

# SIS7000A Smart Reels Storage Rack Manual (2025 Version)



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## Chapter 1: Set up the server

### 1.1 Note before installation

If you have the local server, you can skip this chapter, jump to Chapter 2: Set up the Rack.

#### Hardware Requirements:

- a. CPU Compatibility: The CPU must support virtualization instructions. For Intel CPUs, VT-x technology is required; for AMD CPUs, SVM (Secure Virtual Machine) support is mandatory. Note that some motherboards may have virtualization options disabled by default. Refer to your motherboard user manual for instructions on enabling virtualization features. (If manual is unavailable, search using keywords like "MSI CPU Virtualization Enable".)
- b. Memory Allocation: Minimum 16GB RAM is required. Allocate at least 8GB to the virtual machine (16GB recommended for optimal performance).
- c. Storage Capacity: A hard drive with  $\geq 500$ GB capacity is mandatory.

### 1.2 Virtual Machine Installation:

Supported Virtualization Platforms:

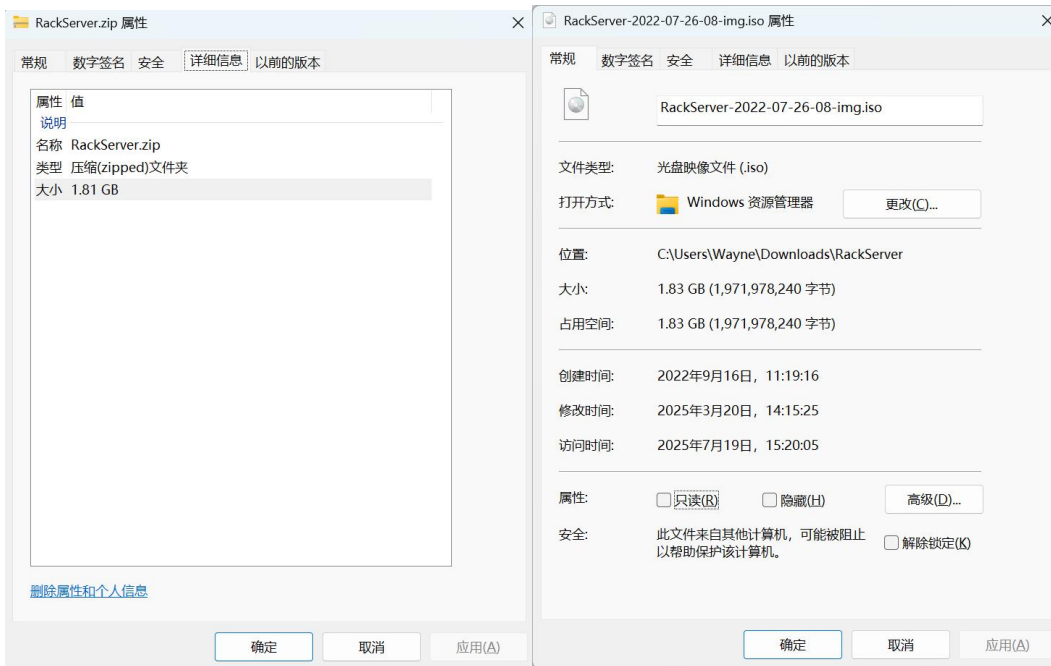
Currently compatible with VirtualBox, VMware Series (VMware Workstation/ Player/ ESXi), Hyper-V, Proxmox VE (PVE), and other industry-standard virtualization solutions.

Below is the Setting Manual of VirtualBox.

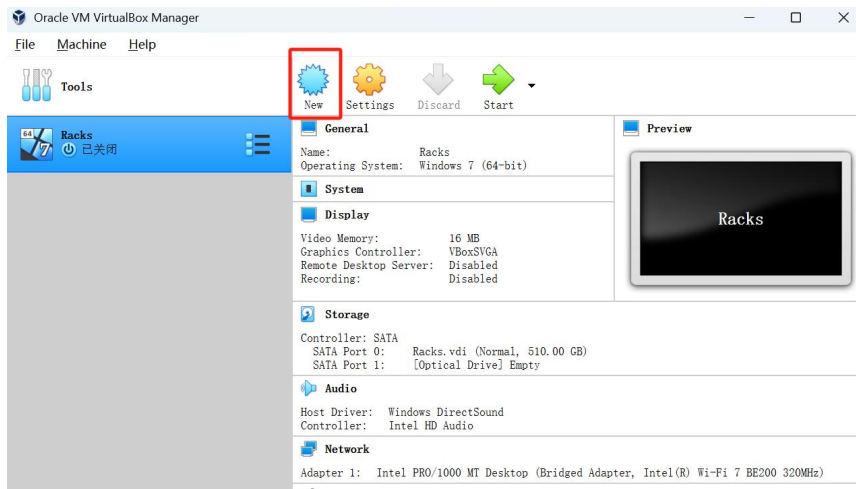
#### 1. Download and install VirtualBox.exe



## 2. Download and Unzip the File “RackServer.zip”



## 3. Open VirtualBox and Set the Rackserver




← Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

Machine Folder:

Type: Microsoft Windows 

Version: Windows 7 (64-bit)


**Expert Mode** Next Cancel

← Create Virtual Machine

Name and operating system

Name: Rackserver **1. Rename**

Machine Folder:  **2. Choose the storage directory**

Type: Linux **3. Choose System Type** 

Version: Debian (64-bit)

Memory size

16348 MB

4 MB **4. Set memory size** 16384 MB

Hard disk

Do not add a virtual hard disk

Create a virtual hard disk now **5. Choose "create a virtual hard disk now"**

Use an existing virtual hard disk file

**6. Create**

Guided Mode Create Cancel

← Create Virtual Hard Disk

File\_location **1. Set the save path**  
D:\VM virtualBox\Virtual system\Rackserver\Rackserver.vdi

File\_size **2. Set File size (Require over 500GB, The actual creation will not take up 500GB immediately.)**  
4.00 MB 2.00 TB 501 GB

Hard disk file\_type **3. Choose VDI** Storage on physical hard disk

- VDI (VirtualBox Disk Image)
- VHD (Virtual Hard Disk)
- VMDK (Virtual Machine Disk)
- HDD (Parallels Hard Disk)
- QCOW (QEMU Copy-On-Write)
- QED (QEMU enhanced disk)

Dynamically allocated

Fixed size

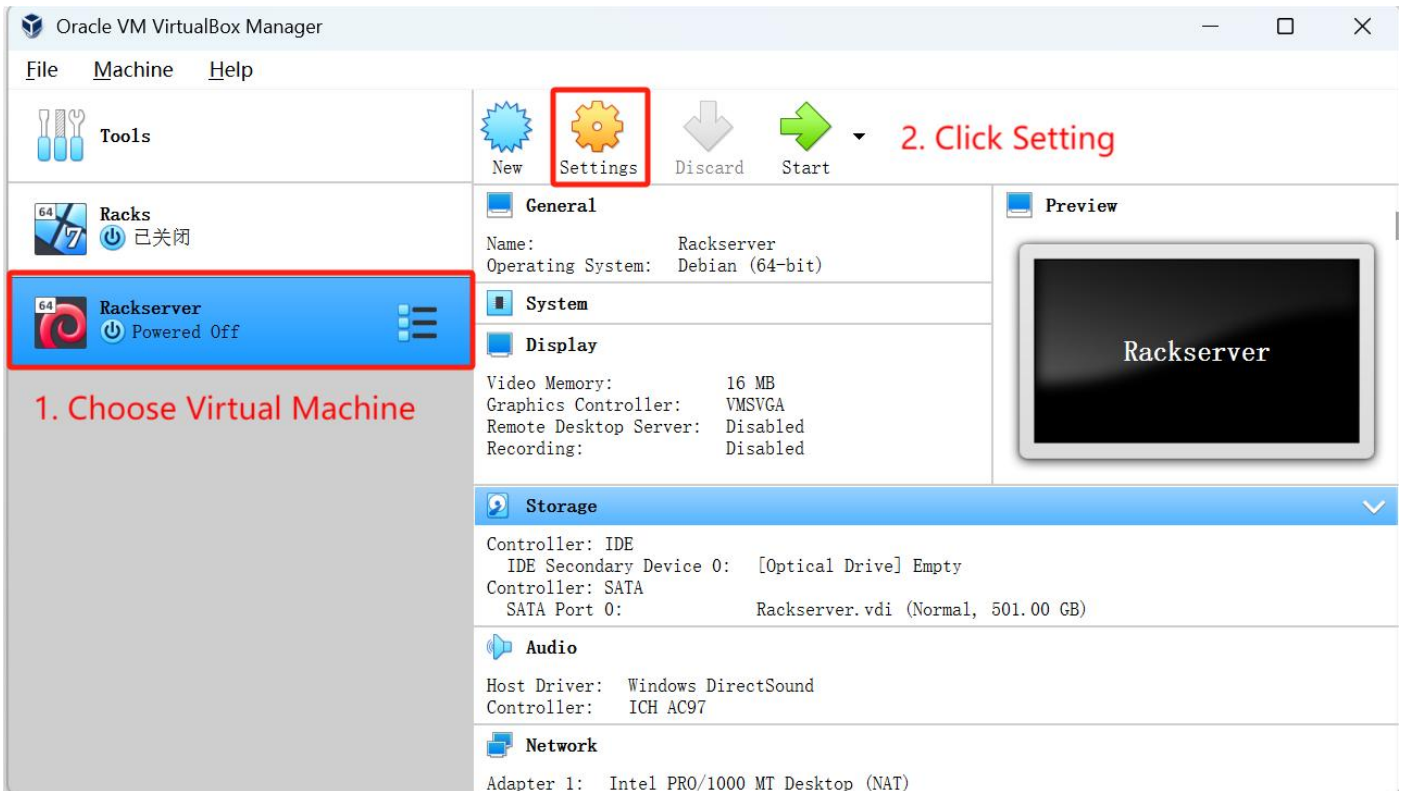
Split into files of less than 2GB

**4. Choose Dynamically allocated**

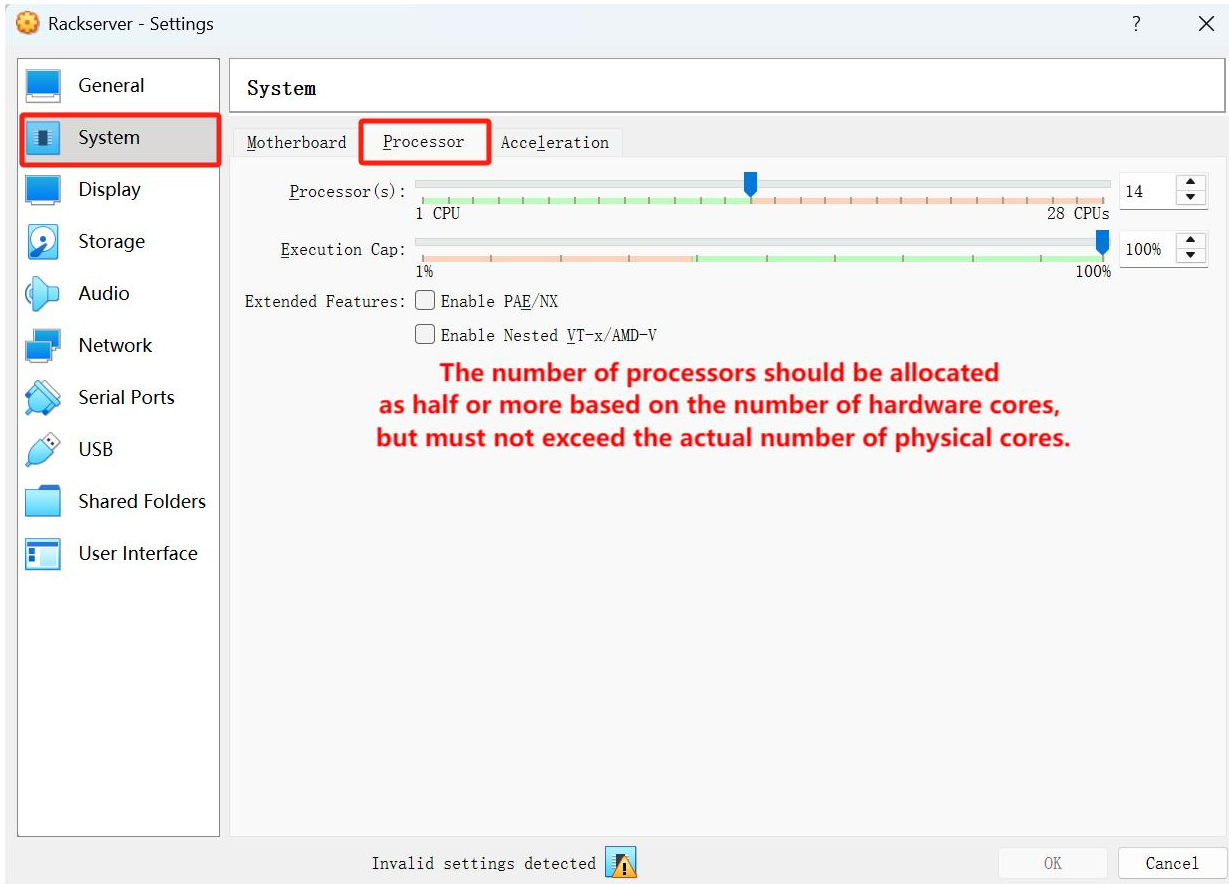
**5. Create**

Guided Mode Create Cancel

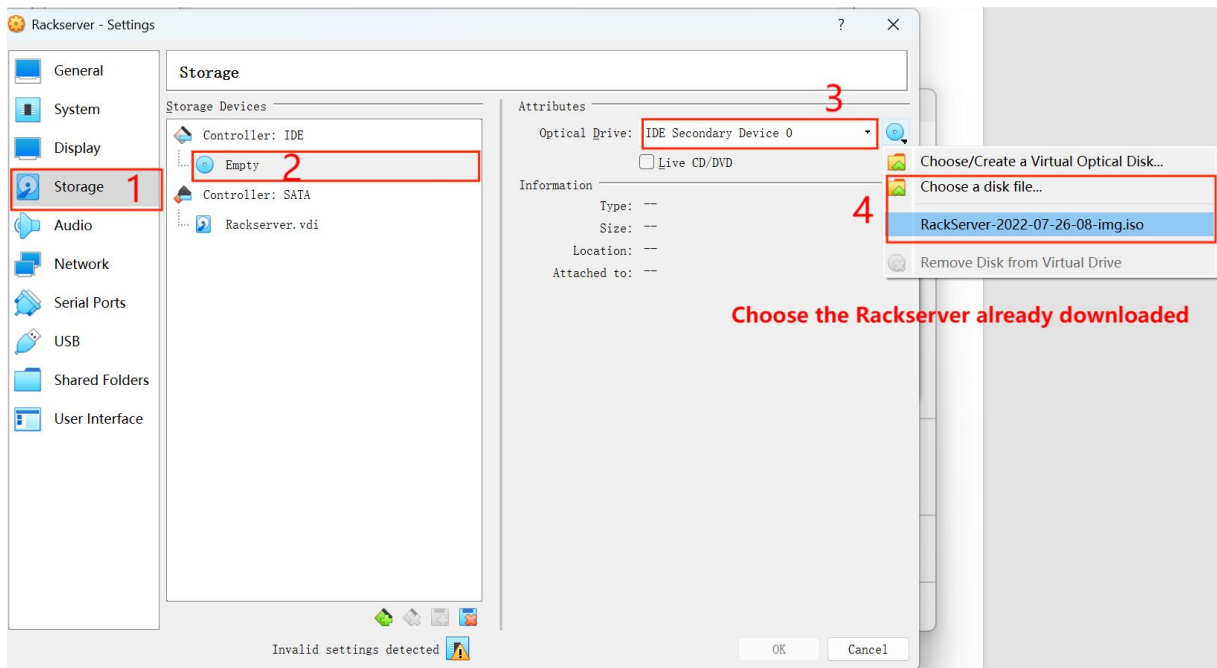
## Set Virtual Machine parameter

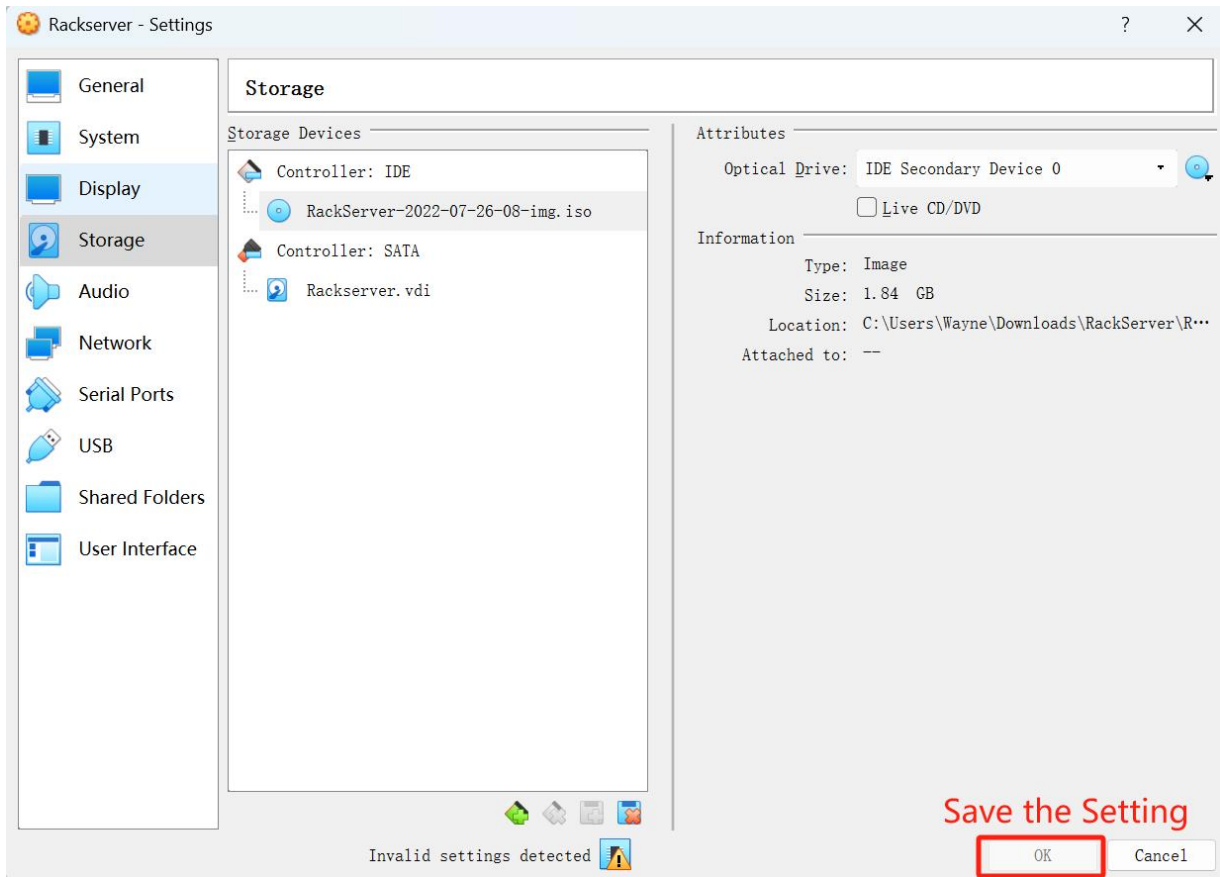


## Set Virtual Machine CPU parameter

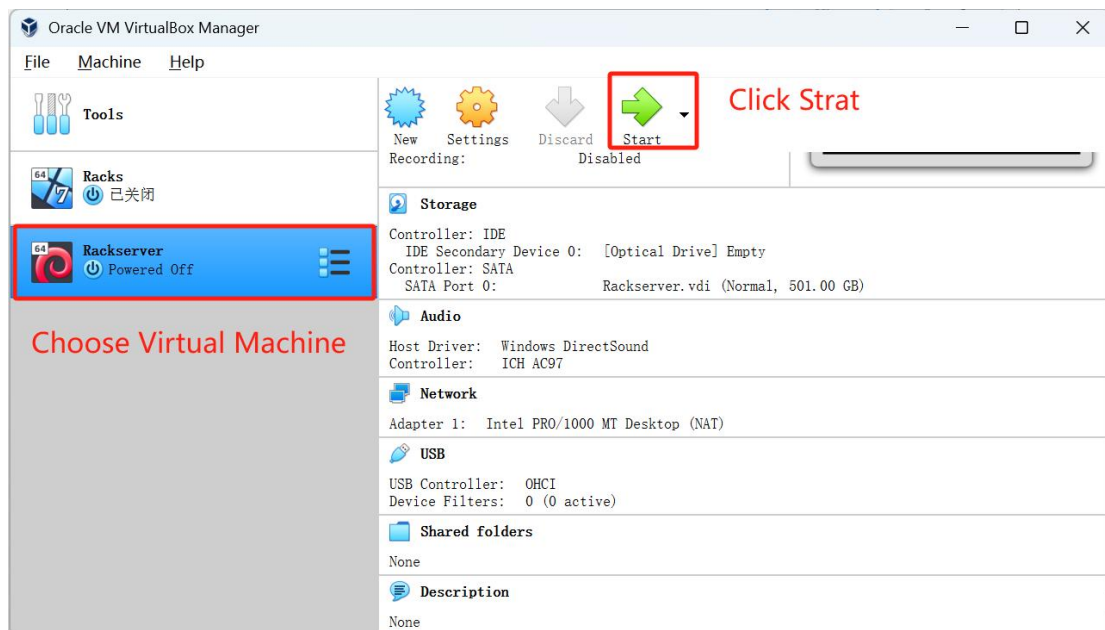


## Set the virtual machine to boot from the optical disc.

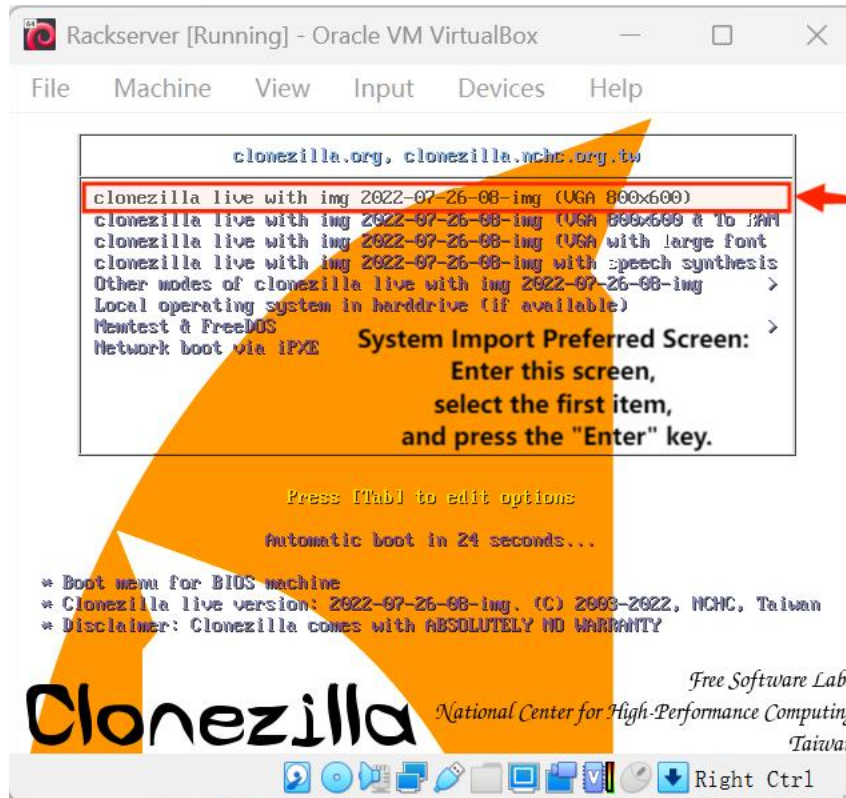




## 1.3 Virtual Machine Network Configuration



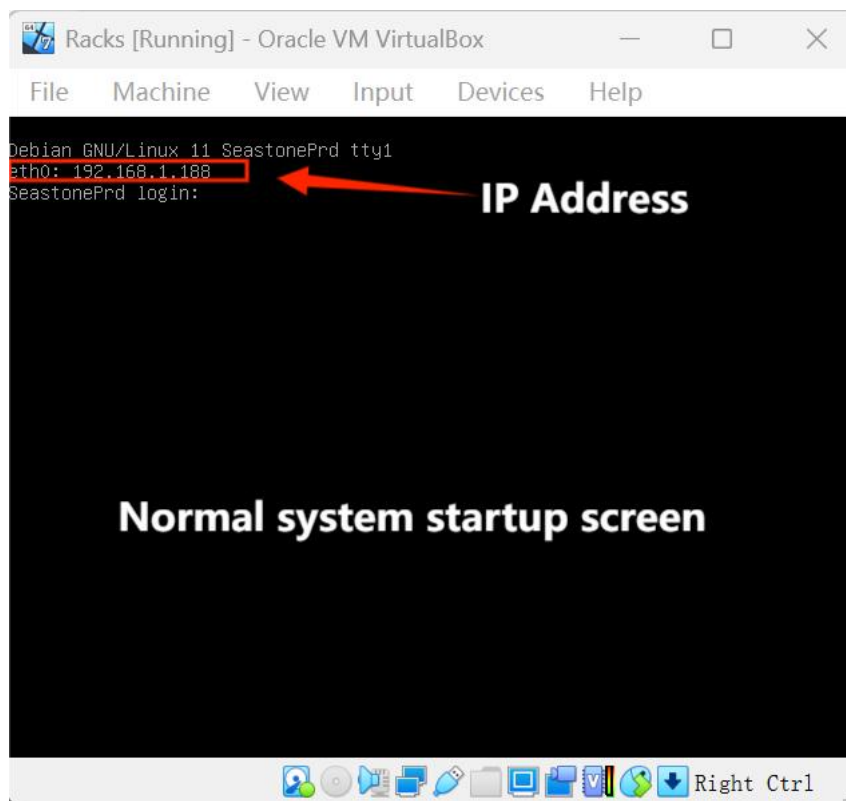
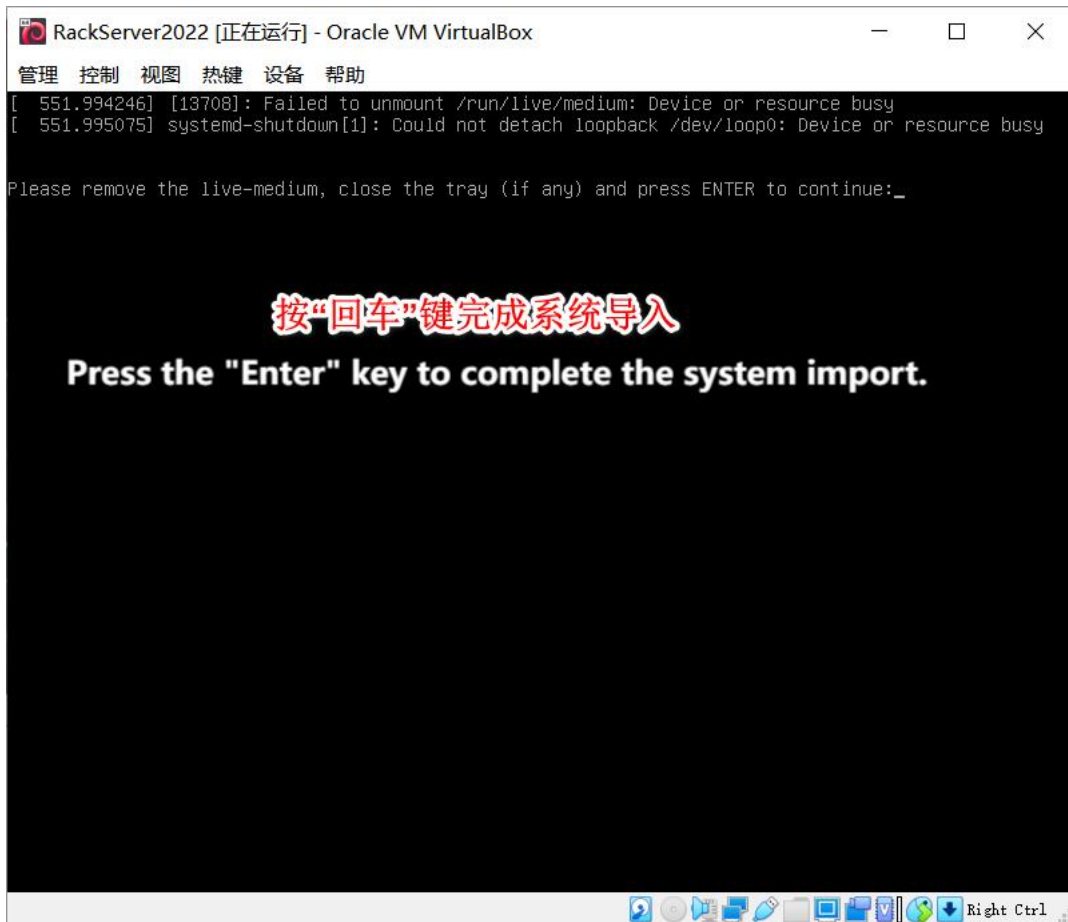
Choose the First one



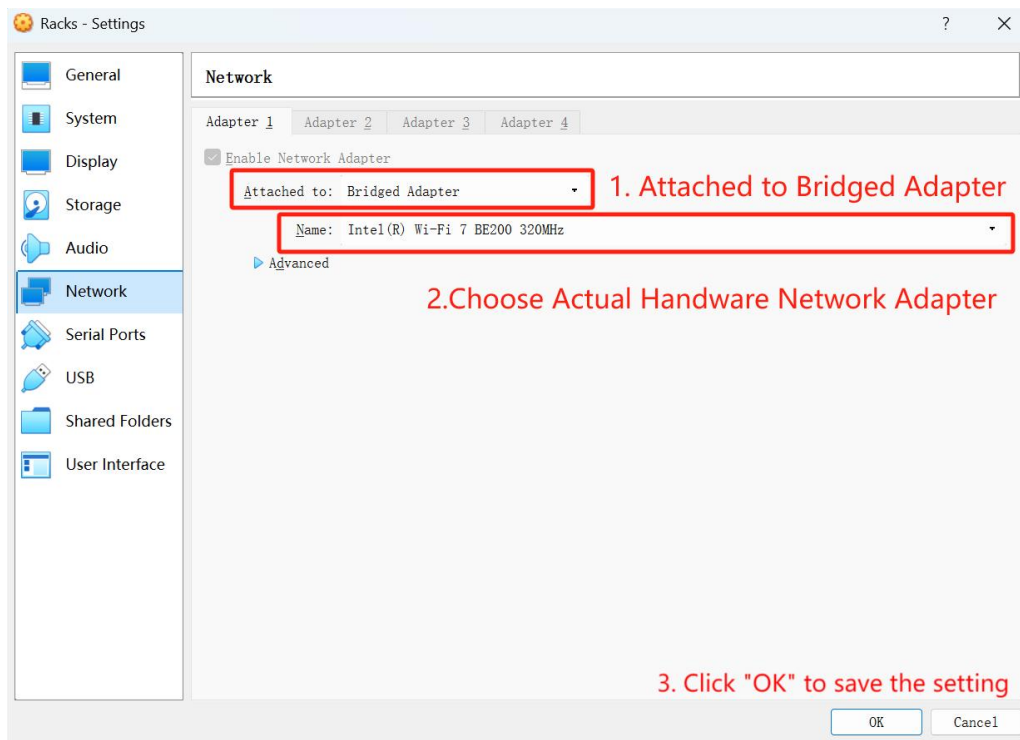
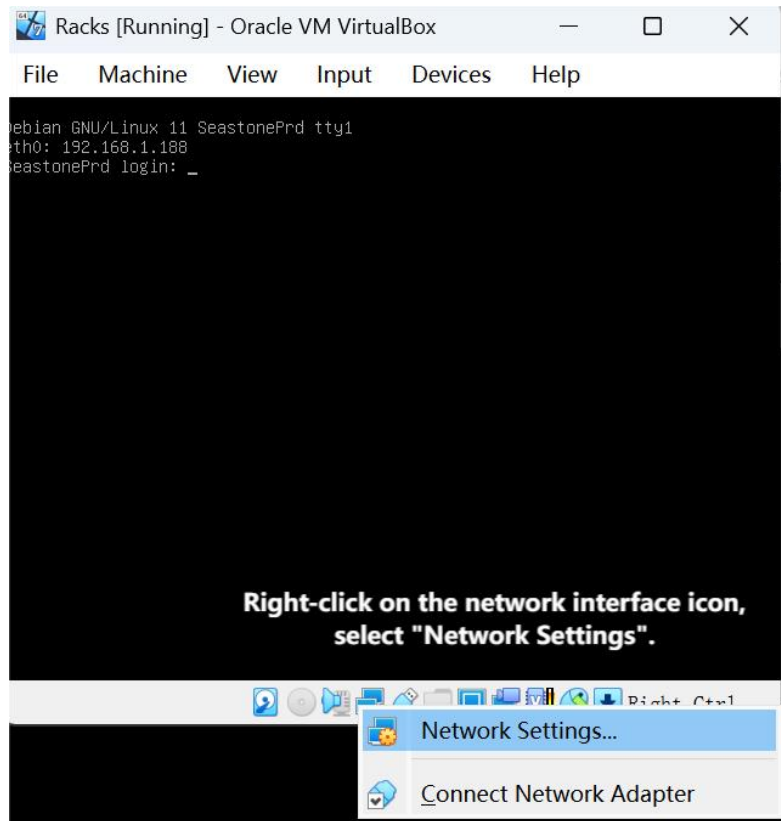
```
Rackserver [Running] - Oracle VM VirtualBox
File  Machine  View  Input  Devices  Help
Setting the TERM as jfbterm
Starting /usr/sbin/ocs-sr at 2025-07-19 08:36:10 UTC...
Start preparing device name cache files in /tmp/ocs-cache//...
Finding all disk(s)...
Finding all partition(s)...
Generating dev filesystem/size/type info cache files...
Error: /dev/sda: unrecognised disk label
Error: /dev/sda: unrecognised disk label
*****
Clonezilla image dir: /home/partimag
*****
Shutting down the Logical Volume Manager
File descriptor 3 (/dev/tty0) leaked on lvdisplay invocation. Parent PID 2738: /bin/bash
File descriptor 4 (/dev/fb0) leaked on lvdisplay invocation. Parent PID 2738: /bin/bash
Finished Shutting down the Logical Volume Manager
*****
Activating the partition info in /proc... done!
*****
下个步骤将把镜像文件还原到这台机器的硬盘/分区: "/home/partimag/2022-07-26-08-img" -> "sda sda1"
该镜像产生时间: 2022-0726-0856
警告!!! 警告!!! 警告!!!
警告: 在这个硬盘/分区的资料将会被完全盖掉! 所有现存的资料将会遗失:
*****
Machine: VirtualBox
sda (538GB_VBOX_HARDDISK__VBOX_HARDDISK_VB0db13a61-4a42bf46)
*****
您确认要继续执行? (y/n) █

Type "y" to Continue
```

