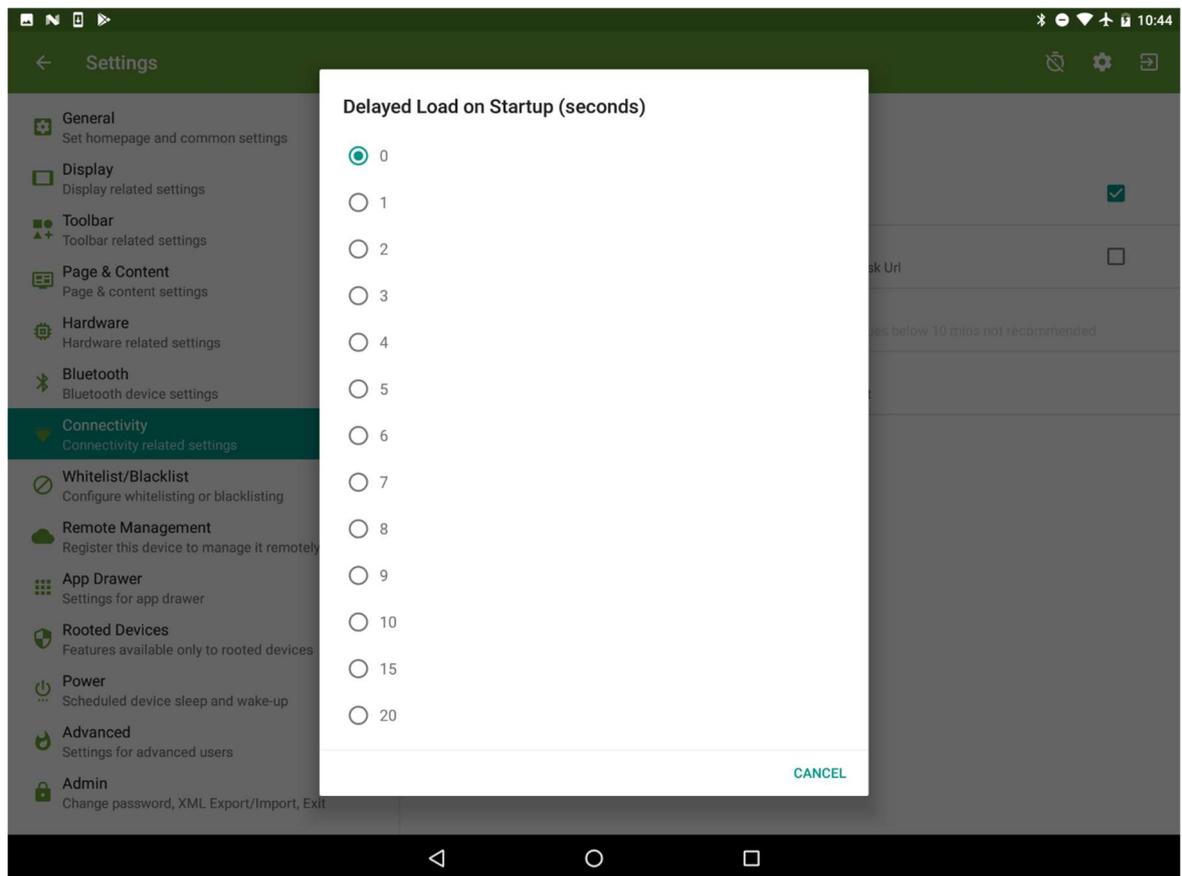
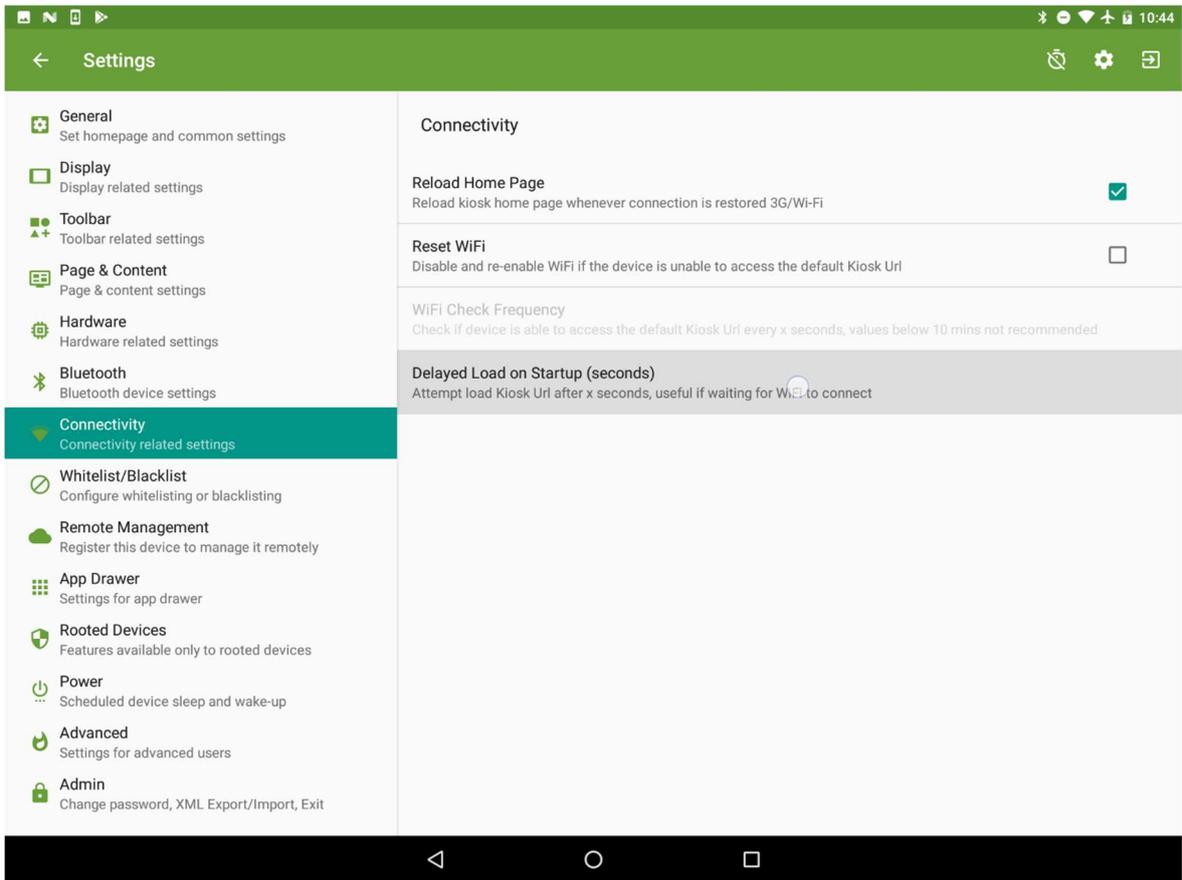
This setting can be used in conjunction with the [cache, cookies & form data](#) settings to ensure that certain data is cleared when the Internet connection is restored.



Settings > Connectivity > Delayed Load on Startup

This option will open a menu (as per images below) allowing you to delay the Kiosk URL from loading for up to 120 seconds; which is useful if you're waiting for WiFi to connect at startup and may prevent the kiosk from displaying error pages.

If this setting is required in your environment, a minimum of 5 seconds delay is recommended, setting below 5 seconds will fail on most devices due to various system delays on device boot.



