

GIT - 版本控制

雲端儲值/消費系統

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Text or Copy Your text and paste it here.

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PART 01

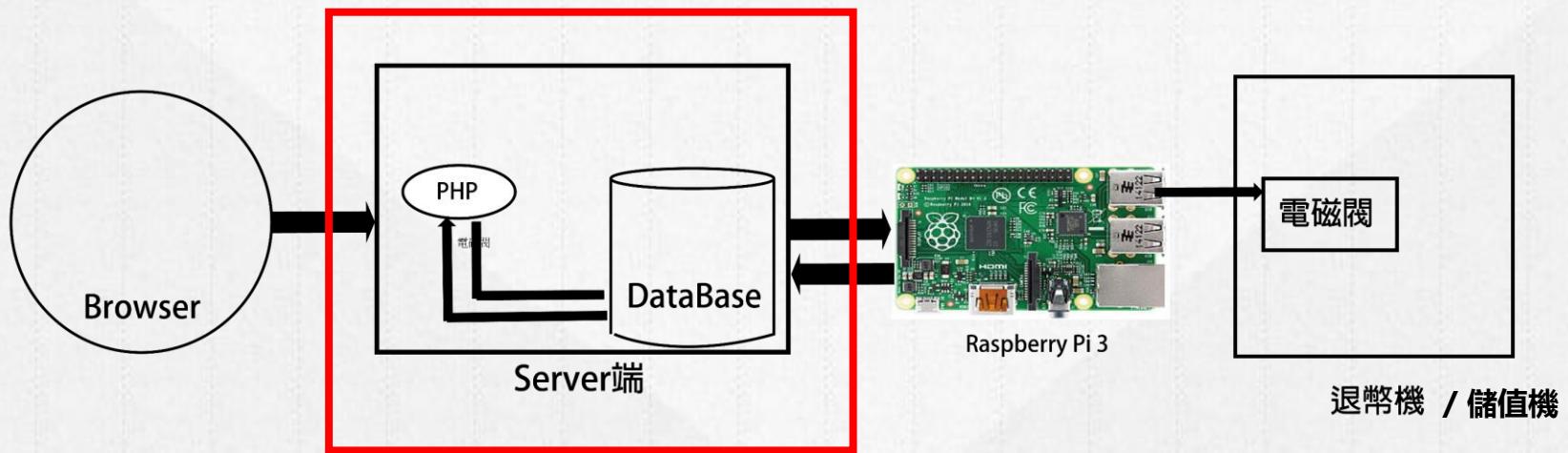
背景介紹

研究背景

在洗衣店裡，時常遇到錢帶不夠，或是機器失靈造成投幣沒有成功，客戶的金錢損失，這時店主就需要親自到店裡解決客人的問題。

以這個出發點為例，如果有一套完整的金流系統，那客戶甚至可以只帶手機，就可以來店洗衣服，所以除了退幣機外，另外製做一套系統，提供儲值金錢的功能，讓客戶可以提前儲值，避免掉沒有帶錢的風險。