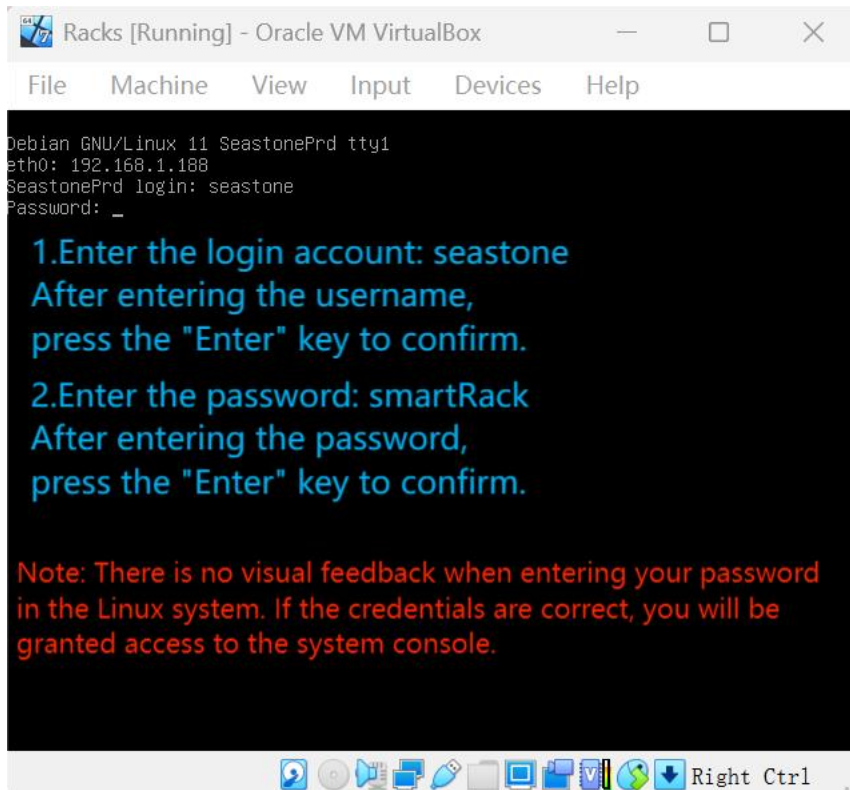
```
Rackserver [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Finding all disk(s)...
Finding all partition(s)...
Generating dev filesystem/size/type info cache files...
Error: /dev/sda: unrecognised disk label
Error: /dev/sda: unrecognised disk label
*****
Clonezilla image dir: /home/partimag
*****
Shutting down the Logical Volume Manager
File descriptor 3 (/dev/tty0) leaked on lvm display invocation. Parent PID 2738: /bin/bash
File descriptor 4 (/dev/fb0) leaked on lvm display invocation. Parent PID 2738: /bin/bash
Finished Shutting down the Logical Volume Manager
*****
Activating the partition info in /proc... done!
*****
下个步骤将把镜像文件还原到这台机器的硬盘/分区: "/home/partimag/2022-07-26-08-img" -> "sda sda1"
该镜像产生时间: 2022-0726-0856
警告!!! 警告!!! 警告!!!
警告: 在这个硬盘/分区的资料将会被完全盖掉! 所有现存资料将会遗失:
*****
Machine: VirtualBox
sda (538GB_VBOX_HARDDISK__VBOX_HARDDISK_VB0db13a61-4a42bf46)
*****
您确认要继续执行? (y/n) y
OK, 我们继续做吧!!
This program is not started by clonezilla server.
*****
容我再问您一次,
下个步骤将把镜像文件还原到这台机器的硬盘/分区: "/home/partimag/2022-07-26-08-img" -> "sda sda1"
该镜像产生时间: 2022-0726-0856
警告!!! 警告!!! 警告!!!
警告: 在这个硬盘/分区的资料将会被完全盖掉! 所有现存资料将会遗失:
*****
Machine: VirtualBox
sda (538GB_VBOX_HARDDISK__VBOX_HARDDISK_VB0db13a61-4a42bf46)
*****
您确认要继续执行? (y/n) Type "y" again
Right Ctrl
```



## Configure Network Adapter



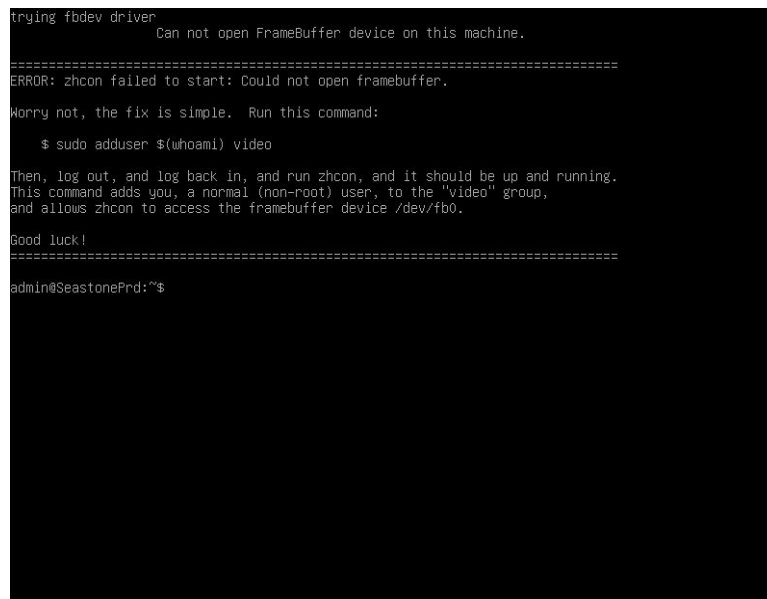
## Log in to the rack virtual machine system



**Login username: seastone**

**Login password: smartRack**

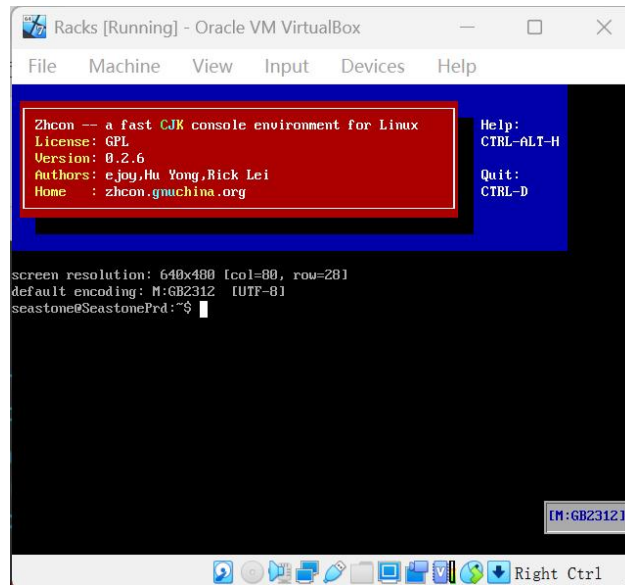
**Successful Login page as Below:**



## Switch to the root user:

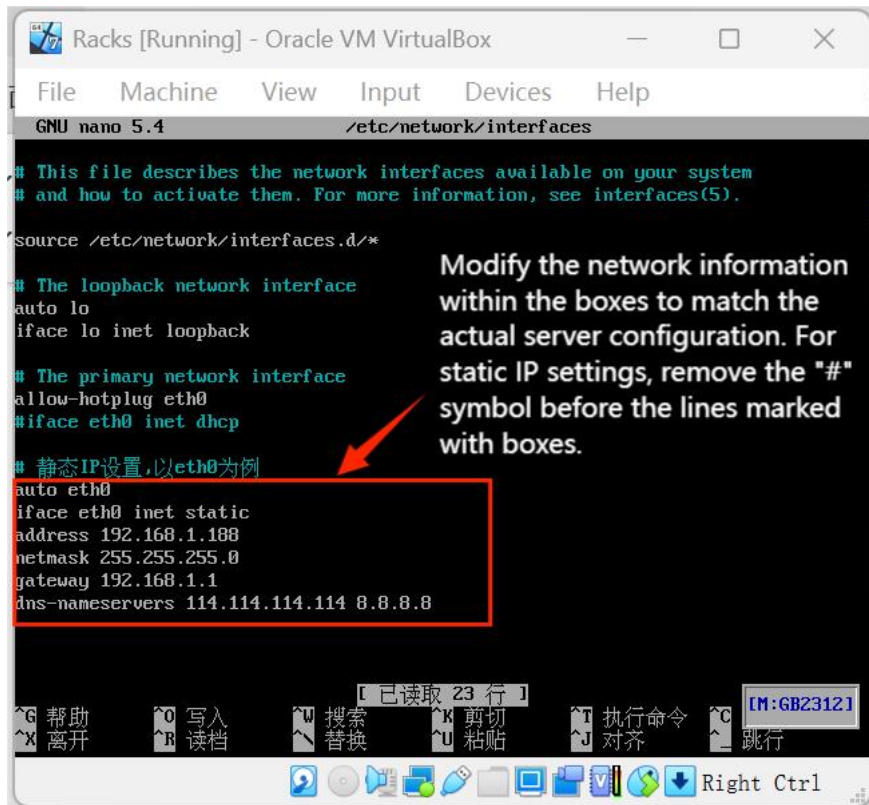
1. Enter: “su root” and press “Enter”.
2. Then enter the root password (smartRack) when prompted.

Page will as Below:



## Change System IP address:

1. Switch to the root account, then enter the command “zhcon --utf8” to switch to the console supporting the Chinese environment.
2. Enter “sudo nano /etc/network/interfaces” to open the network configuration file, enter the password. Set it as shown in the figure below.



The screenshot shows a terminal window titled "Racks [Running] - Oracle VM VirtualBox". The terminal is running the nano 5.4 editor on the file `/etc/network/interfaces`. The editor displays the following content:

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
allow-hotplug eth0
#iface eth0 inet dhcp

# 静态IP设置,以eth0为例
auto eth0
iface eth0 inet static
address 192.168.1.188
netmask 255.255.255.0
gateway 192.168.1.1
dns-nameservers 114.114.114.114 8.8.8.8
```

A red box highlights the static IP configuration section for `eth0`. A red arrow points to the comment line: `# 静态IP设置,以eth0为例`. To the right of the terminal, there is a text box with the following text:

Modify the network information within the boxes to match the actual server configuration. For static IP settings, remove the "#" symbol before the lines marked with boxes.

The terminal window also shows a menu bar with options: File, Machine, View, Input, Devices, Help. At the bottom, there is a status bar with various icons and the text "Right Ctrl".

Once the modifications are complete, press "CTRL+O", then "Enter" to save the file, followed by "CTRL+X" to exit the editor. Then run "sudo reboot" to restart the server and apply the new network configuration.

## Chapter 2: Set up the Rack

Before set up, please connect the cable, ready to switch on the rack.

### 2.1 Connecting Rack:

1. WiFi Connection Method a. Use a computer, mobile phone, or wireless router to set the WiFi name as SeastoneDev and the password as Test@Dev. b. The rack will automatically connect to this WiFi name after being powered on.

2. Network Port Connection Method a. For configuring the connection to a computer, set the network port IP to 192.168.123.1 and the subnet mask to 255.255.255.0; no other settings are required. b. Connect the rack directly to the computer with a network cable. After the rack is powered on, ping 192.168.123.23 as shown in the figure below, which indicates that the network connection is successful.

### 2.2 Rack Configuration:

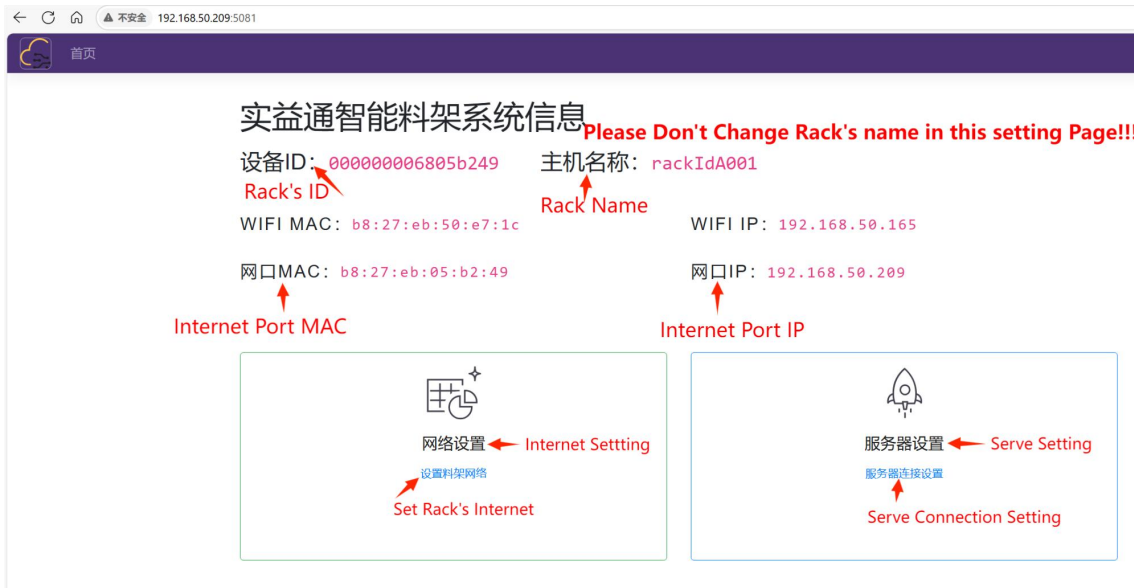
If connected via WiFi, please open a browser and enter the IP address assigned by the rack's WiFi.



If connected via an Ethernet port, the IP address of the rack's Ethernet port is 192.168.123.23. As shown in the figure below, the IP address assigned by WiFi is 192.168.50.220. Open the rack in the browser using `http://Rack IP:5081`.

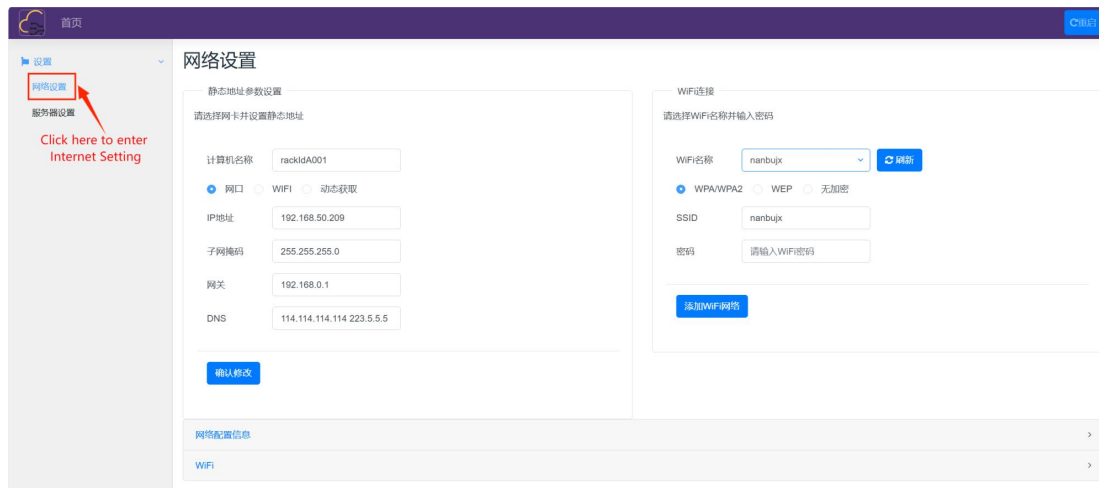
### Homepage:

Description: It contains the basic information of the rack, including the **MAC address** and **IP address** of the rack's **Ethernet port** and **WiFi**.



## Network Configuration Page:

Description: Allows configuration of WiFi connections and IP information.



Static IP Address Configuration (Use for the Rack which connect with internet cable):

## 网络设置

### 静态地址参数设置

请选择网卡并设置静态地址

Do not change this name,  
or not it will cause rack can not running!

计算机名称

rackIdA001

网口

WIFI

动态获取

Select the interface for  
IP address configuration.

IP地址

192.168.50.209

Enter your Rack's IP Address

子网掩码

255.255.255.0

Enter your Internet's Subnet Mask

网关

192.168.0.1

Enter your Gateway

DNS

114.114.114.114 223.5.5.5

Enter DNS your usually use

确认修改

Click here to save  
after you finish Internet Setting

**WiFi Configuration(Use for the Rack which connect wireless):**

WiFi连接

请选择WiFi名称并输入密码

WiFi名称   **1.Choose Name of Your WiFi** **Here can Refresh to find**

WPA/WPA2  WEP  无加密 **2.Select WiFi encryption method: WPA/WPA2, WEP or No encryption**

SSID

密码  **3. Enter your Password of WiFi**

**4.Click "add WiFi"**

Note: Above 2 setting method of internet just need to set 1 of it (Internet port or WiFi).

**Server Configuration Page:**

Description: Configure the address of the rack server to connect to.

服务器设置

服务器参数设置

请输入配置中心服务器地址

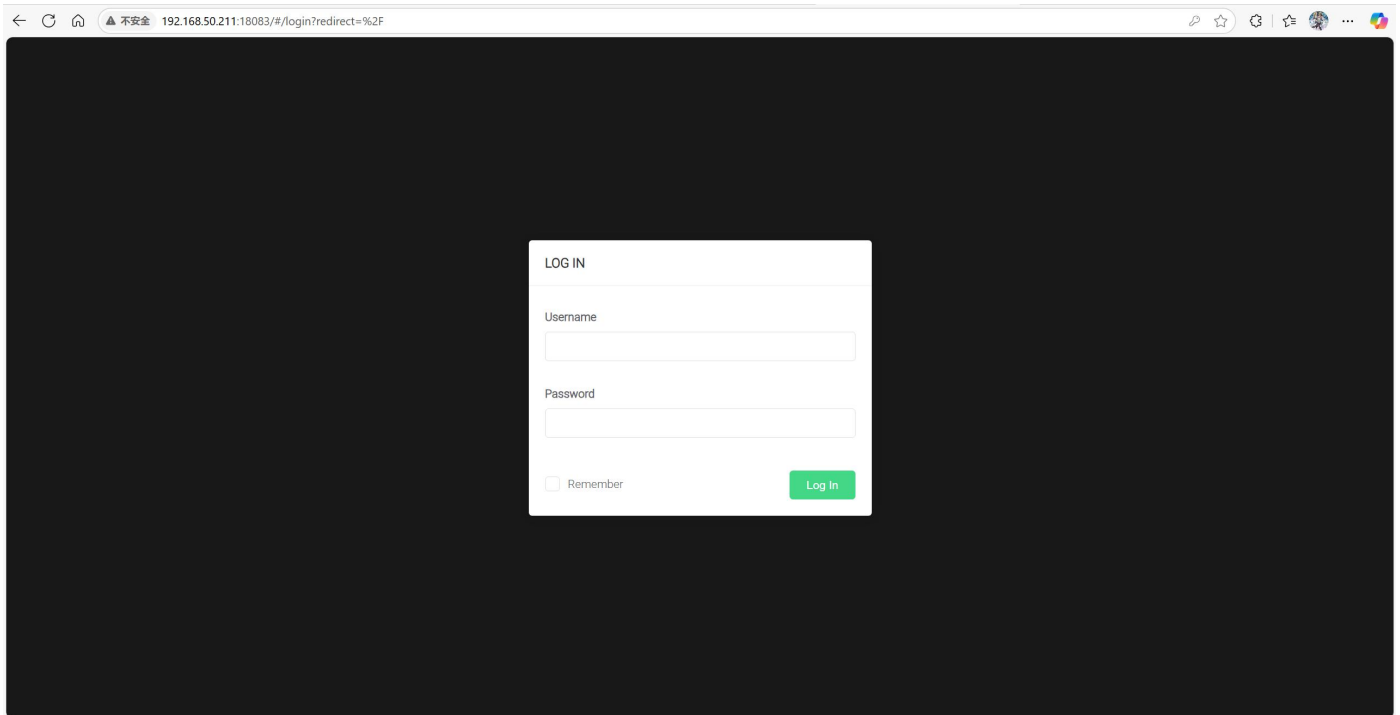
服务器地址  **1.Input your IP address of serve, then add port:5080**

**2. Click "confirm" to save**

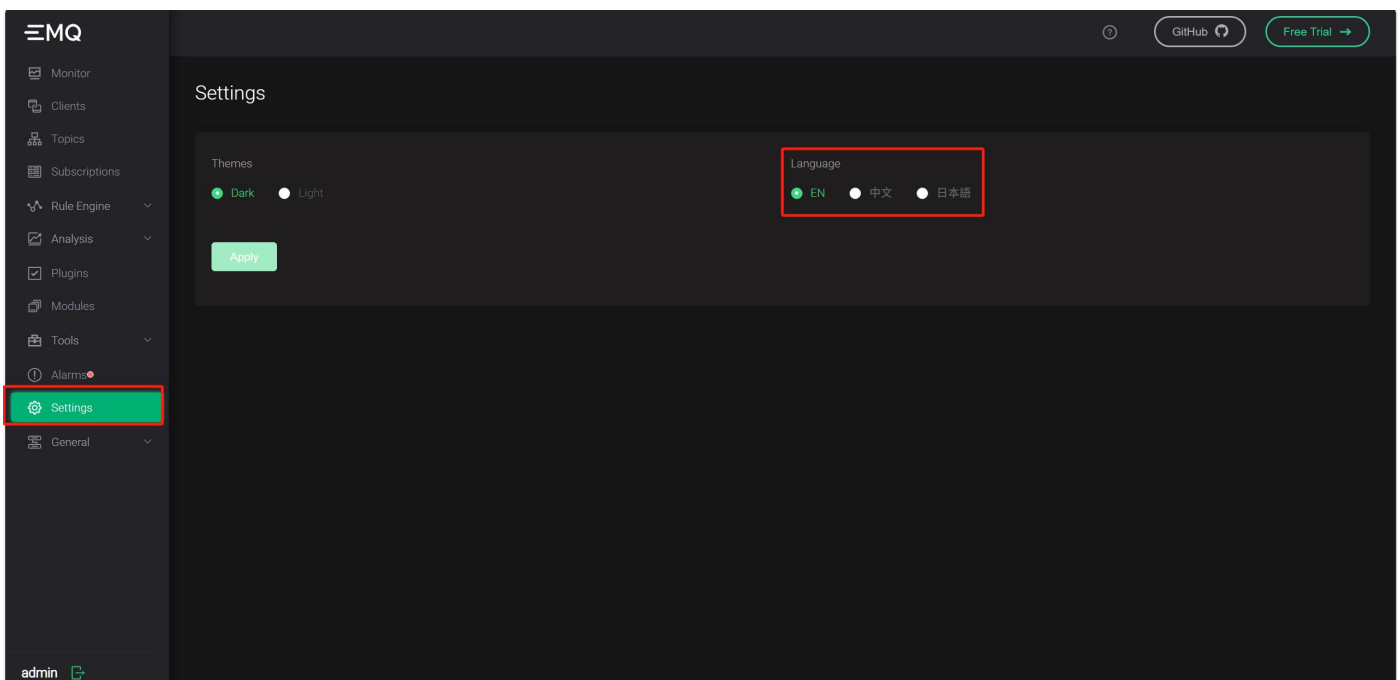
**3. Click "restart" to save all setting**

## Check your Rack connect to server successful or not:

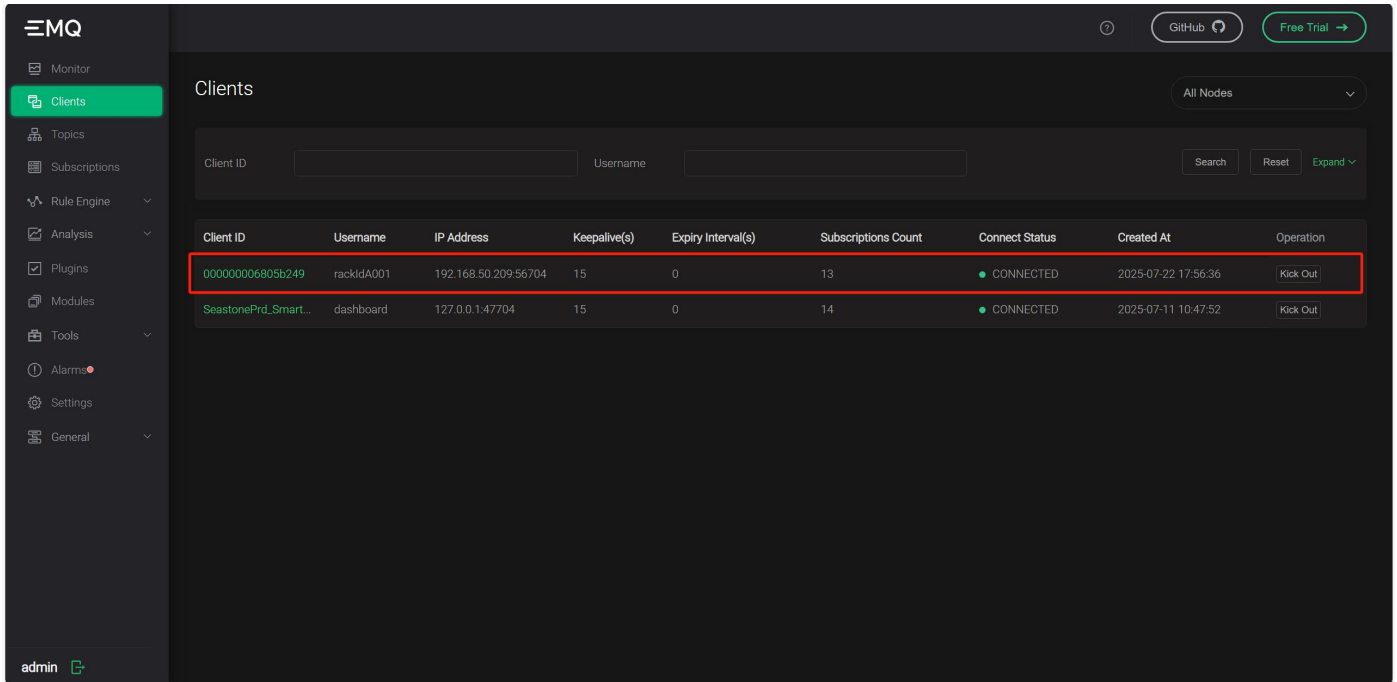
1. listen to the speaker of rack, it will report.
2. Enter the website *Your Server IP address + port :18083* , (example:**192.168.50.211:10183**),figure shown as below:



3. Login Username: **admin**, Password: **public**
4. Change to English in “Setting”



5. Click "Clients" to check your rack is connect to the server or not, it will shown the IP address and name.



The screenshot shows the EMQ Clients management interface. The sidebar on the left contains navigation options: Monitor, Clients (highlighted), Topics, Subscriptions, Rule Engine, Analysis, Plugins, Modules, Tools, Alarms, Settings, and General. The main content area is titled "Clients" and includes a search bar with "Client ID" and "Username" input fields, and buttons for "Search", "Reset", and "Expand". Below the search bar is a table of clients:

Client ID	Username	IP Address	Keepalive(s)	Expiry Interval(s)	Subscriptions Count	Connect Status	Created At	Operation
00000006805b249	rackIdA001	192.168.50.209:56704	15	0	13	CONNECTED	2025-07-22 17:56:36	Kick Out
SeastonePrd_Smart...	dashboard	127.0.0.1:47704	15	0	14	CONNECTED	2025-07-11 10:47:52	Kick Out

## Chapter 3: Set up the Software

### 3.1 Preparation

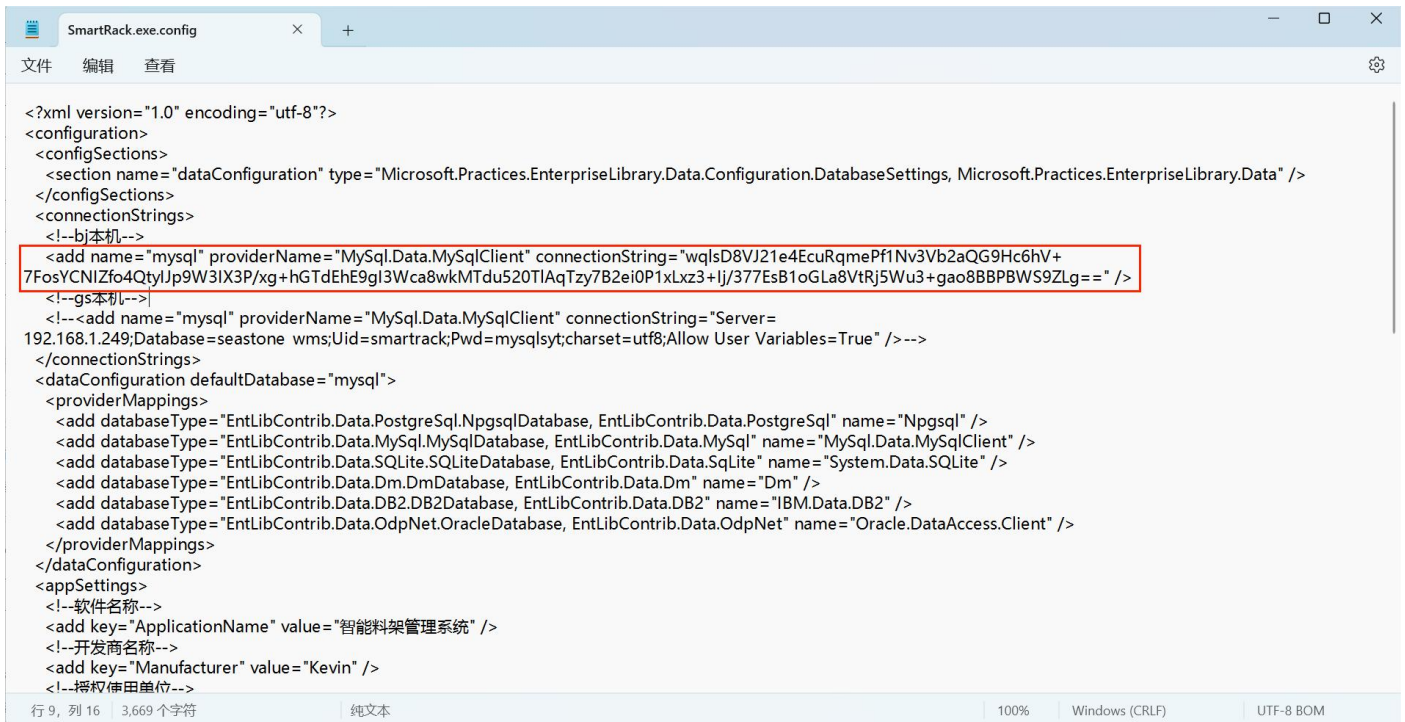
Download and unzip the Software Package  SmartRack20240709.zip

Open the folder, find the file "SmartRack.exe.config"  SmartRack.exe.config

Open the file by *Text*, add the code below to replace the **red marked code** in the figure:

```
<add name="mysql" providerName="MySql.Data.MySqlClient"
connectionString="Server=192.168.1.126;Database=seastone_wms;Uid=smartrack;Pwd=mysqlsy;charset
=utf8;" />
```

The Red number is your server IP address, please according your actual server address to fill in.



