

Optimizing Your WiFi with Customized Login Page

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- Founded in 2015
- As a company that runs on a mission to provide free or affordable access to everyone, we have a couple of solutions that we wish could reduce the bandwidth prices in Indonesia.
- We believe that information and it's media should be free for all corners of the world.
- We have two kind of product, HIGO (a Magazine aggregator mobile app) and HIGOSpot (social WiFi platform) we are constantly curating and generating data as a solution for publishers and local businesses.

About Me

- Born in 1996
- An electrical engineering graduate
- New in exploring the world of networking

MikroTik Hotspot

Please log on to use the internet hotspot service

login

password

HOTSPOT GATEWAY
powered by *MikroTik*

Powered by MikroTik RouterOS

Captive portal is a very undermined feature, it's simple, but you can utilized this page more.

MikroTik Hotspot

People who runs venues and cafes can use social media login, where data and other useful information could be drawn and managed. Advertisers may exploit an unclosable ads page, in addition to redirecting to your web page.

MikroTik Hotspot

Cheeky folks might just put a mini game in there.

With a little tweak and customization (and imagination), these options offered plentiful way to optimize your WiFi.

What Router to Use?



What Alternative?

- Social Media Login
- Advertising Space
- Mini Games
- Etc

Who Use These Alternatives?

- Social Media Login (you can get the social media data of customers for the purpose of e-mail blasting/ SMS blasting promos)
- Advertising Space (for advertising)
- Mini Games (for fun)

Social Media Login

If you own a restaurant or café, you may want to send a promo or discount to your beloved customers. You may also want to share very specific promos (e.g. for girls only, for kids). To do that, you need their contact, such as email, phone number, or social media. This will be discussed later.

Café



Ads Space

If you run a public area and put a free WiFi there, you may need some additional funding so your WiFi is maintained well. You could attain that by doing advertisement in your WiFi. Advertisers can give you funding if your demographic (people who went to your place) fits their intended viewers.

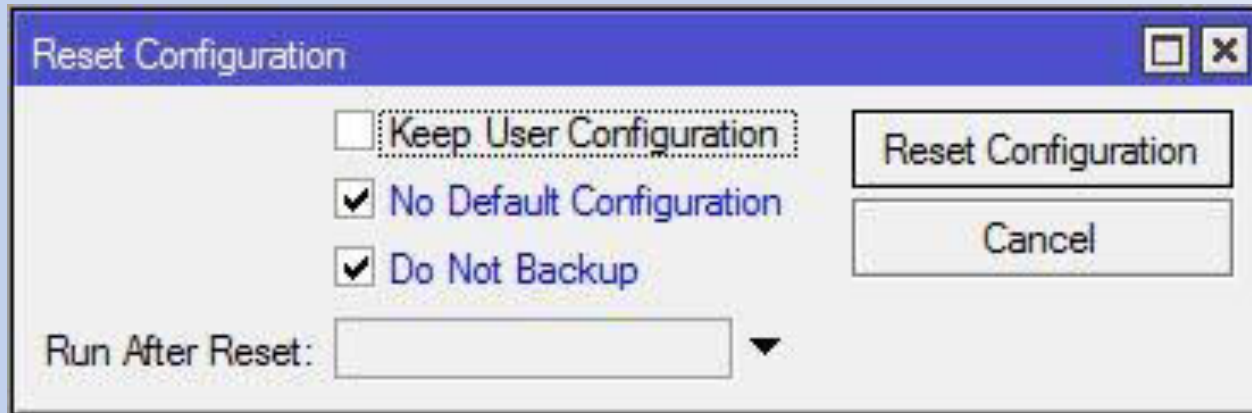
Public Area



How?

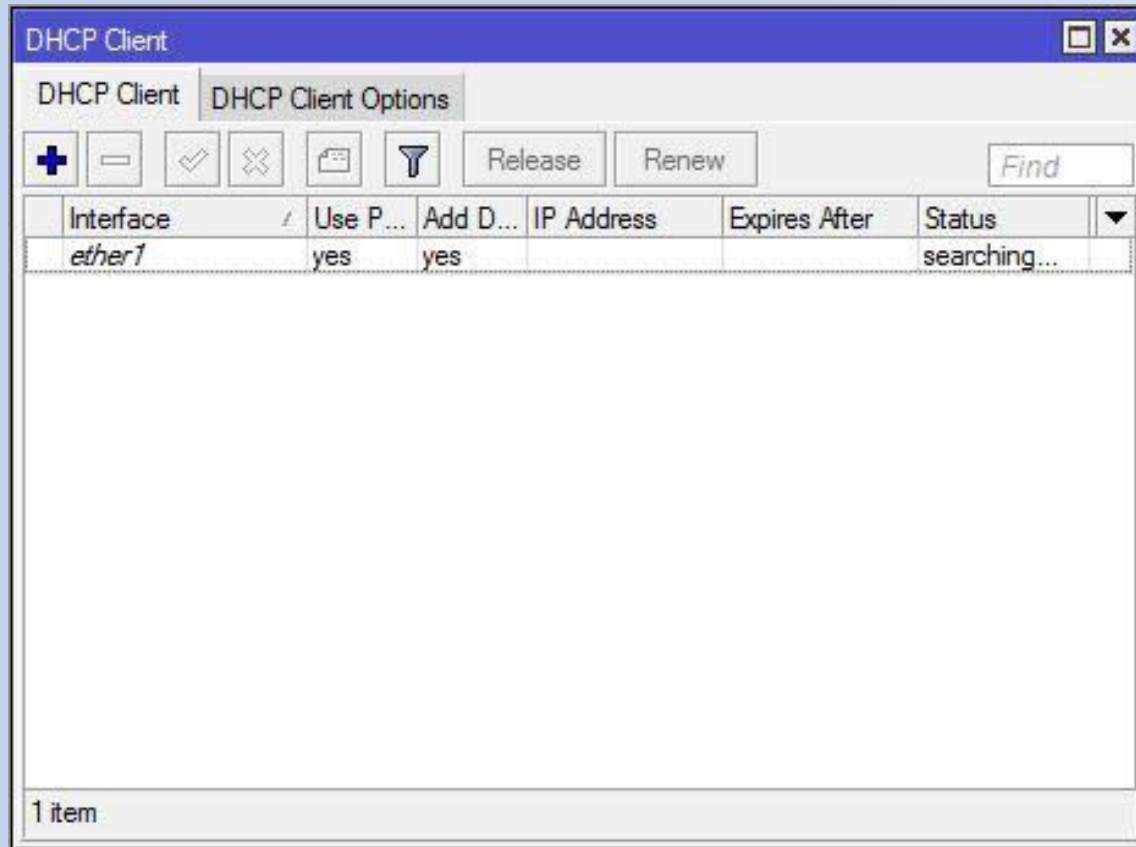
Here's the step you need to do before going further, you only need to do a simple MikroTik Hotspot setting. Make port ether1 plugged to your ONU/modem (as the internet source).