系統架構

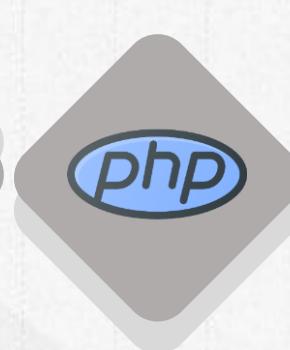


使用程式碼

HTML



JavaScript



PHP





PART 02

2

GIT 目錄規劃

Git目錄、權限規劃

共用目錄：/gpio2

權限：2775

工作者：[ANNY]、KAI

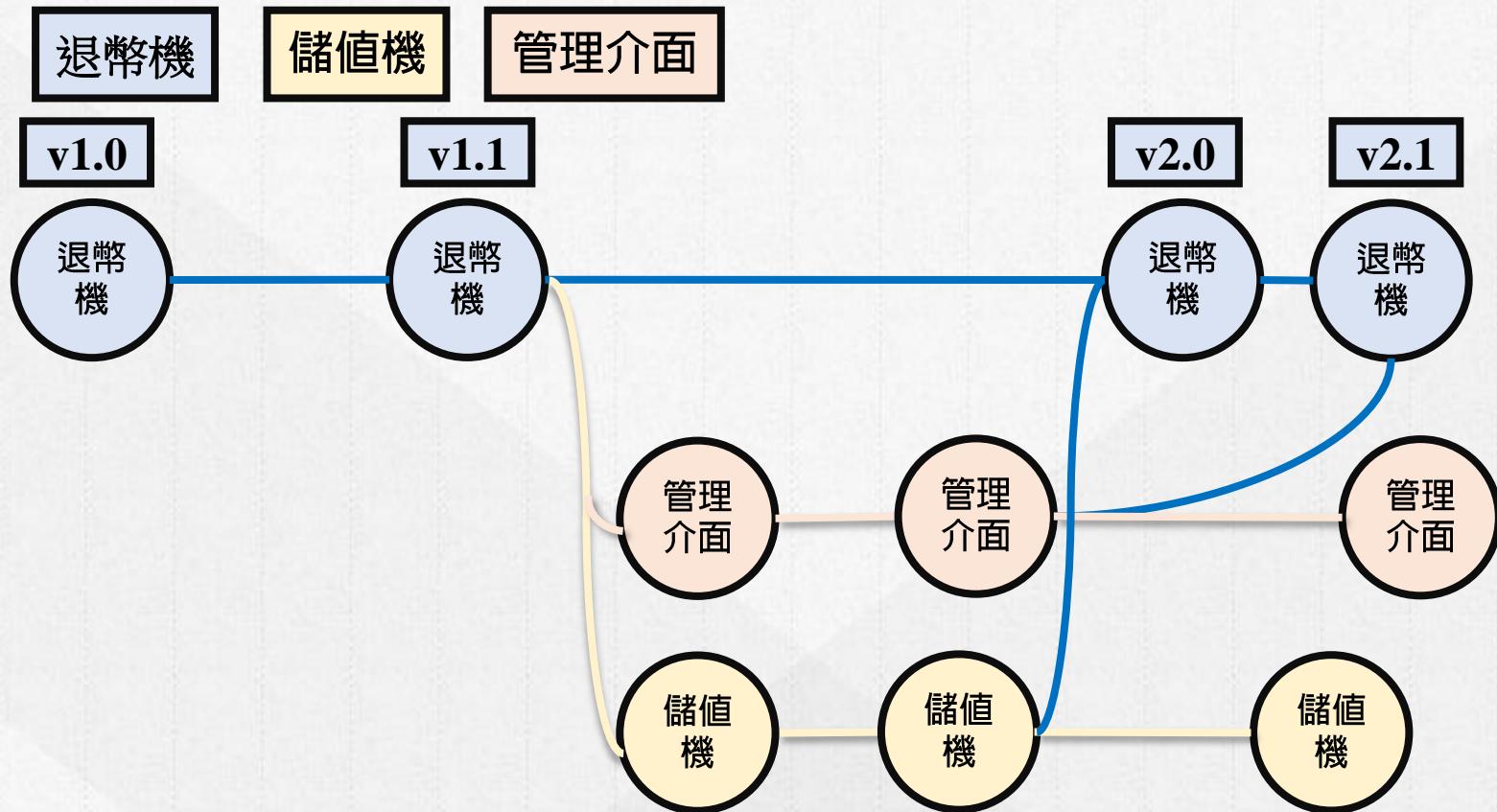
群組：gpio2

```
# id anny  
uid=1001(anny) gid=1002(anny) groups=1002(anny),1003(gpio2)
```

```
# id kai  
uid=1000(kai) gid=1000(kai) groups=1000(kai),1003(gpio2)
```

```
# ll -d /gpio2/  
drwxrwsr-x 2 root gpio2 6 10月 13 09:14 /gpio2/
```

Git流程圖



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PART 03

專案建立

專案開發初始狀態

網頁目錄 : /var/www/html/

檔案	[anny@gitserver gpio2]\$ cd /var/www/html/ [anny@gitserver html]\$ ll 總計 44 -rw-r--r-- 1 anny anny 11699 10月 15 06:30 adm.html -rw-r--r-- 1 anny anny 1622 10月 15 06:29 config.php drwxr-xr-x 2 anny anny 48 10月 15 06:16 css drwxr-xr-x 2 anny anny 4096 10月 15 06:15 image -rw-r--r-- 1 anny anny 6747 10月 15 06:15 index.html drwxr-xr-x 2 anny anny 51 10月 15 06:15 js -rw-r--r-- 1 anny anny 3825 10月 15 06:26 login.html -rw-r--r-- 1 anny anny 960 10月 15 06:28 login.php drwxr-xr-x 2 anny anny 100 10月 15 06:16 ncss -rw-r--r-- 1 anny anny 4375 10月 15 06:24 newpwd.html drwxr-xr-x 2 anny anny 57 10月 15 06:16 nimages drwxr-xr-x 2 anny anny 131 10月 15 06:16 njs
----	---