```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <configSections>
    <section name="dataConfiguration" type="Microsoft.Practices.EnterpriseLibrary.Data.Configuration.DatabaseSettings, Microsoft.Practices.EnterpriseLibrary.Data" />
  </configSections>
  <connectionStrings>
    <!--bj本机-->
    <add name="mysql" providerName="MySql.Data.MySqlClient" connectionString="wqlsD8VJ21e4EcuRqmePf1Nv3Vb2aQG9Hc6hV+
7FosYCNIZfo4QtylJp9W3IX3P/xg+hGTdEhE9gl3Wca8wkMTdu520TIAqTzy7B2ei0P1xLxz3+lJ/377EsB1oGLa8VtRj5Wu3+gao8BBPBWS9ZLg==" />
    <!--gs本机-->
    <!--<add name="mysql" providerName="MySql.Data.MySqlClient" connectionString="Server=
192.168.1.249;Database=seastone_wms;Uid=smartrack;Pwd=mysqlsy;charset=utf8;Allow User Variables=True" />-->
  </connectionStrings>
  <dataConfiguration defaultDatabase="mysql">
    <providerMappings>
      <add databaseType="EntLibContrib.Data.PostgreSql.NpgsqlDatabase, EntLibContrib.Data.PostgreSql" name="Npgsql" />
      <add databaseType="EntLibContrib.Data.MySql.MySqlDatabase, EntLibContrib.Data.MySql" name="MySql.Data.MySqlClient" />
      <add databaseType="EntLibContrib.Data.SQLite.SQLiteDatabase, EntLibContrib.Data.SQLite" name="System.Data.SQLite" />
      <add databaseType="EntLibContrib.Data.Dm.DmDatabase, EntLibContrib.Data.Dm" name="Dm" />
      <add databaseType="EntLibContrib.Data.DB2.DB2Database, EntLibContrib.Data.DB2" name="IBM.Data.DB2" />
      <add databaseType="EntLibContrib.Data.OdpNet.OracleDatabase, EntLibContrib.Data.OdpNet" name="Oracle.DataAccess.Client" />
    </providerMappings>
  </dataConfiguration>
  <appSettings>
    <!--软件名称-->
    <add key="ApplicationName" value="智能料架管理系统" />
    <!--开发商名称-->
    <add key="Manufacturer" value="Kevin" />
    <!--授权单位名称-->
  </appSettings>
</configuration>
```

### Language Check and Change

Scroll down and find the Code as **red mark** in the Figure you can choose one language to change, remove the Prefix "<!--" and Suffix "-->" to apply the Language, for example: `<add key="language" value="en-US" />`