Setting



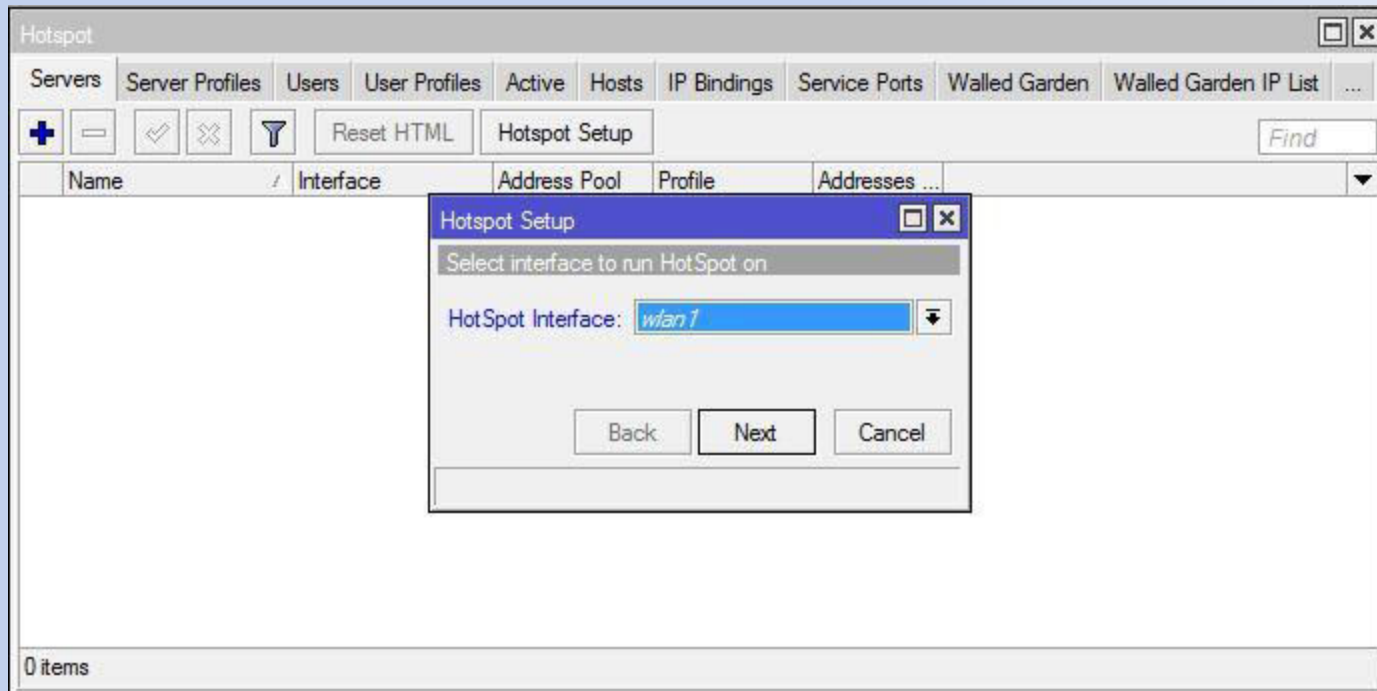
Reset the Mikrotik without the default configuration.

Setting (1)



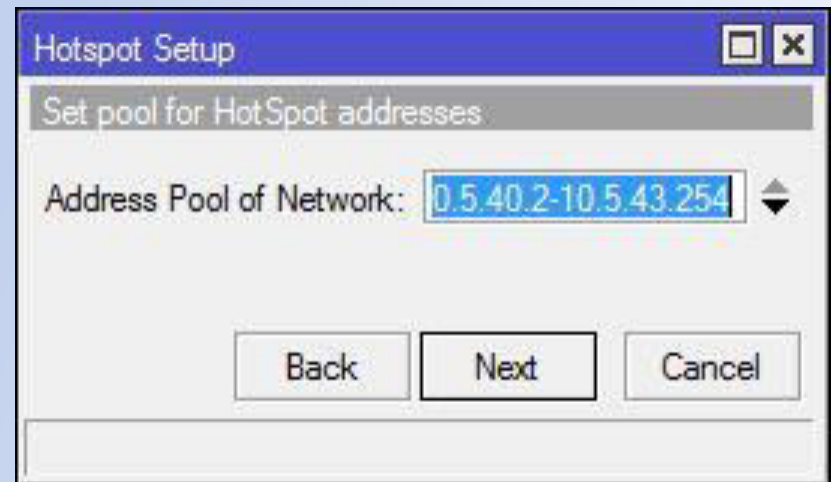
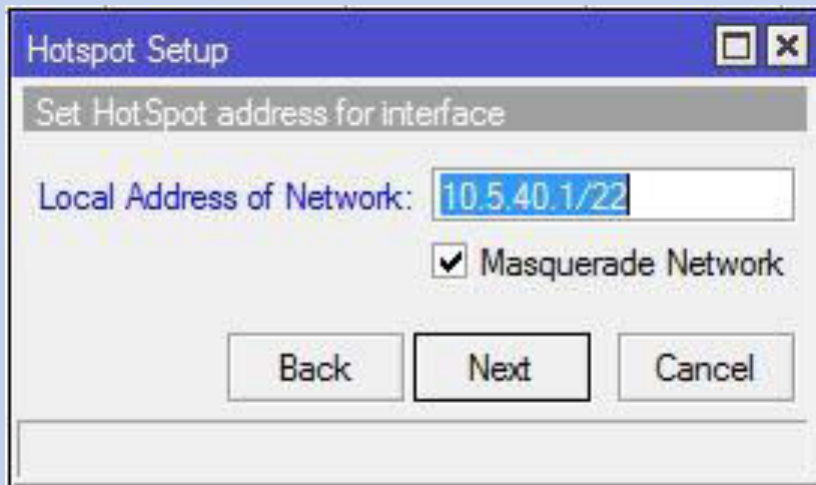
Set the DHCP Client in ether1 (or as you preferred) if the internet source IP is not static.

