

a. Instructions on website opening

The source code is placed in /home/nottingham.edu.cn/scysx1/public\_html/

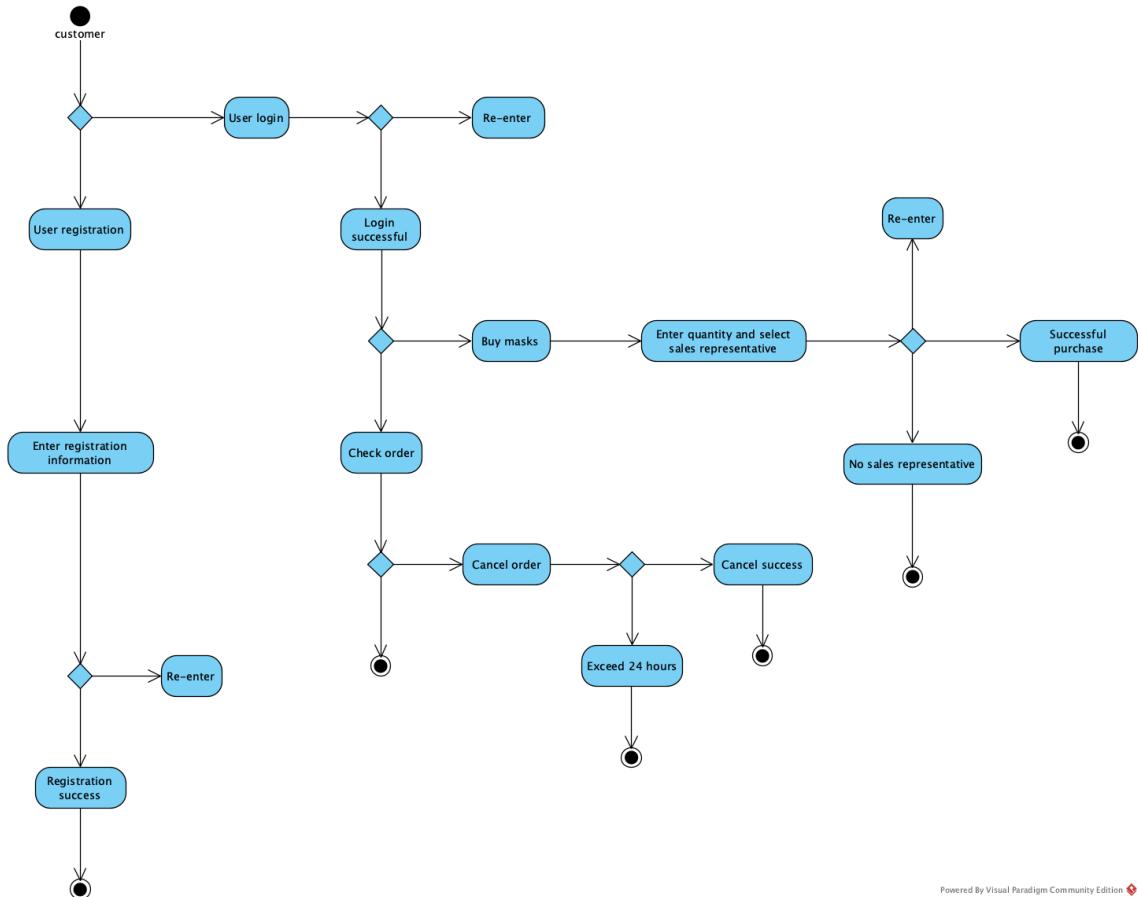
Please visit

"cslinux.nottingham.edu.cn/~scysx1/20125731\_Shiqi\_XIN/src/main.html"

to access my homepage.

## b. Guidance on website testing

### 1. Customer part



Activity Diagram for customer

Firstly, enter the main interface (main.html). To register a user, click sign up - customer in the upper right corner to enter the registration interface.



After entering the registration interface, enter legal information to register a new user. Any blank or illegal input will lead to wrong prompt information, you can correct your input according to the prompt information and complete the registration.



Username

Real Name

Passport ID

Telephone Number

Region

Email

Password

Already have an account? [Log in now](#)

After clicking the registration button, if the registration is successful, the page will automatically jump to the login interface. Enter the username and password to log in. If you do not need to register and log in directly, you can also enter this interface by clicking sign in - customer in the upper right corner of the homepage.



username

password

Don't have an account yet? [Register now](#)

We log into an account that has been registered before and enter the purchase interface.

Welcome, China\_1.