```

SmartRack.exe.config
文件 编辑 查看
<add key="Kunivode" value="Kevin" />
<!--软件介绍 (关于对话框) -->
<add key="Description" value="智能料架管理系统" />
<!--程序启动界面图片 (不设置采用默认,建议图片宽高比2:1) -->
<add key="SplashScreen" value="Images\startScreen.png" />
<!--组件的数据库类型: access、sqlserver、sqlite、oracle等,默认为sqlserver可不写-->
<add key="ComponentDbType" value="mysql" />
<!--是否自动更新-->
<add key="AutoUpdate" value="false" />
<!--是否自动根据区域语言翻译-->
<add key="auto translate" value="false" />
<!--区域语言-->
<!--<add key="language" value="kor-KR" />-->
<!--<add key="language" value="vie-VI" />-->
<!--<add key="language" value="cn-ZH" />-->
<!--<add key="language" value="en-US" />-->
<!--程序主界面的皮肤名称-->
<add key="SkinName" value="" />
<add key="ClientSettingsProvider.ServiceUri" value="" />
<add key="AttachmentBasePath" value="\\192.168.41.53\Stencils File" />
</appSettings>
<startup useLegacyV2RuntimeActivationPolicy="true">
  <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5.2" />
  <supportedRuntime version="v2.0.50727" />
</startup>
<system.web>
  <membership defaultProvider="ClientAuthenticationMembershipProvider">
    <providers>
      <add name="ClientAuthenticationMembershipProvider" type="System.Web.ClientServices.Providers.ClientFormsAuthenticationMembershipProvider,
System.Web.Extensions, Version=4.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" serviceUri="" />
    </providers>
  </membership>
</system.web>
行 9, 列 16 | 3,669 个字符 | 纯文本 | 100% | Windows (CRLF) | UTF-8 BOM
  
```

After finish all works, save and exit the file.

## 3.2 Login the software

Find the application “SmartRack.exe” in the folder  SmartRack.exe

You will see the login page below:

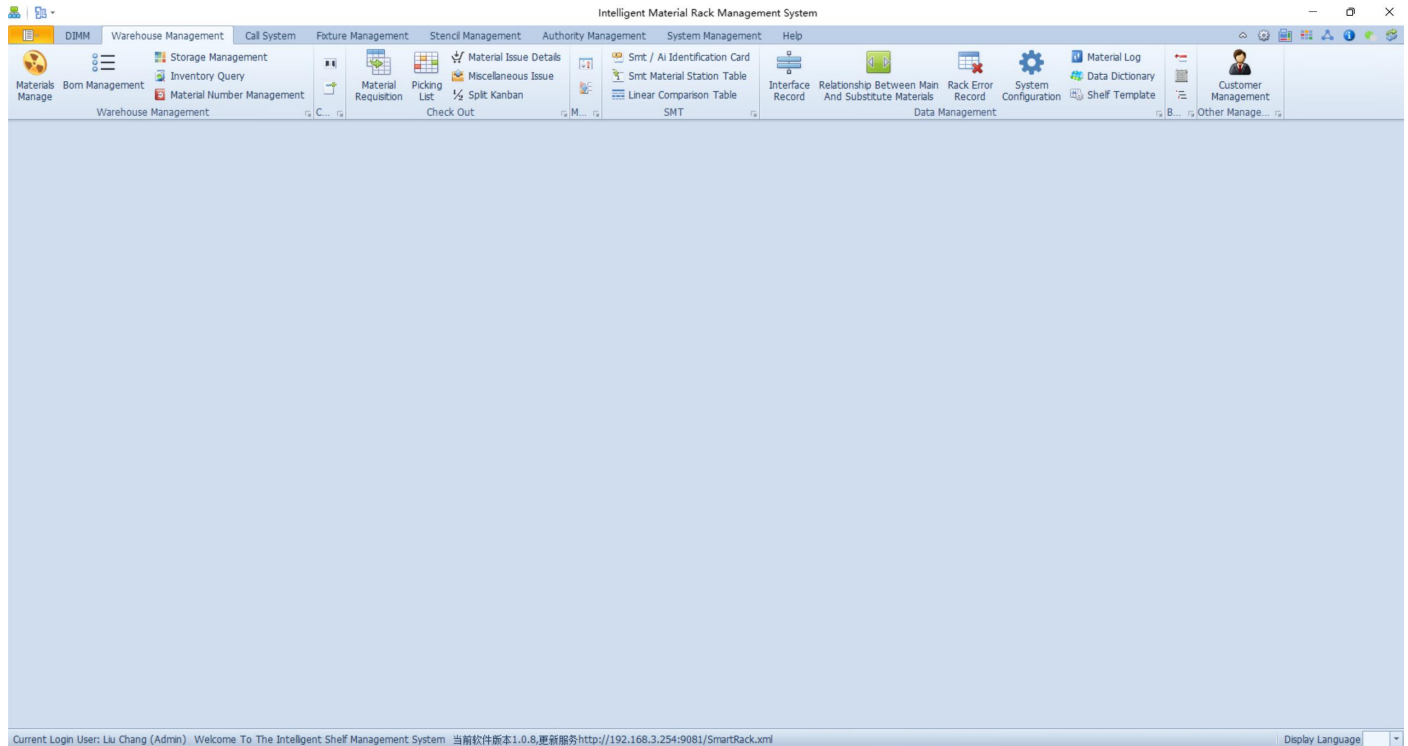


First time, enter the username and password as been pre-set:

User Name: admin

Password: liukevin

Successful login page:



## 3.3 Authority Management:

### New Account Create:

Click the Menu “Authority Management”, then the button “User Management”, add new account or manage old account the as below:

System User Information - Intelligent Material Rack Management System

Warehouse Management | Call System | Fixture Management | Stencil Management | **Authority Management** | System Management | Help

User Management | Organization Management | Role Management | System Type Definition | Function Management | Menu Management | System Blacklist | User Login Log | User Operation Log

**1. Click Menu "Authority Management"**

System User Information

**2. Click the button "User Management"**

List of Organizations

- 智能仓储
  - 智能仓储
  - General Warehouse
  - Line Side Warehouse

User Code:  User Name / Login Name:  Full Name:  What About Users:   
 Gender:  Mobile Phone:  Mailing Address:  Qq Number:

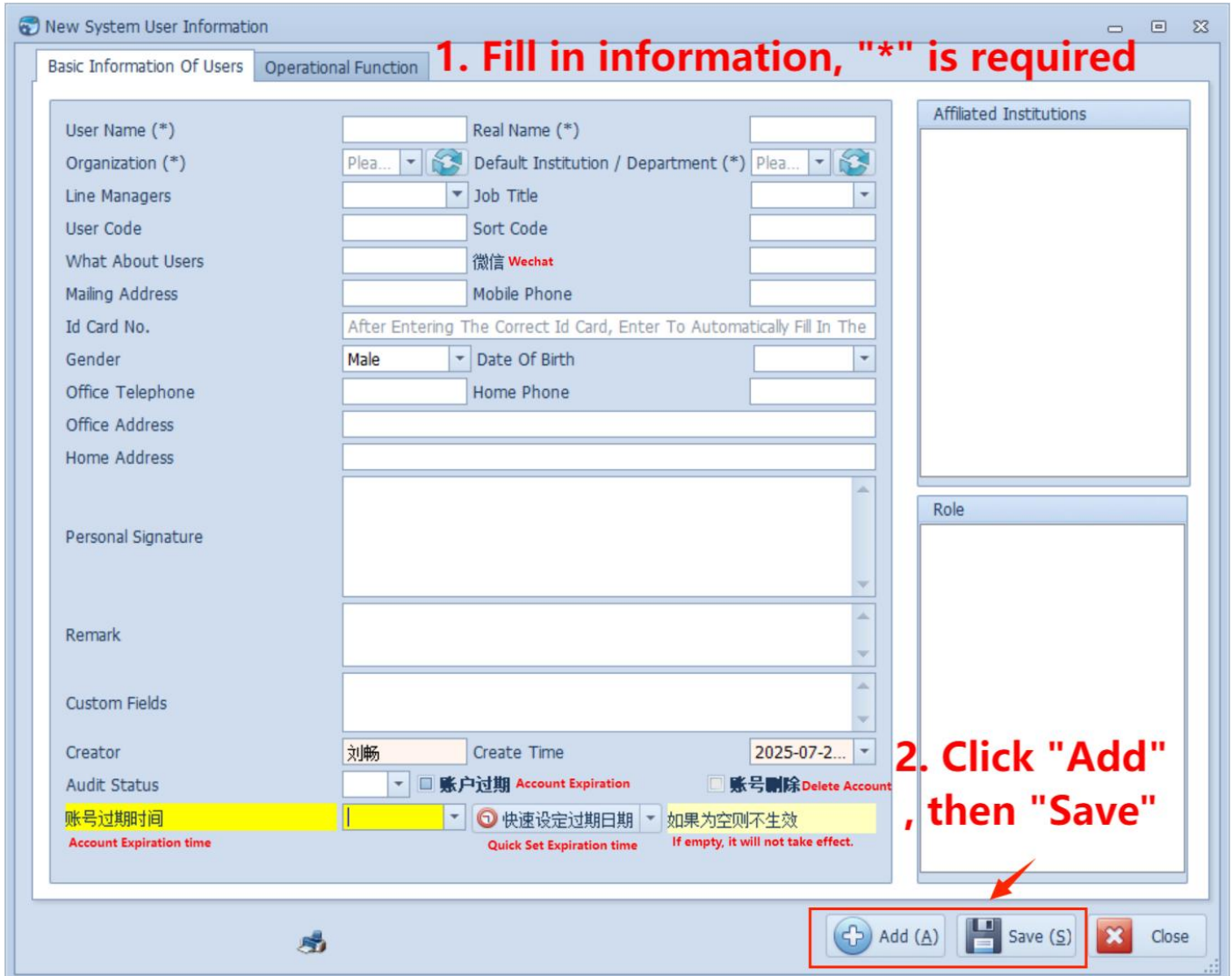
**3. Click "New"**

User Code	User Name / L...	Full Name	Job Title	Mobile Phone	Office Telepho...	Mailing Address	Gender	Qq Number	Audit Status	Is It Overdue	Expiration Time	Remark
1	nieting	nieting	料架工程师				男		已审核	<input type="checkbox"/>		
2	wayne	郭丰玮					男		已审核	<input type="checkbox"/>	剩余1257天	
3	0000001	admin	刘瀚	技术总监		939079007@qq.com	男		已审核	<input type="checkbox"/>		系统管理员

A Total Of 3 Records, 1 Pages, 20 Records Per Page.

Current Login User: Lu Chang (Admin) | Welcome To The Intelligent Shelf Management System | 当前软件版本1.0.8, 更新服务http://192.168.3.254:9081/SmartRack.xml | Display Language

Fill in the information below(\* are Required information, others are optional), User Name is the name your login account.



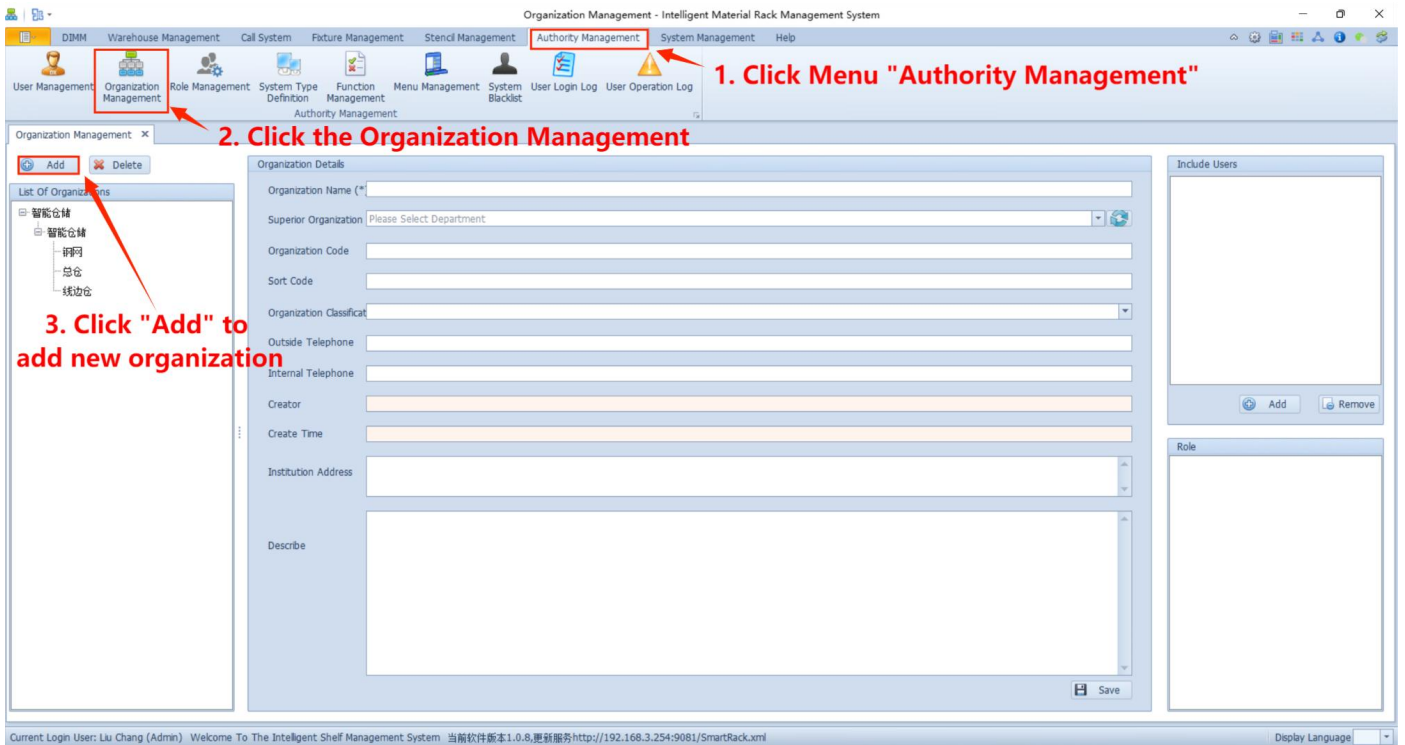
**1. Fill in information, "\*" is required**

**2. Click "Add", then "Save"**

The screenshot shows a software window titled "New System User Information" with two tabs: "Basic Information Of Users" and "Operational Function". The "Basic Information Of Users" tab is active. The form contains various input fields for user details, including name, organization, job title, contact information, and addresses. At the bottom, there are buttons for "Add (A)", "Save (S)", and "Close". A red box highlights the "Add" and "Save" buttons, with an arrow pointing to the "Add" button. Red text annotations provide instructions on filling in required information and clicking the "Add" and "Save" buttons.

## Organization Create:

Click the Menu "Authority Management", then the button "Organization Management", add new organization manage the organization as below:



Organization Management - Intelligent Material Rack Management System

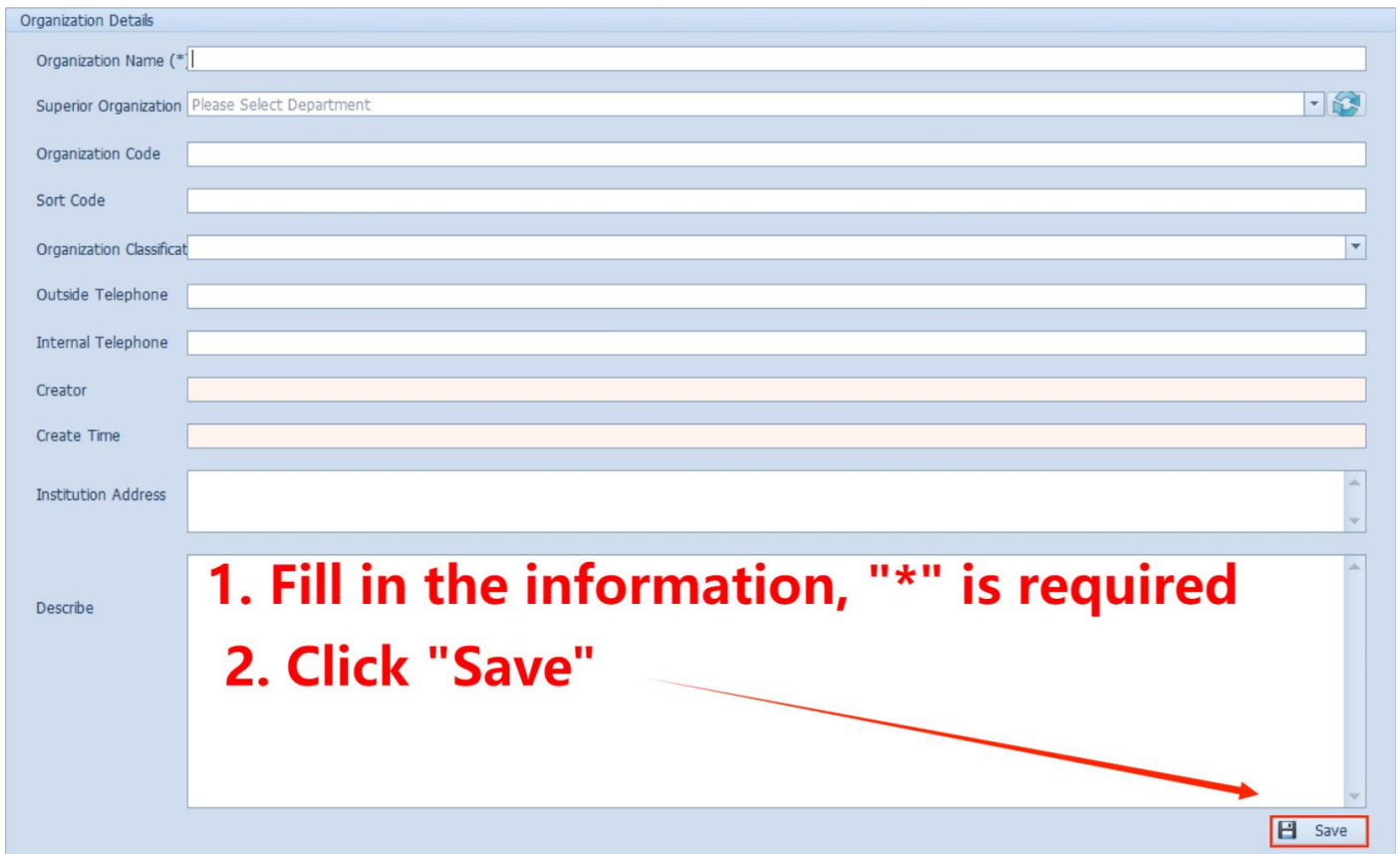
1. Click Menu "Authority Management"

2. Click the Organization Management

3. Click "Add" to add new organization

Current Login User: Liu Chang (Admin) Welcome To The Intelligent Shelf Management System 当前软件版本1.0.0.8,更新服务<http://192.168.3.254:9081/SmartRack.xml> Display Language

Fill in the information, also "\*" is required:



Organization Details

Organization Name (\*)

Superior Organization Please Select Department

Organization Code

Sort Code

Organization Classification

Outside Telephone

Internal Telephone

Creator

Create Time

Institution Address

Describe

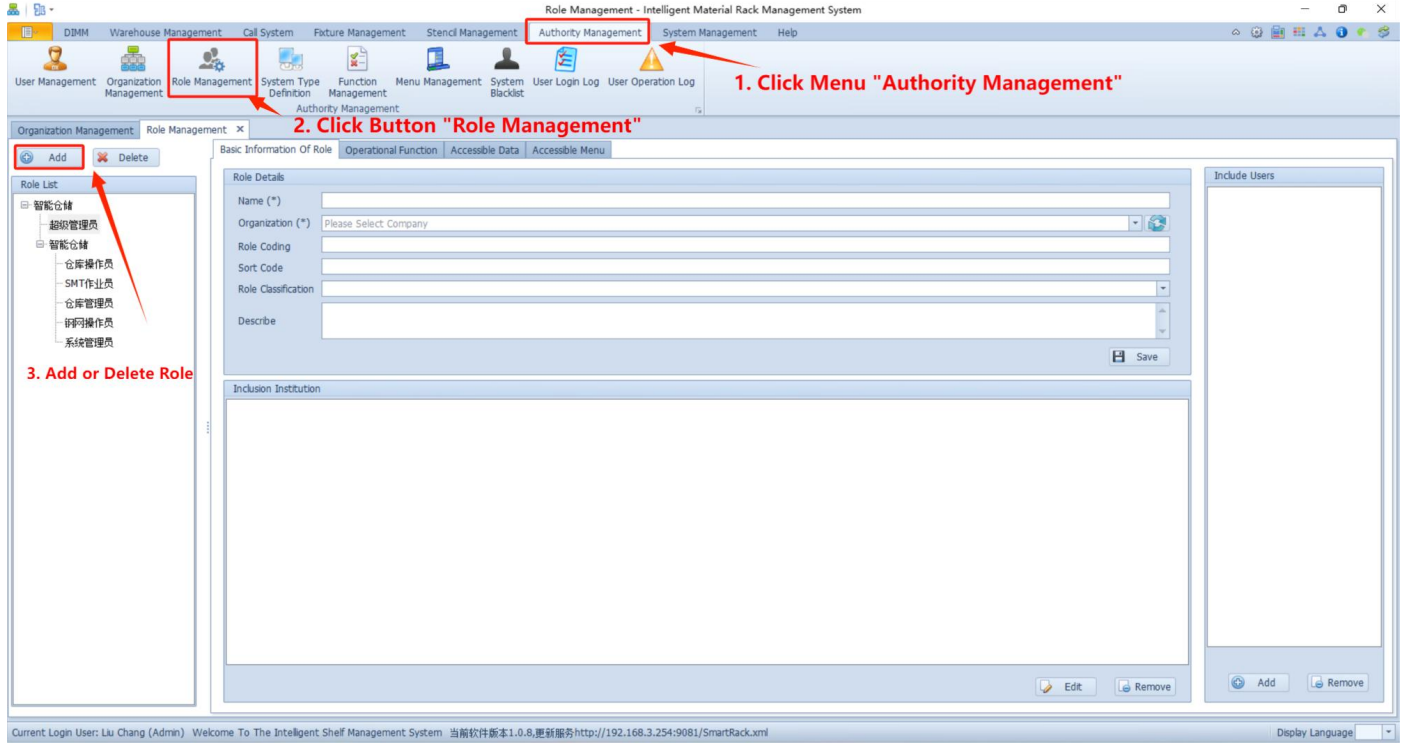
1. Fill in the information, "\*" is required

2. Click "Save"

Save

## Role Management:

Click the Menu “Authority Management”, then the button “Role Management”, add new role or manage the roles as below:



**1. Click Menu "Authority Management"**

**2. Click Button "Role Management"**

**3. Add or Delete Role**

Current Login User: Lu Chang (Admin) Welcome To The Intelligent Shelf Management System 当前软件版本1.0.8,更新服务<http://192.168.3.254:9081/SmartRack.xml> Display Language



Fill in all information, "\*" is required, then save.

Basic Information Of Role | **Operational Function** | Accessible Data | Accessible Menu

---

**Role Details**

Name (\*)


Organization (\*)   

Role Coding

Sort Code

Role Classification

Describe



 Save

---

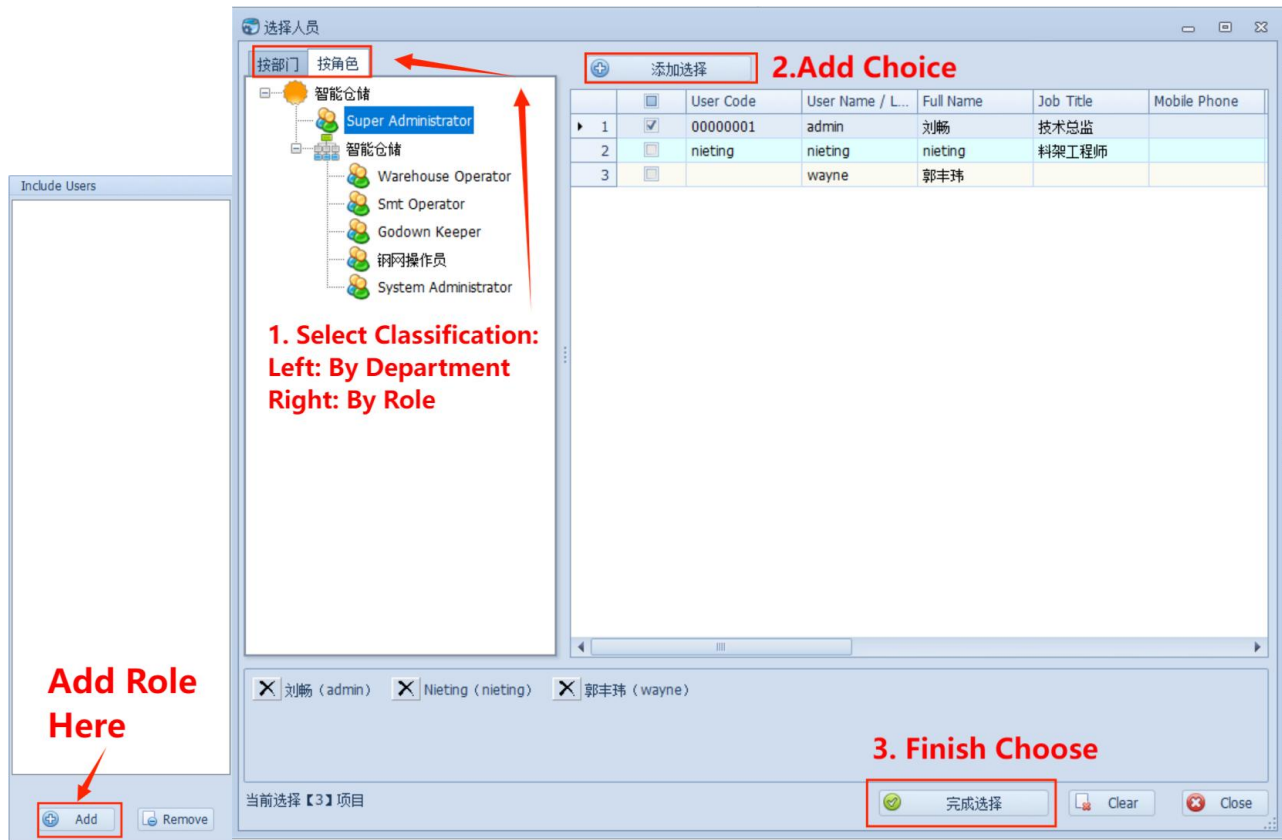
**Inclusion Institution**

**1. Fill in information, "\*" is required**

**2. Click "Save"**

 Edit  Remove

## Add Roles and grant Permission:



**1. Select Classification:**  
Left: By Department  
Right: By Role

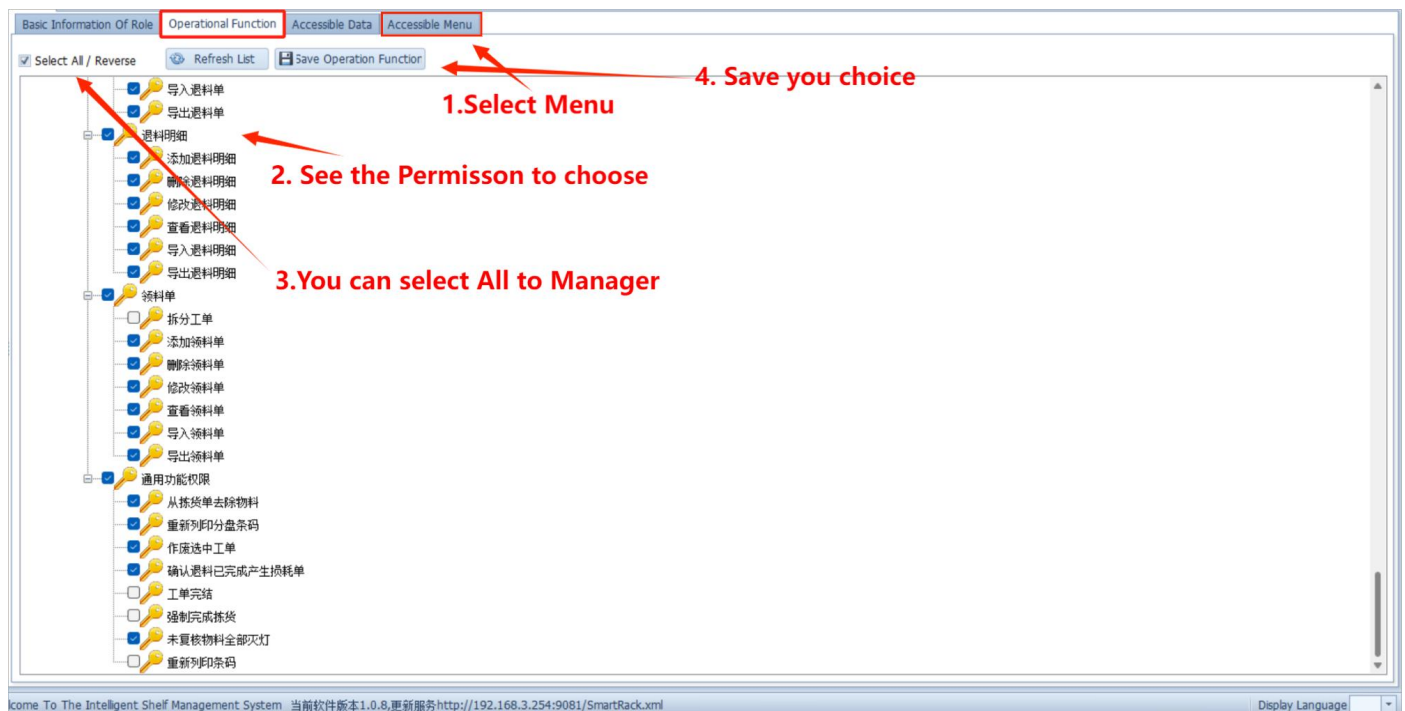
**2. Add Choice**

	<input type="checkbox"/>	User Code	User Name / L...	Full Name	Job Title	Mobile Phone
▶ 1	<input checked="" type="checkbox"/>	00000001	admin	刘畅	技术总监	
2	<input type="checkbox"/>	nieting	nieting	nieting	料架工程师	
3	<input type="checkbox"/>	wayne	wayne	郭丰玮		

**3. Finish Choose**

**Add Role Here**

## Select a role, then click operation function and Accessible Menu to grant permission:



**1. Select Menu**

**2. See the Permission to choose**

**3. You can select All to Manager**

**4. Save you choice**

Operational Function details permission translation:



仓库管理: Warehouse Management

储位: Storage Location

重置储位: Reset Storage Location

添加储位: Add Storage Location

删除储位: Delete Storage Location

修改储位: Modify Storage Location

查看储位: View Storage Location

导入储位: Import Storage Location

导出储位: Export Storage Location



储位模板: Storage Location Template

添加储位模板: Add Storage Location Template

删除储位模板: Delete Storage Location Template

修改储位模板: Modify Storage Location Template

查看储位模板: View Storage Location Template

导入储位模板: Import Storage Location Template

导出储位模板: Export Storage Location Template



入库单: Warehouse Receipt

添加入库单: Add Warehouse Receipt

删除入库单: Delete Warehouse Receipt

修改入库单: Modify Warehouse Receipt

查看入库单: View Warehouse Receipt

导入入库单: Import Warehouse Receipt

导出入库单: Export Warehouse Receipt



出库策略: Outbound Strategy

添加出库策略: Add Outbound Strategy

删除出库策略: Delete Outbound Strategy

修改出库策略: Modify Outbound Strategy

查看出库策略: View Outbound Strategy

导入出库策略: Import Outbound Strategy

导出出库策略: Export Outbound Strategy



分盘单: Sub - disk List

添加分盘单: Add Sub - disk List / Add Sub - plate Order

删除分盘单: Delete Sub - disk List / Delete Sub - plate Order

修改分盘单: Modify Sub - disk List / Modify Sub - plate Order

查看分盘单: View Sub - disk List / View Sub - plate Order

导入分盘单: Import Sub - disk List / Import Sub - plate Order

导出分盘单: Export Sub - disk List / Export Sub - plate Order



客户: Customer

添加客户: Add Customer

删除客户: Delete Customer

修改客户: Modify Customer

查看客户: View Customer

导入客户: Import Customer

导出客户: Export Customer



拣货单: Picking List

作废拣货单: Void Picking List

添加拣货单: Add Picking List

删除拣货单: Delete Picking List

修改拣货单: Modify Picking List

查看拣货单: View Picking List

导入拣货单: Import Picking List



拣货明细: Picking Details

添加拣货明细: Add Picking Details

删除拣货明细: Delete Picking Details

修改拣货明细: Modify Picking Details

查看拣货明细: View Picking Details

导入拣货明细: Import Picking Details

导出拣货明细: Export Picking Details



接口记录: Interface Records

重调接口: Retry Interface

添加接口记录: Add Interface Records

删除接口记录: Delete Interface Records

修改接口记录: Modify Interface Records

查看接口记录: View Interface Records

导入接口记录: Import Interface Records

导出接口记录: Export Interface Records



料号: Part Number

添加料号: Add Part Number

删除料号: Delete Part Number

修改料号: Modify Part Number

查看料号: View Part Number

导入料号: Import Part Number

导出料号: Export Part Number



料架错误信息: Material Rack Error Information

添加料架错误信息: Add Material Rack Error Information

删除料架错误信息: Delete Material Rack Error Information

修改料架错误信息: Modify Material Rack Error Information

查看料架错误信息: View Material Rack Error Information

导入料架错误信息: Import Material Rack Error Information

导出料架错误信息: Export Material Rack Error Information



物料: Materials

下架选中物料: Take Down Selected Materials

重置物料: Reset Materials

添加物料: Add Materials

删除物料: Delete Materials

修改物料: Modify Materials

查看物料: View Materials

导入物料: Import Materials

导出物料: Export Materials



物料日志: Material Log

添加物料日志: Add Material Log

删除物料日志: Delete Material Log

修改物料日志: Modify Material Log

查看物料日志: View Material Log

导入物料日志: Import Material Log

导出物料日志: Export Material Log



禁用料规则: Disabled Material Rules

添加禁用料规则: Add Disabled Material Rules

删除禁用料规则: Delete Disabled Material Rules

修改禁用料规则: Modify Disabled Material Rules

查看禁用料规则: View Disabled Material Rules

导入禁用料规则: Import Disabled Material Rules

导出禁用料规则: Export Disabled Material Rules



站位表明细: Station List Details

添加站位表明细: Add Station List Details

删除站位表明细: Delete Station List Details

修改站位表明细: Modify Station List Details

查看站位表明细: View Station List Details

导入站位表明细: Import Station List Details

导出站位表明细: Export Station List Details



系统配置: System Configuration

添加系统配置: Add System Configuration

删除系统配置: Delete System Configuration

修改系统配置: Modify System Configuration

查看系统配置: View System Configuration

导入系统配置: Import System Configuration

导出系统配置: Export System Configuration



线体信息: Line Information

添加线体信息: Add Line Information

删除线体信息: Delete Line Information

修改线体信息: Modify Line Information

查看线体信息: View Line Information

导入线体信息: Import Line Information

导出线体信息: Export Line Information



货架: Rack

关闭料架系统: Shut Down Rack System

重启料架系统: Restart Rack System

重置货架: Reset Rack

添加货架: Add Rack

删除货架: Delete Rack

修改货架: Modify Rack

查看货架: View Rack

导入货架: Import Rack

导出货架: Export Rack



货架物料转移通讯通道: Rack Material Transfer Communication Channel

添加货架物料转移通讯通道: Add Rack Material Transfer Communication Channel

删除货架物料转移通讯通道: Delete Rack Material Transfer Communication Channel

修改货架物料转移通讯通道: Modify Rack Material Transfer Communication Channel

查看货架物料转移通讯通道: View Rack Material Transfer Communication Channel

导入货架物料转移通讯通道: Import Rack Material Transfer Communication Channel

导出货架物料转移通讯通道: Export Rack Material Transfer Communication Channel



退料明细: Return Material Details

添加退料明细: Add Return Material Details

删除退料明细: Delete Return Material Details

修改退料明细: Modify Return Material Details

查看退料明细: View Return Material Details

导入退料明细: Import Return Material Details

导出退料明细: Export Return Material Details



领料单: Material Requisition

拆分工单: Split Work Order

添加领料单: Add Material Requisition

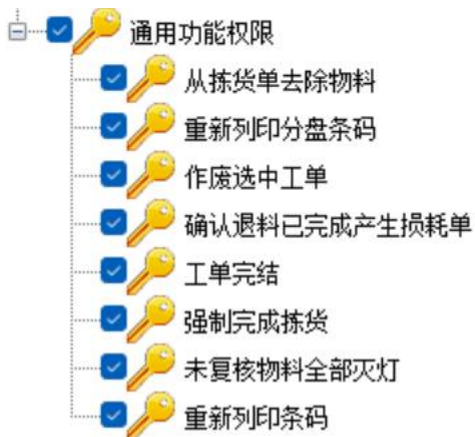
删除领料单: Delete Material Requisition

修改领料单: Modify Material Requisition

查看领料单: View Material Requisition

导入领料单: Import Material Requisition

导出领料单: Export Material Requisition



通用功能权限: General Function Permissions

从拣货单去除物料: Remove Materials from Picking List

重新列印分盘条码: Re - print Sub - disk Barcode

作废选中工单: Void Selected Work Order

确认退料已完成产生损耗单: Confirm Return Material Completed and Generate Loss Order

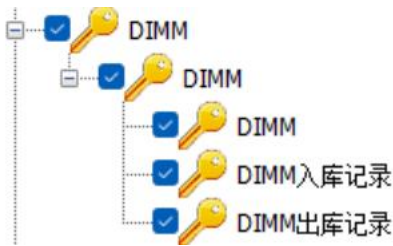
工单完结: Complete Work Order

强制完成拣货: Force Complete Picking

未复核物料全部灭灯: Turn Off All Lights for Unreviewed Materials

重新列印条码: Re - print Barcode

**Accessible Menu** details permission translation:



DIMM:

DIMM

DIMM 入库记录: DIMM Inbound Records

DIMM 出库记录: DIMM Outbound Records



仓库管理: Warehouse Management

物料管理: Material Management

BOM 管理: BOM Management (BOM: Bill of Materials)

储位管理: Storage Location Management

库存查询: Inventory Query

料号管理: Part Number Management



入库: Warehouse Inbound

收料贴标: Receiving and Labeling

上架入库记录: Put - away and Inbound Record



出库: Warehouse Outbound

领料单: Material Requisition

拣货单: Picking List

发料明细: Material Issuance Details

其他出库: Other Outbound

分盘看板: Sub - disk Board



退料: Return Material

退料管理: Return Material Management

退料点数: Return Material Counting



SMT

SMT/AI 标识卡: SMT/AI Identification Card

SMT 料站表: SMT Material Station List

线体对照表: Line Comparison Table



数据管理: Data Management

接口记录: Interface Records