Setting (2)



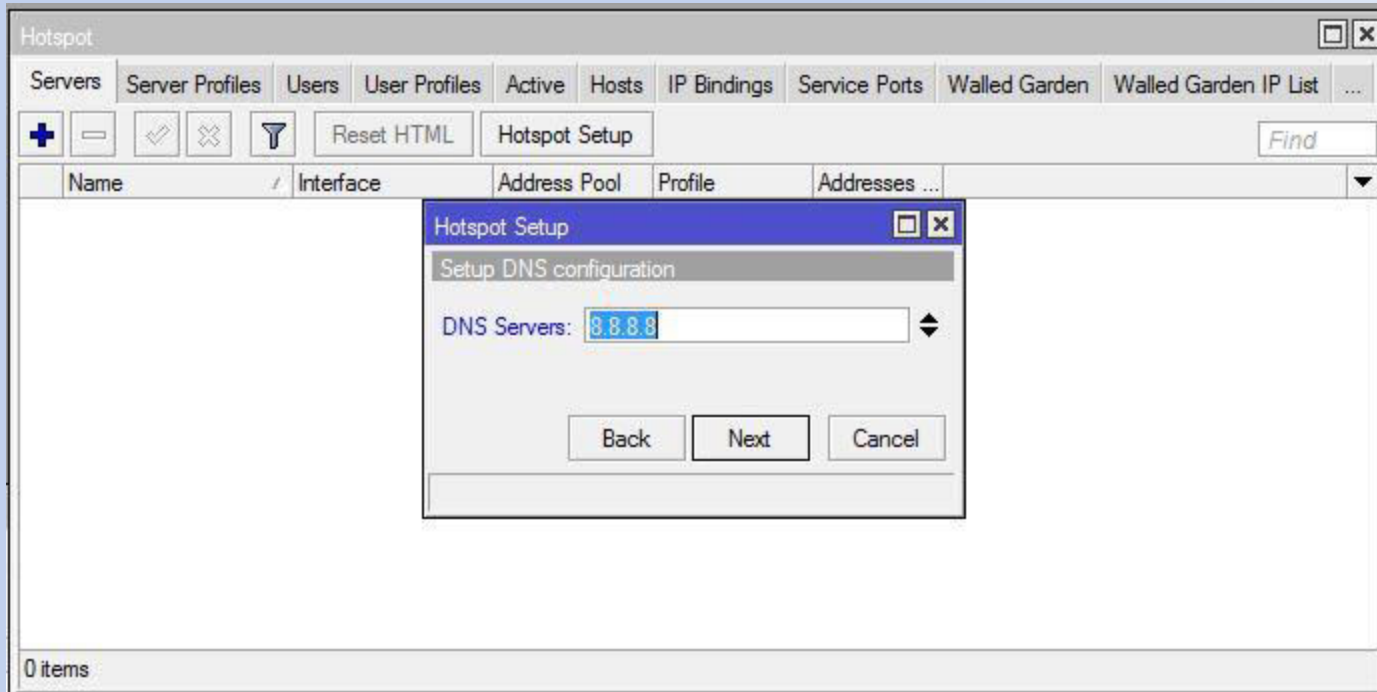
Setup the hotspot, the interface would be wlan1

Setting (3)



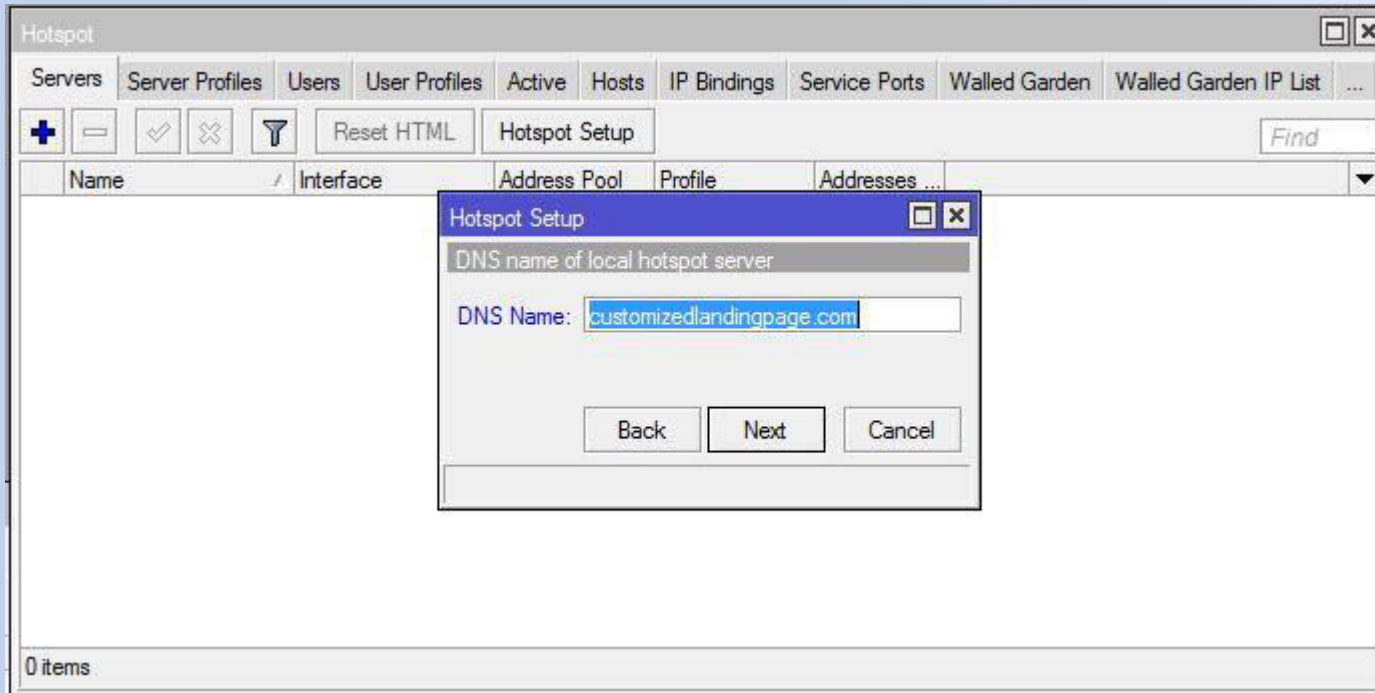
The local address should be adjusted to the number of people you expected would be connected to the wifi.