專案開發初始狀態

The screenshot shows a web-based application interface for managing ATM equipment. The title bar indicates the URL is 120.114.142.26/index.html. The main content area is titled "退幣機服務系統" (ATM Service System) and includes a welcome message: "歡迎使用退幣機小幫手".

The interface is divided into three main sections:

- 設備列表 (Equipment List):** A panel showing a message "尚無設備" (No equipment yet).
- 增刪設備 (Add/Delete Equipment):** A panel containing fields for "設備編號" (Equipment Number), "密碼" (Password), and "名稱" (Name). It also features two buttons: "新增" (Add) and "刪除" (Delete).
- 更多操作 (More Operations):** A panel with two buttons: "更改設備密碼" (Change Equipment Password) and "刪除所有設備" (Delete All Equipment).

At the bottom of the page, there is a copyright notice: "Copyright © Enable Key Invention Business".

新增git使用者

```
[anny@gitserver html]$ git config --global user.email 'anny@gmail.com'  
[anny@gitserver html]$ git config --global user.name 'anny'  
[anny@gitserver ~]$ git config --list  
user.email=anny@gmail.com  
user.name=anny
```

```
[kai@gitserver ~]$ git config --global user.email 'kai@gmail.com'  
[kai@gitserver ~]$ git config --global user.name 'kai'  
[kai@gitserver ~]$ git config --list  
user.email=kai@gmail.com  
user.name=kai
```

專案建立

```
[anny@gitserver ~]$ git init /var/www/html/  
Initialized empty Git repository in /var/www/html/
```

```
[anny@gitserver html]$ git status  
On branch master  
No commits yet  
Untracked files:  
(use "git add <file>..." to include in what will be committed)  
adm.html  
config.php  
....  
njs/  
nothing added to commit but untracked files present (use "git add" to track)
```

加入工作目錄

```
[anny@gitserver html]$ git add -A  
[anny@gitserver html]$ git status  
On branch master
```

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)

```
new file: adm.html  
new file: config.php  
...  
.....  
.....  
new file: njs/bootstrap.min.js  
new file: njs/jquery.min.js
```

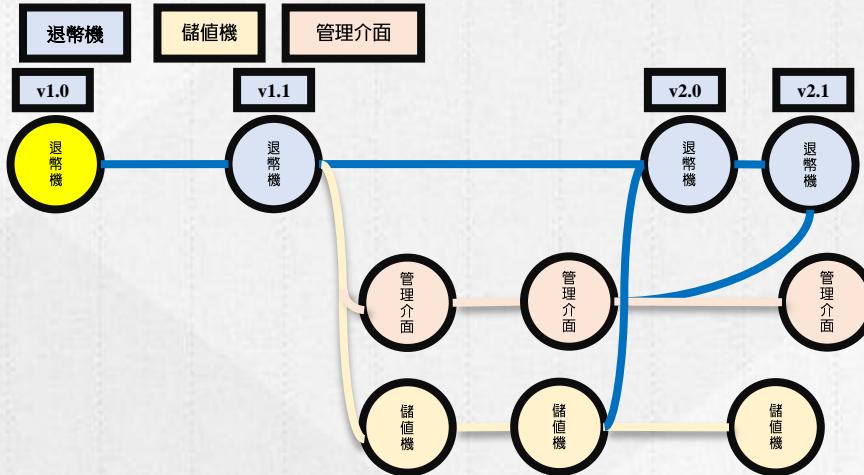
專案commit – V1.0

```
[anny@gitserver html]$ git commit -a -m 'first version create'  
[master (root-commit) 96f4d7e] first version create  
43 files changed, 12779 insertions(+)  
create mode 100644 adm.html  
...  
create mode 100644 image/button.png
```

```
[anny@gitserver html]$ git tag -m "Tag version v 1.0" v1.0 96f4d7
```

```
[anny@gitserver html]$ git log  
commit 96f4d7e85b78ab0f7f990a58f93d4c9f6a95eb1a (HEAD -> master , tag: v1.0)  
Author: anny <anny@gmail.com>  
Date: Thu Oct 15 08:10:19 2020 -0400
```

first version create



建立程式碼-新增電子退幣

```
[anny@gitserver html]$ git status  
On branch master  
Untracked files:  
(use "git add <file>..." to include in what will be committed)
```