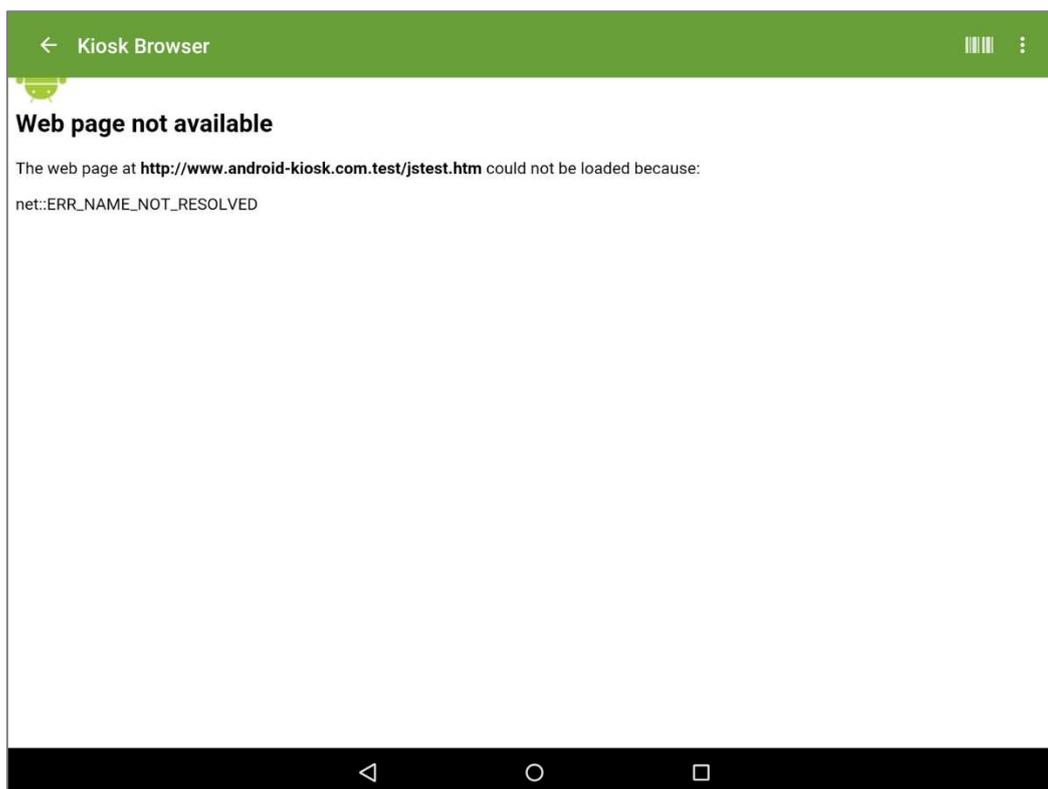
2.4. Custom Error & Access Denied Pages

Custom Error Page

By default when a page cannot be displayed (such as loss of internet connection) Kiosk Browser will automatically show the built in error page. In most scenarios this page is not user friendly (see example below).

To enable your own custom error page, place your HTML page in `kioskbrowser/errorpage/` as per our [storage location](#) and ensure the file is named `index.htm`. Enable **Custom Error Page** in settings.

This setting can be found in **Settings > Page & Content > Custom Error Page**.



Standard Error Page

Server Side Errors

Kiosk Browser supports handling of server side errors (code 400 or higher). You must have the custom error page setting turned on as well as **Settings > Page & Content > Redirect to Custom Error Page** to handle these errors. When a server side error is detected, the custom error page is loaded but it also includes a querystring parameter e.g. `?statusCode=404`. You can then handle the rest in your code.

```
<h1 id="statuscode"></h1>
<script>
```

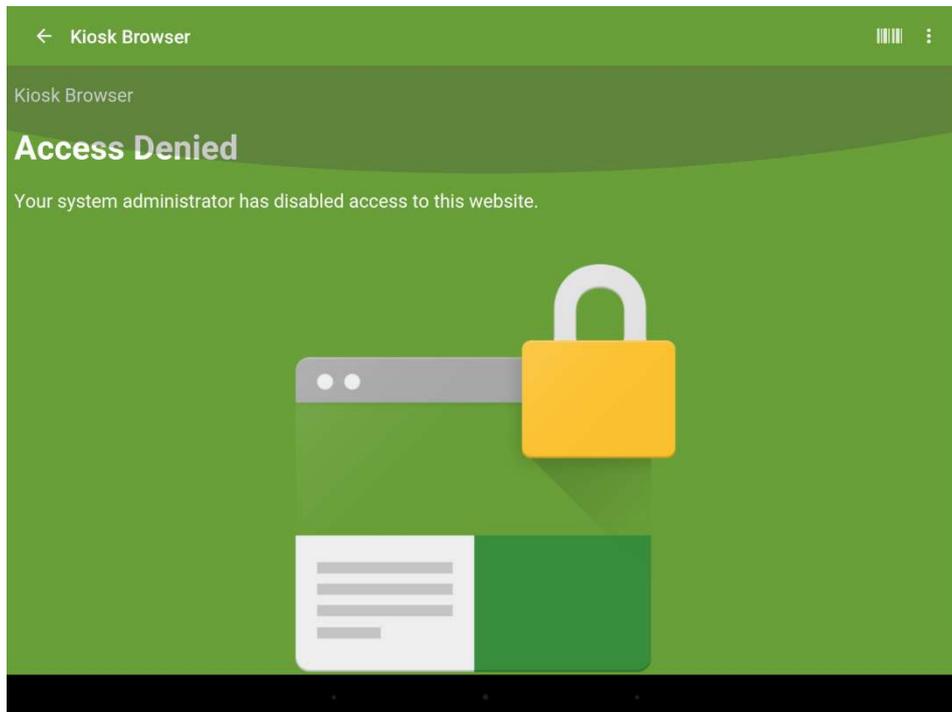
```
var statuscode = getUrlParameter('statuscode');
document.getElementById("statuscode").innerHTML = statuscode;
function getUrlParameter(name) {
    name = name.replace(/[\[]/, '\\[').replace(/[\]]/, '\\]');
    var regex = new RegExp('\\[?&' + name + '=([^\&#]*)');
    var results = regex.exec(location.search);
    return results === null ? '' : decodeURIComponent(results[1].replace(/\+/g, ' '));
};
</script>
```

Custom Access Denied Page

The standard access denied page is only displayed if you have the [Allow List](#) feature enabled and your end user attempts to access a page that is not in the Allow List (page sample below).

To enable your own custom access denied page, place your HTML page in `kioskbrowser/accessdenied/` as per our [storage location](#) and ensure the file is named `index.htm`. Enable **Custom Access Denied Page** in settings.

This setting can be found in **Settings > Page & Content > Custom Access Denied Page**.



Standard Access Denied Page

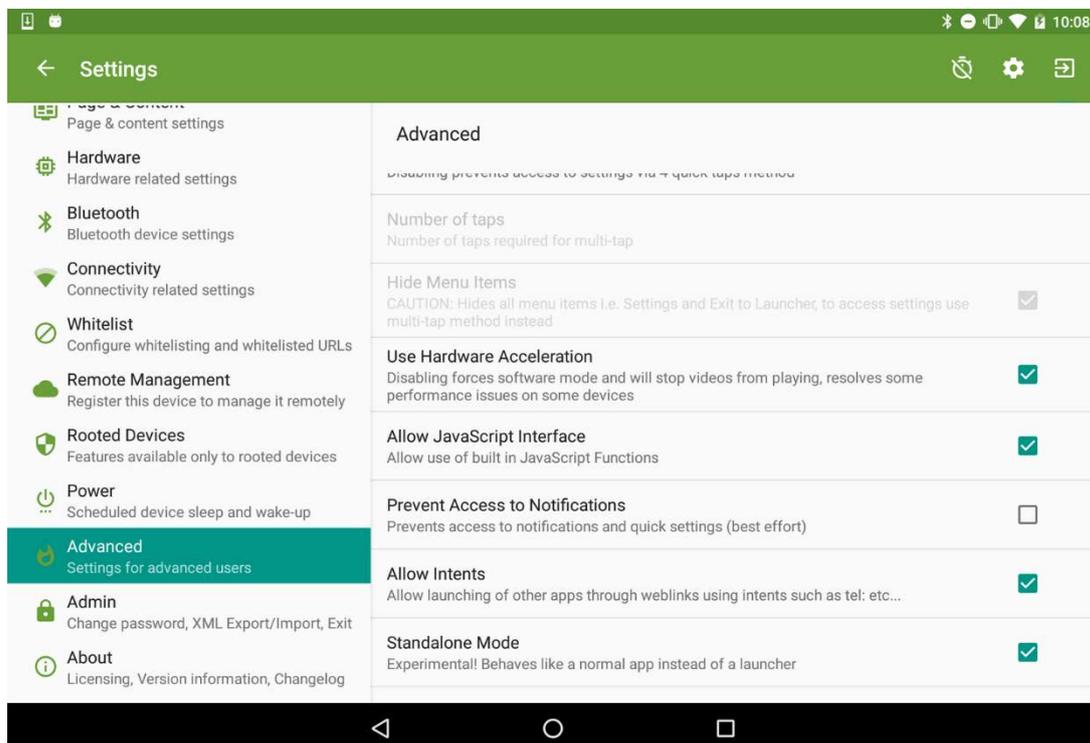
2.5. Standalone Mode

Standalone Mode

By default, Kiosk Browser behaves like a launcher, this means you can set it as the default and the user cannot exit the launcher without entering a password. This is ideal for environments where you wish to lock down the entire tablet interface, but what if you wish to just lock down the contents and behaviour of the browser for a very specific requirement? This is where **Standalone Mode** comes in.

You can enable by going to **Settings > Advanced > Standalone Mode**.

When enabled, Kiosk Browser will behave in the same way as any normal browser, when you want to exit Kiosk Browser you just press the home button on the device and it will return back to the default launcher which displays your app icons. When opening Kiosk Browser, it will launch just like any other application. The advantage of using Kiosk Browser over say Google Chrome is that you can still lock down all of the browser settings without preventing access to the rest of the tablet.