Setting (4)



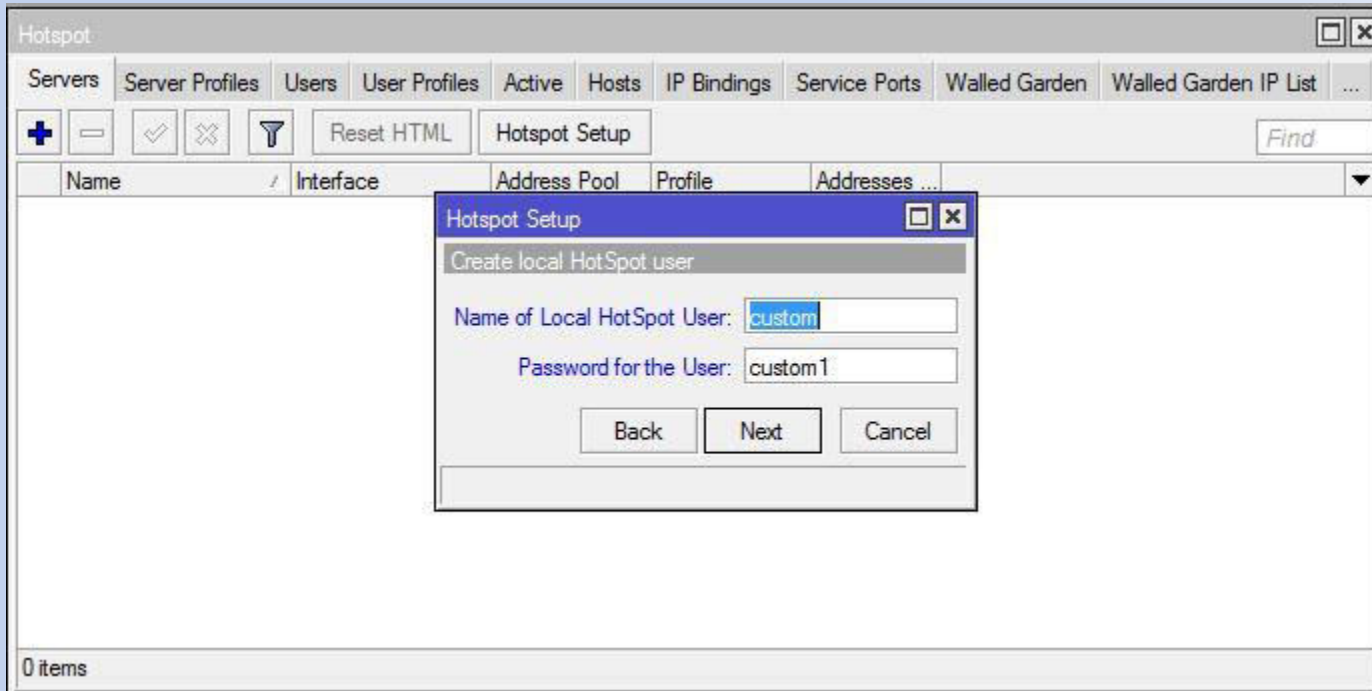
Use google DNS Server (8.8.8.8)

Setting (5)



Put in your DNS Name

Setting (6)



Last step of the Hotspot setup

Setting (7)

NAT Rule <10.5.40.0/22>

General | Advanced | Extra | Action | ...

Chain:

Src. Address: 10.5.40.0/22

Dst. Address:

Protocol:

Src. Port:

Dst. Port:

Any. Port:

In. Interface:

Out. Interface: ether1

Packet Mark:

Connection Mark:

Routing Mark:

Routing Table:

Connection Type:

OK
Cancel
Apply
Disable
Comment
Copy
Remove
Reset Counters
Reset All Counters

In the NAT Rule, set the Out. Interface port to ether1

Setting (8)

The screenshot shows the 'Hotspot Server Profile <hsprof2>' window with the 'RADIUS' tab selected. The 'Login By:' section has 'MAC' selected. Underneath, 'HTTP CHAP' and 'HTTP PAP' are checked, while 'Cookie', 'HTTPS', and 'Trial' are unchecked. 'MAC Cookie' is also unchecked. The 'MAC Auth. Mode' is set to 'MAC as username'. The 'MAC Auth. Password' field is empty. The 'HTTP Cookie Lifetime' is set to '3d 00:00:00'. The 'SSL Certificate' is set to 'none'. The 'Split User Domain' checkbox is unchecked. The 'Trial Uptime Limit' is '00:30:00', the 'Trial Uptime Reset' is '1d 00:00:00', and the 'Trial User Profile' is 'default'. On the right side, there are buttons for 'OK', 'Cancel', 'Apply', 'Copy', and 'Remove'. At the bottom left, the text 'default' is visible.

We set the hotspot server profile, simply disable the MAC Cookie.

Setting (9)

Hotspot User Profile <default>

General Queue Advertise Scripts

Name: default

Address Pool: none

Session Timeout: 01:00:00

Idle Timeout: none

Keepalive Timeout: 00:30:00

Status Autorefresh: 00:01:00

Shared Users:

Rate Limit (rx/bx):

Add MAC Cookie

MAC Cookie Timeout: 00:00:00

Address List:

Incoming Filter:

Outgoing Filter:

Incoming Packet Mark:

Outgoing Packet Mark:

Open Status Page: always

Transparent Proxy

OK
Cancel
Apply
Copy
Remove

default

Set the user profile, give the Session Timeout according to your ideal time you want your customer spent in your venue.

Files

The screenshot shows a 'File List' window with a toolbar containing icons for navigation and actions like 'Backup', 'Restore', and 'Upload...'. A search bar labeled 'Find' is on the right. The main area is a table with columns for 'File Name', 'Type', 'Size', and 'Creation Time'. The 'hotspot/login.html' file is circled in red.