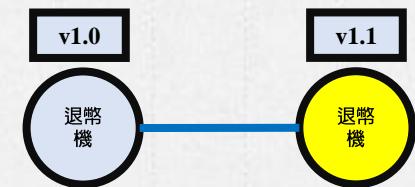
pwd.php

nothing added to commit but untracked files present (use "git add" to track)

```
[anny@gitserver html]$ git add -A  
[anny@gitserver html]$ git commit -a -m 'add electronic refund'  
[master 4c6bbc8] add electronic refund  
1 file changed, 413 insertions(+)  
create mode 100644 pwd.php  
[anny@gitserver html]$ git status  
On branch master  
nothing to commit, working tree clean
```

```
[anny@gitserver html]$ git tag -m "Tag version v 1.1" v1.1 4c6bbc  
[anny@gitserver html]$ git log  
commit 4c6bbc815907a0c1d9e66fab95e9ab64d65a77e2 (HEAD -> master , tag: v1.1)  
Author: anny <anny@gmail.com>  
Date: Fri Oct 16 09:09:23 2020 -0400
```

add electronic refund



建立程式碼-新增電子退幣

The screenshot shows a web application titled "退幣機服務系統" (Coin Change Machine Service System). The main page features a yellow banner with a checkmark icon and the text "機器狀況評估中....". Below the banner are three main functional modules:

- 退幣**: A form for entering the device name (設備名稱) and the number of coins to be returned (付出硬幣數), with a "送出" (Send) button.
- 電子退幣**: A form for selecting a coin machine (投幣機器) and specifying the number of coin insertions (啟動投幣次數), with a "確定" (Confirm) button.
- 重設硬幣數量**: A form for entering the new coin quantity (重設硬幣數), with a "確定" (Confirm) button.

At the bottom of the page is a search bar for querying historical records (查詢歷程紀錄) with a date input field set to "2020.10.16" and a "查詢" (Search) button. There is also a "回首頁" (Back to Home) link at the bottom center.

建立裸容器

裸容器位置： /gpio2/gpio2.git

```
[anny@gitserver html]$ git clone --bare /var/www/html /gpio2/gpio2.git
Cloning into bare repository '/gpio2/gpio2.git'...
done.
```

```
[anny@gitserver html]$ cd /gpio2/gpio2.git/
```

```
[anny@gitserver gpio2.git]$ git log
commit 96f4d7e85b78ab0f7f990a58f93d4c9f6a95eb1a (HEAD -> master , tag: v1.0)
Author: anny <anny@gmail.com>
Date:  Thu Oct 15 08:10:19 2020 -0400
```

first version create

連結至裸容器-KAI

```
[kai@gitserver ~]$ git init gpio2
Initialized empty Git repository in /home/kai/gpio2/.git/
[kai@gitserver ~]$ cd gpio2/
[kai@gitserver gpio2]$ git remote add gpio2 /gpio2/gpio2.git/
[kai@gitserver gpio2]$ git remote update
Fetching gpio2
remote: Enumerating objects: 50, done.
..
From /gpio2/gpio2
 * [new branch] master -> gpio2/master
[kai@gitserver gpio2]$ git branch -a
remotes/gpio2/master
[kai@gitserver gpio2]$ git pull gpio2 master
From /gpio2/gpio2
 * branch master -> FETCH_HEAD
```

建立程式碼-新增廠商管理頁面

```
[kai@gitserver gpio2]$ git branch  
distributor  
* master
```

```
[kai@gitserver gpio2]$ git checkout distributor  
Switched to branch 'distributor'
```