主替料关系: Main and Alternative Material Relationship

料架错误记录: Rack Error Records

系统配置: System Configuration

物料日志: Material Logs

数据字典: Data Dictionary

货架模板: Rack Template



基础: Basic

禁用料管理: Disabled Material Management

货架管理: Rack Management

策略管理: Strategy Management



其他管理: Other Management

客户管理: Customer Management



呼叫系统: Call System

无线 Andon 呼叫系统: Wireless Andon Call System

按钮定义: Button Definition

呼叫记录: Call Records



触摸屏式叫料系统: Touch Screen Material Calling System

BOM 表过滤: BOM List Filtering (BOM 即 Bill of Materials, 物料清单 )

安装位置注册: Installation Position Registration



治具管理: Fixture Management

治具入库记录: Fixture Inbound Records

治具出库记录: Fixture Outbound Records

治具清洗记录: Fixture Cleaning Records

治具维修记录: Fixture Maintenance Records

治具使用日志: Fixture Usage Logs

治具管理（重复项，按结构翻译）: Fixture Management

**This two parts no need for Reels Storage warehouse:**



钢网管理: Stencil Management

钢网操作: Stencil Operations

新钢网验收: New Stencil Acceptance

领取: Receive

张力测试: Tension Test

回库: Return to Warehouse



钢网管理: Stencil Management

钢网报废清单: Stencil Scrap List

钢网库位: Stencil Storage Location

钢网验收: Stencil Acceptance

刮刀管理: Squeegee Management

钢网清洗记录: Stencil Cleaning Records

钢网使用日志: Stencil Usage Logs

钢网领取记录: Stencil Receiving Records

钢网使用退库记录: Stencil Return - to - Warehouse Records

钢网维修记录: Stencil Maintenance Records

钢网信息: Stencil Information



权限管理: Permission Management

用户管理: User Management

组织机构管理: Organization Management

角色管理: Role Management

系统类型定义: System Type Definition

功能管理: Function Management

菜单管理: Menu Management

系统黑名单: System Blacklist

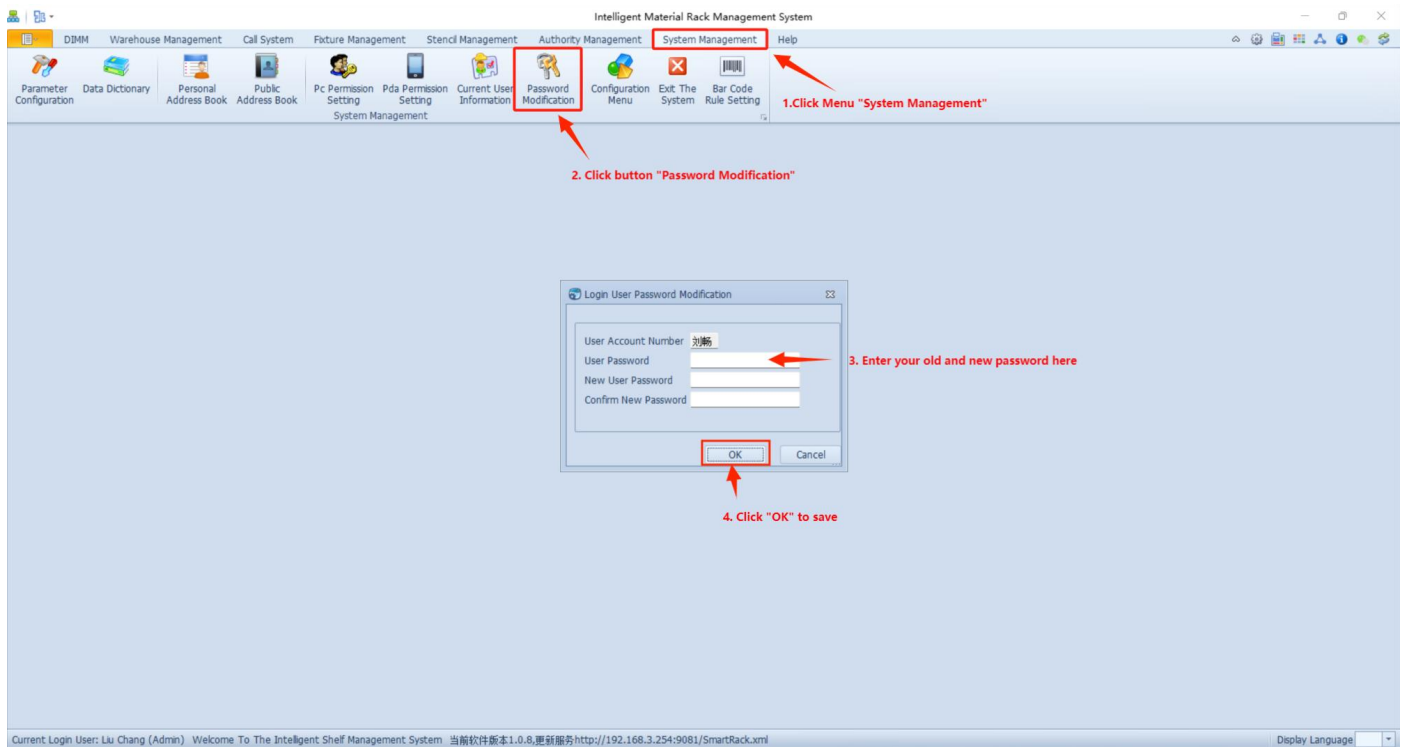
用户登陆日志: User Login Logs

用户操作日志: User Operation Logs

### End of translation

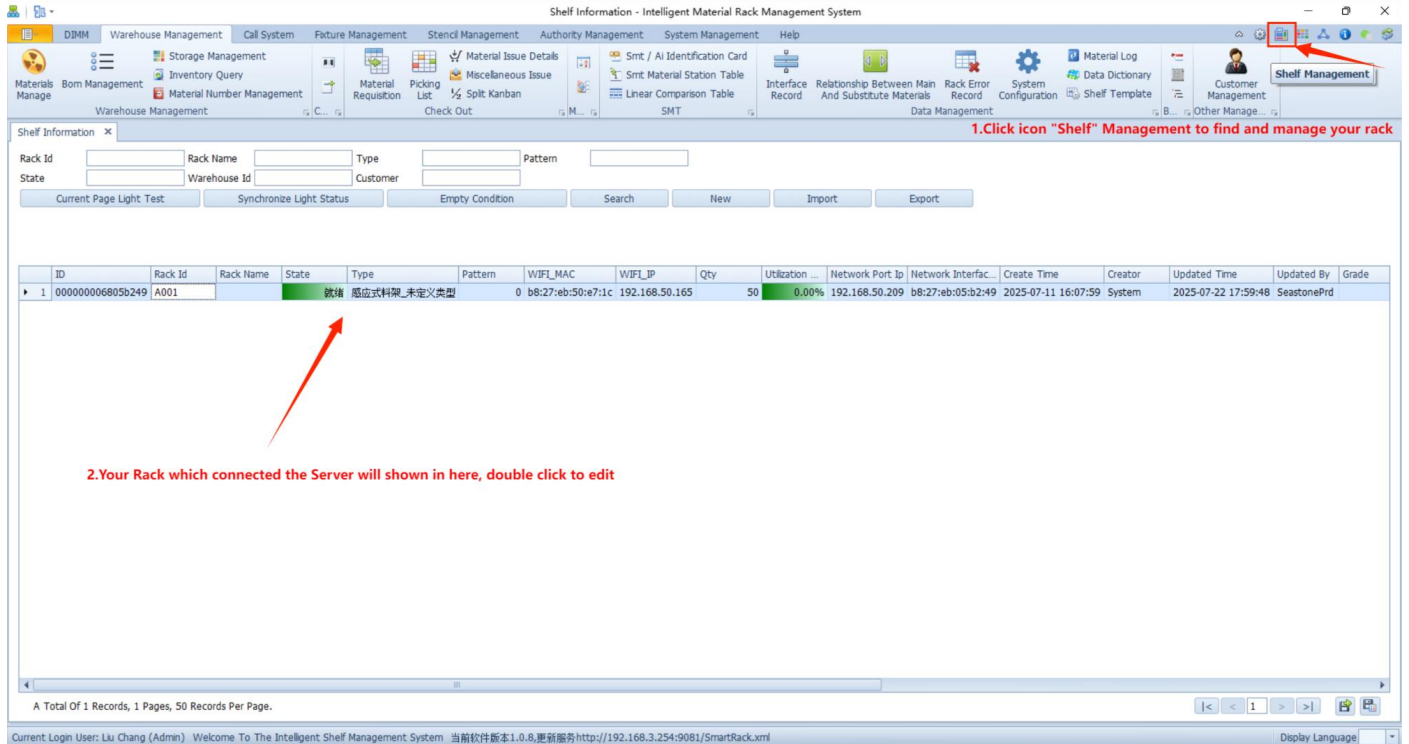
After you finish the grant permission, you can exit and login to your own account, original password for new account is :**12345678**

**Set new password or change password:**



1. Click Menu "System Management"
2. Click button "Password Modification"
3. Enter your old and new password
4. Click "Ok" to save
5. Restart and login your account by new password

## 3.4 Set Rack in software



Shelf Information - Intelligent Material Rack Management System

1. Click icon "Shelf" Management to find and manage your rack

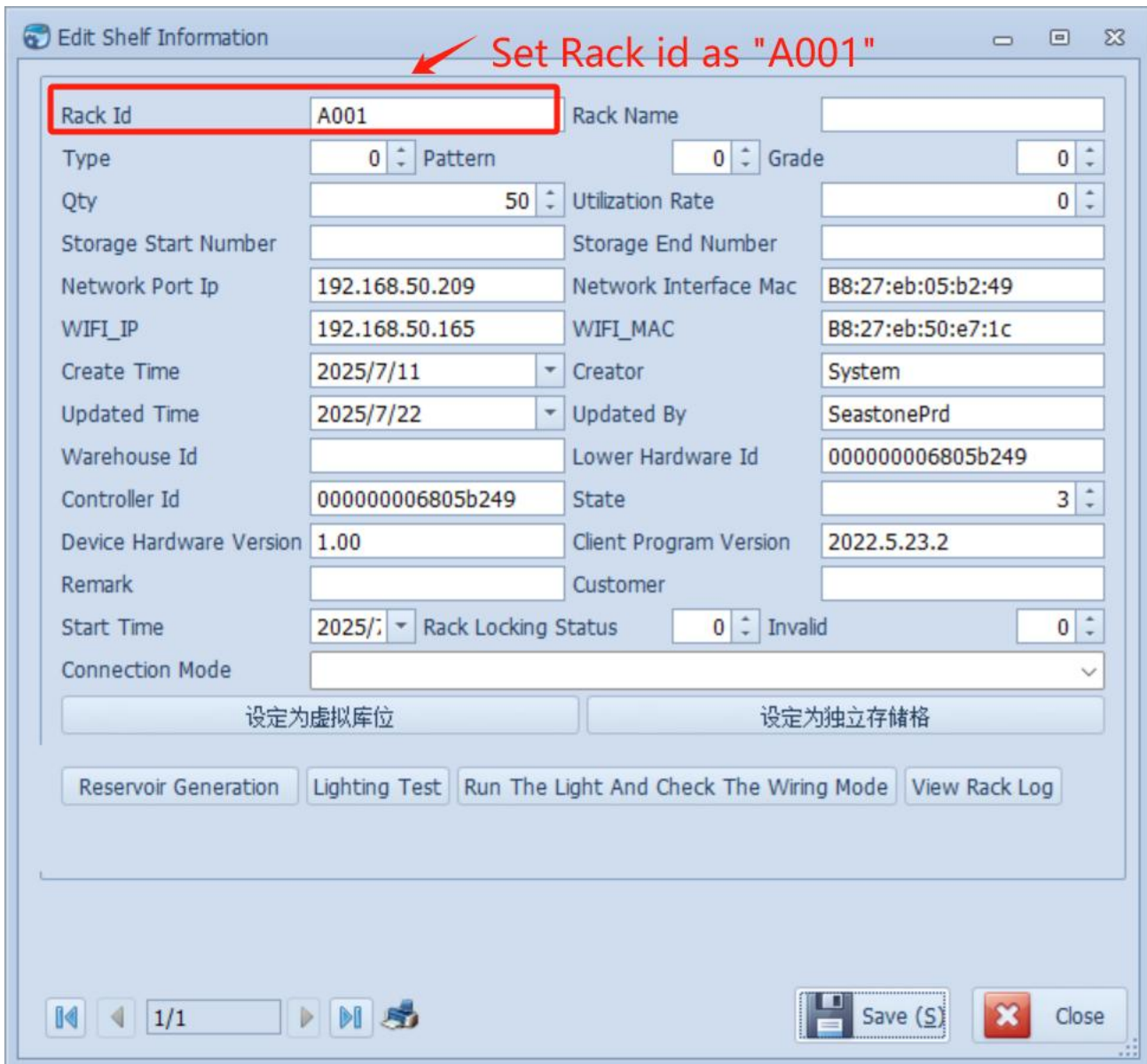
2. Your Rack which connected the Server will shown in here, double click to edit

ID	Rack Id	Rack Name	State	Type	Pattern	WIFI_MAC	WIFI_IP	Qty	Utilization ...	Network Port Ip	Network Interfac...	Create Time	Creator	Updated Time	Updated By	Grade
1	000000006805b249	A001	就绪	感应式料架_未定义类型		0 b8:27:eb:50:e7:1c	192.168.50.165	50	0.00%	192.168.50.209	b8:27:eb:05:b2:49	2025-07-11 16:07:59	System	2025-07-22 17:59:48	SeastonePrd	

A Total Of 1 Records, 1 Pages, 50 Records Per Page.

Current Login User: Lu Chang (Admin) Welcome To The Intelligent Shelf Management System 当前软件版本1.0.8,更新服务http://192.168.3.254:9081/SmartRack.xml

The Rack information will shown as below:



Set Rack id as "A001"

Rack Id	A001	Rack Name			
Type	0	Pattern	0	Grade	0
Qty	50	Utilization Rate	0		
Storage Start Number		Storage End Number			
Network Port Ip	192.168.50.209	Network Interface Mac	B8:27:eb:05:b2:49		
WIFI_IP	192.168.50.165	WIFI_MAC	B8:27:eb:50:e7:1c		
Create Time	2025/7/11	Creator	System		
Updated Time	2025/7/22	Updated By	SeastonePrd		
Warehouse Id		Lower Hardware Id	000000006805b249		
Controller Id	000000006805b249	State	3		
Device Hardware Version	1.00	Client Program Version	2022.5.23.2		
Remark		Customer			
Start Time	2025/	Rack Locking Status	0	Invalid	0
Connection Mode					

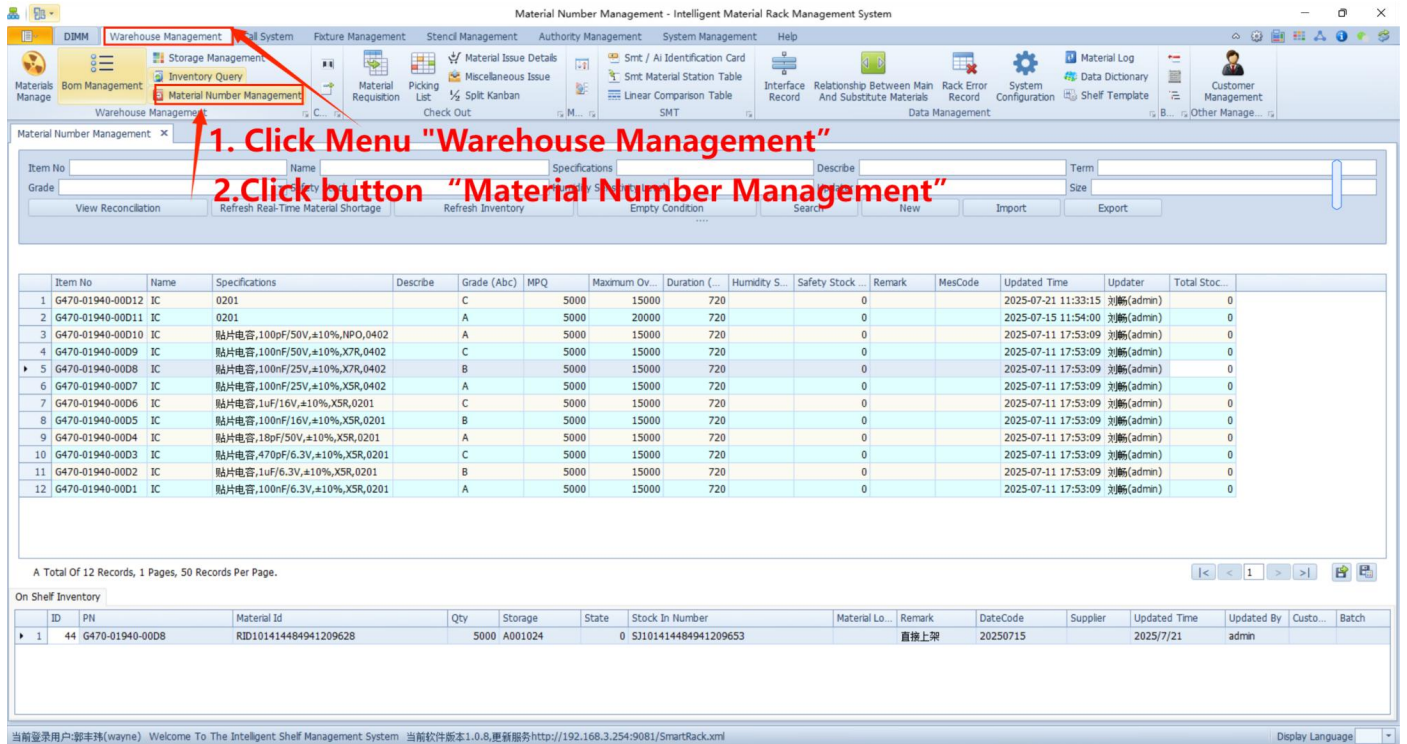
设定为虚拟库位      设定为独立存储格

Reservoir Generation    Lighting Test    Run The Light And Check The Wiring Mode    View Rack Log

1/1    Save (S)    Close

Rename the "Rack Id" to **A001**, you can rename the "nickname", **other's setting please don't change.**

## 3.5 Material Creation and Management



**1. Click Menu "Warehouse Management"**

**2. Click button "Material Number Management"**

Item No	Name	Specifications	Describe	Grade (Abc)	MPQ	Maximum Ov.	Duration (..)	Humidity S...	Safety Stock	Remark	MesCode	Updated Time	Updater	Total Stoc...
1	G470-01940-00012	IC	0201	C	5000	15000	720		0			2025-07-21 11:33:15	刘新(admin)	0
2	G470-01940-00011	IC	0201	A	5000	20000	720		0			2025-07-15 11:54:00	刘新(admin)	0
3	G470-01940-00010	IC	贴片电容,100pF/50V,±10%,NPO,0402	A	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
4	G470-01940-0009	IC	贴片电容,100nF/50V,±10%,X7R,0402	C	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
5	G470-01940-0008	IC	贴片电容,100nF/25V,±10%,X7R,0402	B	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
6	G470-01940-0007	IC	贴片电容,100nF/25V,±10%,X5R,0402	A	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
7	G470-01940-0006	IC	贴片电容,1uF/16V,±10%,X5R,0201	C	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
8	G470-01940-0005	IC	贴片电容,100nF/16V,±10%,X5R,0201	B	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
9	G470-01940-0004	IC	贴片电容,18pF/50V,±10%,X5R,0201	A	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
10	G470-01940-0003	IC	贴片电容,470pF/6.3V,±10%,X5R,0201	C	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
11	G470-01940-0002	IC	贴片电容,1uF/6.3V,±10%,X5R,0201	B	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0
12	G470-01940-0001	IC	贴片电容,100nF/6.3V,±10%,X5R,0201	A	5000	15000	720		0			2025-07-11 17:53:09	刘新(admin)	0

A Total Of 12 Records, 1 Pages, 50 Records Per Page.

ID	PN	Material Id	Qty	Storage	State	Stock In Number	Material Lo...	Remark	DateCode	Supplier	Updated Time	Updated By	Custo...	Batch
1	44	G470-01940-0008		RID101414484941209628	5000	A001024	0	SJ101414484941209653		直接上架	20250715		2025/7/21	admin

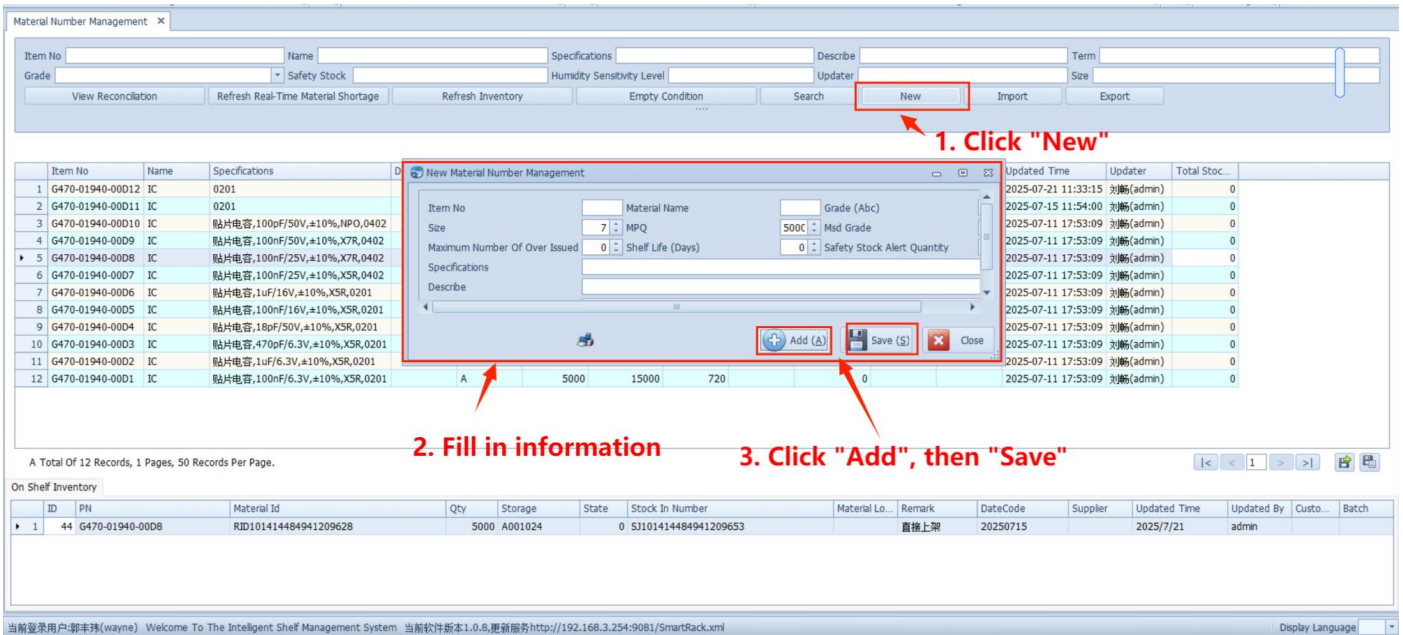
当前登录用户: 郭丰玮(wayne) Welcome To The Intelligent Shelf Management System 当前软件版本: 1.0.8, 更新服务: http://192.168.3.254:9081/SmartRack.xml Display Language

Click Menu "Warehouse Management", and button "Material Number Management" to visit the page.

You can create new material number in the software, or import it by Excel.

### Method of editing in software:

1. Click button "New"
2. Fill in information of material
3. Click Button "Add", then "Save"



**1. Click "New"**

**2. Fill in information**

**3. Click "Add", then "Save"**

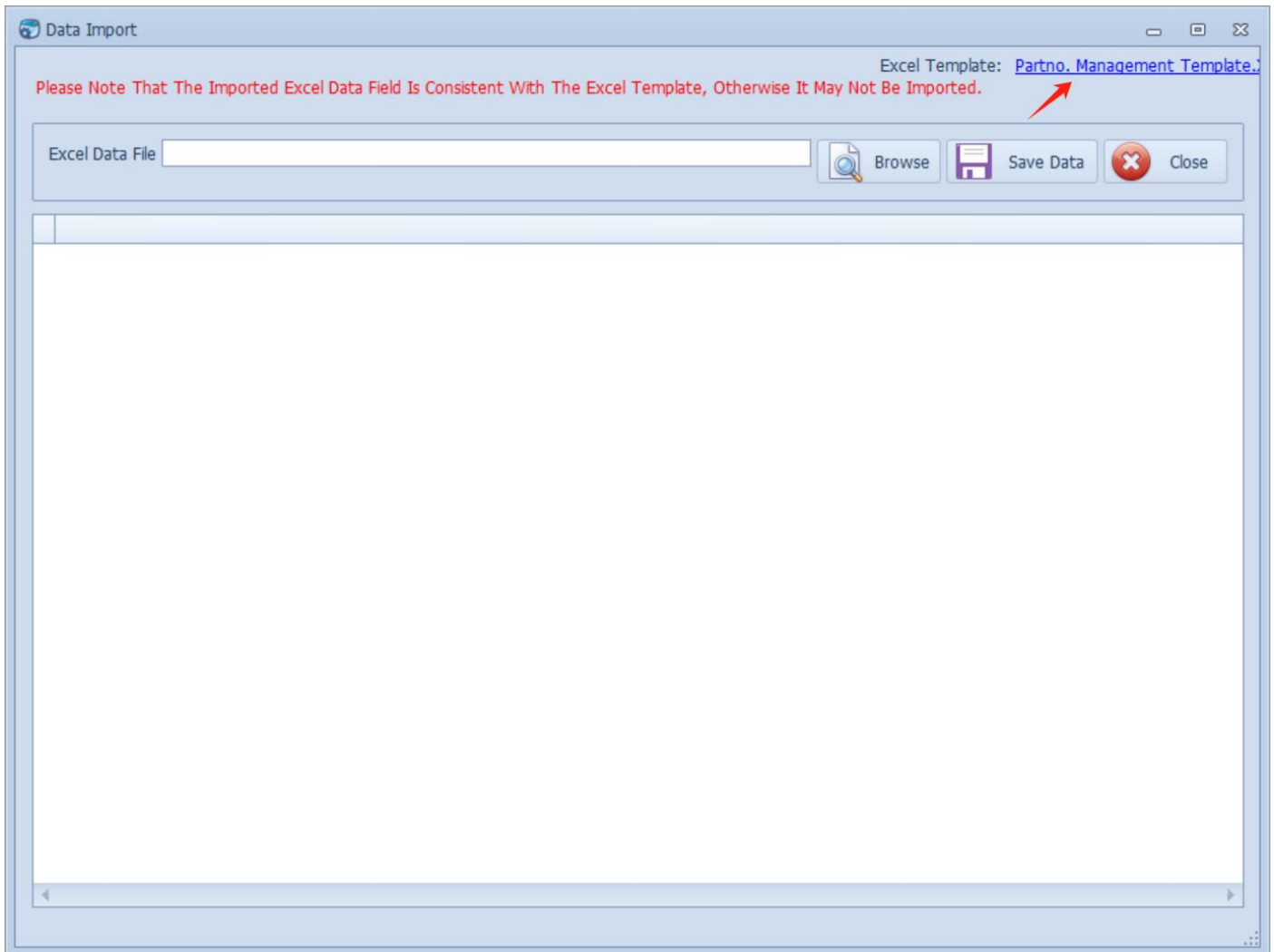
Item No	Name	Specifications	Updated Time	Updater	Total Stoc...
1	G470-01940-00012	IC 0201	2025-07-21 11:33:15	刘麟(admin)	0
2	G470-01940-00011	IC 0201	2025-07-15 11:54:00	刘麟(admin)	0
3	G470-01940-00010	IC 贴片电容,100pF/50V,±10%,NPO,0402	2025-07-11 17:53:09	刘麟(admin)	0
4	G470-01940-0009	IC 贴片电容,100nF/50V,±10%,X7R,0402	2025-07-11 17:53:09	刘麟(admin)	0
5	G470-01940-0008	IC 贴片电容,100nF/25V,±10%,X7R,0402	2025-07-11 17:53:09	刘麟(admin)	0
6	G470-01940-0007	IC 贴片电容,100nF/25V,±10%,XSR,0402	2025-07-11 17:53:09	刘麟(admin)	0
7	G470-01940-0006	IC 贴片电容,1uF/16V,±10%,XSR,0201	2025-07-11 17:53:09	刘麟(admin)	0
8	G470-01940-0005	IC 贴片电容,100nF/16V,±10%,XSR,0201	2025-07-11 17:53:09	刘麟(admin)	0
9	G470-01940-0004	IC 贴片电容,180pF/50V,±10%,XSR,0201	2025-07-11 17:53:09	刘麟(admin)	0
10	G470-01940-0003	IC 贴片电容,470pF/6.3V,±10%,XSR,0201	2025-07-11 17:53:09	刘麟(admin)	0
11	G470-01940-0002	IC 贴片电容,1uF/6.3V,±10%,XSR,0201	2025-07-11 17:53:09	刘麟(admin)	0
12	G470-01940-0001	IC 贴片电容,100nF/6.3V,±10%,XSR,0201	2025-07-11 17:53:09	刘麟(admin)	0

ID	PH	Material Id	Qty	Storage	State	Stock In Number	Material Lo...	Remark	DateCode	Supplier	Updated Time	Updated By	Custo...	Batch
1	44	G470-01940-0008									2025/7/21	admin		

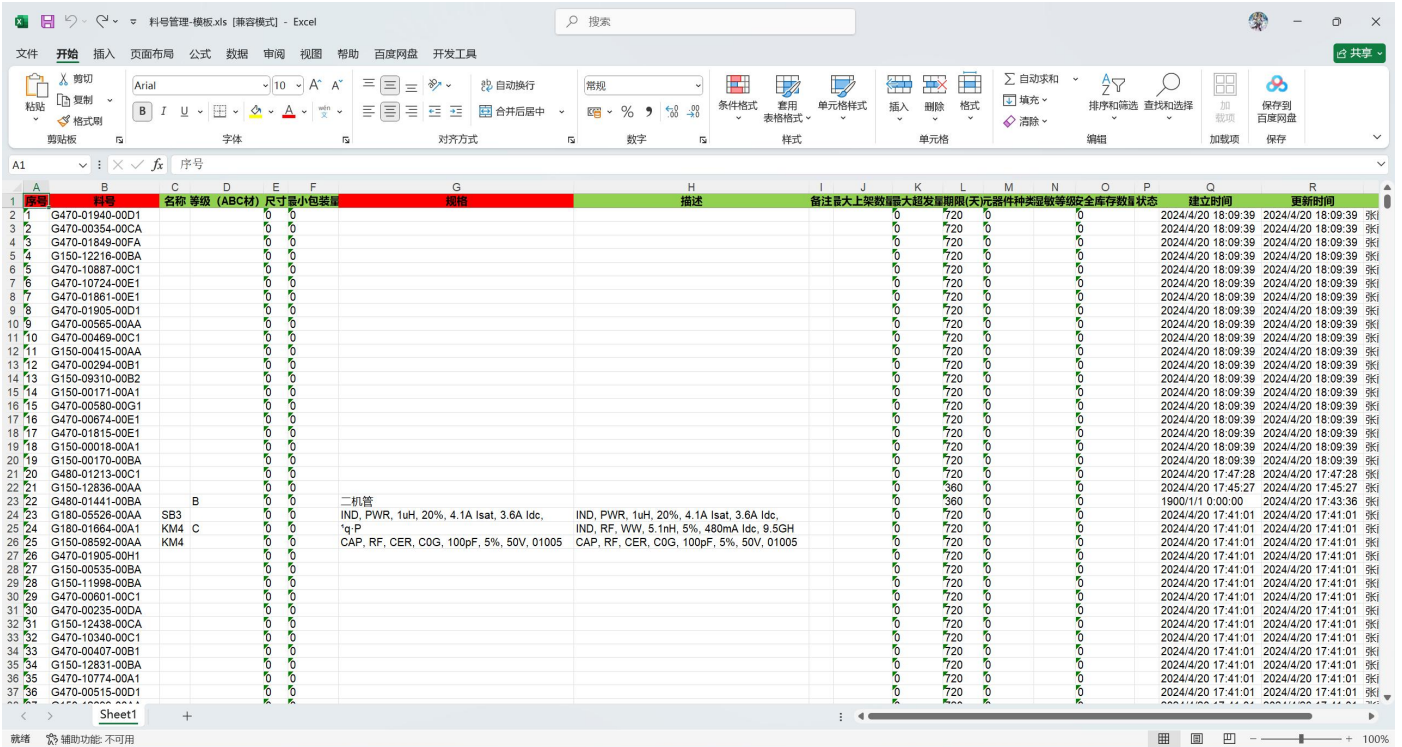
## Method of Import Excel to Software:

1. Edit your Excel of Material, and import it to the software. There's a Excel temple you can use editing.





Note: Please set and fill in the information according to the order rules of the template, otherwise the system will not be able to recognize it. **The red part is required information.**



序号	料号	名称	等级 (ABC材)	尺寸	最小包装量	规格	描述	备注	最大上架数量	最大超发量(天)	元器件种类	数量	等级	全库存数	状态	建立时间	更新时间
1	G470-01940-00D1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
2	G470-00354-00CA			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
3	G470-01849-00FA			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
4	G150-12216-00BA			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
5	G470-10887-00C1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
6	G470-10724-00E1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
7	G470-01881-00E1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
8	G470-01905-00D1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
9	G470-00565-00AA			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
10	G470-00469-00C1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
11	G150-00415-00AA			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
12	G470-00294-00B1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
13	G150-09310-00B2			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
14	G150-00171-00A1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
15	G470-00580-00G1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
16	G470-00674-00E1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
17	G470-01815-00E1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
18	G150-00018-00A1			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
19	G150-00170-00BA			0	0				0	720	0	0				2024/4/20 18:09:39	2024/4/20 18:09:39
20	G480-01213-00C1			0	0				0	720	0	0				2024/4/20 17:47:28	2024/4/20 17:47:28
21	G150-12836-00AA			0	0				0	360	0	0				2024/4/20 17:45:27	2024/4/20 17:45:27
22	G480-01441-00BA	B		0	0	二机盖			0	360	0	0				1900/1/1 0:00:00	2024/4/20 17:43:36
23	G180-05526-00AA	SB3		0	0	IND, PWR, 1uH, 20%, 4.1A Isat, 3.6A ldc.	IND, PWR, 1uH, 20%, 4.1A Isat, 3.6A ldc.		0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
24	G180-01664-00A1	KM4 C		0	0	'q-P	IND, RF, WW, 5.1nH, 5%, 480mA ldc, 9.5GH		0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
25	G150-08592-00AA	KM4		0	0	CAP, RF, CER, COG, 100pF, 5%, 50V, 01005	CAP, RF, CER, COG, 100pF, 5%, 50V, 01005		0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
26	G470-01905-00H1			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
27	G150-08535-00BA			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
28	G150-11998-00BA			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
29	G470-00601-00C1			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
30	G470-00235-00DA			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
31	G150-12438-00CA			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
32	G470-10340-00C1			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
33	G470-00407-00B1			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
34	G150-12831-00BA			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
35	G470-10774-00A1			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
36	G470-00515-00D1			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01
37	G470-00515-00D1			0	0				0	720	0	0				2024/4/20 17:41:01	2024/4/20 17:41:01

You are able to save the temple as your own Excel, but **please do not move the temple, or change the name of temple.**

### Below is the Translation of each line title:

序号: Serial Number

料号: Part Number

名称: Name

等级 (ABC 材): Classification (ABC Classification)

尺寸: Size

最小包装量: Minimum Order Quantity

规格: Specification

描述: Description

备注: Remarks

最大上架数量: Maximum Put - away Quantity

最大超发量: Maximum Over - issue Quantity

期限 (天): Period (Days)

元器件种类: Component Type

湿敏等级: Moisture Sensitivity Level

安全库存数量: Safety Stock Quantity

状态: Status

建立时间: Creation Time

更新时间: Update Time

更新用户: Updated By (who)

## Generate and Print Label:

### Bar-code editing

If there is no label on the incoming material tray, this function can be used to quickly generate material tray labels in batches, ensuring that the IDs of all material trays are unique. You will need Bar-code to scan by PDA, to finish the inbound and outbound scanning. This is an example Bar-code:



And it will scan as this: **151301945;GRN2001020004378;20201203;1000;**

151301945 is **Serial Number**, GRN2001020004378 is **Reel ID**, 20201203 is **Date code**, 1000 is Quantity, they all separate by **Split Character**.

### Common Field Reference:

**Part Number:** The unique material code for the same material classification of in - factory materials

**ID:** The unique identifier of the material, one ID per material. The ID on each minimum package must not be duplicated. (Equivalent to a person's ID number. Corresponding different information is stored and controlled in each link of the material, similar to how a person's ID card has different associated information in different scenarios)

**Quantity:** The quantity of materials in the minimum package

Date Code: The production date of the material, used to control the first - in - first - out (FIFO)

Supplier Code: Used for incoming material inspection and return of incoming materials

## ID Generation Methods:

The rack system has provided software that can generate labels in batches quickly.

For other self - generated IDs or those from third - party suppliers, if generated using BarTender scripts, refer to the following script.



Value = Replace(Replace(LCase(Replace(CreateObject("Scriptlet.TypeLib").Guid, "-", "")), "{", ""), "}", ""))

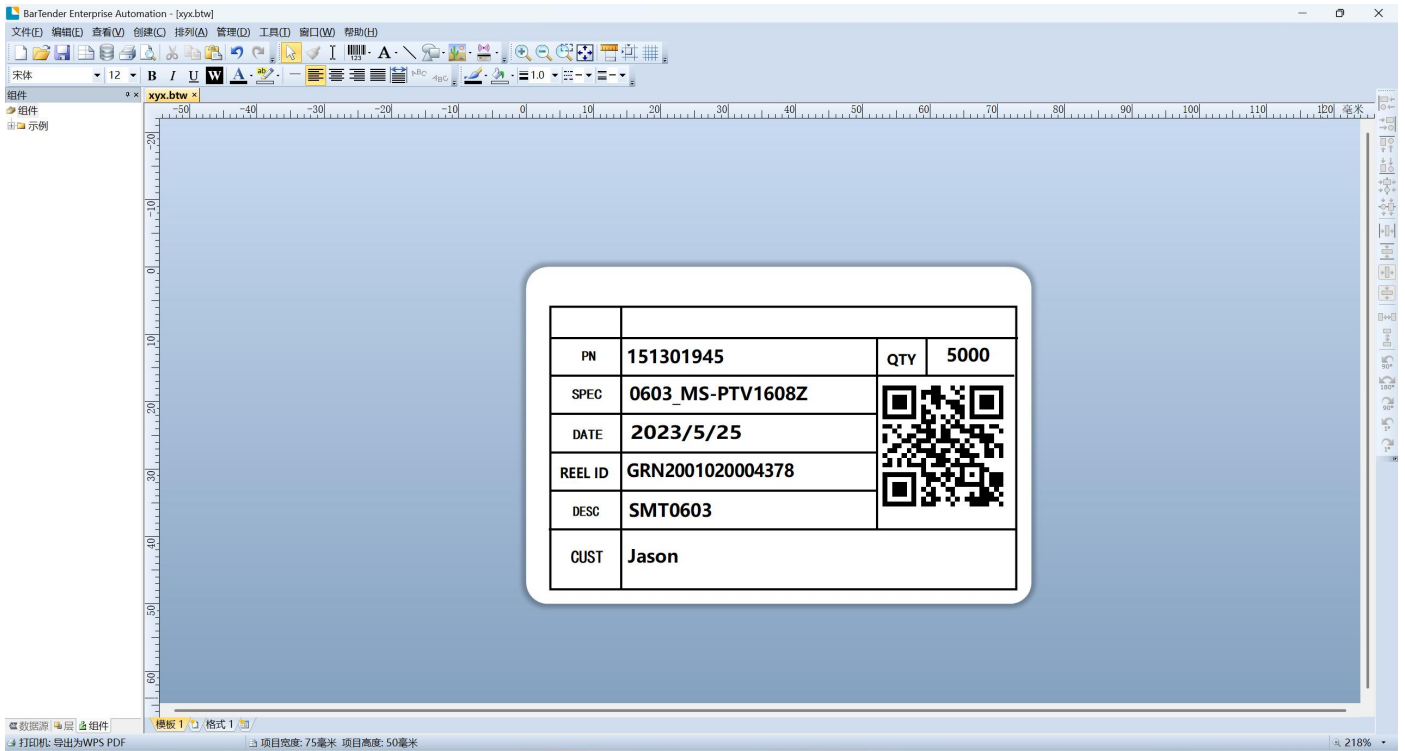
## If generated using Excel:

```
=LOWER(CONCATENATE(DEC2HEX(RANDBETWEEN(0,POWER(16,8)),8),"",DEC2HEX(RANDBETWEEN(0,POWER(16,4)),4),"", "4",DEC2HEX(RANDBETWEEN(0,POWER(16,3)),3),"",DEC2HEX(RANDBETWEEN(8,11)),DEC2HEX(RANDBETWEEN(0,POWER(16,3)),3),"",DEC2HEX(RANDBETWEEN(0,POWER(16,8)),8),DEC2HEX(RANDBETWEEN(0,POWER(16,4)),4)))
```

For ID generation in other software, directly call the GUID function or UUID function to generate the ID.

## Material Label Design:

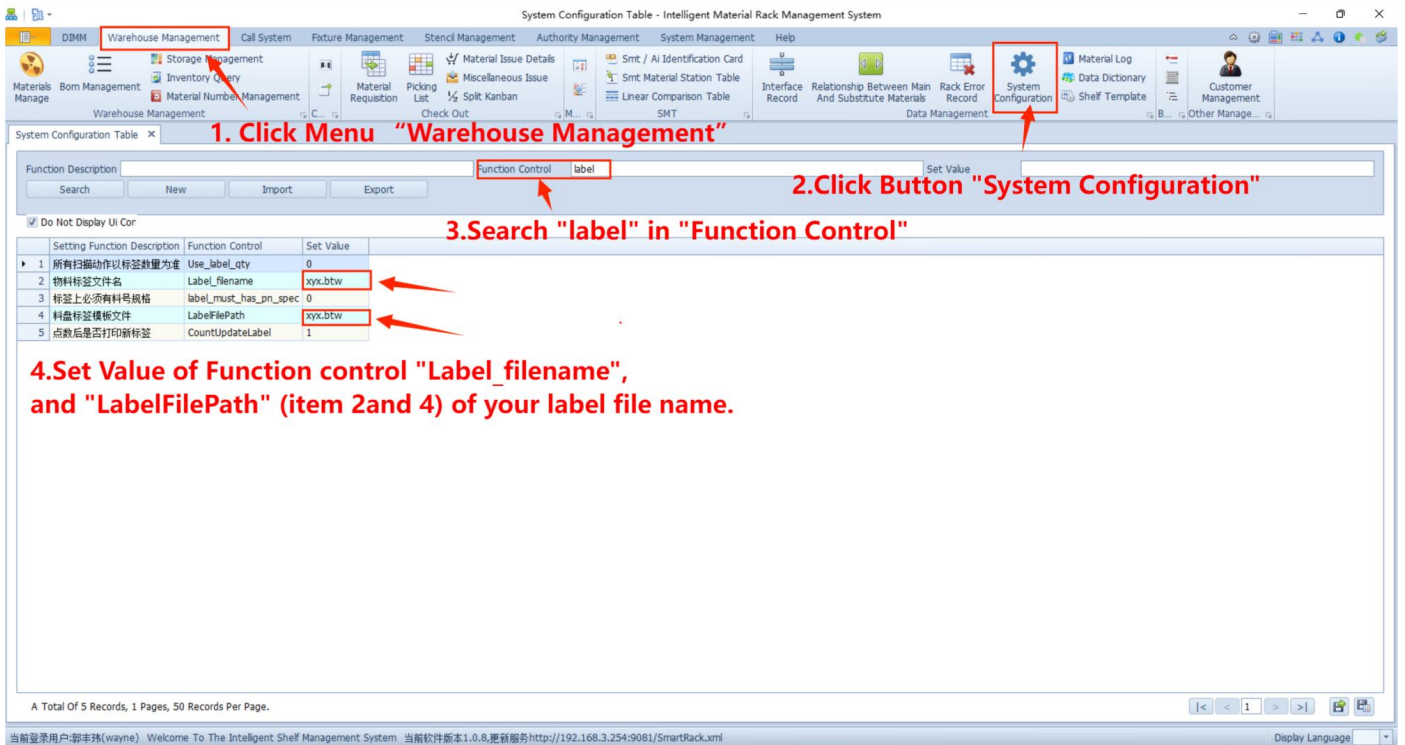
Design the information combination rules of the Bar-code directly in BarTender.



Save and rename your Label file in the folder.

### Set your Label name to the software:

1. Click Menu "Warehouse Management"
2. Click Button "System Configuration"
3. Search "label" in "Function Control"
4. Set Value of Function control "Label\_filename", and "LabelFilePath" (item 2 and 4) of your label file name.



**1. Click Menu "Warehouse Management"**

**2. Click Button "System Configuration"**

**3. Search "label" in "Function Control"**

**4. Set Value of Function control "Label\_filename", and "LabelFilePath" (item 2 and 4) of your label file name.**

Setting	Function Description	Function Control	Set Value
1	所有扫描动作以标签数量为准	Use_label_qty	0
2	物料标签文件名	Label_filename	xxx.btw
3	标签上必须有料号规格	label_must_has_pn_spec	0
4	料盘标签模板文件	LabelFilePath	xxx.btw
5	点数后是否打印新标签	CountUpdateLabel	1

## Set Bar-Code Rules:

1. Click Menu "System Management"
2. Click Button "Bar-Code Rule Setting"
3. Set Value of Position in Bar-Code you design, and Split Character. For example, your bar-code first position is serial number, then set PN (item 15) as "1", second position is reel ID, then set it (item 9) "2".
4. Set the delimiter split\_char.:

## Position-based Recognition:

Configure position fields in the barcode for location settings. Prefixes and suffixes can be defined to automatically strip these characters during recognition.

## Prefix-based Recognition:

Define prefixes for relevant data and set the position to 0. The system will automatically retrieve data based on the prefix and save the content after stripping both prefixes and suffixes.

Bar Code Rule Table - Intelligent Material Rack Management System

1. Click Menu "System Management"

2. Click Button "Bar-Code Rule Setting"

Set Value of Position in Bar-Code you design, and Split Character.

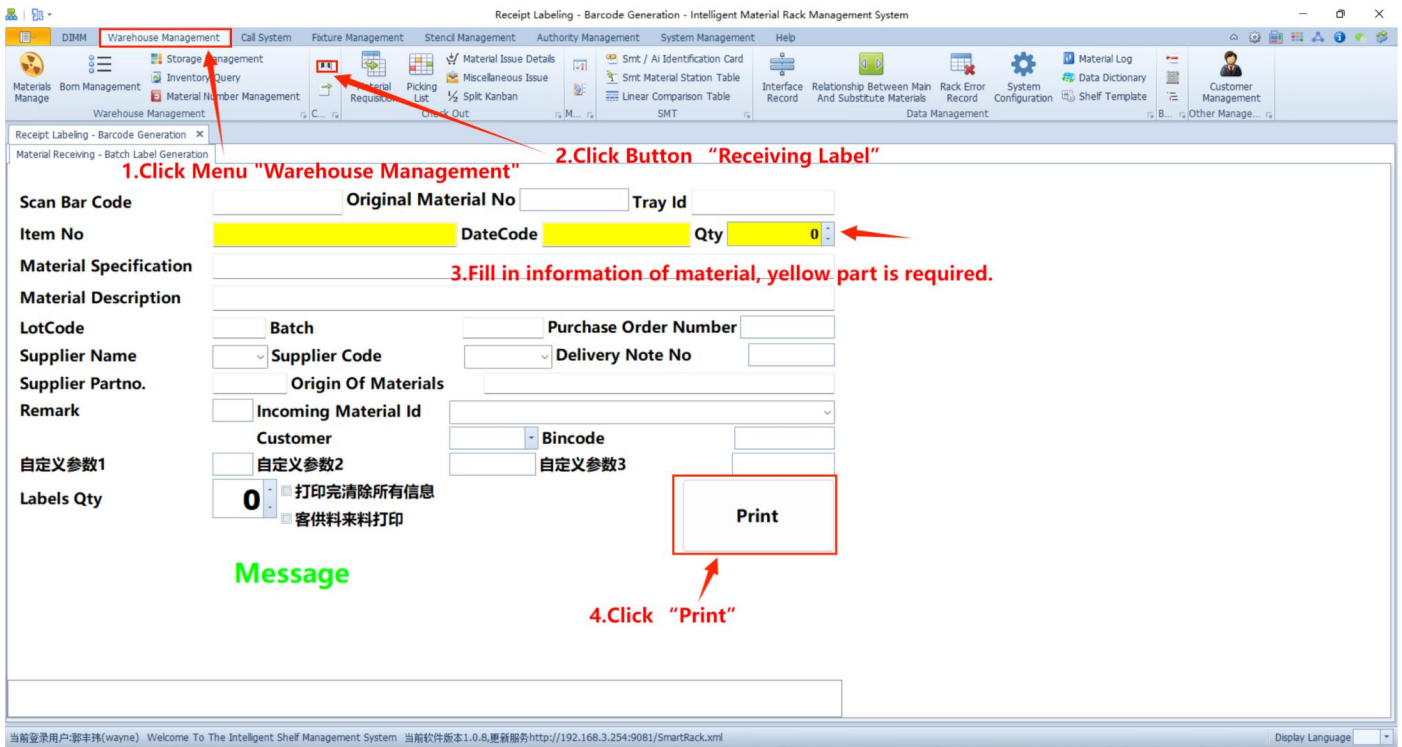
ID	Barcode Type	Field	Position In Bar...	Prefix	Suffix	Remark
1	7d267a4-ac9f...	Reel	Po	0		Order Number
2	d0c49324-bc5...	Gw	Split_char	0		Barcode param...
3	c866f8bd-8d4...	Gw	Id	0		Stencil
4	c693c727-d57...	Tool	Split_char	0		Barcode param...
5	b8143063-bc5...	reel	pn_reel	0		
6	b801bea2-bc5...	reel	vendor_pn	0		
7	3cc0df64-bc5f...	reel	cid	0		
8	3cb991e9-bc5...	reel	bincode	0		
9	35b933c3-ac9...	Reel	Id	2		Material Id
10	35b9329b-ac9...	Reel	Lotcode	0		Original batch ...
11	35b9337b-ac9...	Reel	Datecode	4		Material Produc...
12	35b93358-ac9...	Reel	Vendor	0		Supplier
13	35b93332-ac9...	Reel	Pd_location	0		Place Of Origin
14	35b9330f-ac9...	Reel	Qty	3		Qty
15	35b932ec-ac9...	Reel	Pn	0		Item No
16	35b93298-ac9...	Reel	Split_char	0 ;		Delimiter
17	35b930b4-ac9...	Reel	Batch	0		Receiving Batch
18	09bf169f-dd5...	reel	customer	0		
19	09b8dfaf-dd5...	reel	msd_level	0		

A Total Of 19 Records, 1 Pages, 50 Records Per Page.

当前登录用户: 郭丰玮(wayne) Welcome To The Intelligent Shelf Management System 当前软件版本1.0.8,更新服务http://192.168.3.254:9081/SmartRack.xml Display Language

## Print Label:

1. Click Menu "Warehouse Management"
2. Click Button "Receiving Label"
3. Fill in information of material, **yellow part is required.**
4. Click "Print"



The screenshot shows the 'Receipt Labeling - Barcode Generation' window in the Intelligent Material Rack Management System. The interface includes a menu bar with 'Warehouse Management' highlighted, and a toolbar with a 'Receiving Label' button. The main form contains fields for material information, a 'Qty' dropdown set to '0', and a 'Print' button. Red arrows and text annotations provide a four-step guide: 1. Click Menu 'Warehouse Management', 2. Click Button 'Receiving Label', 3. Fill in information of material, yellow part is required (pointing to the yellow 'Qty' field), and 4. Click 'Print' (pointing to the 'Print' button). A green 'Message' label is also present.

1. Click Menu "Warehouse Management"

2. Click Button "Receiving Label"

3. Fill in information of material, yellow part is required.

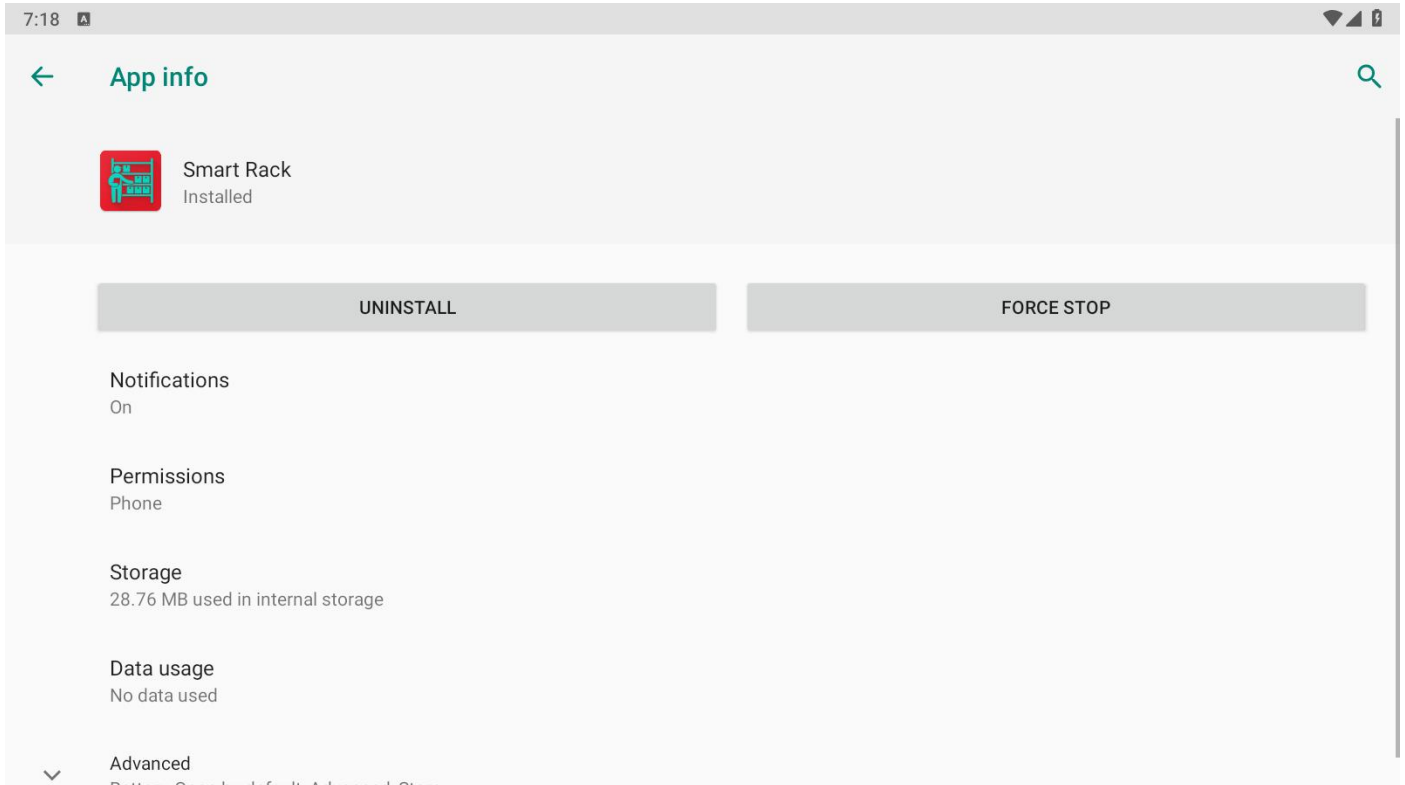
4. Click "Print"

Message

## Chapter 4: Set PDA App

### 4.1 Log in to PDA app:

Open the red icon app as below in your PDA:



In Login Page, click the button in right corner to set IP address of your server software and rack connected.

7:19

SEASTONE

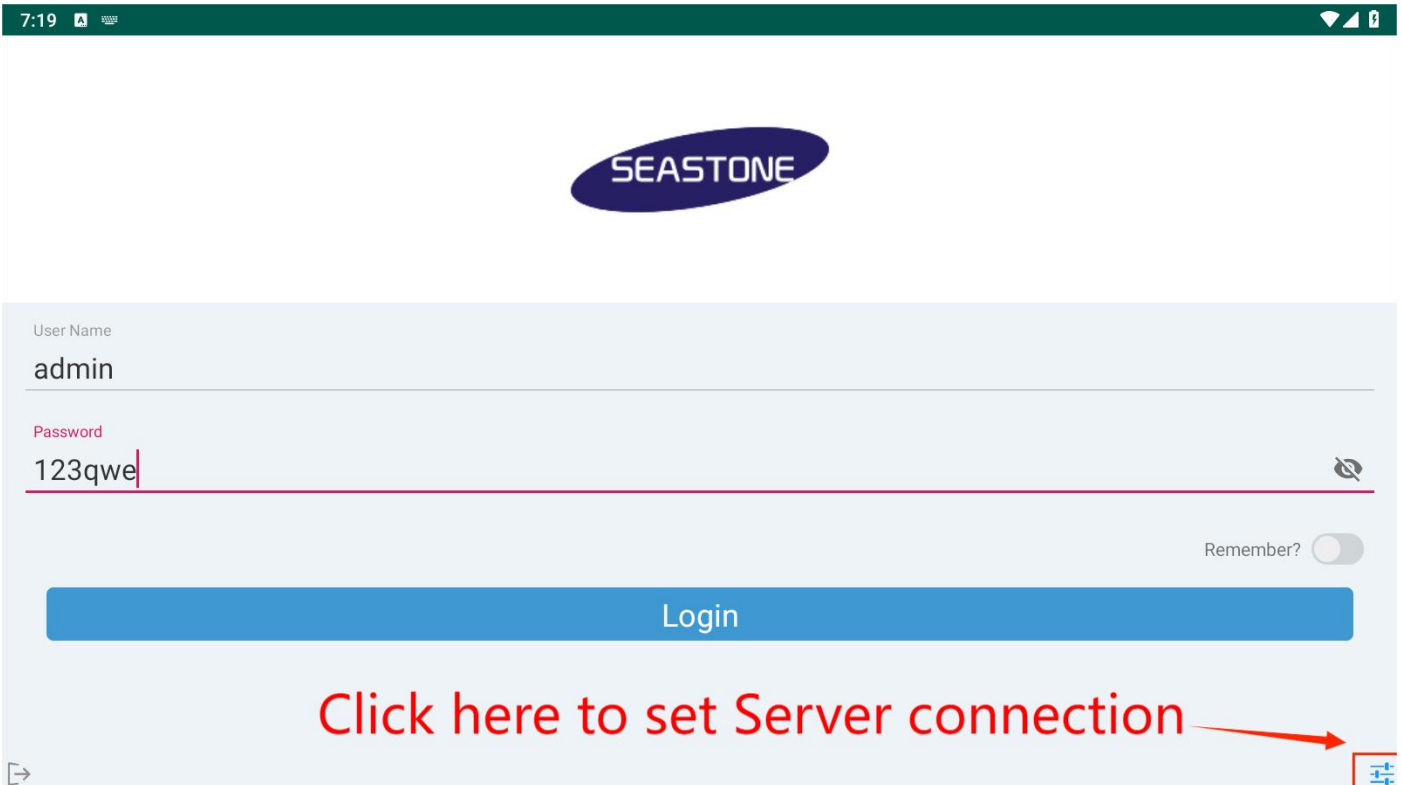
User Name  
admin

Password  
123qwe

Remember?

Login

Click here to set Server connection



7:18

SettingsActivity

Note: Modify settings need to exit the APP and restart to take effect

Server url  
http://192.168.50.211:5080

Advance Settings

Save

Check update

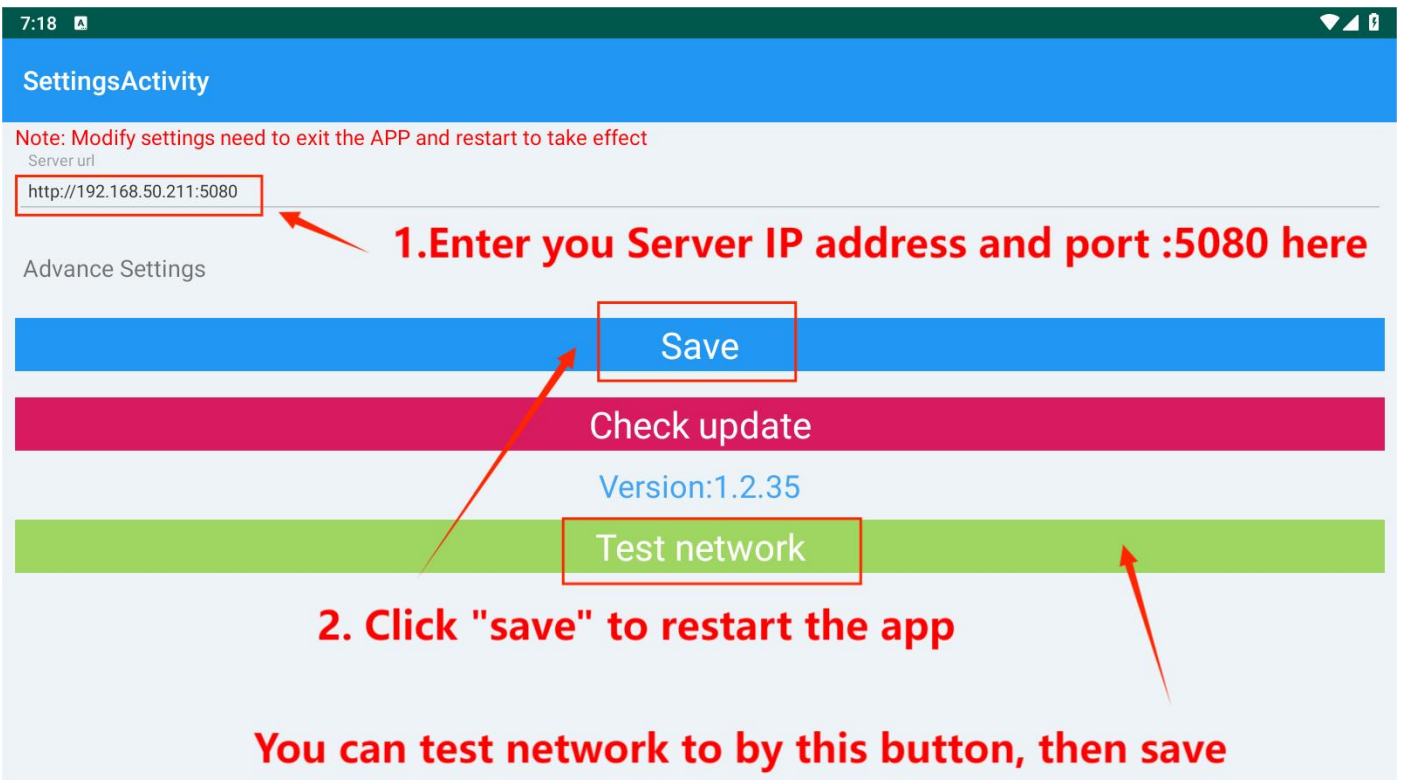
Version:1.2.35

Test network

1. Enter you Server IP address and port :5080 here

2. Click "save" to restart the app

You can test network to by this button, then save



Login to the app, original account is:

User name: admin

Password: 123qwe

Address: Room 1806, Block 3, Jinyun COFCO, Qianjin 2nd Road, Xixiang, Baoan District, Shenzhen City, China  
Website: www.smthelp.com Tel: +86-755-83203237; Fax: +86-755-23240492

SEASTONE

User Name

admin

Password

123qwe

Remember? 

Login



The successful login page as below:



Sensor rack stock in



Stock In Scan



Prepare Material



Stock Out Scan



Take out recheck



SplitMaterialActivity



Stock In by return



Move to cart by wo



SMT StockOut



SMT first stock out



Light all first set of materials



Clear cart



Work order return



Material query



Update item QTY



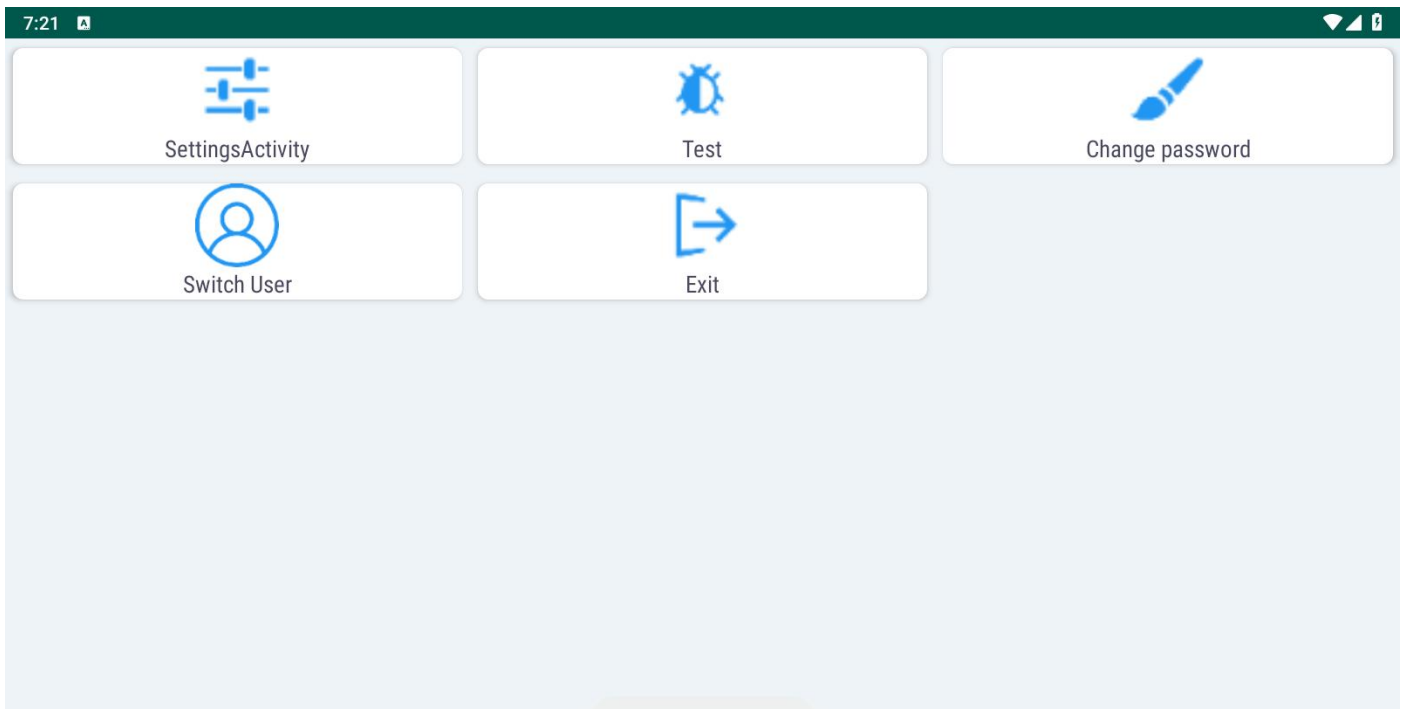
Rack



Public rack tools

## Change the password:

Click Menu “Public rack tools ,” and change password, you can set new password or account “admin”



7:21

SettingsActivity

Test

Change password

Switch User

Exit

It's the latest version

Rack Public rack tools

7:21

Input old password

Input new password

Input repeat password

Change password

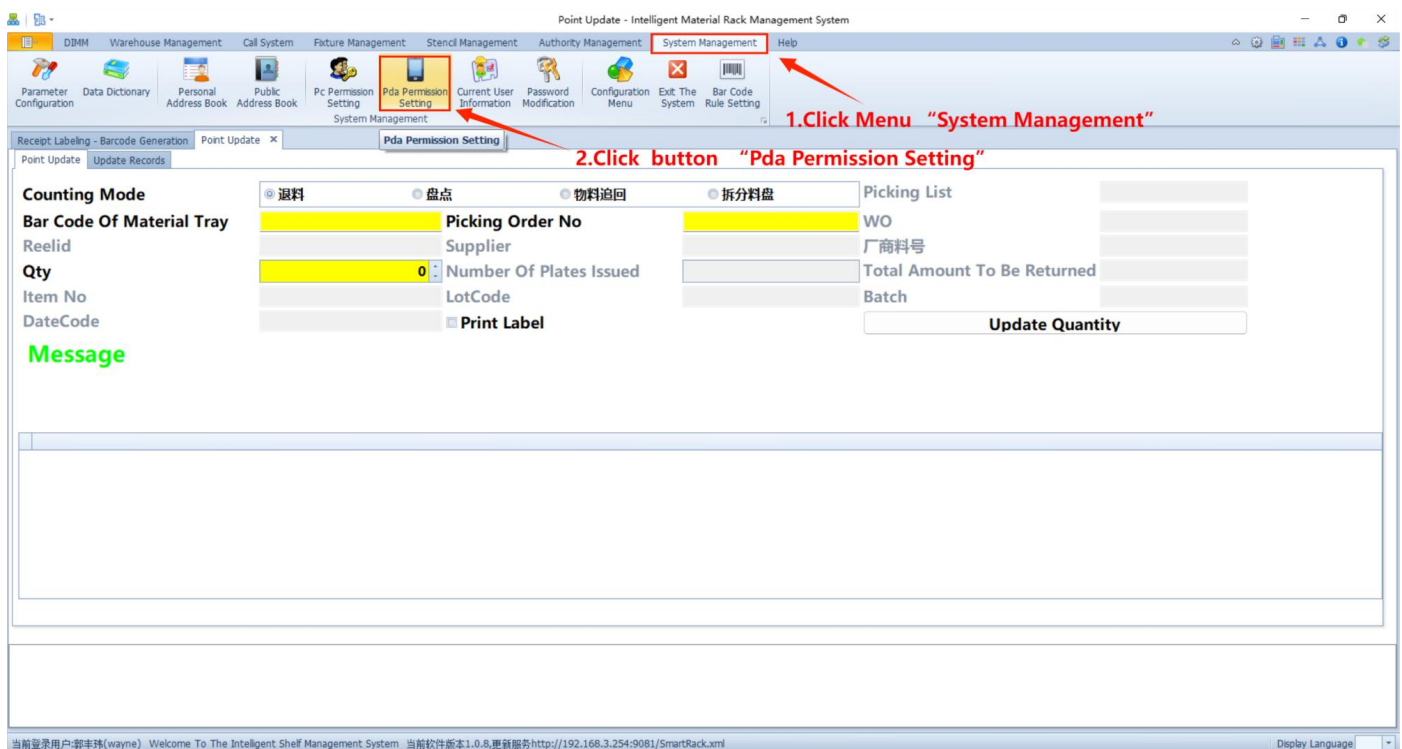
Create new account of PDA:

In software, you are able to create new account, click Menu “System Management”, and button “Pda Permission Setting”, or directly visit website your server IP address + port :5080 (for example: 192.168.50.211:5080).

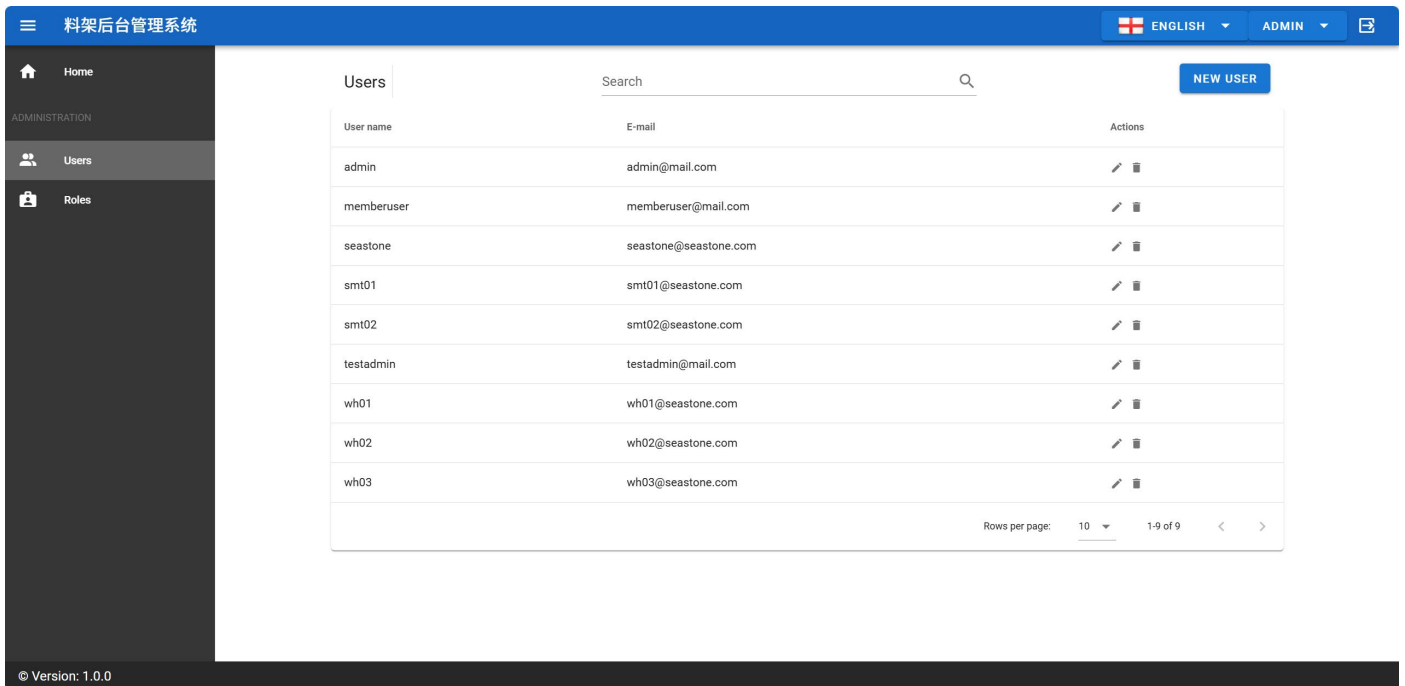
The login account of the website is same with PDA app:

User name: admin

Password:123qwe



This is the management page, you can add new user, change or delete old user



料架后台管理系统

ENGLISH ADMIN



















Home

ADMINISTRATION

Users

Roles

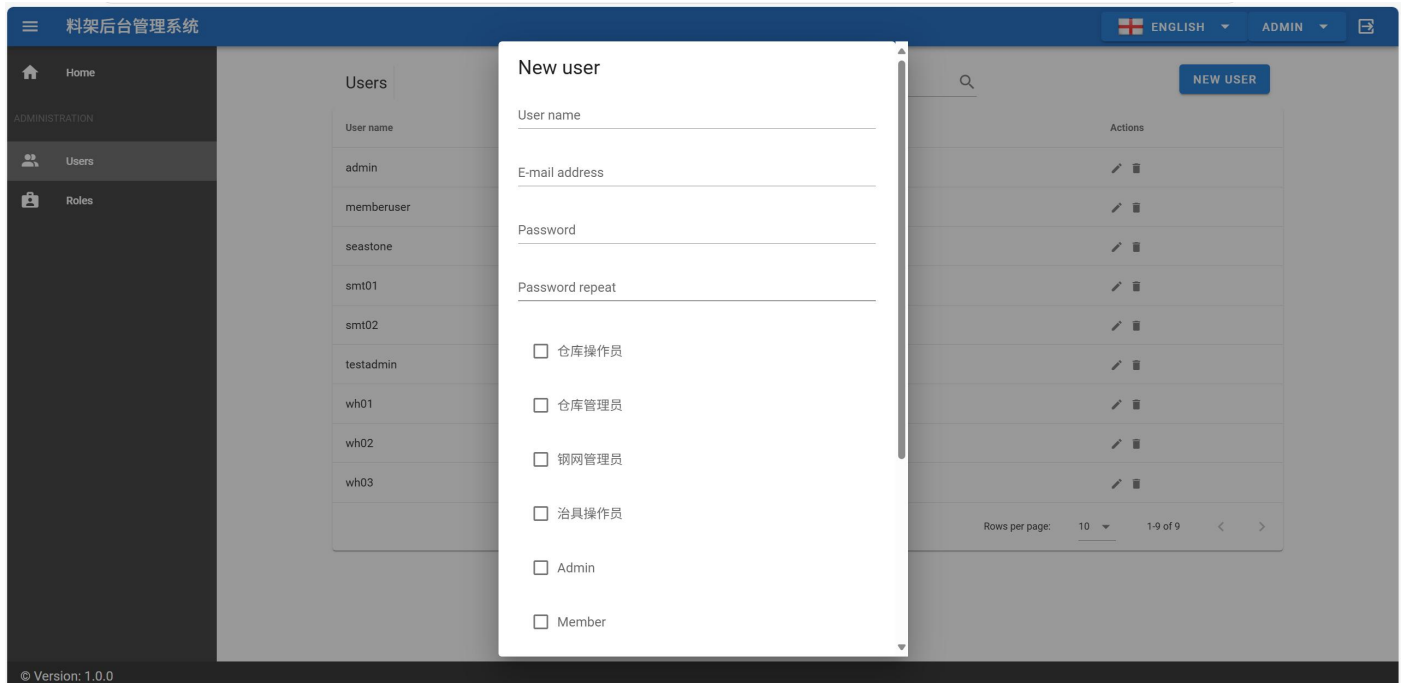
Users

User name	E-mail	Actions
admin	admin@mail.com	 
memberuser	memberuser@mail.com	 
seastone	seastone@seastone.com	 
smt01	smt01@seastone.com	 
smt02	smt02@seastone.com	 
testadmin	testadmin@mail.com	 
wh01	wh01@seastone.com	 
wh02	wh02@seastone.com	 
wh03	wh03@seastone.com	 

Rows per page: 10 1-9 of 9

© Version: 1.0.0

Click button “New user”, you will see the page as below, to fill in all information, and click “save” at bottom you are able to create new account.



料架后台管理系统

ENGLISH ADMIN

Home

ADMINISTRATION

Users

Roles

Users

New user

User name

E-mail address

Password

Password repeat

仓库操作员

仓库管理员

钢网管理员

治具操作员

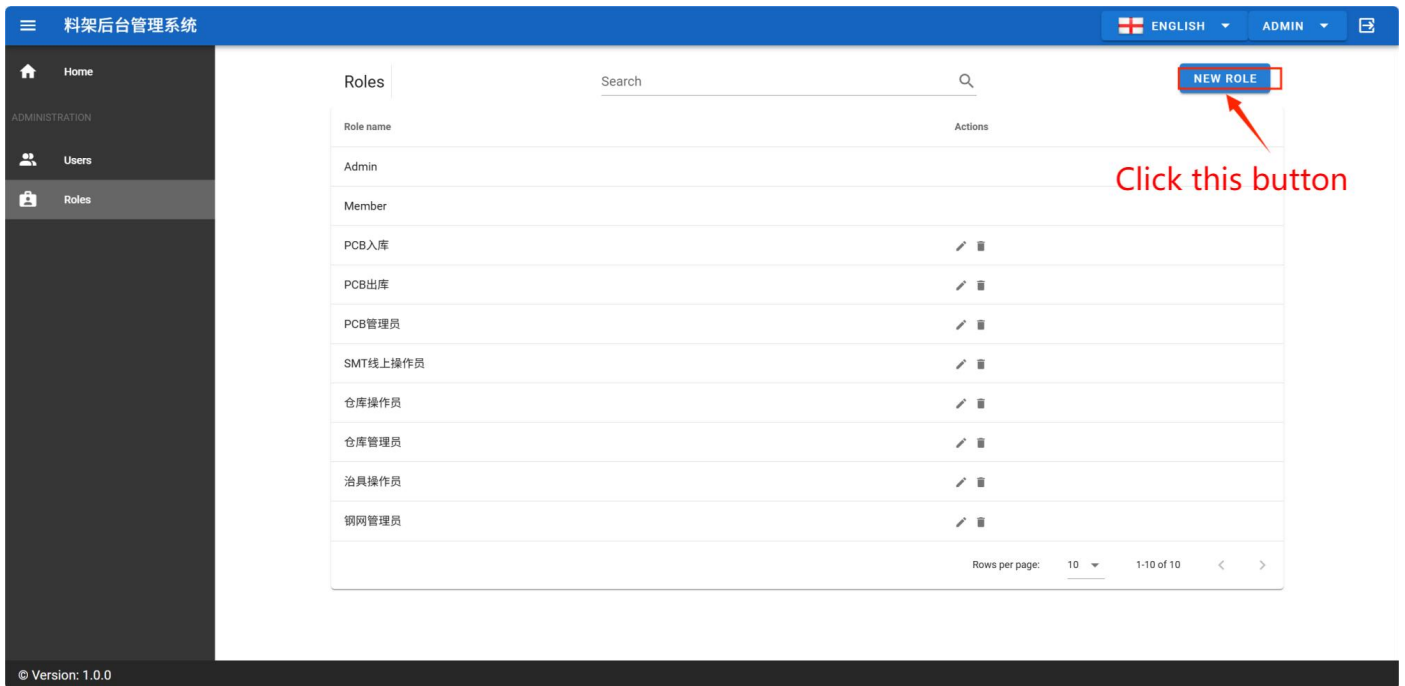
Admin

Member

Rows per page: 10 1-9 of 9

© Version: 1.0.0

In the Roles page, you can manage and create roles for different account. Click button “New Role” to create a role.



料架后台管理系统

ENGLISH ADMIN

Home

ADMINISTRATION

Users

















Roles

Roles

Search

NEW ROLE

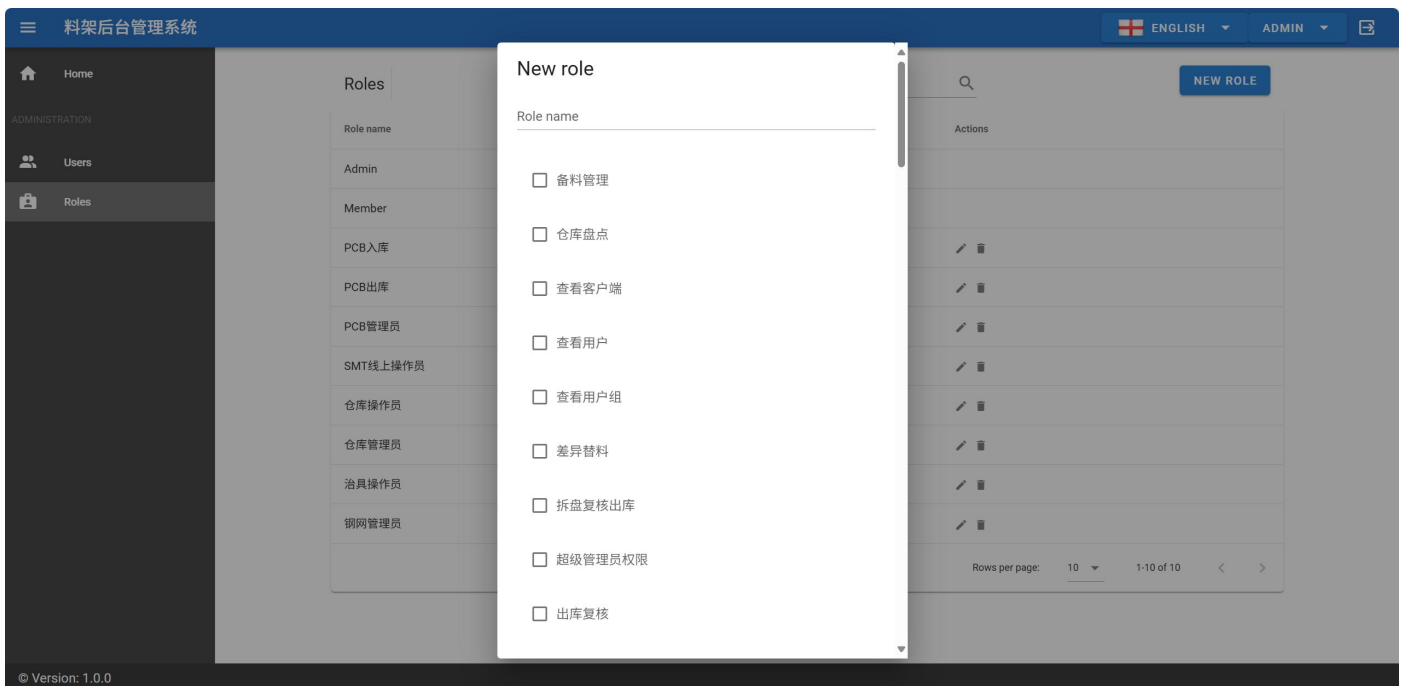
Click this button

Role name	Actions
Admin	
Member	
PCB入库	 
PCB出库	 
PCB管理员	 
SMT线上操作员	 
仓库操作员	 
仓库管理员	 
治具操作员	 
钢网管理员	 

Rows per page: 10 1-10 of 10

© Version: 1.0.0

Enter the name of role, and click “save” at bottom to save the role.



料架后台管理系统

ENGLISH ADMIN

Home

ADMINISTRATION

Users

Roles

Roles

Search

NEW ROLE

New role

Role name

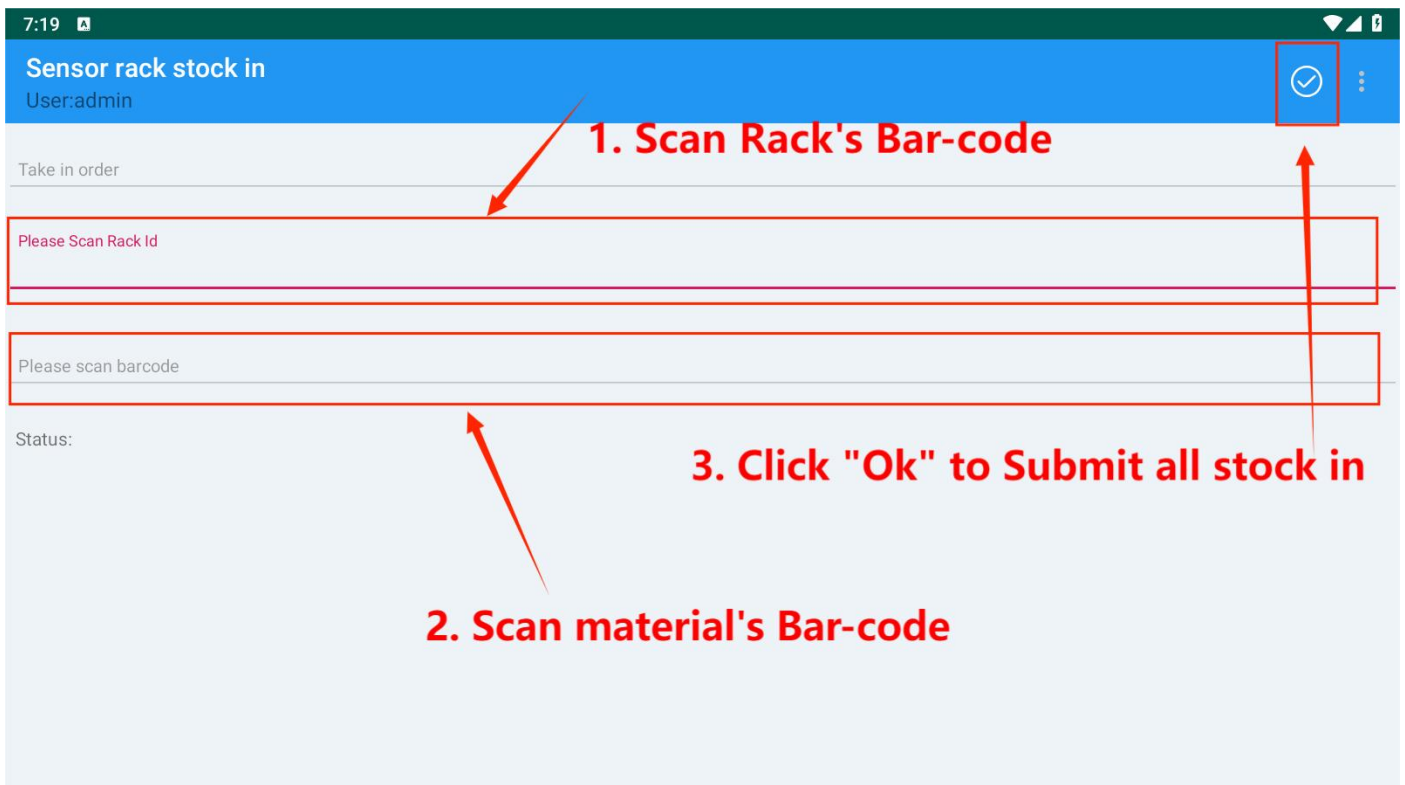
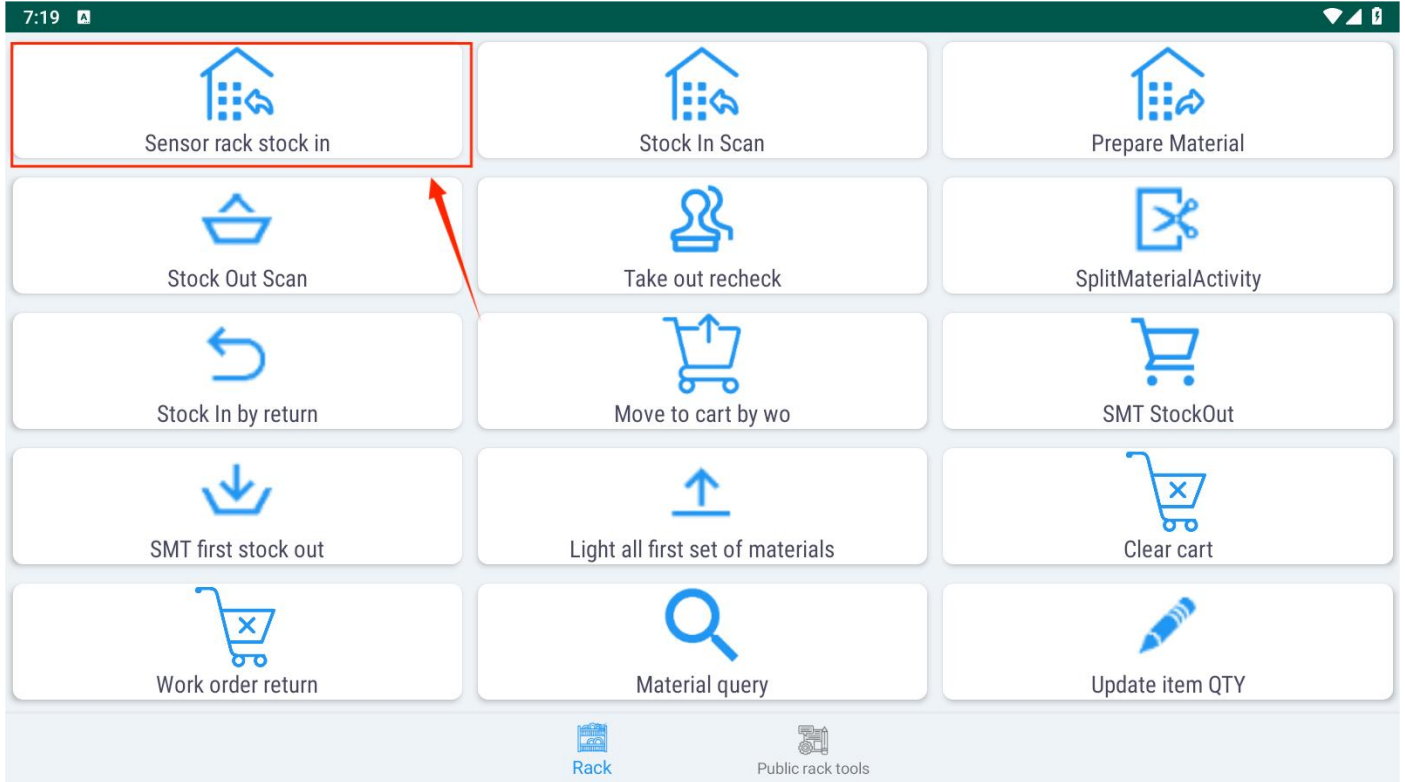
- 备料管理
- 仓库盘点
- 查看客户端
- 查看用户
- 查看用户组
- 差异替料