File Name	Type	Size	Creation Time
hotspot	directory		May/26/2018 08:48:33
hotspot/bundle.crt	.crt file	5.5 KB	May/26/2018 13:48:15
hotspot/higo.id.crt	.crt file	2231 B	May/26/2018 13:48:15
hotspot/higo.id.csr	.csr file	1752 B	May/26/2018 13:48:15
hotspot/alogin.html	.html file	1307 B	May/26/2018 08:48:33
hotspot/error.html	.html file	898 B	May/26/2018 08:48:33
hotspot/login.html	.html file	3455 B	May/26/2018 08:48:35
hotspot/logout.html	.html file	1813 B	May/26/2018 08:48:35
hotspot/radvert.html	.html file	1509 B	May/26/2018 08:48:38
hotspot/redirect.html	.html file	318 B	May/26/2018 08:48:38
hotspot/rlogin.html	.html file	850 B	May/26/2018 08:48:39
hotspot/status.html	.html file	3009 B	May/26/2018 08:48:39
hotspot/favicon.ico	.ico file	903 B	May/26/2018 08:48:34
hotspot/md5.js	.js file	7.0 KB	May/26/2018 08:48:38
hotspot/higo.id.key	.key file	3243 B	May/26/2018 13:48:15
hotspot/errors.txt	.txt file	3615 B	May/26/2018 08:48:34
hotspot/img	directory		May/26/2018 08:48:34
hotspot/img/logobottom.png	.png file	3925 B	May/26/2018 08:48:34

34 items | 8.3 MiB of 16.0 MiB used | 48% free

This is the best part, here is where you will customized the Hotspot however you like. You may edit the file login.html for customizing it into an Ads space or Social Media Login.

Files

File List

Backup Restore Upload... Find

File Name	Type	Size	Creation Time
hotspot	directory		Feb/23/2018 18:16:32
hotspot/bootstrap.min.css	.css file	118.4 KiB	Jan/02/1970 07:06:00
hotspot/alogin.html	.html file	1293 B	Jan/02/1970 07:05:56
hotspot/emer.html	.html file	898 B	Jan/02/1970 07:06:00
hotspot/login.html	.html file	85.5 KiB	May/02/2018 14:22:59
hotspot/logout.html	.html file	1813 B	Jan/02/1970 07:06:02
hotspot/radvert.html	.html file	1509 B	Jan/02/1970 07:06:02
hotspot/redirect.html	.html file	318 B	Jan/02/1970 07:06:02
hotspot/status.html	.html file	3009 B	Jan/02/1970 07:06:02
hotspot/favicon.ico	.ico file	903 B	Feb/23/2018 18:16:36
hotspot/banner.jpg	.jpg file	107.1 KiB	May/24/2018 12:55:50
hotspot/banner2.jpg	.jpg file	107.1 KiB	May/24/2018 12:55:53
hotspot/banner3.jpg	.jpg file	353.8 KiB	Mar/06/2018 14:03:08
hotspot/jquery-1.11.1.min.js	.js file	93.5 KiB	Jan/02/1970 07:06:01
hotspot/md5.js	.js file	7.0 KiB	Feb/23/2018 18:16:41
hotspot/Customr.png	.png file	26.4 KiB	Feb/26/2018 10:18:52
hotspot/CustomrHover.png	.png file	26.2 KiB	Feb/26/2018 10:18:52
hotspot/Facebook.png	.png file	24.7 KiB	Jan/02/1970 07:06:00
hotspot/FacebookHover.png	.png file	24.7 KiB	Jan/02/1970 07:06:00
hotspot/Gmail.png	.png file	24.6 KiB	Jan/02/1970 07:06:01
hotspot/GmailHover.png	.png file	24.6 KiB	Jan/02/1970 07:06:01
hotspot/Instagram.png	.png file	27.4 KiB	Jan/02/1970 07:06:01
hotspot/InstagramHover.png	.png file	27.3 KiB	Jan/02/1970 07:06:01
hotspot/Login.png	.png file	511 B	Jan/02/1970 07:06:01
hotspot/LoginHover.png	.png file	514 B	Jan/02/1970 07:06:01
hotspot/Logo.png	.png file	27.5 KiB	Jan/02/1970 07:06:02
hotspot/Powered.png	.png file	32.3 KiB	Jan/02/1970 07:06:02
hotspot/Twitter.png	.png file	24.8 KiB	Jan/02/1970 07:06:02
hotspot/TwitterHover.png	.png file	24.7 KiB	Jan/02/1970 07:06:02
hotspot/Whatsapp.png	.png file	26.3 KiB	Jan/02/1970 07:06:02
hotspot/WhatsappHover.png	.png file	26.2 KiB	Jan/02/1970 07:06:02
hotspot/errors.txt	.txt file	3615 B	Feb/23/2018 18:16:36
hotspot/img	directory		Feb/23/2018 18:16:36
hotspot/img/logoBottom.png	.png file	3925 B	Feb/23/2018 18:16:37