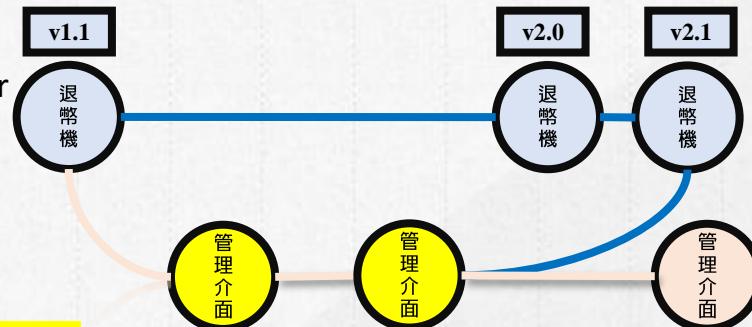
```
[kai@gitserver gpio2]$ ll  
總計 68  
..  
drwxr-xr-x 7 kai kai 4096 10月 16 09:42 distributor
```

```
[kai@gitserver gpio2]$ git log  
commit 28da785ac8d2fac27e2e2f39a8e79e4b127778d7 (HEAD -> distributor)  
Author: kai <kai@gmail.com>  
Date: Fri Oct 16 09:46:22 2020 -0400
```

add Distributor system

```
commit dafcfefbd87af7c2244f092a91d952197b1a8488 (gpio2/master, master)  
Author: anny <anny@gmail.com>  
Date: Fri Oct 16 08:58:12 2020 -0400
```

add electronic refund



建立程式碼-新增廠商管理頁面

```
[kai@gitserver gpio2]$ git push gpio2 distributor
Total 0 (delta 0), reused 0 (delta 0)
To /gpio2/gpio2.git/
 * [new branch] distributor -> distributor
```

```
[kai@gitserver gpio2]$ git branch -a
distributor
* master
remotes/gpio2/distributor
remotes/gpio2/master
```

建立程式碼-新增儲值機管理頁面

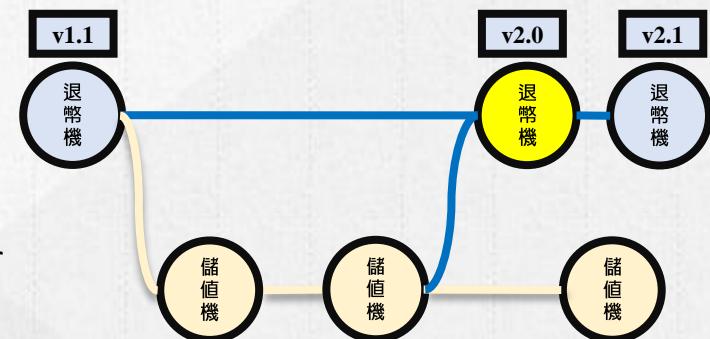
```
[anny@gitserver html]$ git branch  
  master  
* member  
[root@gitserver html]# ll  
...  
-rw-rw-r-- 1 anny anny 5585 10月 16 10:24 pay2.html
```

```
[anny@gitserver html]$ git log  
commit e01a1c9f4b6550fe9987c30e6547d13dbddac640 (HEAD -> member)  
...  
  add member pay system  
....
```

```
[anny@gitserver html]$ git branch  
* master  
  member
```

```
[anny@gitserver html]$ git merge member  
Updating 4c6bbc8..e01a1c9  
...
```

```
[anny@gitserver html]$ git tag -m "Tag version v 2.0" v2.0 e01a1c  
[root@gitserver html]# git log  
commit e01a1c9f4b6550fe9987c30e6547d13dbddac640 (HEAD -> member, tag: v2.0)  
....  
  add member pay system  
....
```



建立程式碼-新增儲值機管理頁面

The screenshot shows a web browser window with the following details:

- Address Bar:** 不安全 | 120.114.142.26/pay2.html
- Toolbar:** 應用程式, Gmail, YouTube, 翻譯, drbd, pcs, 機密伺服器, OpenLDAP, LDAP實作, 26spice, 批踢踢實業坊, Study-Area, 389DS, Failed to connect..., pGina, RedHat訂閱, Considerations in..., RHEL7上的NSS-Re...
- Content Area:**
 - Header:** 手機遠端儲值/消費服務系統
您已進入加值系統😊
 - Message:** 恭喜你獲得抽IPHONE12的機會
2020-10-17 17:15:12
 - Text Box:** 加值完畢
 - Offer Section:** 請參考儲值方案
 - 100元 200點
 - 200元 300點
 - 500元 600點
 - 1000元 10000點
 - 2000元 20000點
 - Membership Section:** 翁士門會員目前點數
0958692362 目前擁有三台瑪莎拉蒂
 - Footer:** 回首頁