- 拆盘复核出库
- 超级管理员权限
- 出库复核

Rows per page: 10 1-10 of 10

© Version: 1.0.0

## 4.2 Reels Stock in:

After you add material number in software and print the label, you can click “Sensor rack stock in” to scan the Bar-code, and stock material to rack.

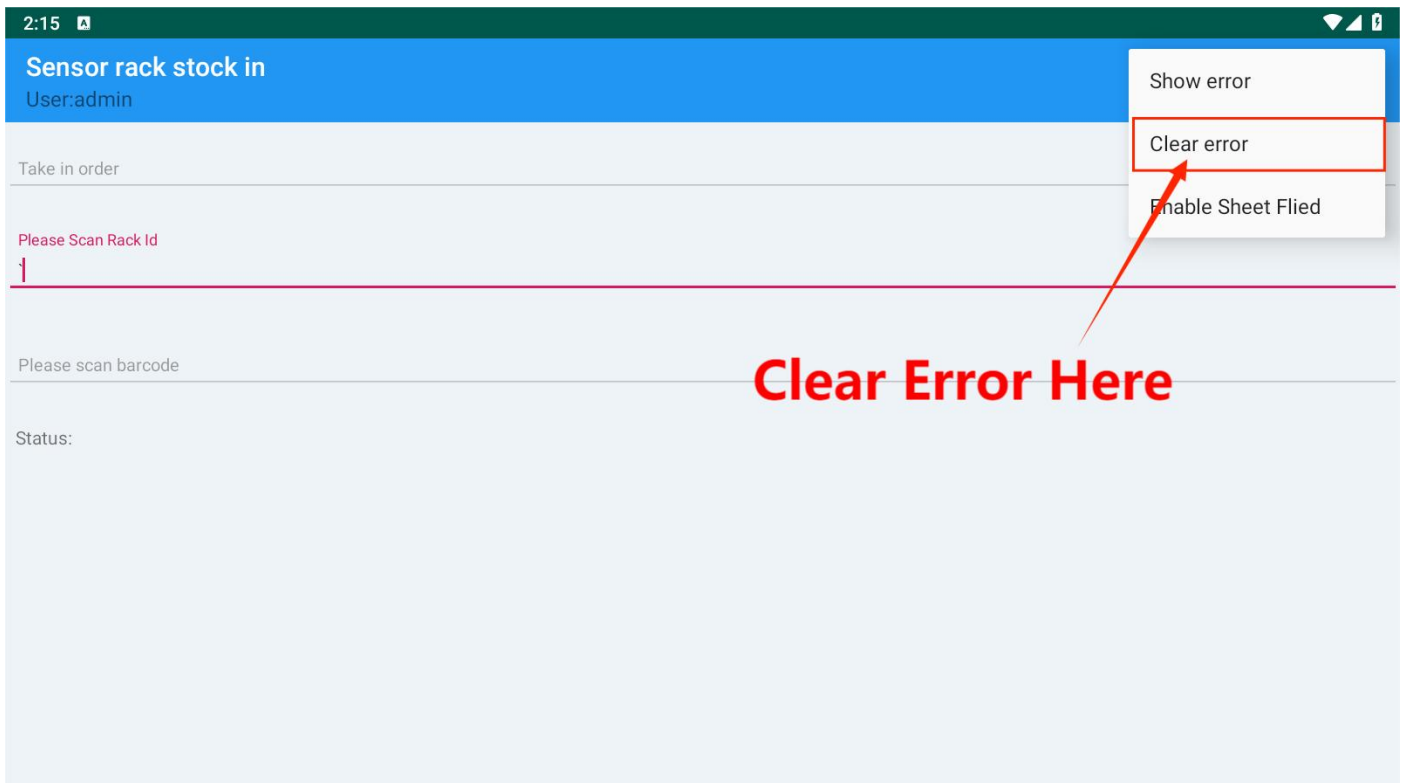
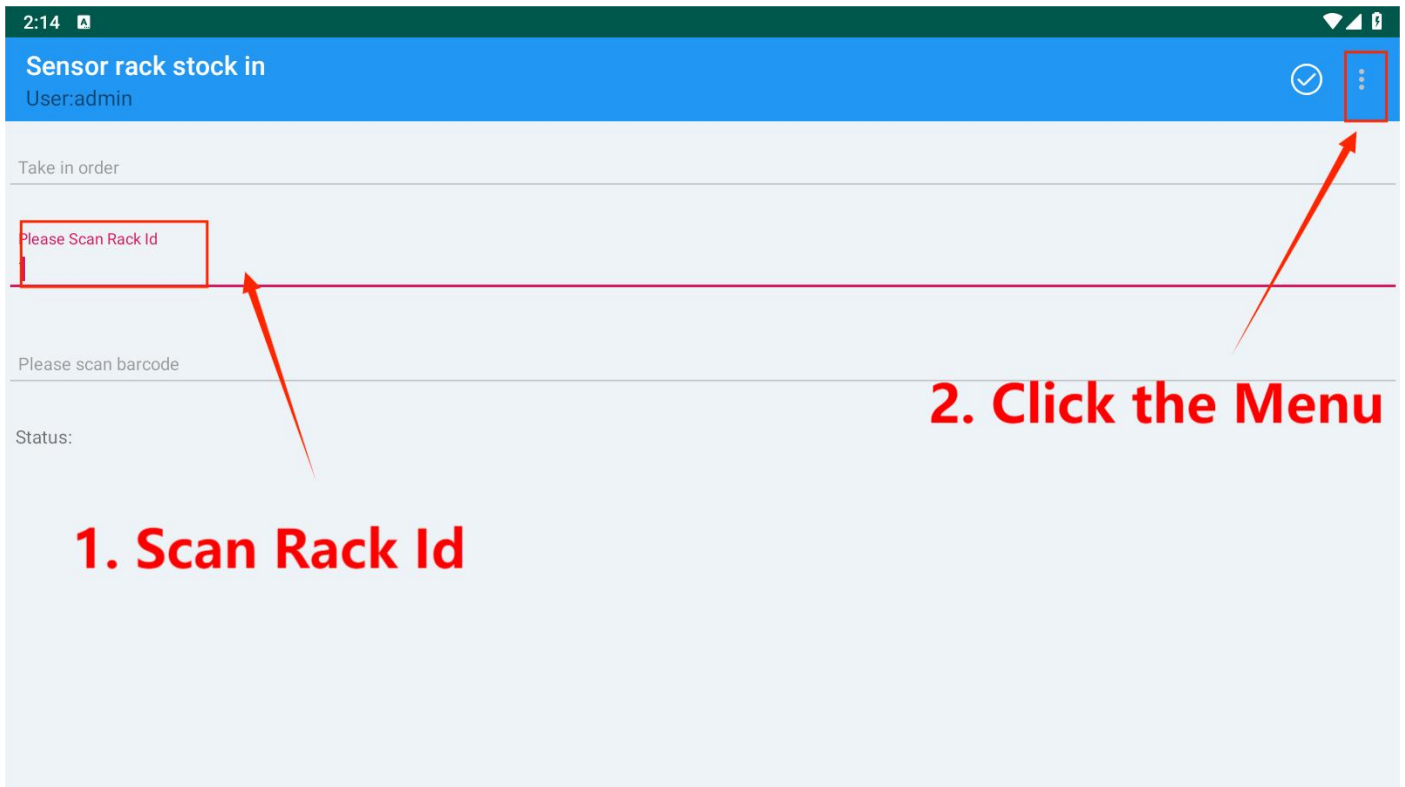




In addition, you can scan all reels at one time, just need to scan 1 reel, stock in that reel, and then you can scan other reels one by one, until all reels stocked.

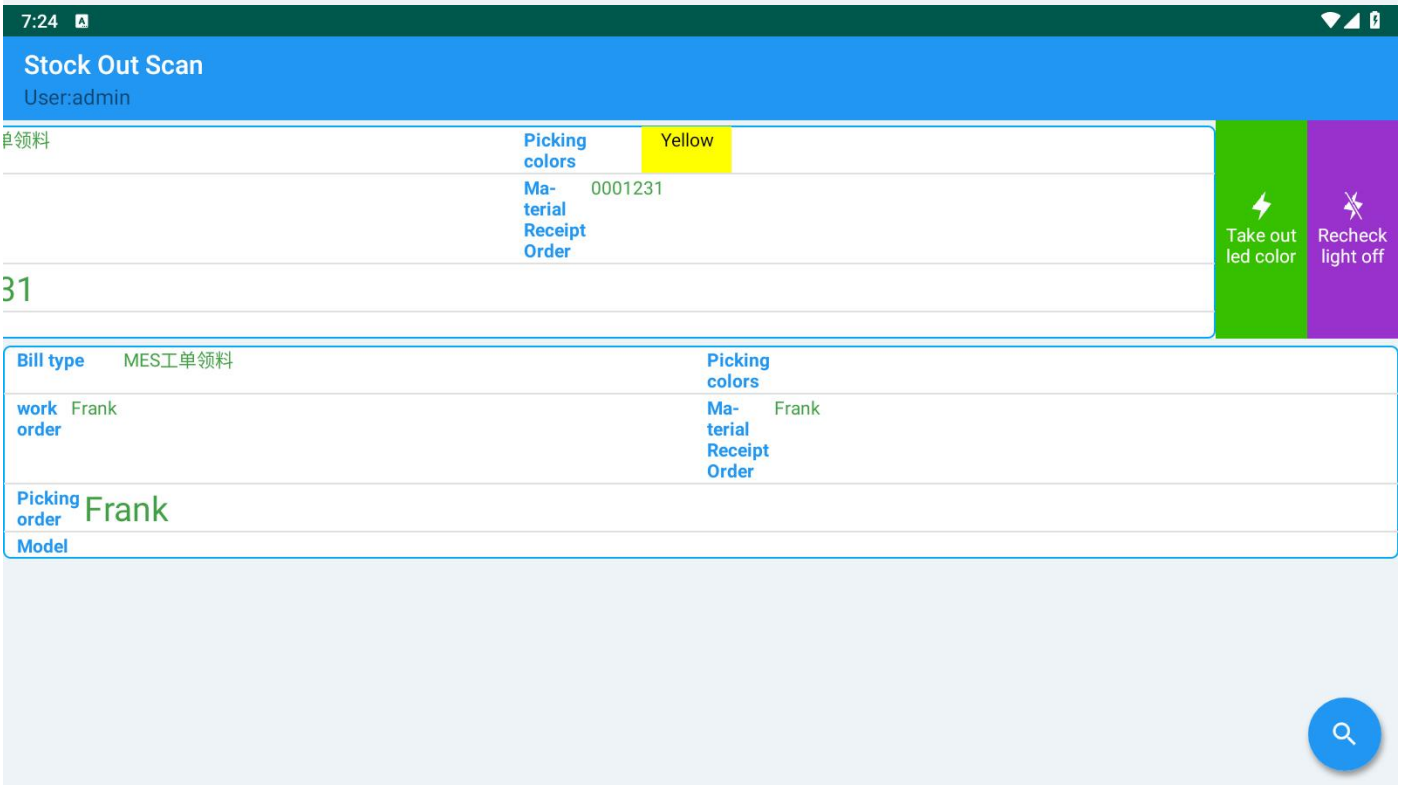
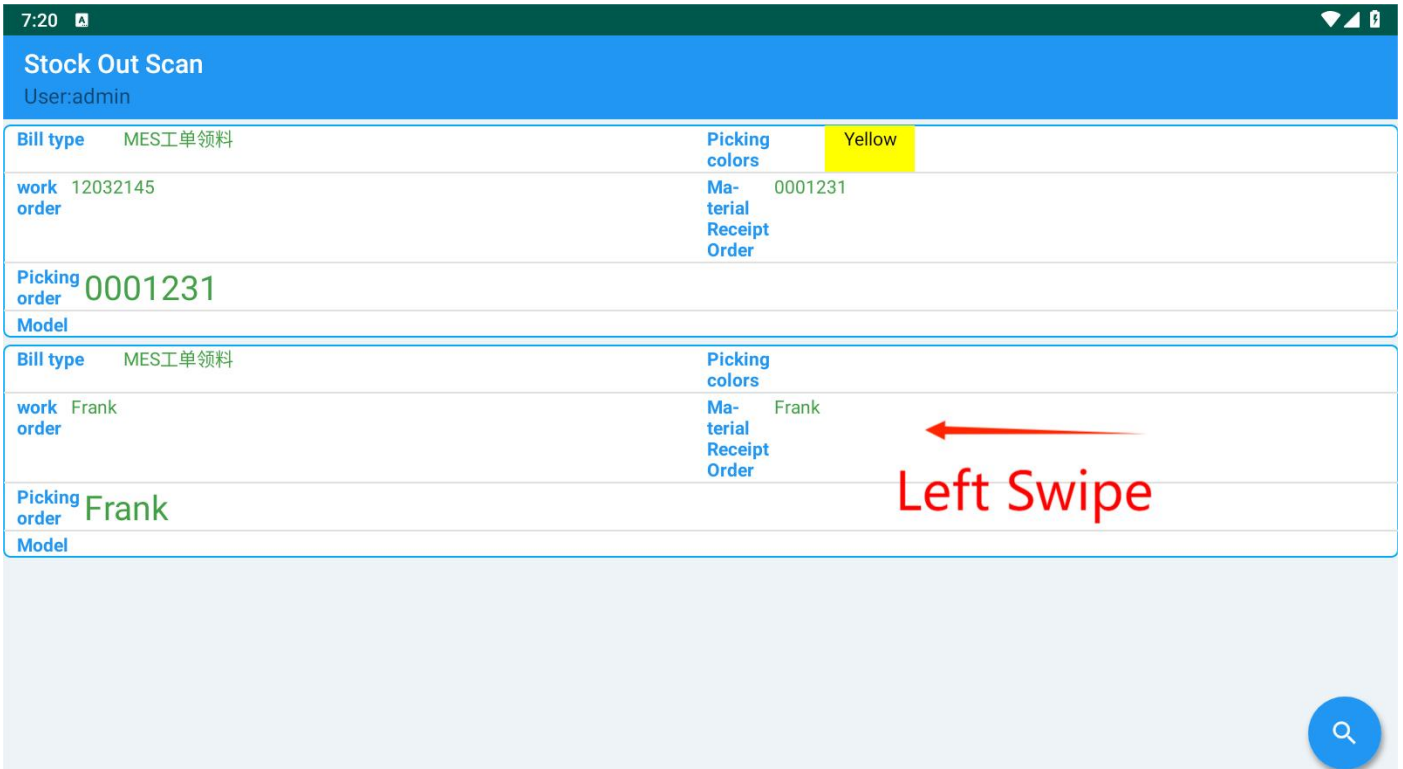
#### Clear Error:

During the using, it may happen wrong Loading or picking reels, you will need the function "clear error". In the page "Sensor rack stock in", you can first scan the rack id, then click Overflow Menu (Three - dot Menu) in right corner. You can find the button "Clear error", use it to clear error in using.




### 4.3 Reels stock out scan:

Before stock out reels, you will need to create a material requisition, the part will introduce in next chapter. Swipe left any requisition, you can see two button: "Take out led color" and "Recheck light off".



Take out led color: the button is for send instructions to rack turn the light on, showing the reels which your requisition stock out. Then operator can stock out the reels from rack.

Take out Recheck: When you touch the function “Take out led color”, App will jump to the new page “Take out recheck”. Scanning Bar-code of the reel, it will show the information of the reel, click blue button of “Take out recheck”, to finish the reel stock out.

7:25 

**Take out recheck**  
User:admin

Stock Out Order No  
Frank

Scan Barcode

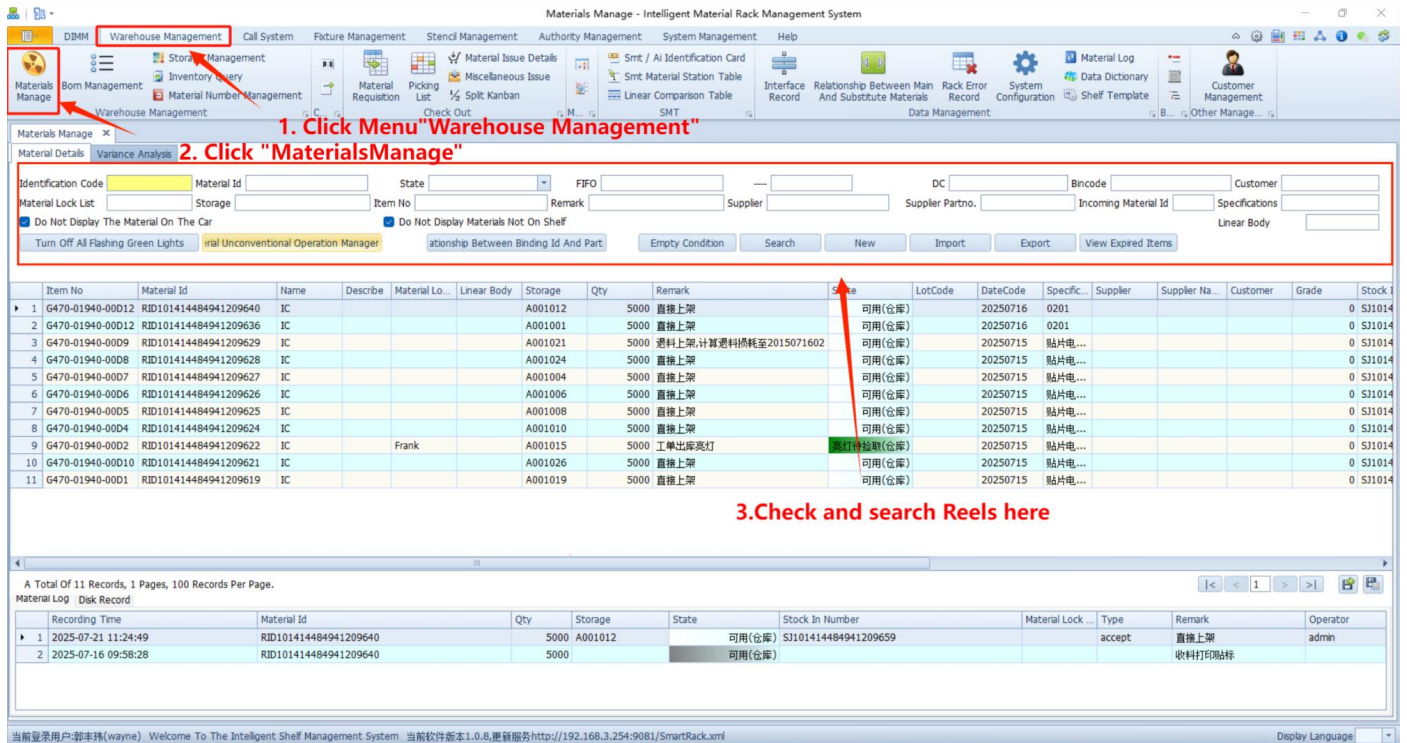
Status:

**Take out recheck**   **Uncheck list**   **Recheck termination**

## Chapter 5: Warehouse Management Date Import and Management

### 5.1 Material Management

Query materials according to conditions (check the query scope). Batch import and export of material information is available.



The screenshot shows the 'Materials Manage - Intelligent Material Rack Management System' interface. The 'Warehouse Management' menu is highlighted in the top navigation bar. Below it, the 'Materials Manage' window is open, showing a search form and a table of materials. A red arrow points to the 'Warehouse Management' menu, and another red arrow points to the 'Materials Manage' window. A third red arrow points to the 'Reels' column in the material list table.

**1. Click Menu "Warehouse Management"**

**2. Click "Materials Manage"**

**3. Check and search Reels here**

Item No	Material Id	Name	Describe	Material Lo...	Linear Body	Storage	Qty	Remark	State	LotCode	DateCode	Specifc...	Supplier	Supplier Na...	Customer	Grade	Stock I
1	G470-01940-00012	RID101414484941209640	IC			A001012	5000	直接上架	可用(仓库)		20250716	0201				0	SJ1014
2	G470-01940-00012	RID101414484941209636	IC			A001001	5000	直接上架	可用(仓库)		20250716	0201				0	SJ1014
3	G470-01940-00009	RID101414484941209629	IC			A001021	5000	进料上架,计算废料消耗至2015071602	可用(仓库)		20250715	贴片电...				0	SJ1014
4	G470-01940-00008	RID101414484941209628	IC			A001024	5000	直接上架	可用(仓库)		20250715	贴片电...				0	SJ1014
5	G470-01940-00007	RID101414484941209627	IC			A001004	5000	直接上架	可用(仓库)		20250715	贴片电...				0	SJ1014
6	G470-01940-00006	RID101414484941209626	IC			A001006	5000	直接上架	可用(仓库)		20250715	贴片电...				0	SJ1014
7	G470-01940-00005	RID101414484941209625	IC			A001008	5000	直接上架	可用(仓库)		20250715	贴片电...				0	SJ1014
8	G470-01940-00004	RID101414484941209624	IC			A001010	5000	直接上架	可用(仓库)		20250715	贴片电...				0	SJ1014
9	G470-01940-00002	RID101414484941209622	IC	Frank		A001015	5000	工单出库架打	不可用(仓库)		20250715	贴片电...				0	SJ1014
10	G470-01940-00010	RID101414484941209621	IC			A001026	5000	直接上架	可用(仓库)		20250715	贴片电...				0	SJ1014
11	G470-01940-00001	RID101414484941209619	IC			A001019	5000	直接上架	可用(仓库)		20250715	贴片电...				0	SJ1014

Right - click the material to be viewed and select commands:

- View Material Usage Log: Can view the material usage log records.
- View Associated Picking List: Can jump to and view the picking list to which the material belongs.
- View Part Number Information: Can jump to and view the part number information of the material.
- Operate Material:
- Remove Selected Material from Storage ----- Remove the material from storage. The storage location light blinks green.
- Initialize Material Information ----- Equivalent to the material never being put on the rack.
- Material Not on Storage Location ----- Mark as lost.

- Selected Material Green Light Blinks ----- The storage location light of the location where the material is located blinks green.
- Interface Call Log: Jump to and view all interface call records of the material.
- New: Create new material information.
- Edit Selected Item: Edit the information of the selected material.
- Delete Selected Item: Delete the selected material information.
- Refresh List: Refresh and display.
- Material Log: All logs of the material's usage.

## Menu Translation:

选中物料绿灯闪烁提示: Prompt for Green Light Flashing of Selected Material

下架选定物料: Remove Selected Material from Storage

物料遗失: Material Lost

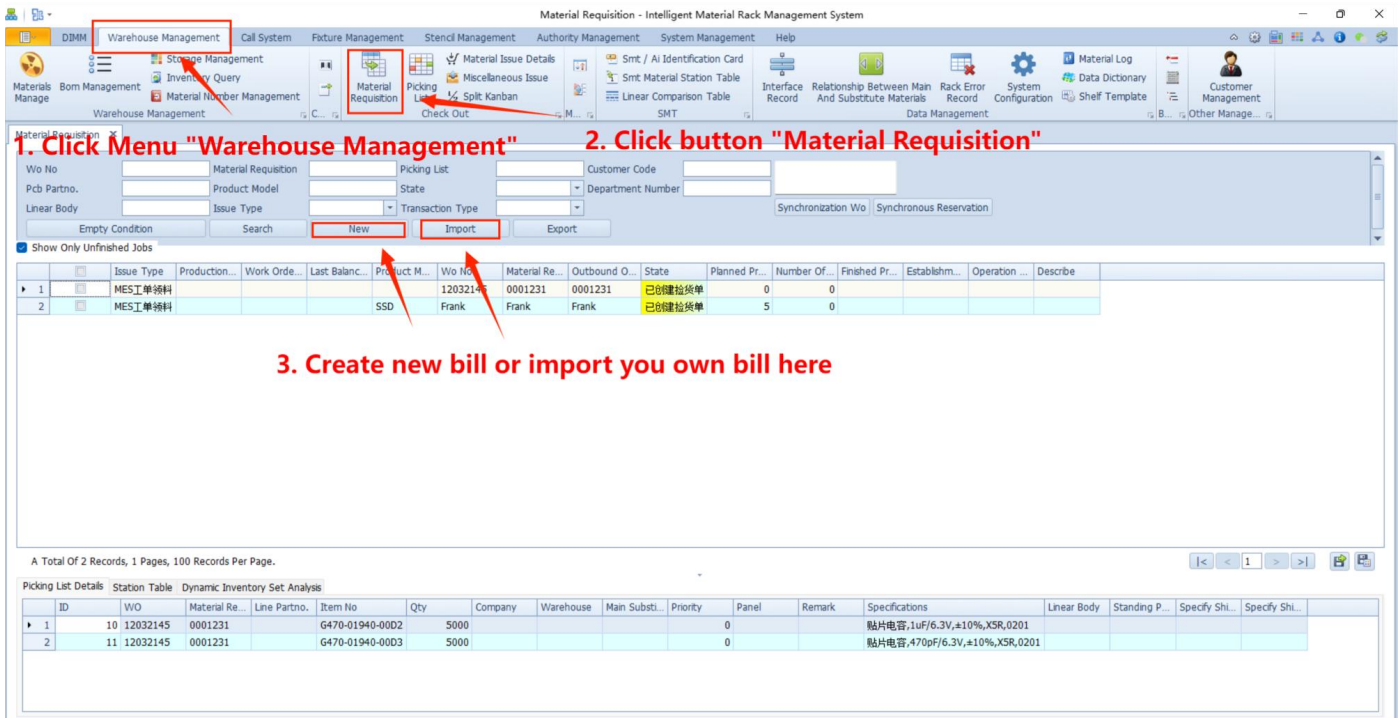
Item No	Material Id	Name	Describe	Material Lo...	Linear Body	Storage	Qty	Remark	State	LotCode	DateCode	Specific...	Supplier	Supplier Na...	Customer	Grade	Stock	
1	G470-01940-00012	RID101414484941209640	IC		A001012		5000	直接上架	可用(仓库)		20250716	0201					0	S3101
2	G470-01940-0	选中物料绿灯闪烁提示					5000	直接上架	可用(仓库)		20250716	0201					0	S3101
3	G470-01940-0	下架选定物料					5000	遗料上架,计算遗料损耗至2015071602	可用(仓库)		20250715	贴片电...					0	S3101
4	G470-01940-0	View The Picking List					5000	直接上架	可用(仓库)		20250715	贴片电...					0	S3101
5	G470-01940-0	物料遗失					5000	直接上架	可用(仓库)		20250715	贴片电...					0	S3101
6	G470-01940-0	Disable Items By Current Query Criteria					5000	直接上架	可用(仓库)		20250715	贴片电...					0	S3101
7	G470-01940-0	Clean Up The Used Material Tray Data -90 Days Without Returning The Material Rack					5000	直接上架	可用(仓库)		20250715	贴片电...					0	S3101
8	G470-01940-0	Adjust The Discharge Priority Of The Selected Material To [Highest Priority]					5000	直接上架	可用(仓库)		20250715	贴片电...					0	S3101
9	G470-01940-0	Restore Fifo Priority					5000	工单出库亮灯	可用(仓库)		20250715	贴片电...					0	S3101
10	G470-01940-0	Save Layout					5000	直接上架	可用(仓库)		20250715	贴片电...					0	S3101
11	G470-01940-0						5000	直接上架	可用(仓库)		20250715	贴片电...					0	S3101

Recording Ti	Storage	State	Stock In Number	Material Lock ...	Type	Remark	Operator
1 2025-07-21 11:24:49	RID101414484941209640	可用(仓库)	S3101414484941209659		accept	直接上架	admin
2 2025-07-16 09:58:28	RID101414484941209640	可用(仓库)				收料打印贴标	

## 5.2 Material requisition import, create or examine:

For materials/ reels stock out, as last chapter introduce in PDA, you will need a requisition and corresponding picking list. Click Menu "Warehouse Management", then button "Material requisition", you can find the page, using the page to import, create or examine the bill.



**1. Click Menu "Warehouse Management"**

**2. Click button "Material Requisition"**

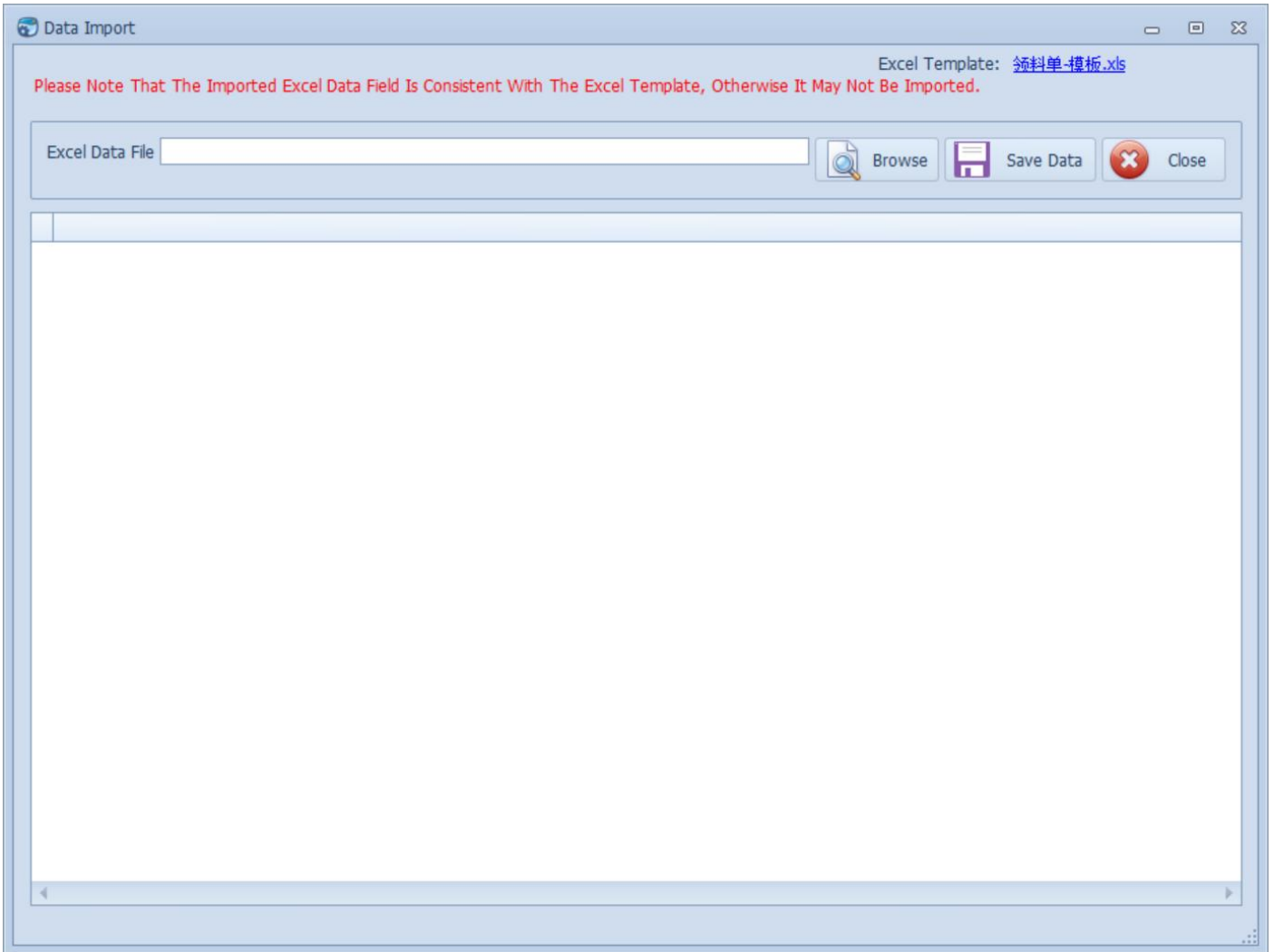
**3. Create new bill or import you own bill here**

ID	WO	Material Re...	Line Partno.	Item No	Qty	Company	Warehouse	Main Subst...	Priority	Panel	Remark	Specifications	Linear Body	Standing P...	Specify SHI...	Specify SHI...
1	10 12032145	0001231		G470-01940-00D2	5000					0		贴片电容,1uF/6.3V,+10%,XSR,0201				
2	11 12032145	0001231		G470-01940-00D3	5000					0		贴片电容,470pF/6.3V,+10%,XSR,0201				

## Import requisition

You can import your own requisition by "Import" function. Also there's a Excel template for you to refer.

Please note following the rules of template, keep the correctness of the material requisition and the consistency of data with the BOM. **Red part** is required.





备料面板: Material Preparation Panel

线体: Production Line

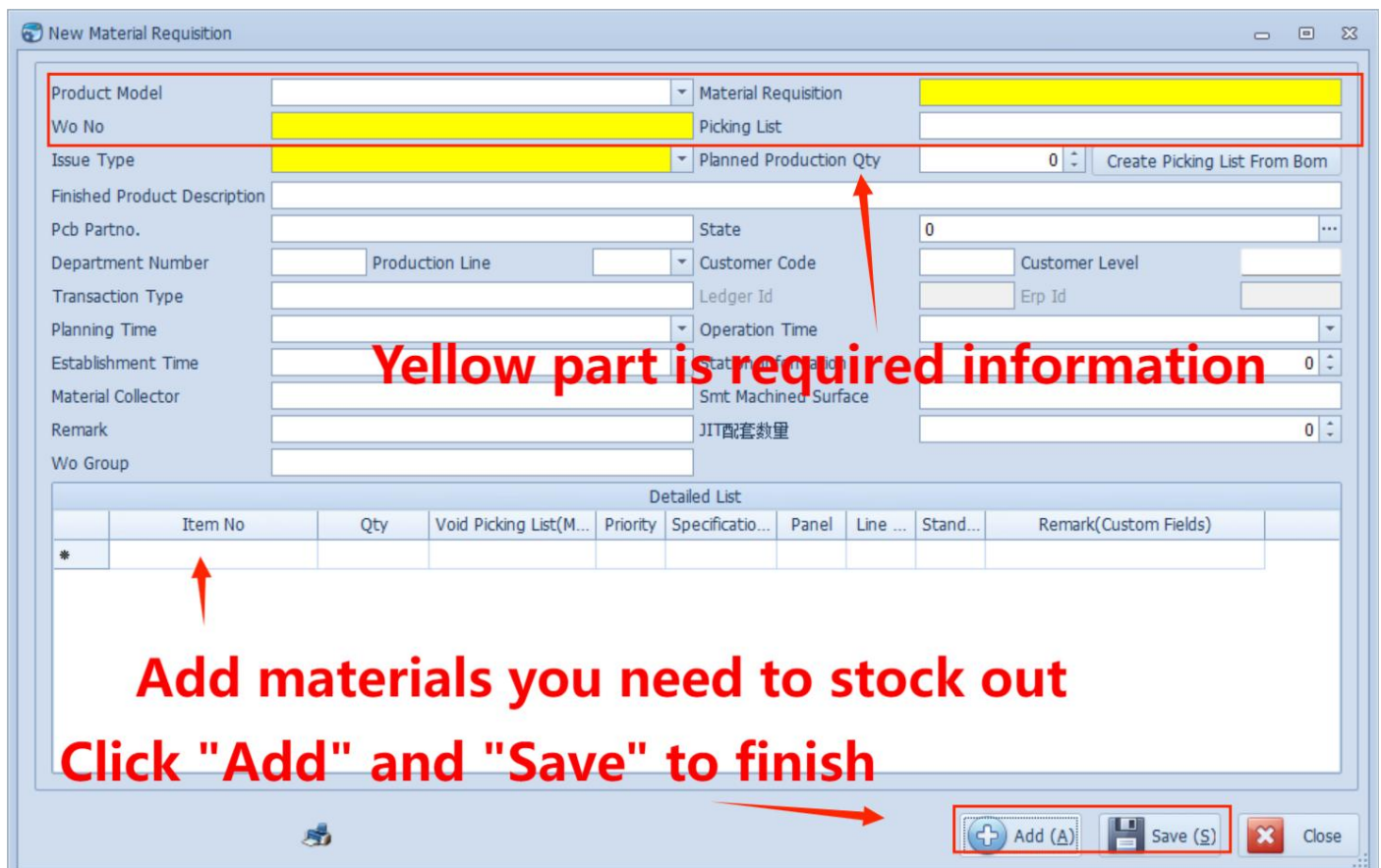
站位号: Station Number

出库仓: Outbound Warehouse

客户料号: Customer Part Number

### Create New requisition:

Click function "New" to create new requisition, fill in information you need, please note **yellow part** is required. Then fill in all reels id and qty you need stock out.



**Yellow part is required information**

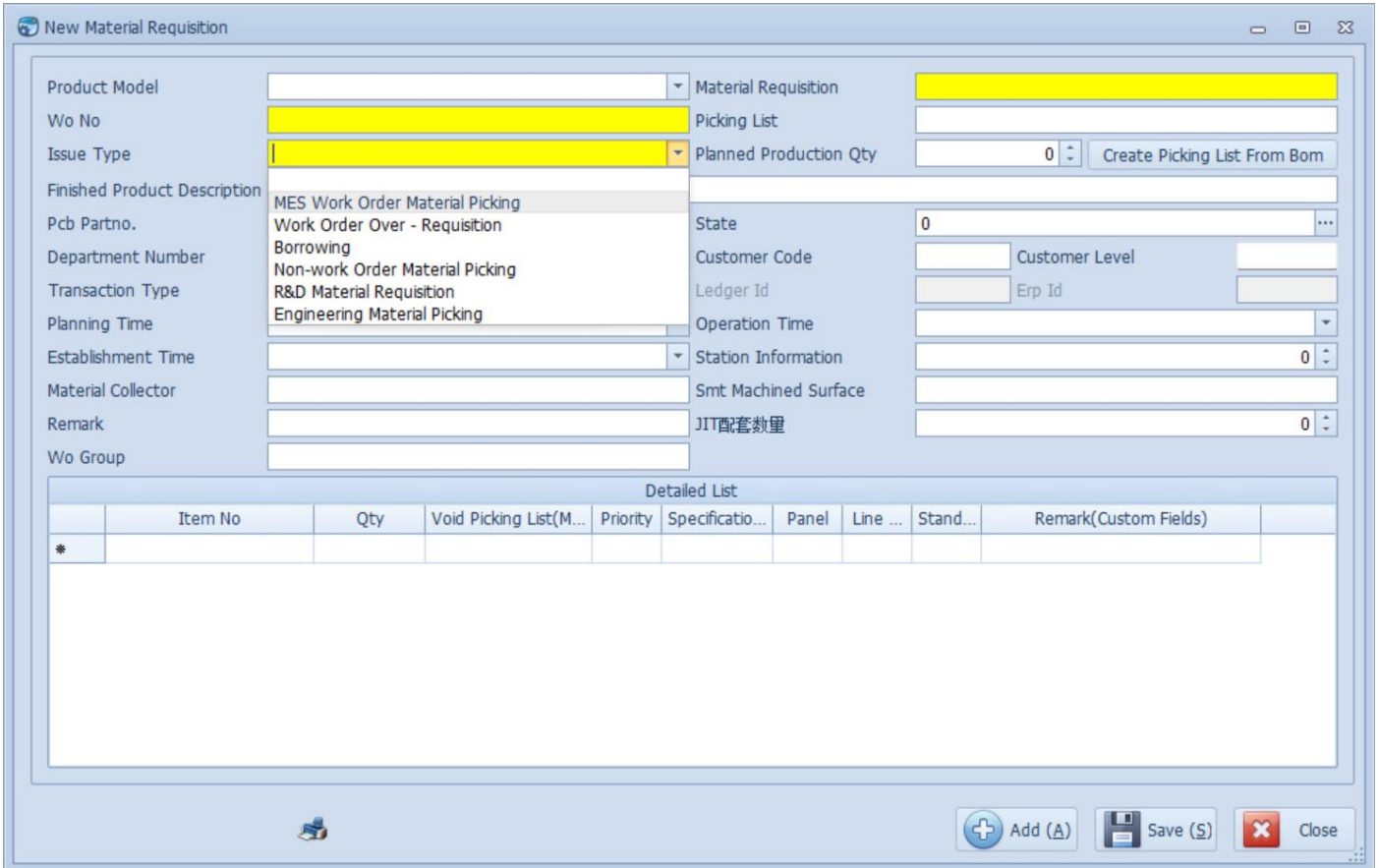
Item No	Qty	Void Picking List(M...	Priority	Specificatio...	Panel	Line ...	Stand...	Remark(Custom Fields)
*								

