

Project: IP Management Application

There are many PC in the factory which makes the IP management difficult. So I made a small application to better manage the IP. The following paragraph will demonstrate the function of this application

1. Start up screen: If this is the first time you use this application, there is the “First Time” button to set up the database connection. If you’ve set up the connection before, the application will malfunction this button. The application will detect the text file in your C drive (C:\\IPWizard\\info\\databaseInfo.txt) and make connection based on the information you provided previously.

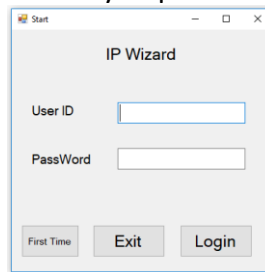


Image 1

2. First Time: Key in the IP address, login ID, password which database you want to connect with. If there is no database which store the ip data, then just simply click the “add new database” and new account ID and password for the new IP database.

Image 2

Image 3

3. Main Menu: After you login or set up the first time, you will enter a main menu which displaying all the information of each working station showing in image 5 or showing nothing in image 4 if you haven't key in any information yet.

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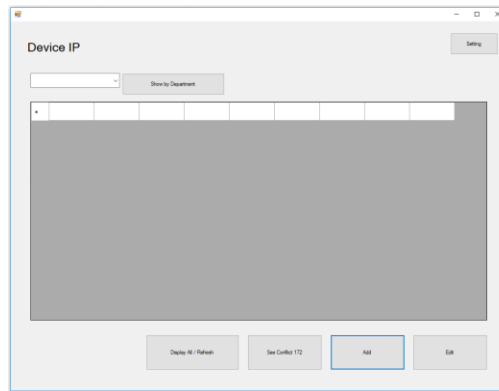


Image 4

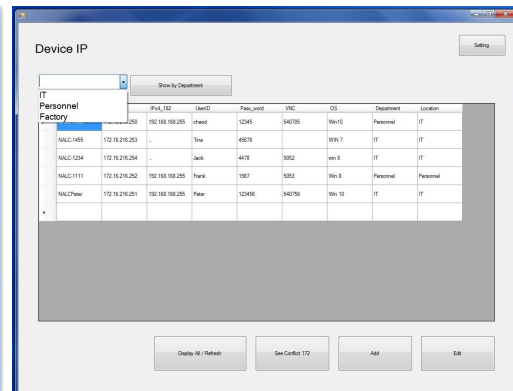


Image 5

4. Setting: In the setting button, you can add user or add department group

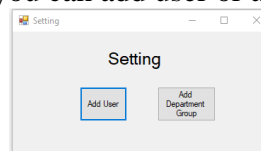


Image 6

5. Add Department Group: You can add new department or group by clicking the Add button showing in image 7. You can also edit or delete certain department or group by clicking the row in the data table and click Edit or Delete button. The data will be automatically appears in the text box for you to edit. Simply click Confirm button to save the data. Only the department key in here can the main menu and edit menu find the department name. Department's Flag will be assigned as "D". 172's Flag will be assigned G while 192's Flag will be assigned F.

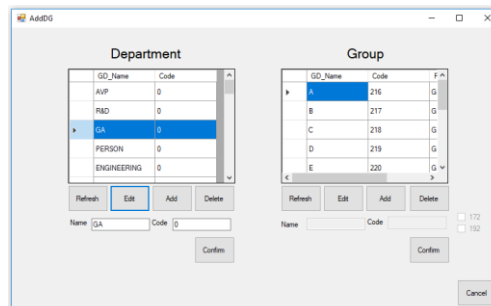


Image 7

6. Add: You can add new PC by clicking the Add button in Main Menu (image 5). When you key in the IP, the application will automatically show Good sign if the IP address is not in the database or Used sign otherwise. You can click Ping button to Ping the address. Good sign means the ping is failed (no terminal under this IP address). You can click Get button to get an unused IP after entering the second and the third part of IP address and the application will fill in the fourth

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part of IP address for you. Some working station requires 2 IP address due to two networking cards. Usually, IT set the fourth part of IP the same in both 172 and 192, then you can simply click the “Similar” checkbox and then click “Get” button for 192. Some working station allows the used IP for 192 due to no connection to the Ethernet, so you can click the “Allow Duplicate” button to avoid application blockage for duplicate IP address appearing in the database. Click “Confirm” to save the data.

The screenshot shows a web-based form titled "Add PC Info and IP". The form is organized into two main sections. The left section contains input fields for: PC Name (30) with value "NALC-XXXX", OS with value "Win7", Department with a dropdown menu showing "IT", User ID, PassWord, VNC, and Location (25). The right section is for IP configuration. It has two rows: one for 172 and one for 192. Each row has input fields for the second and third octets of the IP address, a dropdown for the fourth octet, and a "Get" button. For the 172 row, the second octet is "16", the third is "216 A", and the fourth is "0". There are "Good" and "Ping" buttons next to the 172 row. A "Similar" checkbox is located between the two IP rows. Below the 192 row is an "Allow Duplicate" checkbox. At the bottom right of the form are "Confirm" and "Cancel" buttons.

Image 8

7. Edit: You can edit the pc information by clicking on the working station you want to modify and click Edit button in the main menu. The original data will show in the top of the screen and displaying in the text box for you to modify. Click “Confirm Edit” when you finish editing and save data.

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Edit PC ID: 1

ID	PC_Name	IPv4_172	IPv4_192	UserID	Pass_word	VNC	OS
1	NALC-1932	172.16.216.250	192.168.168.255	chaod	12345	540705	Win10

PC Name NALC-1932 **Location** IT
User ID chaod **OS** Win10
PassWord 12345 **172** 16 **216 A** 250 **Good**
VNC 540705 **192** 168 **168 B** 255 **Used**
Department Personnel ☐ Allow Duplicate

8. Displaying by department: The department showing in the combo box need to be key in first in the Setting menu. After choosing the department, you just need to click “Show by Department” to display the working station information in the department.

Device IP

ID	PC_Name	IPv4_172	IPv4_192	UserID	Pass_word	VNC	OS	Department	Location
1	NALC-1932	172.16.216.250	192.168.168.255	chaod	12345	540705	Win10	Personnel	IT
2	NALC-1455	172.16.216.253	...	Tina	45678	...	WIN 7	IT	IT
3	NALC-1234	172.16.216.254	...	Jack	4478	5052	win 8	IT	IT
4	NALC-1111	172.16.216.252	192.168.168.255	Frank	1987	5053	Win 8	Personnel	Personnel
5	NALCPeter	172.16.216.251	192.168.168.255	Peter	123456	540756	Win 10	IT	IT