54 items 9.2 MiB of 16.0 MiB used 42% free

The edited login.html

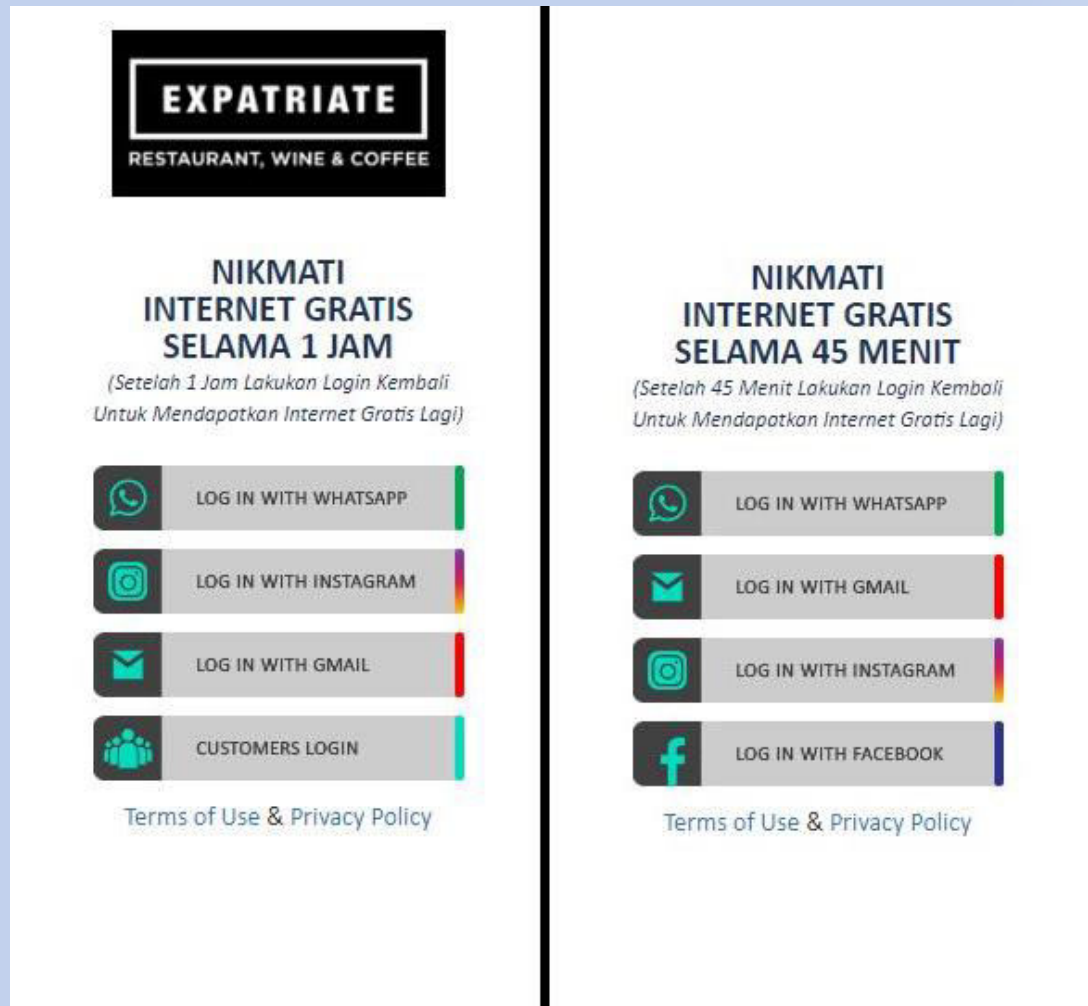
social media icons

Files

In the login.html, you need to do the following things:

- Figure out which code constitute which design.
- Coded in the login logo for social media, and also how to redirect them to the respective social media login page.

Social Media Login

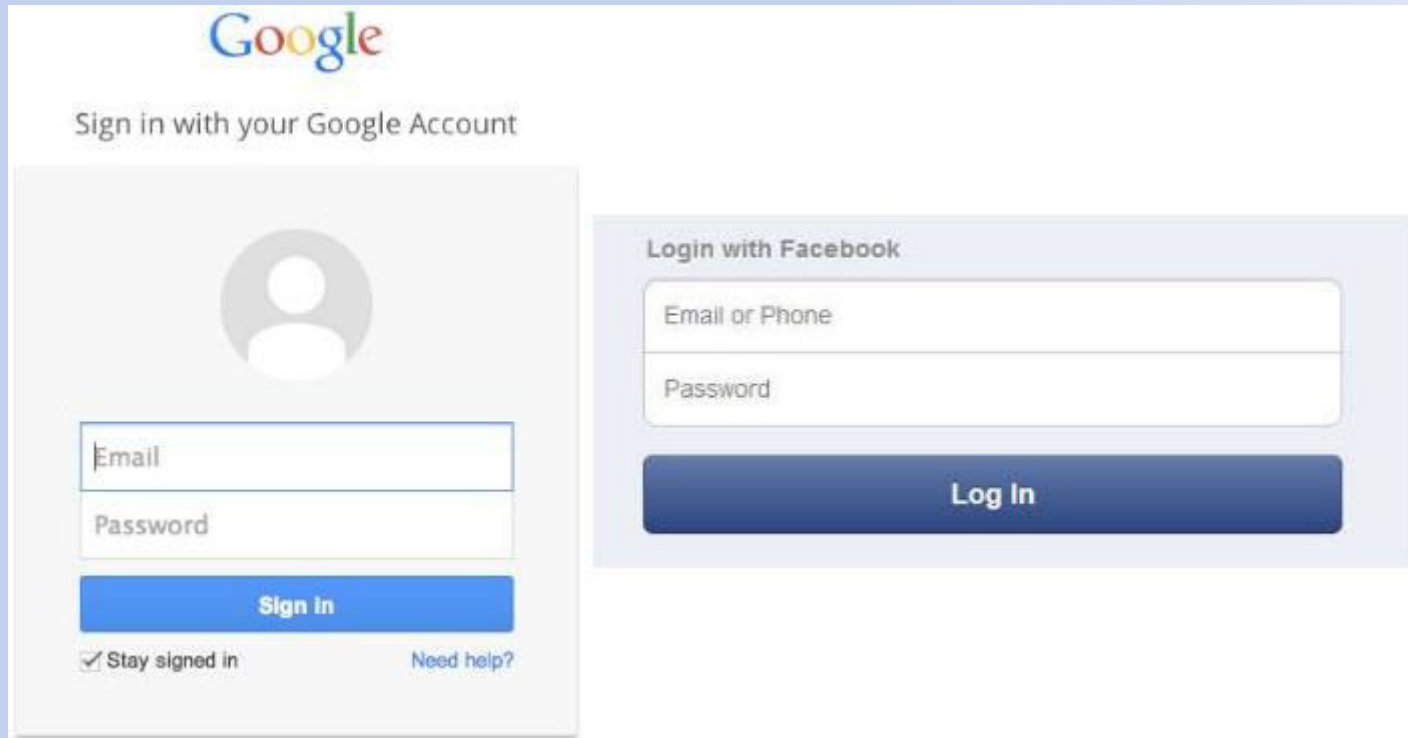


Here is the view of a Social Media Login, there's several option of social media, in which the user of the WiFi need to input in order to be able to browse the internet.

Social Media Login

You can put in several choices for WiFi user to pick in order to be able to access your WiFi. Instagram, Google, Facebook and Twitter are some of the social media who offer you an API, which when you use it, you can gather the data of the user logged in using that particular Social Media. (You can request the API and how to do it to them, here's the way used for Facebook: <https://developers.facebook.com/docs/facebook-login/>).

Social Media Login



The image shows two login forms side-by-side. The left form is for Google, featuring the Google logo at the top, the text 'Sign in with your Google Account', a grey profile icon, and input fields for 'Email' and 'Password'. Below these is a blue 'Sign in' button, a checked 'Stay signed in' checkbox, and a 'Need help?' link. The right form is for Facebook, titled 'Login with Facebook', with input fields for 'Email or Phone' and 'Password', and a blue 'Log In' button.