2.6. Allow List

The Allow List function (not to be confused with [Block List](#)) can be used to allow access to specified websites. For example, you may have the Kiosk homepage set as your company webpage but do not want end users tapping external links such as Facebook or Twitter.

By default, the Allow List is **disabled**.

To enable the Allow list:

Go to **Settings > Allow/Block List >** tap **Enable Allow List** (Kiosk Browser)

By default, access to the Kiosk homepage is automatically granted.

To enter allowed URLs tap **Allowed URLs**, remember to separate multiple websites with a comma.

Examples

All sub-domains:

Allow any URL containing: google.com

No sub-domains:

Allow any URL containing: www.google.com

Specific URL:

Allow any URL containing: <http://www.google.com/images>

Troubleshooting

If you have entered a very specific URL, it may be getting blocked because of a requirement to switch from <http://> to <https://> for example <http://google.com> automatically switches to <https://www.google.com>.

So if you allowed <http://google.com> you would also need to add <https://www.google.com> or just google.com would handle both.

Lots of websites redirect from domain.com to m.domain.com (or similar) when viewing from a mobile device, so you need to understand how the website redirects in such scenarios.

If you still can't understand which URL is blocked then turn on **Troubleshoot Allow/Block List**, this will display a message with the denied URL each time an attempt is made to load a page.

**General**

Set homepage and common settings

**Display**

Display related settings

**Toolbar**

Toolbar related settings

**Page & Content**

Page & content settings

**Hardware**

Hardware related settings

**Bluetooth**

Bluetooth device settings

**Connectivity**

Connectivity related settings

**Allow/Block List**

Configure allow or block lists

**Remote Management**

Register this device to manage it remotely

**App Drawer**

Settings for app drawer

**Rooted Devices**

Features available only to rooted devices

**Power**

Scheduled device sleep and wake-up

**Provisioned/Samsung Knox Devices**

Specific settings for provisioned or Samsung Knox enabled devices

**Advanced**

11:34

71%



Settings



Allow/Block List

Enable Allow List

Access specified URLs only (takes priority over block list)



Deny Kiosk Url

Denies access to Kiosk Url to allow more granular control via allowed urls setting



Allowed URLs (comma separated)

Allowed URLs (comma separated, do not specify www. unless you require an exact match)

Enable Block List

Deny specified URLs only



Blocked URLs (comma separated)

Blocked URLs (comma separated, do not specify www. unless you require an exact match)

Redirect to Home Page

Redirect to home page when URL is not in Allow List or URL is in Block List



Troubleshoot Allow/Block List

Displays toast message for each denied page (allow list) or allowed page (block list) to assist with troubleshooting.



Allow/Block List

Enable Allow List
Access specified URLs only (takes priority over block list)

Deny Kiosk Url
Denies access to Kiosk Url to allow more granular control via allowed urls setting

Allowed URLs (comma separated)
android.com,android-kiosk.com
CANCEL OK

Blocked URLs (comma separated)
Blocked URLs (comma separated, do not specify www, unless you require an exact match)

Redirect to Home Page
Redirect to home page when URL is not in Allow List or URL is in Block List

Troubleshoot Allow/Block List
Displays toast message for each denied page (allow list) or allowed page (block list) to assist with troubleshooting.



2.7. Block List

The Block List function (not to be confused with [Allow List](#)) can be used to block access to specified websites. For example, you may have the Kiosk homepage set as your company webpage with multiple external links such as Facebook, Twitter and Youtube. You may wish to permit access everything except youtube, this is far simpler with a Block List than an Allow List since you only need to specify one URL to block.

By default, the block list is **disabled**, if **Allow List** function is enabled, any block list settings are ignored.

To enable the block list:

Go to **Settings > Allow/Block List > Enable Block List** (Kiosk Browser). By default no sites are blocked when enabled.

To enter blocked URLs tap **Blocked URLs**, remember to separate multiple websites with a comma.

Examples

All sub-domains:

Deny any URL containing: google.com

No sub-domains:

Deny any URL containing: www.google.com

Specific URL:

Deny any URL containing: <http://www.google.com/images>

Troubleshooting

Lots of websites redirect from domain.com to m.domain.com (or similar) when viewing from a mobile device, so you need to understand how the website redirects in such scenarios in order to block list correctly.

If you still can't understand which URL is being allowed then turn on **Troubleshoot Allow/Block List**, this will display a message with the allowed URL each time an attempt is made to load a page.

Settings



General
Set homepage and common settings



Display
Display related settings



Toolbar
Toolbar related settings



Page & Content
Page & content settings



Hardware
Hardware related settings



Bluetooth
Bluetooth device settings



Connectivity
Connectivity related settings



Allow/Block List
Configure allow or block lists



Remote Management
Register this device to manage it remotely



App Drawer
Settings for app drawer



Rooted Devices
Features available only to rooted devices



Power
Scheduled device sleep and wake-up



Provisioned/Samsung Knox Devices
Specific settings for provisioned or Samsung Knox enabled devices



Advanced

Settings



Allow/Block List

Enable Allow List

Access specified URLs only (takes priority over block list)



Deny Kiosk Url

Denies access to Kiosk Url to allow more granular control via allowed urls setting



Allowed URLs (comma separated)

Allowed URLs (comma separated, do not specify www, unless you require an exact match)

Enable Block List

Deny specified URLs only



Blocked URLs (comma separated)

Blocked URLs (comma separated, do not specify www, unless you require an exact match)

Redirect to Home Page

Redirect to home page when URL is not in Allow List or URL is in Block List



Troubleshoot Allow/Block List

Displays toast message for each denied page (allow list) or allowed page (block list) to assist with troubleshooting.



11:33

71%

Settings

Allow/Block List

Enable Allow List

Access specified URLs only (takes priority over block list)



Deny Kiosk Url

Denies access to Kiosk Url to allow more granular control via allowed urls setting



Blocked URLs (comma separated)

youtube.com,google.com

CANCEL

OK

Blocked URLs (comma separated)

Blocked URLs (comma separated, do not specify www. unless you require an exact match)