Please fill in the quantity you want to buy:

 N95 respirator (\$3)

Quantity:

 surgical mask (\$1)

Quantity:

 surgical N95 respirator (\$5)

Quantity:

Please select the sales representative you want to reserve:

| name             | telephone number | email address            |
|------------------|------------------|--------------------------|
| China Rep First  | 15311111111      | china1@nottingham.edu.cn |
| China Rep Second | 15322222222      | china2@nottingham.edu.cn |

-Select-

The sales representatives in this region are already listed on the right, enter the legal purchase quantity and select your sales representative to complete the purchase. Any blank or illegal input will lead to wrong prompt information.

Successful transaction. Thank you for choosing woolin Auto.

Welcome, China\_1.

Please fill in the quantity you want to buy:

 N95 respirator (\$3)

Quantity:

 surgical mask (\$1)

Quantity:

 surgical N95 respirator (\$5)

Quantity:

Please select the sales representative you want to reserve:

| name             | telephone number | email address            |
|------------------|------------------|--------------------------|
| China Rep First  | 15311111111      | china1@nottingham.edu.cn |
| China Rep Second | 15322222222      | china2@nottingham.edu.cn |

China Rep First

After a successful purchase, you will be prompted with a successful transaction. Your purchase is now complete and is waiting for feedback from the sales representative. At this time, we can click 'My Order' in the upper right corner to view historical orders. Your historical orders and cancelled orders will be displayed. At the same time, within 24 hours after purchase, you can cancel the order at will. Select the order you want to cancel in the selection box and click 'Cancel', it will prompt you with a successful cancellation message. If the order has been completed or exceeds 24 hours, the order cannot be cancelled, and you will be prompted with an error message.




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Buy Now

The following are your orders:

| id       | N95 respirators | surgical masks | surgical N95 respirators | sales rep        | time                | status     |
|----------|-----------------|----------------|--------------------------|------------------|---------------------|------------|
| 4ba9fc9a | 100             | 0              | 0                        | China Rep First  | 2020-05-28 13:06:16 | completed  |
| 32f90617 | 111             | 0              | 0                        | China Rep Second | 2020-05-28 13:24:12 | completed  |
| 146541c5 | 200             | 500            | 100                      | China Rep First  | 2020-05-28 17:44:58 | processing |

The following are the cancelled orders:

You currently have no record of cancelled orders.

Please select the order you want to cancel:

Refresh the page at this time, you will find that the previous order has been cancelled.




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Buy Now

The following are your orders:

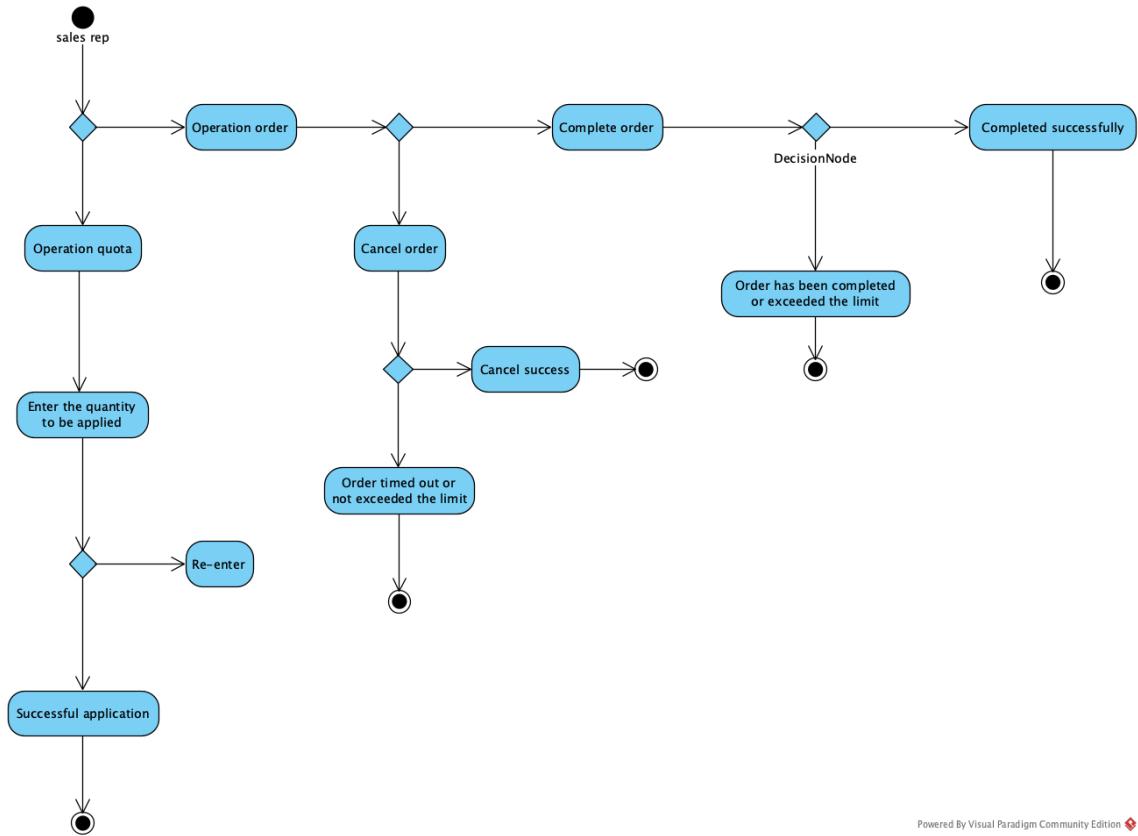
| id       | N95 respirators | surgical masks | surgical N95 respirators | sales rep        | time                | status    |
|----------|-----------------|----------------|--------------------------|------------------|---------------------|-----------|
| 4ba9fc9a | 100             | 0              | 0                        | China Rep First  | 2020-05-28 13:06:16 | completed |
| 32f90617 | 111             | 0              | 0                        | China Rep Second | 2020-05-28 13:24:12 | completed |