After signing their social media, the customer's profile will be extracted to the server you use to put the API, refer on this link for Facebook: <https://developers.facebook.com/docs/facebook-login/>.

Social Media Login

The data you gather usually includes e-mail address and social media info. You can also customized it accordingly ton your needs, such as only using phone number or full biodata in order to use the WiFi. (the drawback is you can't verify the biodata). You can used all these data with e-mail/SMS blasting your restaurant/café's promo.

Walled Garden

```
/ip hotspot walled-garden  
add dst-host=:.^www.example.com path=":/test\$("
```

You need to put in walled garden, a setting that allowed authentication bypass, of the social media you use in the login page in order for the user to be redirected to the respective social media.

Advertisement

WELCOME TO
HIGOSPOT
- FREE WIFI -

INTERNET GRATIS INI DIPERSEMBAHKAN OLEH 13

coffee toffee POWERED BY HIGO zGold

MOBILE LEGENDS
5v5 Fair MOBA for Mobile

BIG VERSUS

Babak Penyisihan		Babak Final
COFFEE TOFFEE GROGOL	COFFEE TOFFEE KOTA WISATA BOGOR-PANDU	COFFEE TOFFEE MARGONDA 1 DEPOK
10 Mei 2018	11 Mei 2018	12 Mei 2018

**TOTAL PRIZE
RP 6.000.000**

Registrasi: bit.ly/RegistrasiML-CT
More Info: 083811034590 / 087711312809

UNTUK PEMASANGAN IKLAN HUBUNGI 021-568-6273

Here is the mobile view of the Advertisement Space, simply need to put the ads image, and edit the login.html so your customer or WiFi users are obliged stay in the ads space for several second.

Advertisement

File Name	Type	Size	Creation Time
auto-before-reset.backup	backup	12.1 KiB	Jan/02/1970 07:01:19
hotspot	directory		May/12/2018 04:21:57
hotspot/bootstrap.min.css	.css file	118.4 KiB	May/12/2018 04:22:54
hotspot/banner3.gif	.gif file	2979.8 KiB	May/12/2018 04:22:52
hotspot/alogin.html	.html file	1300 B	May/12/2018 04:22:13
hotspot/amar.html	.html file	938 B	May/12/2018 04:22:55
hotspot/login.html	.html file	58.9 KiB	May/23/2018 14:42:59
hotspot/logout.html	.html file	1886 B	May/12/2018 04:23:00
hotspot/radvert.html	.html file	1571 B	May/12/2018 04:23:00
hotspot/redirect.html	.html file	330 B	May/12/2018 04:23:00
hotspot/status.html	.html file	3113 B	May/12/2018 04:23:01
hotspot/favicon.ico	.ico file	903 B	May/12/2018 04:21:58
hotspot/banner.jpg	.jpg file	102.7 KiB	May/23/2018 14:42:57
hotspot/banner2.jpg	.jpg file	79.6 KiB	May/12/2018 04:22:20
hotspot/banner3.jpg	.jpg file	91.0 KiB	May/23/2018 14:42:58
hotspot/jquery-1.11.1.min.js	.js file	93.5 KiB	May/12/2018 04:22:58

52 items | 12.1 MiB of 16.0 MiB used | 24% free

To put the ads, simply upload the image to the Files, the name of the image here is banner, and in the login.html set a countdown function so the viewers can't skip the banner before seeing it for several seconds.

Advertisement

```
<div id="banner-page" style="display: none;">
  <div style="background: #CCC; color: #FFF; font-weight: bold; position: relative; height: 20px; width: 100%;">
    <div id="banner-page-loading" style="background: #01DCBE; height: 20px; width: 0%;"></div>
    <div style="position: absolute; top: 0; text-align: center; width: 100%;">MENGHUBUNGAN</div>
    <div id="banner-page-countdown" style="position: absolute; top: 0; right: 5px;">15</div>
  </div>
  <div id="image-banner">
    
  </div>
```

You need to code in the banner in the login.html file, do some more CSS work so the countdown is displayed well.

Advertisement

MENGHUBUNGGAN

KUOTA	5GB + 5GB, 30 Hari
Rp 55.000	Xtra Nelpon 30 Menit
Rp 52.800	

KUOTA	10GB + 10GB, 30 Hari
Rp 82.900	Xtra Nelpon 40 Menit
Rp 79.600	

KUOTA	20GB + 20GB, 30 Hari
Rp 166.700	Xtra Nelpon 100 Menit
Rp 160.100	

[klik di sini](#)

Here is the desktop view, ads similar to above is quite effective when you use it in a public area WiFi.

Advertisement

Kolary
COFFEE & KITCHEN

**LIWETAN &
MINI TUMPENG**

EVERYDAY DURING
RAMADAN
MORE INFO ADD OUR LINE
@KOLARYCOFFEE

LOG IN WITH GMAIL
LOG IN WITH WHATSAPP
LOG IN WITH INSTAGRAM

You can put several image in the Ads Space, you can also combined Social Media Login with Ads Space.

Games

With the ability to customized the login.html, you can go much further and put in a game (a bit tricky in the coding part), here's an example of a lottery game. The game includes promo from advertisers, your WiFi users will be interested in playing it because of the possibility of winning a promo.