**Add materials you need to stock out**

**Click "Add" and "Save" to finish**

## Issue Type:

The software preset 6 types you can choose.



**New Material Requisition**

Product Model: [ ] Material Requisition: [ ]

Wo No: [ ] Picking List: [ ]

Issue Type: [ ] Planned Production Qty: [ 0 ]

Finished Product Description: [ ]

Pcb Partno.: [ ]

Department Number: [ ]

Transaction Type: [ ]

Planning Time: [ ]

Establishment Time: [ ]

Material Collector: [ ]

Remark: [ ]

Wo Group: [ ]

Material Requisition: [ ]

Picking List: [ ]

Planned Production Qty: [ 0 ]

State: [ 0 ]

Customer Code: [ ] Customer Level: [ ]

Ledger Id: [ ] Erp Id: [ ]

Operation Time: [ ]

Station Information: [ 0 ]

Smt Machined Surface: [ ]

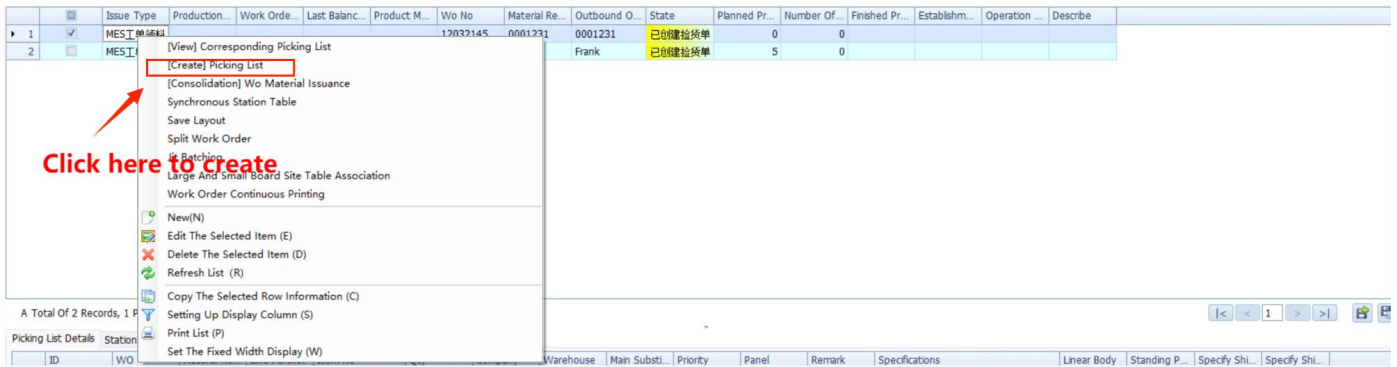
JIT配套数量: [ 0 ]

Detailed List									
	Item No	Qty	Void Picking List(M...	Priority	Specificatio...	Panel	Line ...	Stand...	Remark(Custom Fields)
*									

## Picking List Create and examine:

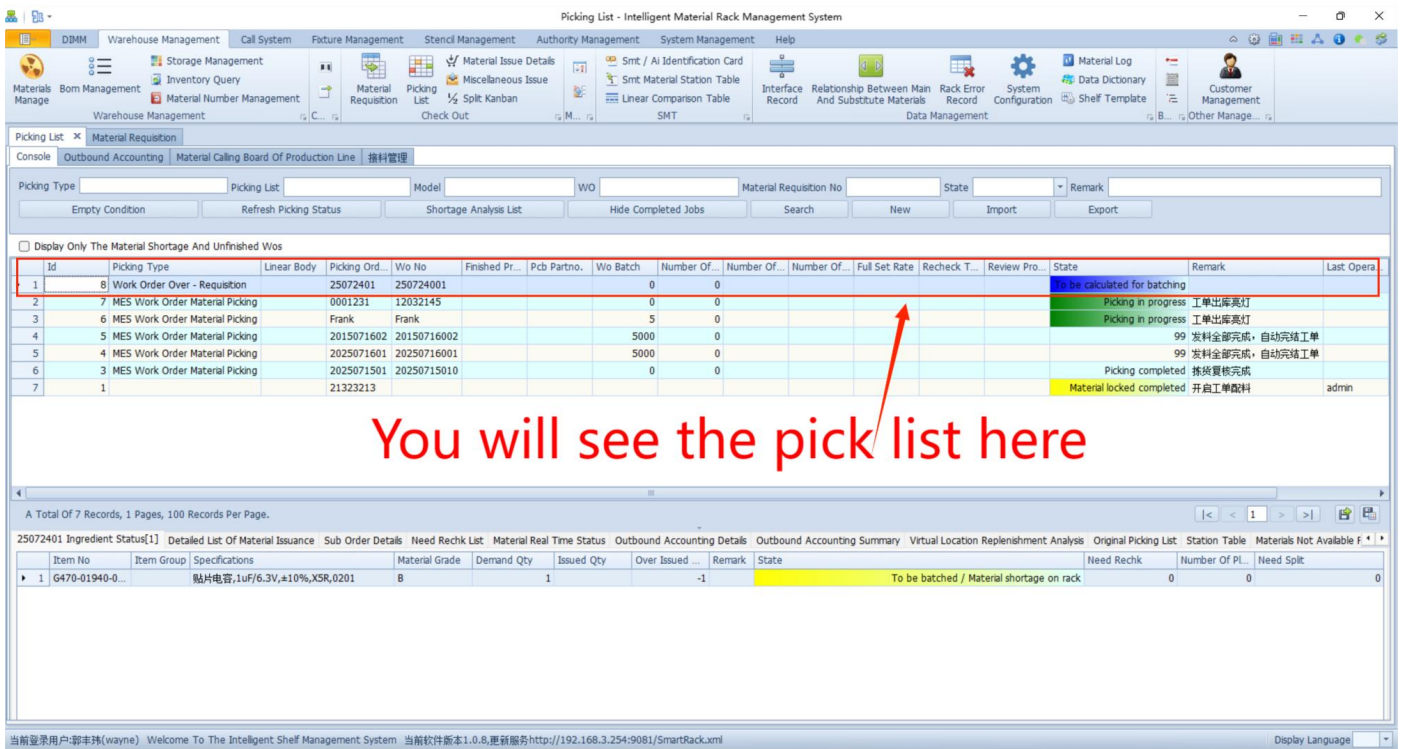
After you have the requisition, you will need to create corresponding picking list, lock Materials, the system will automatically calculate the required quantity of materials in the work order, deduct the quantity of materials from the inventory, and lock the material reels that need to be taken out.

Right click the requisition you need to stock out, click the button "[Create] Picking list", software will jump to the page of Picking list creation.



Click here to create

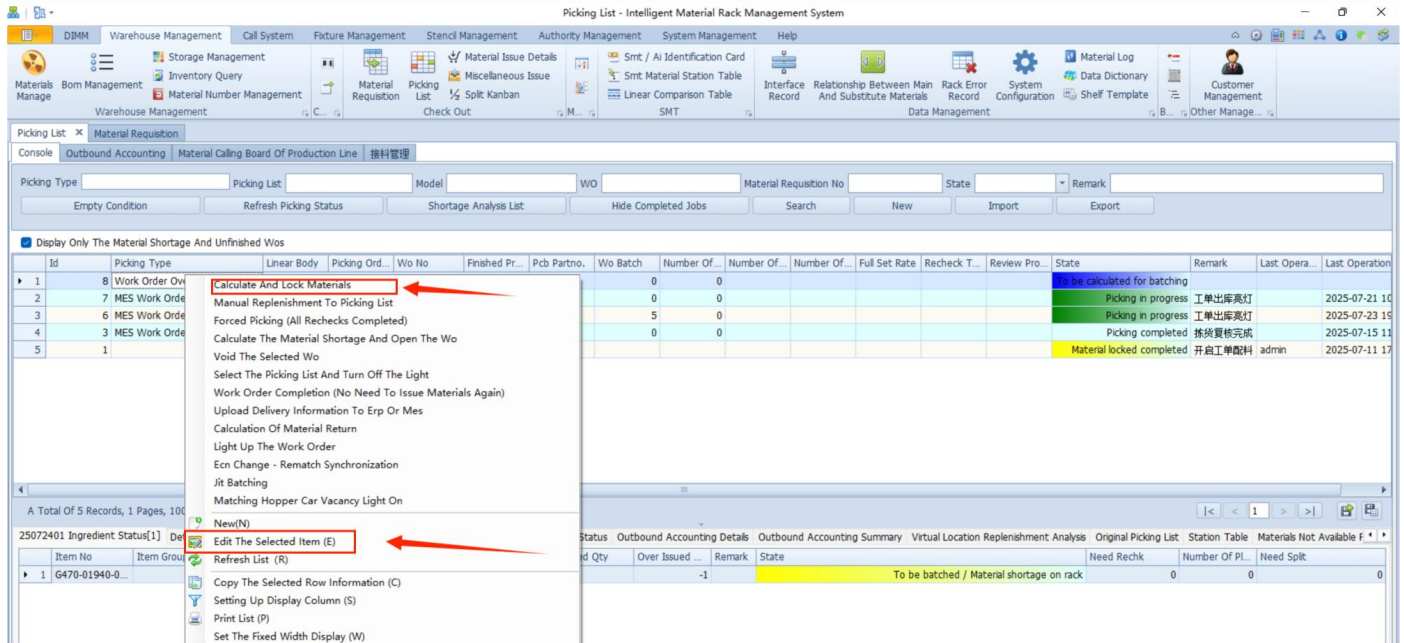
- [View] Corresponding Picking List
- [Create] Picking List**
- [Consolidation] Wo Material Issuance
- Synchronous Station Table
- Save Layout
- Split Work Order
- Batching
  - Large And Small Board Site Table Association
  - Work Order Continuous Printing
- New(N)
- Edit The Selected Item (E)
- Delete The Selected Item (D)
- Refresh List (R)
- Copy The Selected Row Information (C)
- Setting Up Display Column (S)
- Print List (P)
- Set The Fixed Width Display (W)



You will see the pick list here

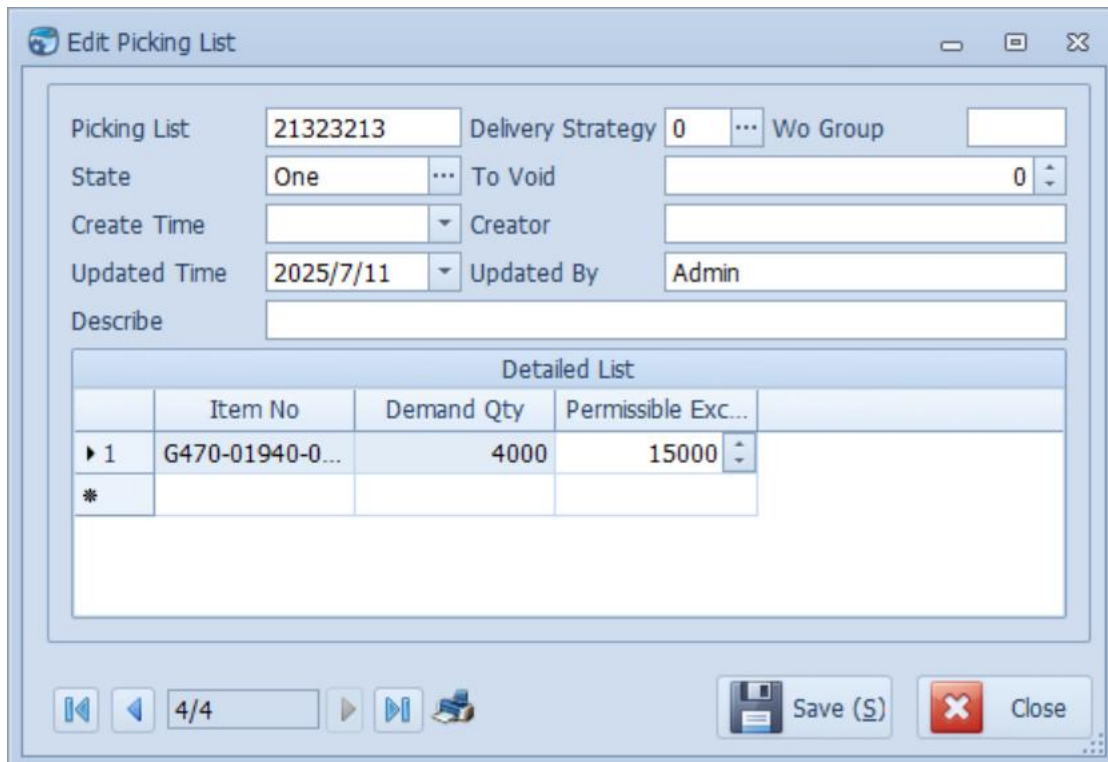
Id	Picking Type	Linear Body	Picking Ord.	Wo No	Finished Pr.	Pcb Partno.	Wo Batch	Number Of...	Number Of...	Number Of...	Full Set Rate	Recheck T...	Review Pro...	State	Remark	Last Opera
1	8	Work Order Over - Requisition	25072401	250724001				0	0					To be calculated for batching		
2	7	MES Work Order Material Picking	0001231	12032145				0	0					Picking in progress	工单出库亮灯	
3	6	MES Work Order Material Picking	Frank	Frank				5	0					Picking in progress	工单出库亮灯	
4	5	MES Work Order Material Picking	2015071602	20150716002			5000	0	0					99	发料全部完成, 自动完结工单	
5	4	MES Work Order Material Picking	2025071601	20250716001			5000	0	0					99	发料全部完成, 自动完结工单	
6	3	MES Work Order Material Picking	2025071501	20250715010			0	0	0					Picking completed	拣货复核完成	
7	1		21323213											Material locked completed	开工工单配料	admin

Right click the picking list, you can edit the pick list, then “calculate and lock materials” to finish the picking list.



The screenshot shows the 'Picking List - Intelligent Material Rack Management System' window. A context menu is open over the picking list table, with 'Calculate And Lock Materials' and 'Edit The Selected Item (E)' highlighted by red arrows. The table below shows the following data:

Id	Picking Type	Linear Body	Picking Ord...	Wo No	Finished Pr...	Pcb Partno.	Wo Batch	Number Of...	Number Of...	Number Of...	Full Set Rate	Recheck T...	Review Pro...	State	Remark	Last Opera...	Last Operation
1	8	Work Order Ov...						0	0					To be calculated for batching			
2	7	MES Work Orde...						0	0					Picking in progress	工单出库离灯		2025-07-21 10
3	6	MES Work Orde...						5	0					Picking in progress	工单出库离灯		2025-07-23 19
4	3	MES Work Orde...						0	0					Picking completed	拣货复核完成		2025-07-15 11
5	1													Material locked completed	开启工单配料	admin	2025-07-11 17



The 'Edit Picking List' dialog box is shown with the following fields:

- Picking List: 21323213
- Delivery Strategy: 0
- Wo Group: [Empty]
- State: One
- To Void: 0
- Create Time: [Empty]
- Creator: [Empty]
- Updated Time: 2025/7/11
- Updated By: Admin
- Describe: [Empty]

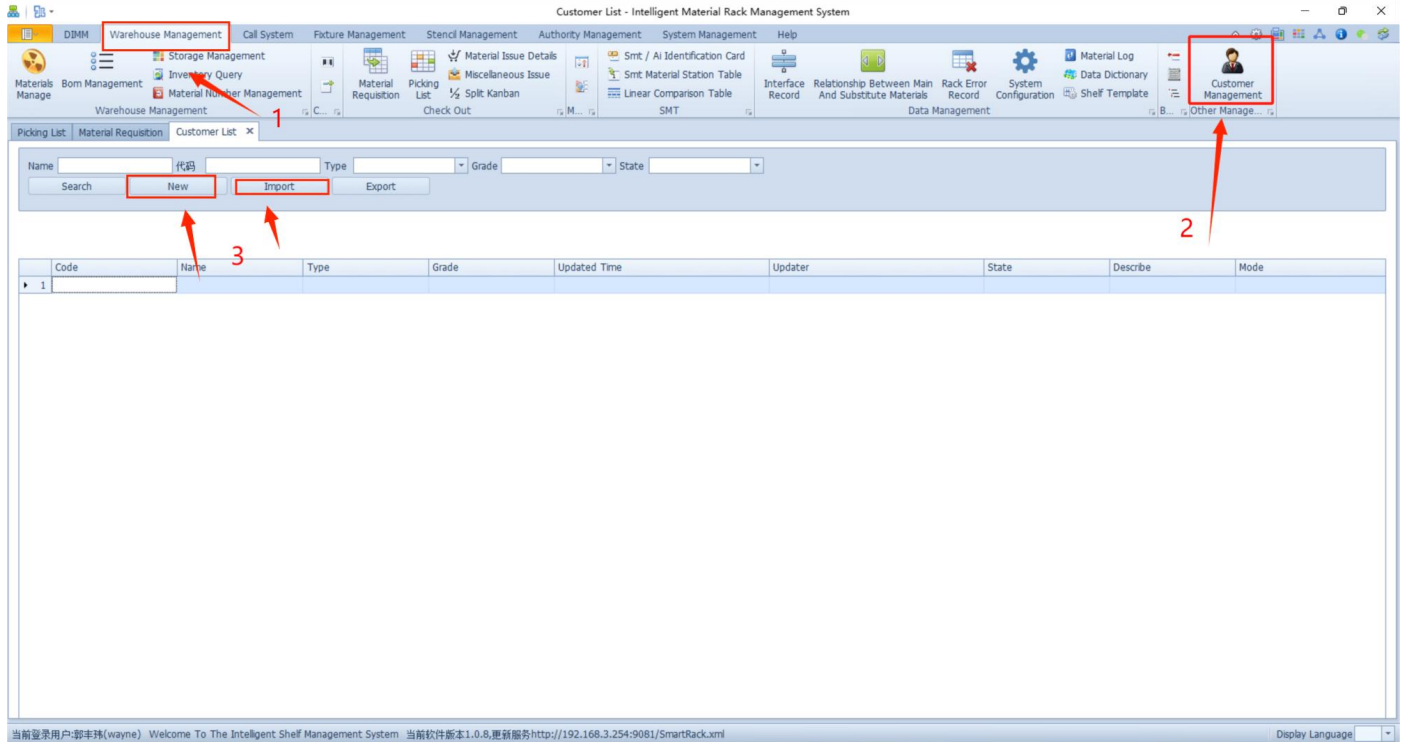
**Detailed List**

	Item No	Demand Qty	Permissible Exc...
▶ 1	G470-01940-0...	4000	15000
*			

Buttons at the bottom: Save (S), Close.

## 5.3 Supplier - Corresponding Part Number Information

Click “Warehouse Management”, and button “Customer Management” to visit the page. You can add new customer or import your customer list by excel, also there’s the temple for you refer.



### New Customer List

Customer Id	<input type="text"/>	Name	<input type="text"/>
Type	<input type="text"/>	Grade	<input type="text"/> State <input type="text"/>
Updated Time	<input type="text"/>	Updater	<input type="text"/>
Describe	<input style="height: 20px;" type="text"/>		

Add (A)
 Save (S)
 Close

Import your customer, please follow the step:

Address: Room 1806, Block 3, Jinyun COFCO, Qianjin 2nd Road,Xixiang, Baoan District, Shenzhen City, China  
 Website: [www.smthelp.com](http://www.smthelp.com) Tel: +86-755-83203237; Fax:+86-755-23240492



## Southern Machinery Sales and Service Co., Ltd.

### Step 1:

According to the document template, organize the data, i.e., the data corresponding to the supplier part number **【Supplier Name, Code, Corresponding Material Code】**

### Step 2:

Select **【Import】**

In the pop - up window, select the corresponding data file to import

After confirming it is correct, select **【Save】**

The data corresponding to the imported supplier part number will be displayed in the list box

Thus, the data import work is completed

Please note all Red parts of Excel is required information

Translation of temple below:

序号 - Serial Number

供应商代码 - Supplier Code

供应商名称 - Supplier Name

料号 - Part Number

备注 - Remarks

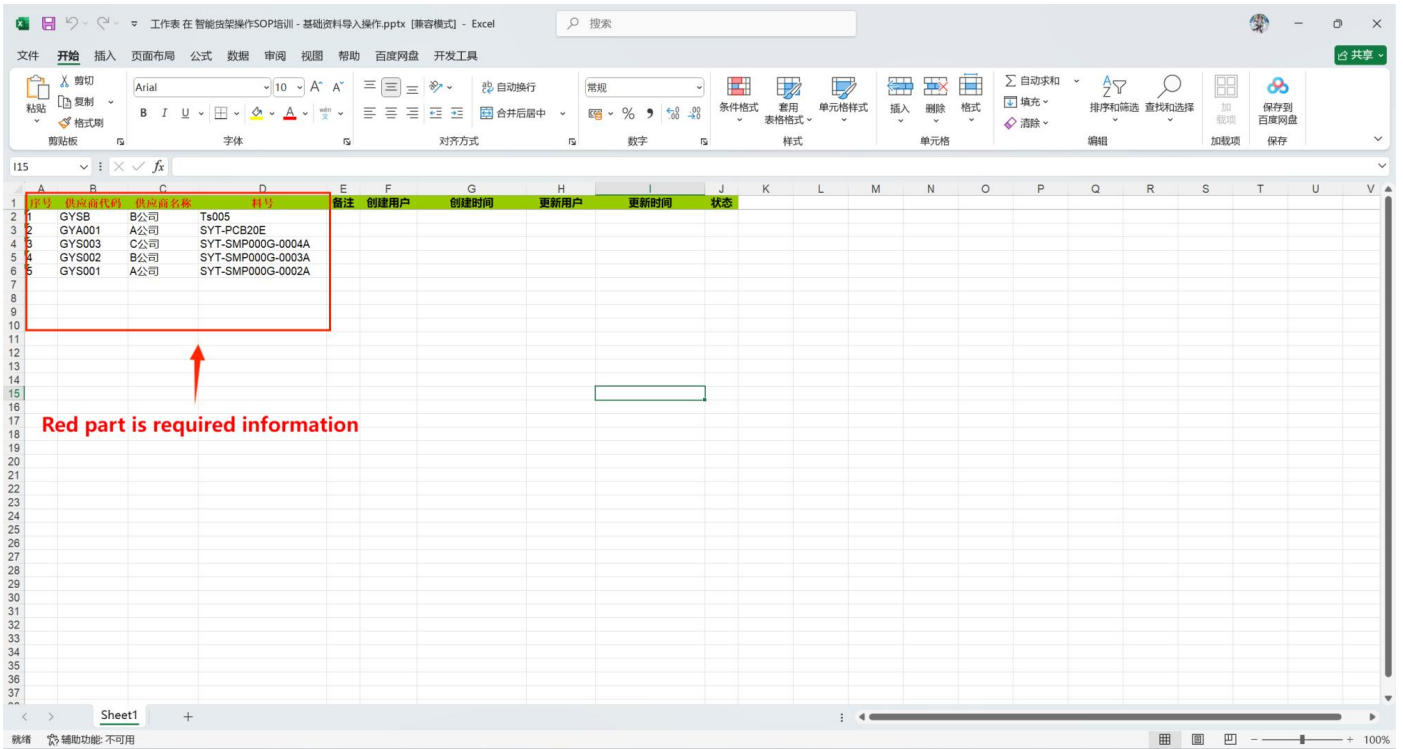
创建用户 - Created By

创建时间 - Creation Time

更新用户 - Updated By

更新时间 - Update Time

状态 - Status



The screenshot shows an Excel spreadsheet with the following data table:

序号	供应商代码	供应商名称	料号	备注	创建用户	创建时间	更新用户	更新时间	状态
1	GYSB	B公司	Ts005						
2	GYA001	A公司	SYT-PCB20E						
3	GYS003	C公司	SYT-SMP000G-0004A						
4	GYS002	B公司	SYT-SMP000G-0003A						
5	GYS001	A公司	SYT-SMP000G-0002A						

A red box highlights the first three columns (序号, 供应商代码, 供应商名称) of the data rows. A red arrow points to this box with the text "Red part is required information".

## **Chapter 6: Rack Maintenance**

### **6.1 Daily Inspection**

#### **1. Appearance Check:**

Check if the rack frame is deformed or has paint peeling off, and whether the laminates are loose or cracked.

#### **2. Indicator Light Check:**

Observe if the operation area and location indicator lights (such as lighting, flashing modes) are normal, and check for abnormalities like non - lighting or constant lighting.

#### **3. Sensor Check:**

Test the location material detection sensors. Simulate placing and taking out materials to confirm sensitive induction and accurate data feedback.

### **6.2 Cleaning & Dust Removal**

#### **1. Surface Cleaning:**

Wipe the rack surface and operation panel with a clean soft cloth to remove dust and stains; do not use corrosive cleaners to avoid damaging the coating.

#### **2. Internal Dust Removal:**

Regularly (recommended once a month) use compressed air (pressure  $\leq 0.4\text{MPa}$ ) to purge the internal gaps, sensors, and circuit boards of the rack to remove accumulated dust; keep away from electronic components during operation to prevent damage.

### **6.3 Electrical & Control System Maintenance**

#### **1. Power Supply Check:**

Confirm that the power supply voltage is stable within the rated range of the equipment (e.g.,  $\text{AC}220\text{V}\pm 10\%$ ), and the power cord is not damaged and the plug has good contact.

#### **2. Communication Check:**

Check the communication connection between the rack and the management system (WMS, etc.). Through system operation instructions (such as querying locations, triggering indicator lights), verify smooth data transmission without packet loss or delay.

## **6.4 Contact us for Support**

If you have any problem/ questions or trouble about racks using, Please contact us, we will do the remote support:

Email: [info@smthelp.com](mailto:info@smthelp.com)

Official LinkedIn: <https://www.linkedin.com/company/smtmachine>

Youtube Channel: <https://www.youtube.com/@Smthelping>

Website: [smthelp.com](http://smthelp.com)

# **End of Manual**