The following are the cancelled orders:

| id       | N95 respirators | surgical masks | surgical N95 respirators | sales rep       | time                | cancellation |
|----------|-----------------|----------------|--------------------------|-----------------|---------------------|--------------|
| 146541c5 | 200             | 500            | 100                      | China Rep First | 2020-05-28 17:44:58 | China_1      |

Please select the order you want to cancel:

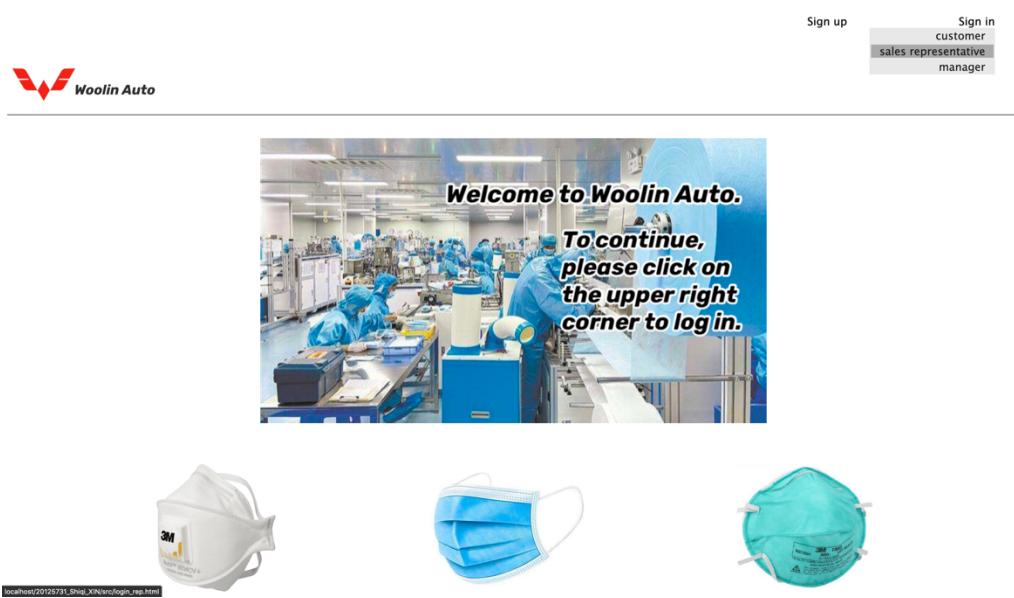
## 2. Sales rep part



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Activity Diagram for sales rep

First of all, click sign in - sales rep in the upper right corner of the homepage to enter the login interface.



Enter a valid username and password to log in. Any blank or illegal input will result in an error message. At this time, we log in to the account that has been registered before.



username

password

Entering the sales representative page, we can see that our orders and orders that have been cancelled are listed on the screen.

Welcome, China\_rep1.