Games



PILIH HADIAH DI ATAS

dan menangkan voucher MOL
sebesar **Rp 20.000!**



PILIH HADIAH DI ATAS

dan menangkan voucher MOL
sebesar **Rp 20.000!**

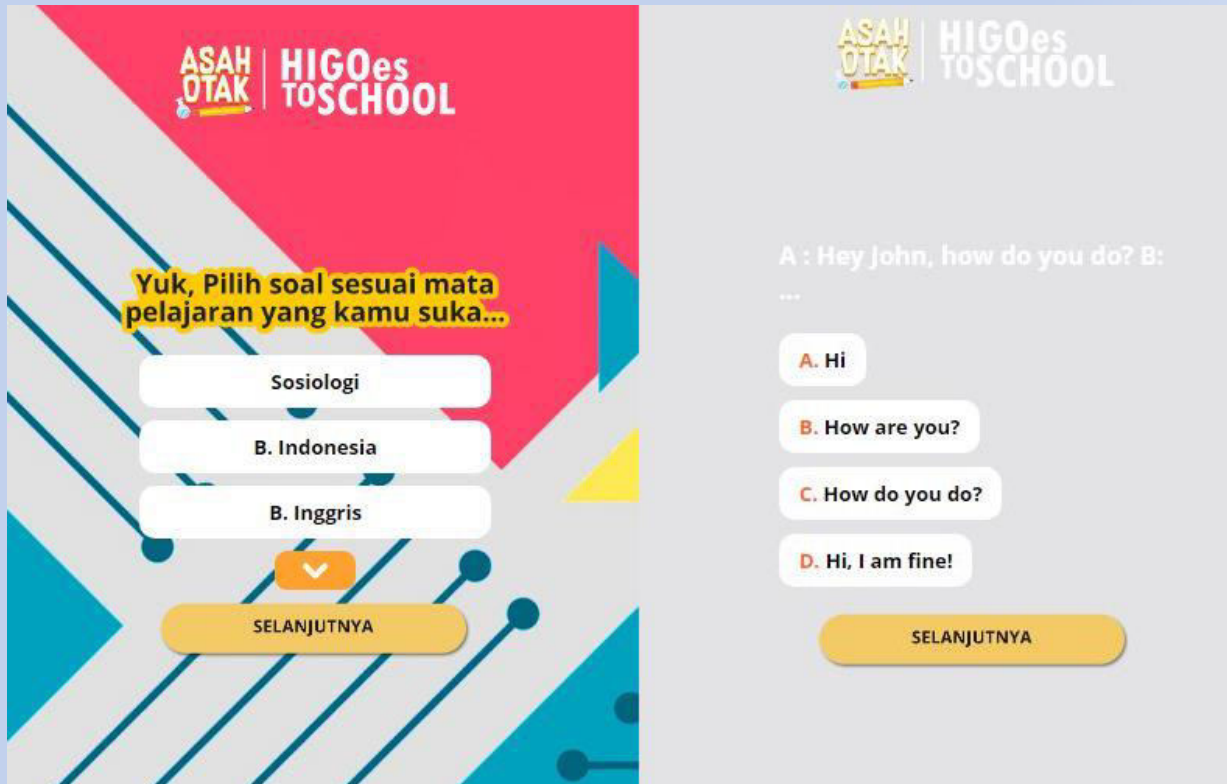
There's three option of boxes, the game is simple, you need to pick one of the box to win a voucher.

Games

The image displays two promotional banners for HIGO games, separated by a vertical line. Both banners feature the HIGO logo, the 'coffee toffee' logo, and the 'zGold MDLPOINTS' logo at the top. The left banner shows a gift box with a teal ribbon and a 'Rp 20.000' label, with the text 'CONGRATULATION!' and 'Isi data diri dibawah ini*' above it. Below this are input fields for 'Phone' and 'Email', a note '*Data valid untuk pengiriman kode voucher', and a 'LOGIN' button. The right banner shows a gift box with a teal ribbon and the text 'COBA LAGI NANTI!' above it, with a 'LOGIN' button below.

If your customer lose, they can come again the next day, if they win, they need to put in their data, essentially registering themselves.

Games



Alternatively, you could put an easy multi-choice quiz.

Games

File Name	Type	Size	Creation Time
hotspot/lose.gif	.gif file	18.6 KiB	May/30/2018 11:28:46
hotspot/win.gif	.gif file	98.7 KiB	May/30/2018 11:28:47
hotspot/alogin.html	.html file	1307 B	May/30/2018 10:26:32
hotspot/eror.html	.html file	898 B	May/30/2018 10:26:32
hotspot/login.html	.html file	3455 B	May/30/2018 10:26:33
hotspot/logout.html	.html file	1813 B	May/30/2018 10:26:33
hotspot/radvert.html	.html file	1509 B	May/30/2018 10:26:37
hotspot/redirect.html	.html file	318 B	May/30/2018 10:26:37
hotspot/rlogin.html	.html file	850 B	May/30/2018 10:26:37
hotspot/status.html	.html file	3009 B	May/30/2018 10:26:37
hotspot/favicon.ico	.ico file	903 B	May/30/2018 10:26:32
hotspot/banner2.jpg	.jpg file	38.9 KiB	May/30/2018 11:28:48
hotspot/banner3.jpg	.jpg file	228.1 KiB	May/30/2018 11:28:50
hotspot/md5.js	.js file	7.0 KiB	May/30/2018 10:26:36
hotspot/box.png	.png file	7.1 KiB	May/30/2018 11:28:50

38 items | 8.6 MiB of 16.0 MiB used | 45% free

You need to make a gif image that will be displayed if the player win or lose, and an image of the box, in the login.html, program it so a player will be randomly redirected to each of the results (win or lose).

Games

WELCOME TO
HIGOSPOT
- FREE WIFI -



HIGO zGold MOBILE LEGENDS BIG VERSUS coffee toffee

Babak Penyisihan
GROGOL 10 Mei 2018 KOTA WISATA | BOGOR PANDU 11 Mei 2018

Babak Final
MARGONDA 1 DEPOK 12 Mei 2018

TOTAL PRIZE **Rp 6.000.000**

Register here : bit.ly/RegistrasiML-CT


More Info # 083311034590 # 08771131289


@CoffeeToffeeIdn @CoffeeToffeeIdn Coffee Toffee Indonesia @CoffeeToffeeIdn


UNTUK PEMASANGAN IKLAN HUBUNGI 021-568-6273

NIKMATI INTERNET GRATIS SELAMA 1 JAM

(Setelah 1 Jam Lakukan Login Kembali
Untuk Mendapatkan Internet Gratis Lagi)

 LOG IN WITH GMAIL

 LOG IN WITH FACEBOOK

 CUSTOMERS LOGIN

[Terms of Use & Privacy Policy](#)

You may even combined all three customization to maximize your WiFi, redirect to the Social Media Login (containing Ads) after the user finished playing the game.

Conclusion

There is many possibility to fully utilized your WiFi, If you are a café manager, you may not want to give your expensive fast connection freely, you may want to exchanged it with the customer's data. And if you installed free WiFi in a public area, maybe there's some advertisers who want to help funding you (by putting their ads in the WiFi).

MikroTik has unlimited possibilities

Contact Us

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Link Reference

- https://wiki.mikrotik.com/wiki/Manual:IP/Hotspot/Walled_Garden
- https://wiki.mikrotik.com/wiki/Manual:Customizing_Hotspot
- <https://developers.facebook.com/docs/facebook-login/>
- <https://dev.twitter.com/web/sign-in/implementing>