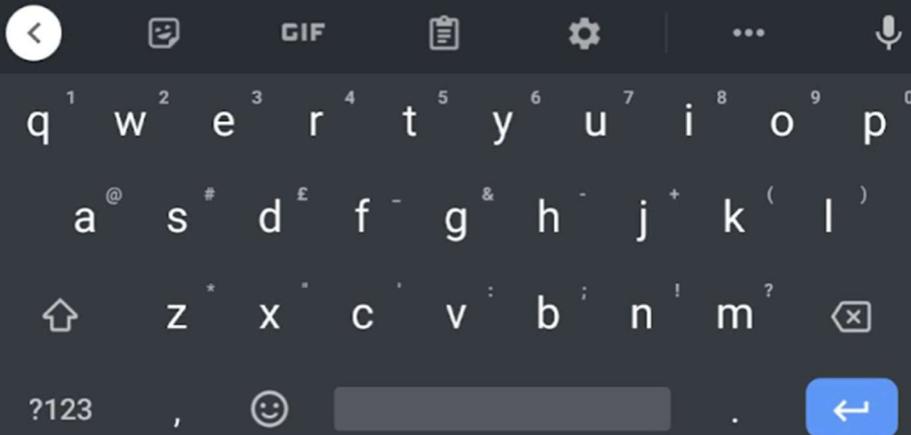
Redirect to Home Page

Redirect to home page when URL is not in Allow List or URL is in Block List



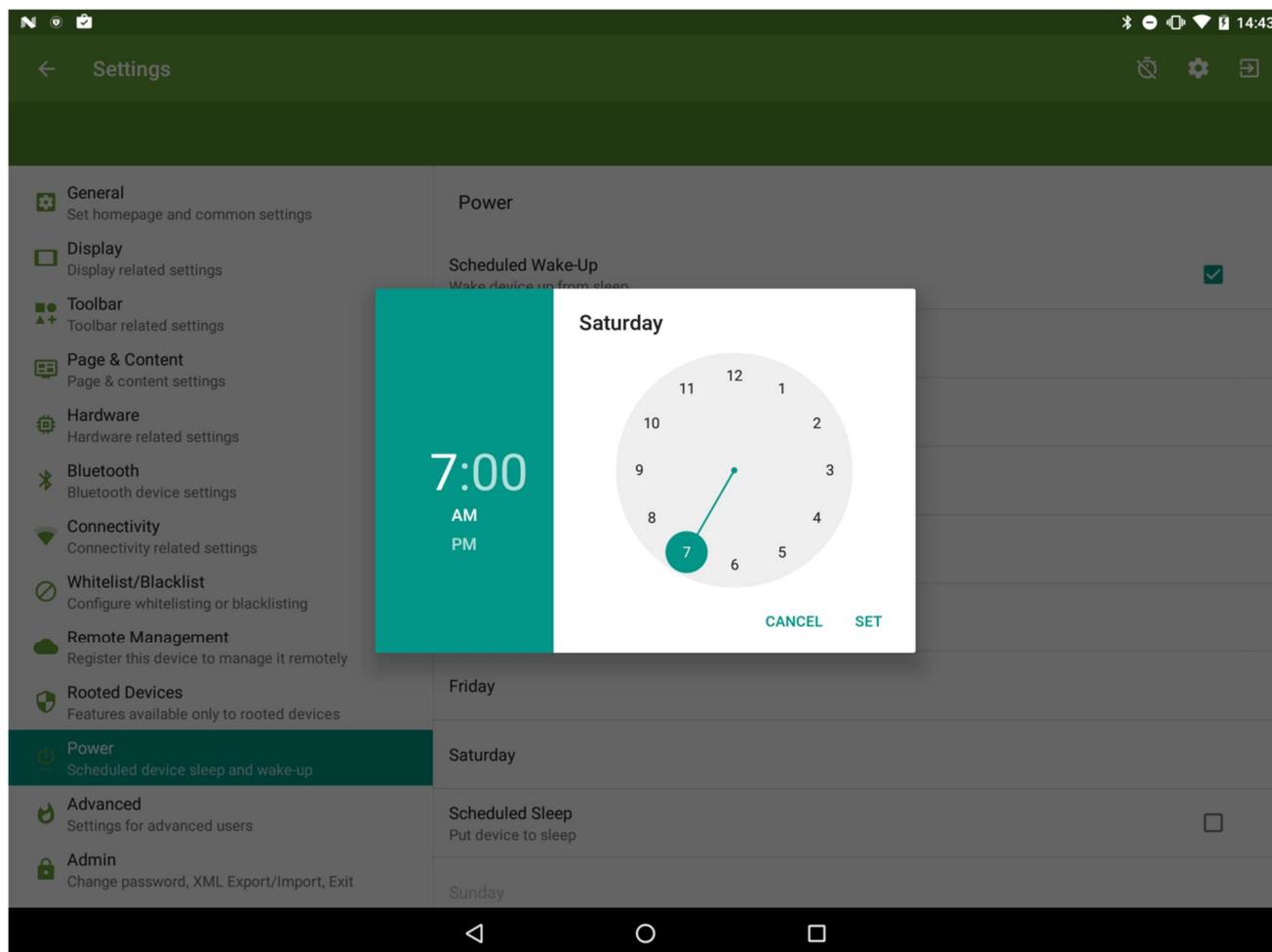
Troubleshoot Allow/Block List

Displays toast message for each denied page (allow list) or allowed page (block list) to assist with troubleshooting.



2.8. Scheduled Sleep/Wake

To change power management, go to **Settings > Power**.



Sleep

Put the device to sleep at a given time of day. Enable **Scheduled Wake Up** then select a time.

Wake

Wake the device from sleep at a given time of day. Enable **Scheduled Wake** then select a time.

If you have a screen lock enabled, this may interfere with the wake function, so please turn this off in Android Settings > Security.

Please note we use a background job which can take 15 minutes to execute (this is a standard Android feature to reduce battery consumption), if you have scheduled power on/off to occur at 13:00 please wait until 13:15.

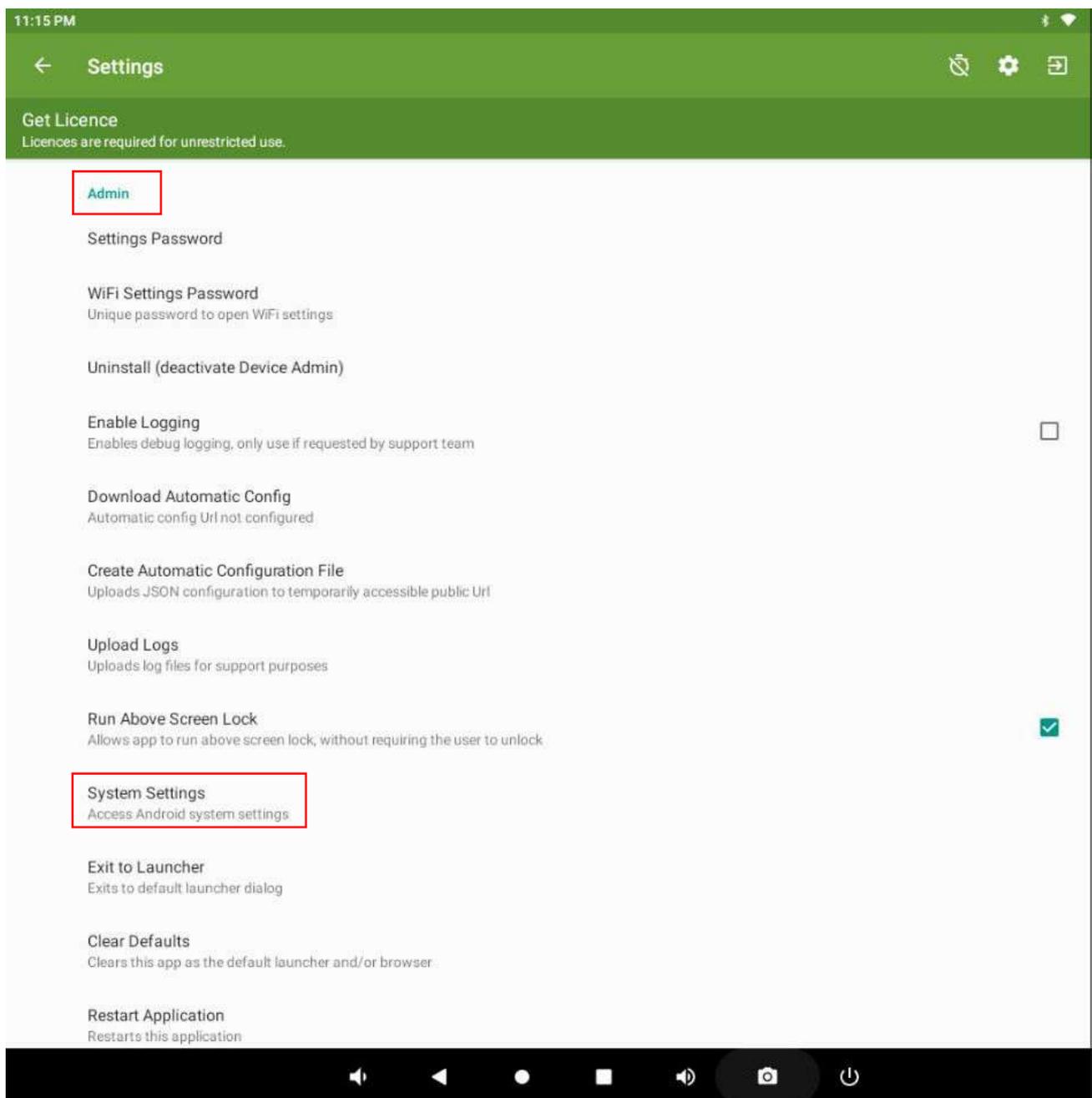
2.9. Scheduled Power Off and On

Unlike [Scheduled Sleep/Wake](#) which put the device to sleep but with the power remains, the **Scheduled Power Off/On** will turn off and on the power of the device.