Please select the operation you want to perform:

|   |   |
|---|---|
| Operation:                              | Transaction id:                         |
| <input type="button" value="-Select-"/> | <input type="button" value="-Select-"/> |
| <input type="button" value="Go"/>       |   |

Here are the orders from your customers:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | status     |
|----------|-----------------|----------------|--------------------------|----------|---------------------|------------|
| 4ba9fc9a | 100             | 0              | 0                        | China_1  | 2020-05-28 13:06:16 | completed  |
| 6f4c3aa4 | 200             | 500            | 100                      | China_1  | 2020-05-28 18:28:28 | processing |
| 616b6047 | 100             | 300            | 200                      | China_2  | 2020-05-28 18:29:03 | processing |
| 802b58c1 | 10000           | 500            | 200                      | China_2  | 2020-05-28 18:29:14 | processing |
| dce64eeb | 400             | 50000          | 200                      | China_2  | 2020-05-20 18:29:25 | processing |

The following are the cancelled orders:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | cancellation |
|----------|-----------------|----------------|--------------------------|----------|---------------------|--------------|
| 146541c5 | 200             | 500            | 100                      | China_1  | 2020-05-28 17:44:58 | China_1      |

We can carry out and cancel orders in the operation box at the top of the page. First, let's try to complete the order operation. Select 'Carry Out' in the first selection box and select the order ID you want to operate in the second selection box. Click the 'Go' button. At this time, the operation box prompts that the transaction is successful, the transaction has been completed, and the number of masks in the order will be deducted from your quota accordingly.

Welcome, China\_rep1.

Please select the operation you want to perform:

The transaction was successful.

|  |   |
|--|---|
| Operation:                               | Transaction id:                         |
| <input type="button" value="Carry Out"/> | <input type="button" value="6f4c3aa4"/> |
| <input type="button" value="Go"/>        |   |

Here are the orders from your customers:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | status     |
|----------|-----------------|----------------|--------------------------|----------|---------------------|------------|
| 4ba9fc9a | 100             | 0              | 0                        | China_1  | 2020-05-28 13:06:16 | completed  |
| 6f4c3aa4 | 200             | 500            | 100                      | China_1  | 2020-05-28 18:28:28 | processing |
| 616b6047 | 100             | 300            | 200                      | China_2  | 2020-05-28 18:29:03 | processing |
| 802b58c1 | 10000           | 500            | 200                      | China_2  | 2020-05-28 18:29:14 | processing |
| dce64eeb | 400             | 50000          | 200                      | China_2  | 2020-05-20 18:29:25 | processing |

The following are the cancelled orders:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | cancellation |
|----------|-----------------|----------------|--------------------------|----------|---------------------|--------------|
| 146541c5 | 200             | 500            | 100                      | China_1  | 2020-05-28 17:44:58 | China_1      |

If the order exceeds your limit, the order cannot be completed, and you will be prompted with an error message. Similarly, operations on completed orders will also result in error messages.

Welcome, China\_rep1.

Please select the operation you want to perform:

Transaction failed. The order exceeds the quota.

|  |   |
|--|---|
| Operation:                               | Transaction id:                         |
| <input type="button" value="Carry Out"/> | <input type="button" value="802b58c1"/> |
| <input type="button" value="Go"/>        |   |

Here are the orders from your customers:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | status     |
|----------|-----------------|----------------|--------------------------|----------|---------------------|------------|
| 4ba9fc9a | 100             | 0              | 0                        | China_1  | 2020-05-28 13:06:16 | completed  |
| 6f4c3aa4 | 200             | 500            | 100                      | China_1  | 2020-05-28 18:28:28 | processing |
| 616b6047 | 100             | 300            | 200                      | China_2  | 2020-05-28 18:29:03 | processing |
| 802b58c1 | 10000           | 500            | 200                      | China_2  | 2020-05-28 18:29:14 | processing |
| dce64eeb | 400             | 50000          | 200                      | China_2  | 2020-05-20 18:29:25 | processing |

The following are the cancelled orders:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | cancellation |
|----------|-----------------|----------------|--------------------------|----------|---------------------|--------------|
| 146541c5 | 200             | 500            | 100                      | China_1  | 2020-05-28 17:44:58 | China_1      |

Next we proceed to cancel the order. As before, select cancel and the transaction id to be operated in the selection box, then click the 'Go' button. If the operation is legal, the order will be successfully cancelled. Refresh the page, you will find that the order has been cancelled.

Welcome, China\_rep1.