專案合併前

```
[anny@gitserver html]$ git show-branch -a
* [master] add member pay system
! [member] add member pay system
! [gpio2/distributor] add Distributor system
! [gpio2/master] add Distributor system
---
++ [gpio2/distributor] add Distributor system
++ [gpio2/distributor^] add electronic refund
*+ [master] add member pay system
*+ [master^] add electronic refund
*++ [gpio2/distributor~2] first version create
```

專案合併後

```
[anny@gitserver html]$ git remote add gpio2 /gpio2/gpio2.git/
```

```
[anny@gitserver html]$ git branch -a
```

```
* master  
  member  
  remotes/gpio2/distributor  
  remotes/gpio2/master
```

```
[anny@gitserver html]$ git checkout -b distributor gpio2/distributor  
Branch 'distributor' set up to track remote branch 'distributor' from 'gpio2'.  
Switched to a new branch 'distributor'
```

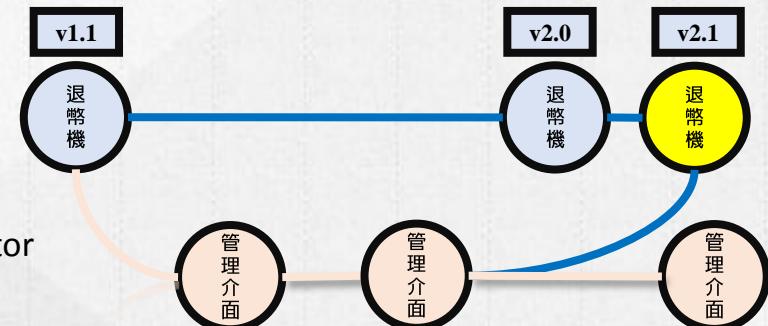
```
[anny@gitserver html]$ git branch  
  distributor  
* master  
  member
```

```
[anny@gitserver html]$ git merge distributor  
Updating ece3836.. 4f089a6
```

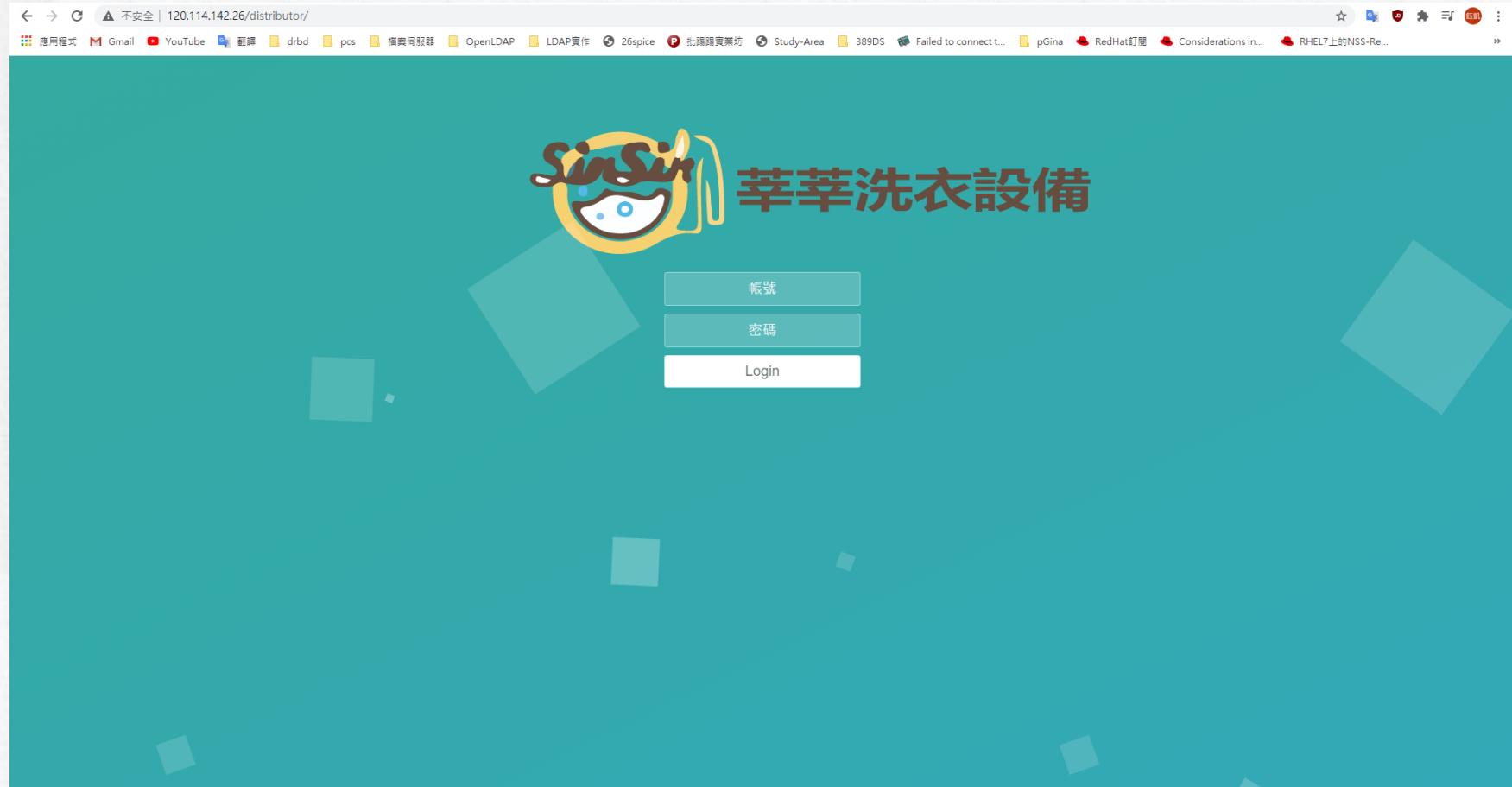
...

```
[anny@gitserver html]$ git tag -m "Tag version v 2.1" v2.1 ece383  
commit ece3836875b9495f14a67ab7ae7f391714f089a6 (HEAD -> master, tag: v2.1)
```