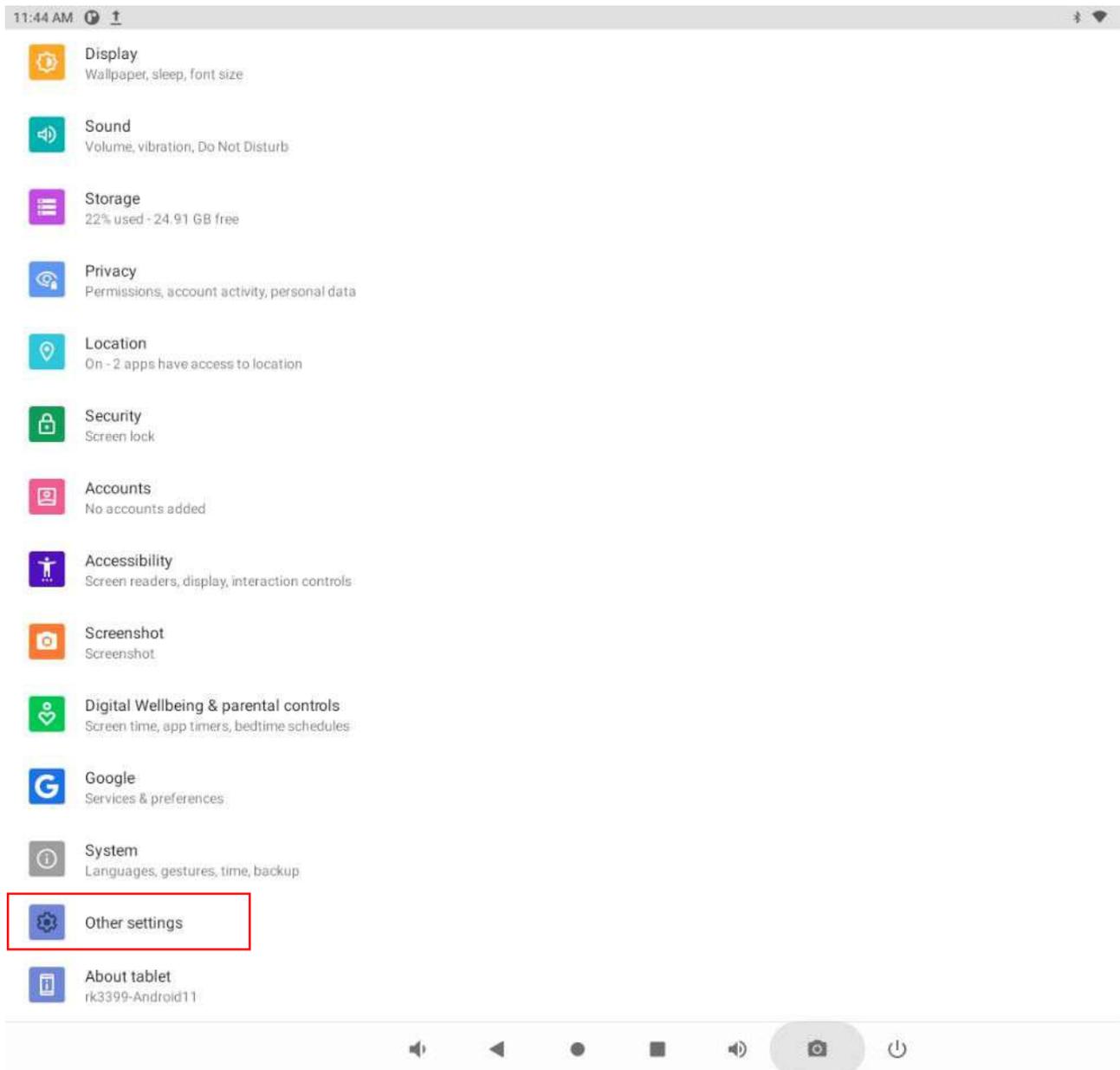
This feature comes with Android and, therefore, you would need to set it up via Android Settings. After setup in Android settings, you also need to do a setup in KB's settings which will be explained later in this section.

Setup in Android Settings

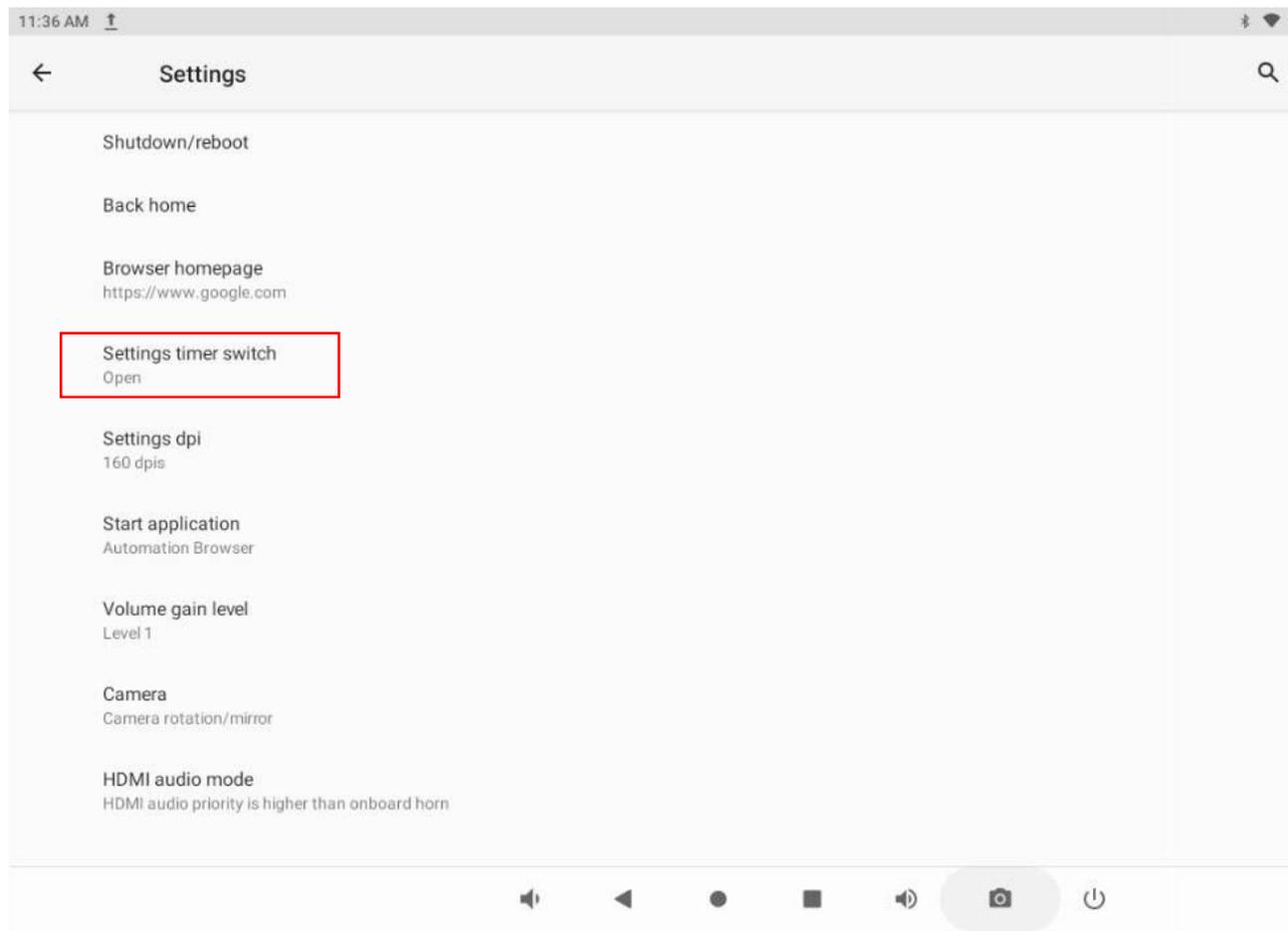
From Settings, go to **Admin > System Settings**



From Android Settings, go to **Other settings**



From **Other settings**, go to **Settings timer switch**



From **Setting timer switch**, enable **Settings timer switch** and then set the **Shutdown/Boot time** and whether this schedule will be repeated everyday

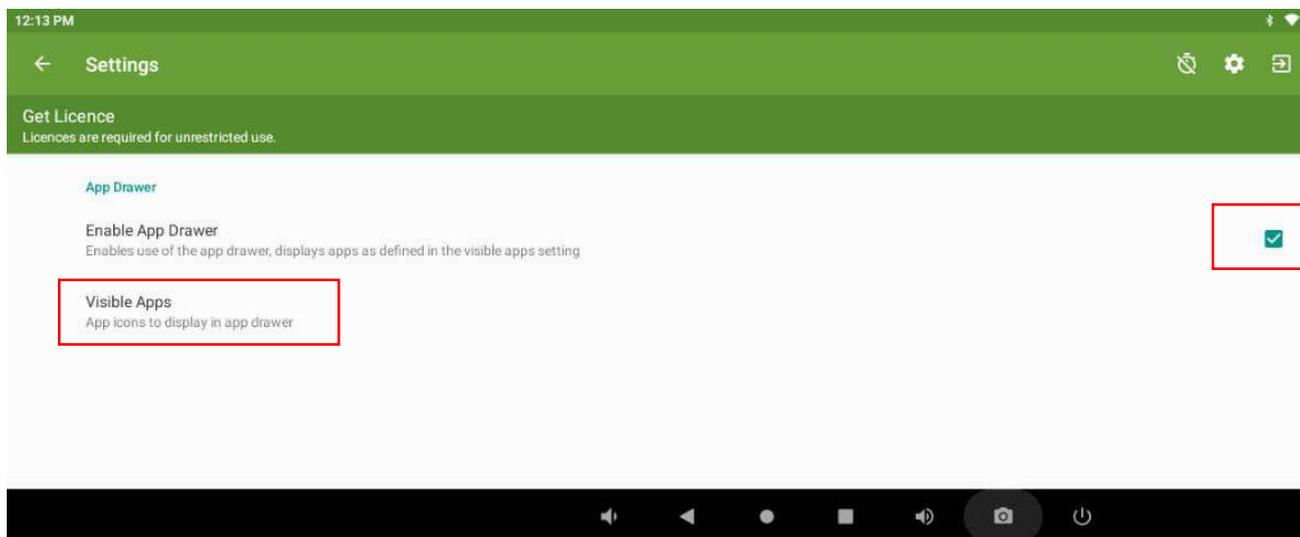


Setup in Kiosk Browser Settings

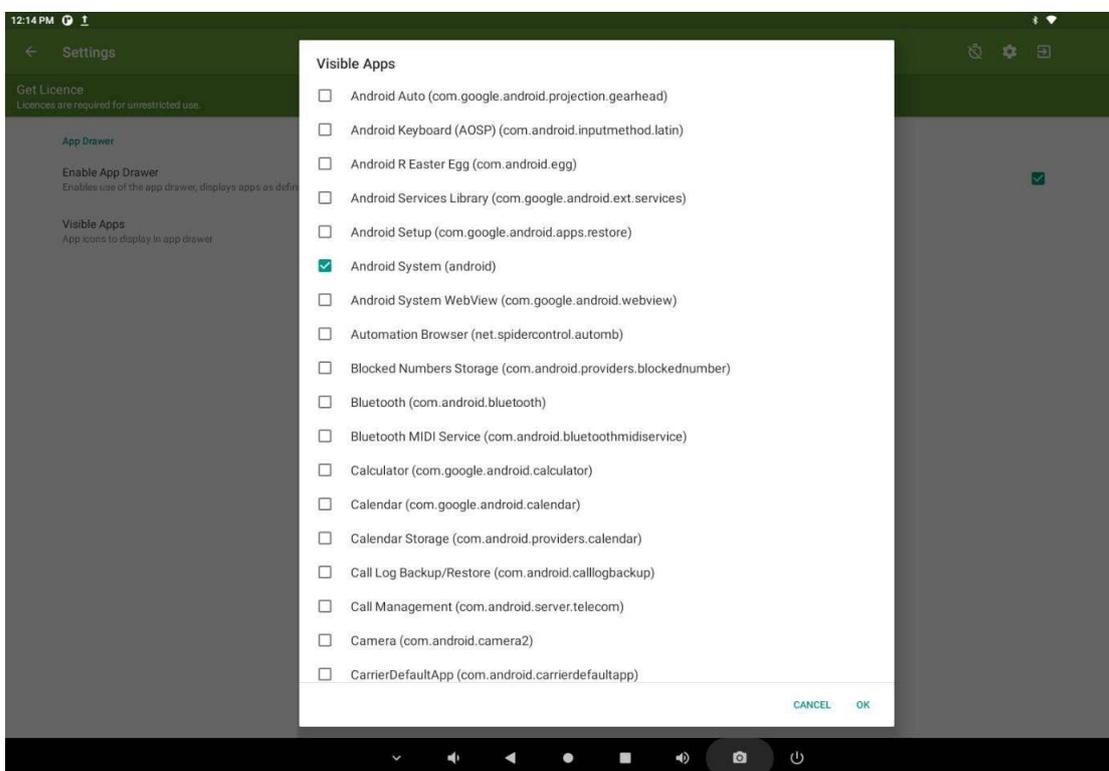
When Kiosk Browser is installed, only permitted applications are allowed to run once the Kiosk application has started.

For Kiosk Browser, permitted applications are defined in:

Settings > App Drawer > Visible Apps

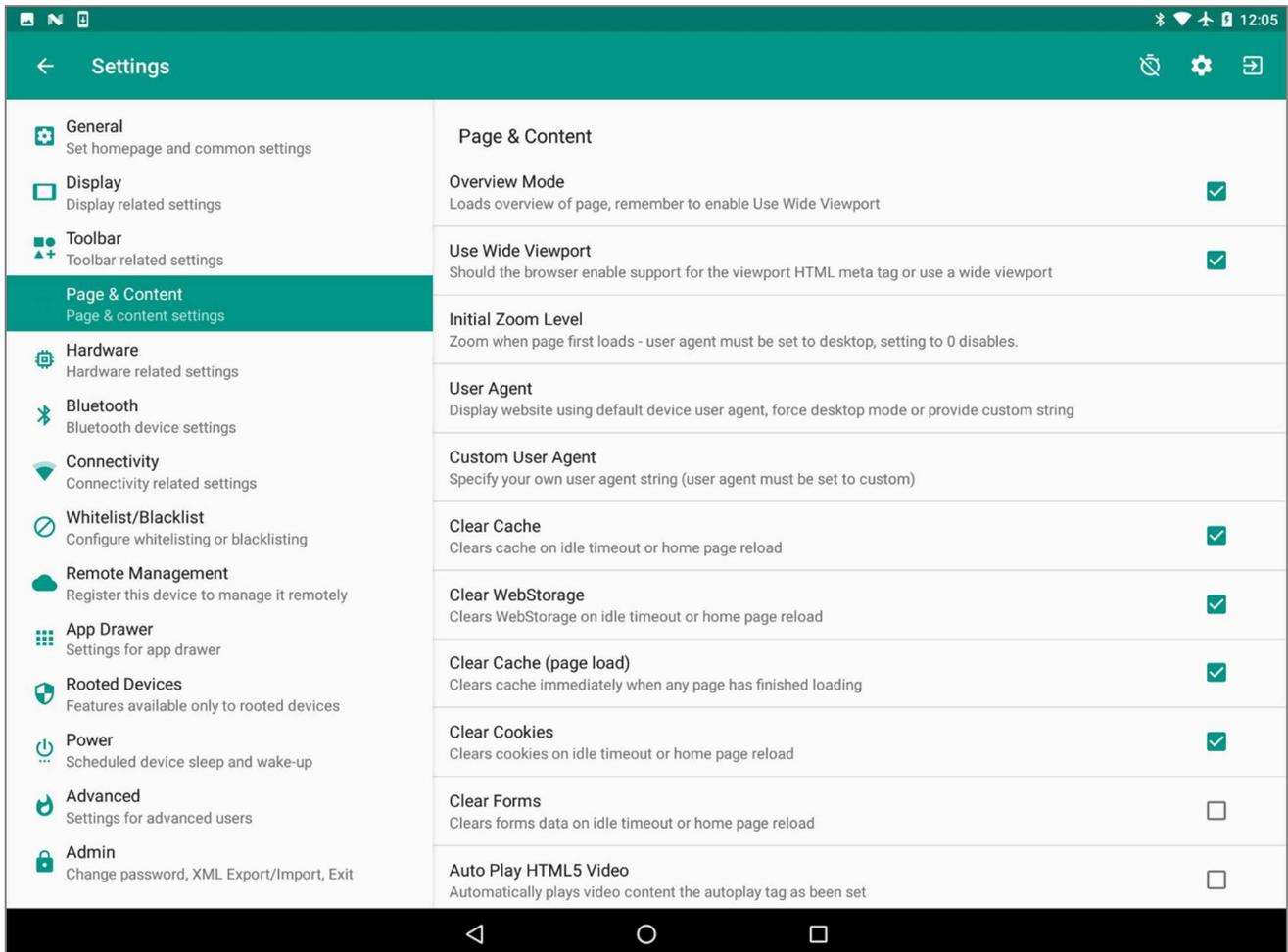


For **Scheduled Power Off/On** to be able to perform its task, you need to select an Android system app which runs the task as a permitted App. Select “Android System (android)” as Visible Apps and click OK.



2.10. Clear Cache, WebStorage, Cookies & Form Data

The options to *Clear Cache*, *WebStorage*, *Cookies & Form Data* can be found under **Settings > Page & Content**.



Settings > Page & Content > Clear Cache

Enabling this option, will clear the cache on idle timeout or home page reload.

The browser cache is a temporary storage location on your devices for files downloaded by your browser to display websites. Files that are cached locally include any documents that make up a website, such as HTML files.

You can also choose to clear the cache as soon as a new page has loaded, by enabling the option

Settings > Page & Content > Clear Cache (Page Load)

Settings > Page & Content > Clear WebStorage

Enabling this option, will clear the WebStorage on idle timeout or home page reload.

WebStorage is used to store data on the device without using cookies. Saved data persists in the browser until it is explicitly removed.

Settings > Page & Content > Clear Cookies

Enabling this option, will clear the Cookies on idle timeout or home page reload.

A cookie is a file created by a web browser at the request of a web site, that is stored on a device. These files typically store user-specific information such as selections in a form, shopping cart contents, or authentication data.

Settings > Page & Content > Clear Forms

Enabling this option, will clear the Forms data on idle timeout or home page reload.