.....



專案合併





開發時注意事項-ANNY

開發前：

目錄規劃，權限分配，分配幾隻分支，分支命名

開發中：

分支進度追蹤，何時將分支合併
合併時衝突該保留哪個檔案，何時將檔案釋出並TAG

開發後：

檢查最後幾隻分支哪隻為最大，是否需要rebase
檢查網頁目錄進度，是否跟共用目錄相同

開發時注意事項-KAI

開發前：

遠端參照路徑，以及確認檔案是否同步

開發中：

推送衝突(push)，該如何解決
如果主工作者不在時，協力工作者該如何解決問題

開發後：

如何交接給業主
最後的主線是否跟其他支線合併

特殊問題

```
[kai@gitserver gpio2]$ git checkout master
warning: unable to unlink 'distributor/css/bootstrap.min.css': 拒絕不符權限的操作
warning: unable to unlink 'distributor/css/index.css': 拒絕不符權限的操作
warning: unable to unlink 'distributor/css/login.css': 拒絕不符權限的操作
warning: unable to unlink 'distributor/css/public.css': 拒絕不符權限的操作
warning: unable to unlink 'distributor/css/style.css': 拒絕不符權限的操作
warning: unable to unlink 'distributor/css/style2.css': 拒絕不符權限的操作
warning: unable to unlink 'distributor/images/logo.png': 拒絕不符權限的操作
warning: unable to unlink 'distributor/js/cache.js': 拒絕不符權限的操作
warning: unable to unlink 'distributor/js/index.js': 拒絕不符權限的操作
warning: unable to unlink 'distributor/js/layui.js': 拒絕不符權限的操作
warning: unable to unlink 'distributor/js/main.js': 拒絕不符權限的操作
warning: unable to unlink 'distributor/layui/css/layui.css': 拒絕不符權限的操作
warning: unable to unlink 'distributor/page/main.html': 拒絕不符權限的操作
warning: unable to unlink 'distributor/page/main.php': 拒絕不符權限的操作
Switched to branch 'master'
```

特殊問題

```
[anny@gitserver html]$ git show-branch -a
! [distributor] add Distributor system
* [master] Merge branch 'distributor' of /gpio2/gpio2
! [member] add member pay system
! [gpio2/distributor] add Distributor system
! [gpio2/master] add Distributor system
-----
- [master] Merge branch 'distributor' of /gpio2/gpio2
+* ++ [distributor] add Distributor system
+* ++[distributor^] add electronic refund
*+ [member] add member pay system
*+ [member^] add electronic refund
+*++ [distributor~2] first version create
```

謝謝觀看

Thank you for your listening