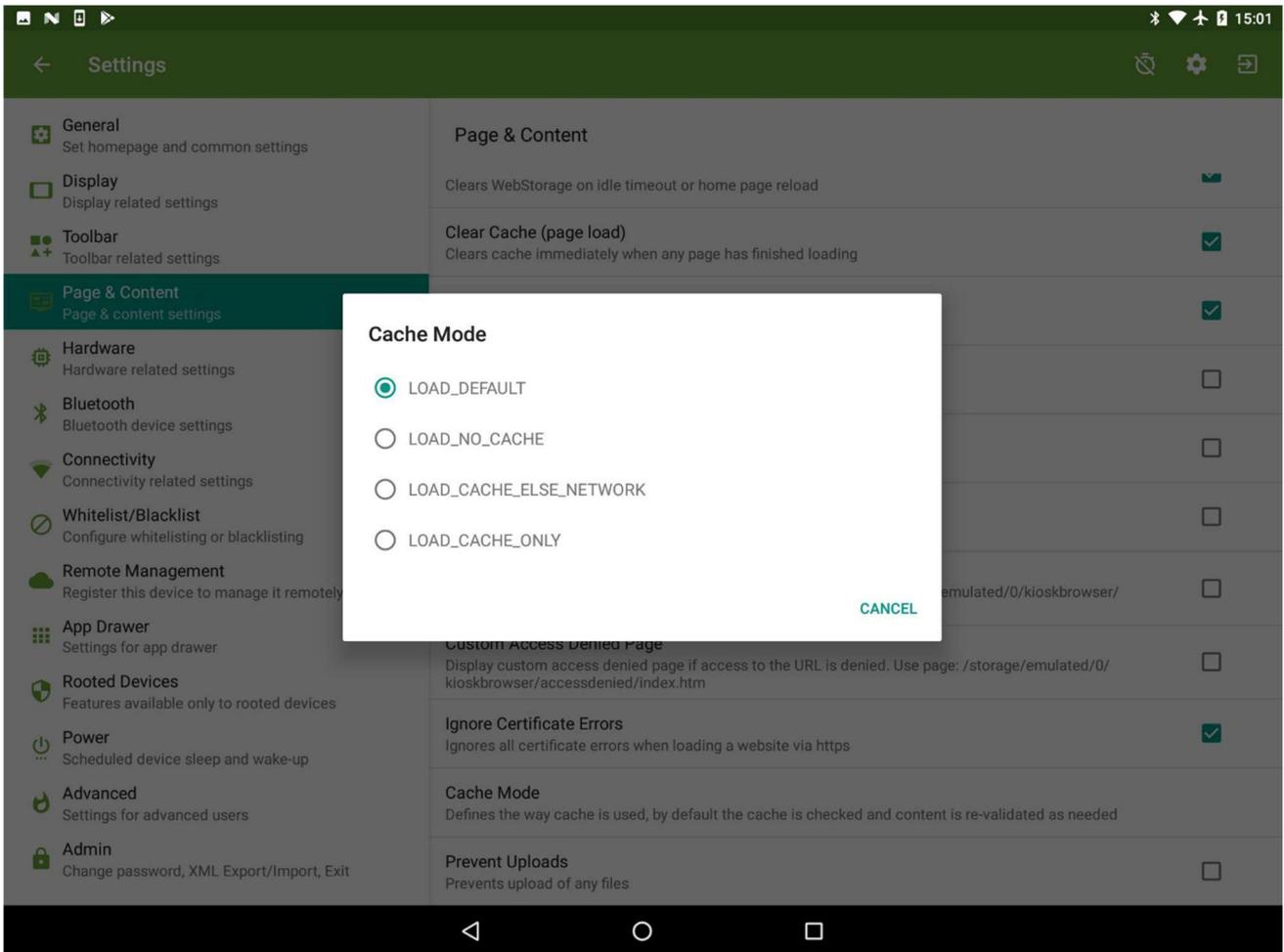
The forms data is any information that has been entered into a web form, and could be revealed to other users if it is not cleared between sessions.

Settings > Page & Content > Cache Mode

This option overrides the way the cache is used. The way the cache is used is based on the navigation type. For a normal page load, the cache is checked and content is re-validated as needed. When navigating back, content is not re-validated, instead the content is just retrieved from the cache.

This method allows the client to override this behaviour by specifying one of LOAD_DEFAULT, LOAD_CACHE_ELSE_NETWORK, LOAD_NO_CACHE or LOAD_CACHE_ONLY. Google provides more information on these modes [here](#).

These modes are provided "as is" and the only supported mode is LOAD_DEFAULT, this being the default value.



WebView Cache Size

The size of the WebView cache is defined by the WebView, this cannot be changed.

Automatic Page Reload Options

Using these settings in conjunction with the various [Automatic Page Load Options](#), gives you a vast amount of control over how and when the device clears potentially sensitive data.

2.11. URL Parameters

You use the below parameters as part of the homepage URL, this is particularly useful if you wish to send an identifying parameter to your website. i.e.

`http://www.mywebsite.com/kiosk.php?serial=%KIOSKSERIAL%`

%LOCALCONTENT%

Points to the local content folder `kioskbrowser/localcontent`

Example URL: `%LOCALCONTENT%/index.htm`

%LOCALSTORAGE%

Points to the default storage on the device i.e. `/sdcard/myfolder/index.htm`

Example URL: `%LOCALSTORAGE%/myfolder/index.htm`

%KIOSKSERIAL%

Device serial number.

%KIOSKMACADDRESS%

MAC address, WiFi adapter first, if not available- ethernet adapter.

%KIOSKIMEI%

IMEI of device if it includes telephony hardware.

%KIOSKIDENTIFIER%

Unique device/installation identifier (also used for remote management). Can be found in **Settings > About > Unique Installation ID**.

%KIOSKIPADDRESS%

IP address of WiFi adapter.

%KIOSKTITLE%

Gets Kiosk Browser title as displayed in the toolbar.

2.12. Default Storage Location

By default, Kiosk Browser creates a folder structure on the internal storage as below

/android/data/com.procoit.kioskbrowser/files/kioskbrowser/

The standard folder structure is as follows:

/DEFAULTSTORAGE/kioskbrowser/

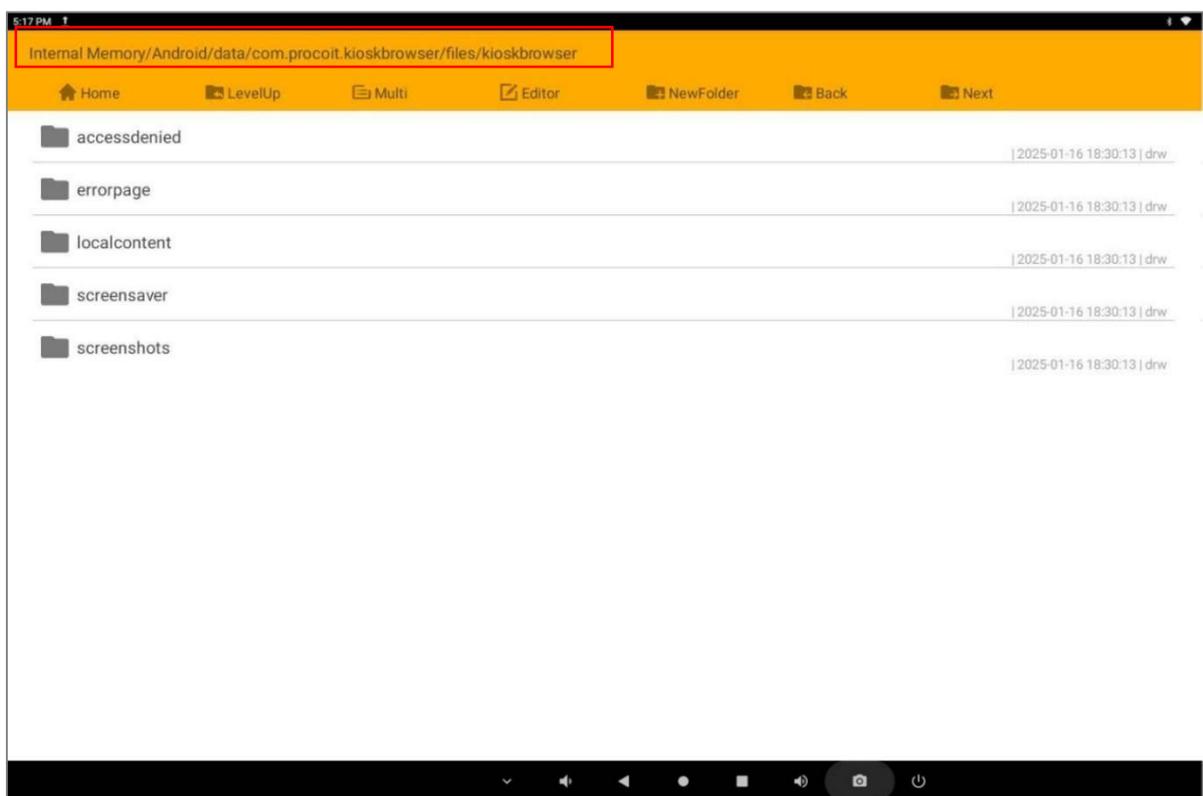
/DEFAULTSTORAGE/kioskbrowser/accessdenied/

/DEFAULTSTORAGE/kioskbrowser/errorpage/

/DEFAULTSTORAGE/kioskbrowser/localcontent/

/DEFAULTSTORAGE/kioskbrowser/screensaver/

/DEFAULTSTORAGE/kioskbrowser/screenshots/



2.13. Automatic Configuration JSON

The automatic config feature in Kiosk Browser allows you to specify a URL (**Settings > Advanced > Automatic Config Url**) where Kiosk Browser will check for config changes every 15 mins. For example,

```
{
  "kiosk_url": "https://www.google.com",
  "custom_app_title": "kbconfig1",
  "device_sleep_time": ""
}
```

This allows you to keep your devices configured consistently but also allows you to easily make changes.

The below list of properties is a complete list of all configuration properties. They are all optional, if you do not include a specific property, the default setting from Kiosk Browser is used instead.

*If you have already configured a device with the required settings, you can export your config to a JSON file stored publicly on our servers for 15 minutes. Go to **Settings > Admin > Create Automatic Configuration File**.*

Please note that some fields require specific strings as detailed in the comments (comments must not

be included in the final json as it does not support comments).

It's possible to clear a string property by just using an empty string "". Null can be applied to all of the

sleep/wake/restart times

Licensing

You can automatically activate licences via JSON property as per below:

```
{
  "licence_key": "12345"
}
```

Example Properties

```
{
  "kiosk_url": "https://www.google.com",
```

```
"custom_app_title": "Kiosk Browser",
"hyperlink_sound": true,
"enable_timeout": true,
"idle_timeout": 5, //idle timeout in minutes
"idle_timeout_always_reload": true,
"reload_on_screen_on": true,
"theme": "Green", //must be "Blue" OR "Cyan" OR "Green" OR "Grey" OR "Orange" OR "Pink" OR
"Purple" OR "Red" OR "Teal" OR "Yellow"
"colour_navigation_bar": false,
"lock_rotation": false,
"rotation": "Landscape", //must be "LANDSCAPE" OR "REVERSE LANDSCAPE" OR "PORTRAIT" OR
"REVERSE PORTRAIT"
"fullscreen_mode": false,
"back_toggles_fullscreen": false,
"custom_screensaver": false,
"screensaver_timeout": 5 //idle time before screensaver starts in minutes
"custom_screensaver_type": "IMAGE", //must be "IMAGE" OR "VIDEO" OR "WEBSITE"
"screensaver_slide_delay": 15, //time between slides in seconds
"screensaver_random": false,
"screensaver_urls": "https://www.google.com,https://www.android.com",
"hide_action_bar": false, //hide toolbar
"display_toolbar_swipe_down": true, //displays toolbar on swipe down if hidden,
"custom_launcher_icon": false, //custom app icon
"icon_loads_home_page": true,
"show_browser_controls": true,
"show_home_icon": true,
"show_refresh_icon": true,
"show_back_icon": true,
"show_forward_icon": true,
"show_app_drawer_icon": false,
"show_bookmarks_icon": false,
"bookmarks": "https://www.google.com,https://www.android.com",
"bookmark_names": "Google,Android Website",
"bookmarks_title": "My Bookmarks",
"show_print_menu": false,
"custom_toolbar_url": "https://mywebsite.com",
"barcode_scanner": false,
"barcode_redirect_url": "https://www.mywebsite.com?barcoderesult=",
"camera_icon": false,
"show_restart_app_menu": false,
```

```
"hide_menu_items": false, //hides overflow menu items such as settings and exit
"page_zooming": true,
"overview_mode": true,
"use_wide_viewport": true,
"initial_zoom": 0, //value between 0-400
"user_agent": "DEFAULT" //must be "DEFAULT" OR "DESKTOP" OR "CUSTOM"
"user_agent_custom": "", //valid custom user agent string, user_agent must be set to CUSTOM
"timeout_cacheclear": true,
"timeout_storageclear": true,
"timeout_cookieclear": true,
"timeout_formsclear": true,
"autoplay_video": false,
"autoplay_audio": false,
"custom_error_page": false,
"redirect_custom_error_page": false,
"custom_denied_page": false,
"ignore_certificate_errors": false,
"cache_mode": "LOAD_DEFAULT", //must be "LOAD_DEFAULT" OR "LOAD_NO_CACHE" OR
"LOAD_CACHE_ELSE_NETWORK" OR "LOAD_CACHE_ONLY"
"prevent_uploads": false,
"force_camera_uploads": false,
"keep_screen_on": true,
"prevent_screen_power_off": false,
"use_device_backbutton": true,
"nfc_enabled": false,
"control_wifi_state": false,
"wifi_enabled": true,
"volume_controls_enabled": true,
"default_camera": "FRONT", //must be "FRONT" OR "BACK"
"allow_bluetooth_devices": true,
"default_bluetooth_device": "00:00:00:00:00:00", //mac address of bluetooth device
"reload_network_change": true,
"reset_wifi": false,
"reset_wifi_interval": 0, //interval in minutes
"delay_load_on_startup": 30, //delay loading of page on startup in seconds
"url_whitelist": false,
"whitelist_deny_kiosk_url": false,
"whitelist_urls": "google.com,android.com",
"url_blacklist": false,
"blacklist_urls": "facebook.com",
```

```
"whitelist_redirect": false,
"whitelist_troubleshoot": false,
"enable_app_drawer": false,
"visible_apps": "com.google.android.calculator,com.google.android.calendar",
"wake_device": false, //scheduled wake
"device_wake_time": "07:00", //SUNDAY must be valid time string or empty string
"device_wake_time_monday": "", //must be valid time string or empty string
"device_wake_time_tuesday": "", //must be valid time string or empty string
"device_wake_time_wednesday": "", //must be valid time string or empty string
"device_wake_time_thursday": "", //must be valid time string or empty string
"device_wake_time_friday": "", //must be valid time string or empty string
"device_wake_time_saturday": "", //must be valid time string or empty string
"sleep_device": false, //schedule sleep
"device_sleep_time": "20:00", //SUNDAY must be valid time string or empty string
"device_sleep_time_monday": "", //must be valid time string or empty string
"device_sleep_time_tuesday": "", //must be valid time string or empty string
"device_sleep_time_wednesday": "", //must be valid time string or empty string
"device_sleep_time_thursday": "", //must be valid time string or empty string
"device_sleep_time_friday": "", //must be valid time string or empty string
"device_sleep_time_saturday": "", //must be valid time string or empty string
"app_restart": false,
"app_restart_time": "21:00", //must be valid time string
"always_wake_device": false,
"sleep_power_disconnect": false,
"sleep_power_connect": false,
"reboot_device": false, //schedule reboot
"device_reboot_time": "06:00", //SUNDAY must be valid time string or empty string
"device_reboot_time_monday": "", //must be valid time string or empty string
"device_reboot_time_tuesday": "", //must be valid time string or empty string
"device_reboot_time_wednesday": "", //must be valid time string or empty string
"device_reboot_time_thursday": "", //must be valid time string or empty string
"device_reboot_time_friday": "", //must be valid time string or empty string
"device_reboot_time_saturday": "", //must be valid time string or empty string
"show_reboot_device_menu": false,
"disable_safe_mode": false,
"disable_recents": true, //samsung knox only
"disable_svoice": true, //samsung knox only
"hide_status_bar": false, //samsung knox only
"hide_system_dialogs": true,
"aggressively_hide_system_dialogs": false,
```

```
"input_resize_page": false,
"input_resize_page_padding": 0,
"prevent_submit_keyboard": false,
"hide_progress_bar": false,
"require_password": true,
"multitap_settings": true,
"hardware_acceleration": true,
"javascript_interface": true,
"pause_javascript_timers_on_sleep": false,
"prevent_alert_dialogs": false,
"prevent_notification_access": true,
"barcode_scanner_timeout": 60, //timeout in seconds
"allow_intents": false,
"serial_number_source": "DEFAULT", //must be "DEFAULT" OR "RIL_SERIAL_NUMBER" OR
RO_SERIAL_NUMBER" OR "SYS_SERIAL_NUMBER"
"hide_google_play_services_messages": false,
"allow_popup_windows": false,
"settings_password": "0000",
"wifi_settings_password": "WiFiPassword",
"above_screen_lock": true,
"automatic_config_url": "https://www.myconfigurl.com/kbconfig.json",
"automatic_config_download_frequency": 18, //valid values between 15 and 1440 minutes
"webview_update_recovery": false
}
```