Please select the operation you want to perform:

Cancel success.

|                                       |   |
|---------------------------------------|---|
| Operation:                            | Transaction id:                         |
| <input type="button" value="Cancel"/> | <input type="button" value="802b58c1"/> |
| <input type="button" value="Go"/>     |   |

Here are the orders from your customers:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | status     |
|----------|-----------------|----------------|--------------------------|----------|---------------------|------------|
| 4ba9fc9a | 100             | 0              | 0                        | China_1  | 2020-05-28 13:06:16 | completed  |
| 6f4c3aa4 | 200             | 500            | 100                      | China_1  | 2020-05-28 18:28:28 | processing |
| 616b6047 | 100             | 300            | 200                      | China_2  | 2020-05-28 18:29:03 | processing |
| 802b58c1 | 10000           | 500            | 200                      | China_2  | 2020-05-28 18:29:14 | processing |
| dce64eeb | 400             | 50000          | 200                      | China_2  | 2020-05-20 18:29:25 | processing |

The following are the cancelled orders:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | cancellation |
|----------|-----------------|----------------|--------------------------|----------|---------------------|--------------|
| 146541c5 | 200             | 500            | 100                      | China_1  | 2020-05-28 17:44:58 | China_1      |

However, as shown in the figure, if the order exceeds the limit but the purchase time has exceeded 24 hours, the order cannot be cancelled. The order will be deemed completed and notified to the manager as an abnormal order.

Welcome, China\_rep1.

Please select the operation you want to perform:

The order has exceeded 24 hours, please wait for the manager to process.

|                                       |   |
|---------------------------------------|---|
| Operation:                            | Transaction id:                         |
| <input type="button" value="Cancel"/> | <input type="button" value="dce64eeb"/> |
| <input type="button" value="Go"/>     |   |

Here are the orders from your customers:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | status     |
|----------|-----------------|----------------|--------------------------|----------|---------------------|------------|
| 4ba9fc9a | 100             | 0              | 0                        | China_1  | 2020-05-28 13:06:16 | completed  |
| 6f4c3aa4 | 200             | 500            | 100                      | China_1  | 2020-05-28 18:28:28 | processing |
| 616b6047 | 100             | 300            | 200                      | China_2  | 2020-05-28 18:29:03 | processing |
| 802b58c1 | 10000           | 500            | 200                      | China_2  | 2020-05-28 18:29:14 | processing |
| dce64eeb | 400             | 50000          | 200                      | China_2  | 2020-05-20 18:29:25 | processing |

The following are the cancelled orders:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | cancellation |
|----------|-----------------|----------------|--------------------------|----------|---------------------|--------------|
| 146541c5 | 200             | 500            | 100                      | China_1  | 2020-05-28 17:44:58 | China_1      |

Similarly, if the order does not exceed the limit, the representative has no right to cancel, the error message will be prompted. Operations of the order is basically introduced. Next, we click on 'My Quota' in the upper right corner to view the quota.

Welcome, China\_rep1.

Please select the operation you want to perform:

Unable to cancel, the order did not exceed the quota.

|                        |                 |
|------------------------|-----------------|
| Operation:             | Transaction id: |
| <a href="#">Cancel</a> | 616b6047        |
| <a href="#">Go</a>     |                 |

Here are the orders from your customers:

| id       | N95 respirators | surgical masks | surgical N95 respirators | customer | time                | status     |
|----------|-----------------|----------------|--------------------------|----------|---------------------|------------|
| 4ba9fc9a | 100             | 0              | 0                        | China_1  | 2020-05-28 13:06:16 | completed  |
| 6f4c3aa4 | 200             | 500            | 100                      | China_1  | 2020-05-28 18:28:28 | completed  |
| 616b6047 | 100             | 300            | 200                      | China_2  | 2020-05-28 18:29:03 | processing |
| dce64eeb | 400             | 50000          | 200                      | China_2  | 2020-05-20 18:29:25 | completed  |

The remaining quota and our quota application record are displayed on the screen. We can apply for quota at the bottom of the page. First select the type and quantity you want to apply for, then click the 'Apply' button. After the application is successful, the success message will be displayed on the screen. If no quantity is selected, an error message will be displayed.

The following are the cancelled orders:

The following quota application records are displayed:

|                 |                |                          |
|-----------------|----------------|--------------------------|
| N95 respirators | surgical masks | surgical N95 respirators |
| 2200            | 1500           | 1900                     |

The following are your quota application records:

You currently have no quota application records.

Please select the type and quantity of quota you want to apply for:

The application is successful. Please wait for the manager's approval.



N95 respirator



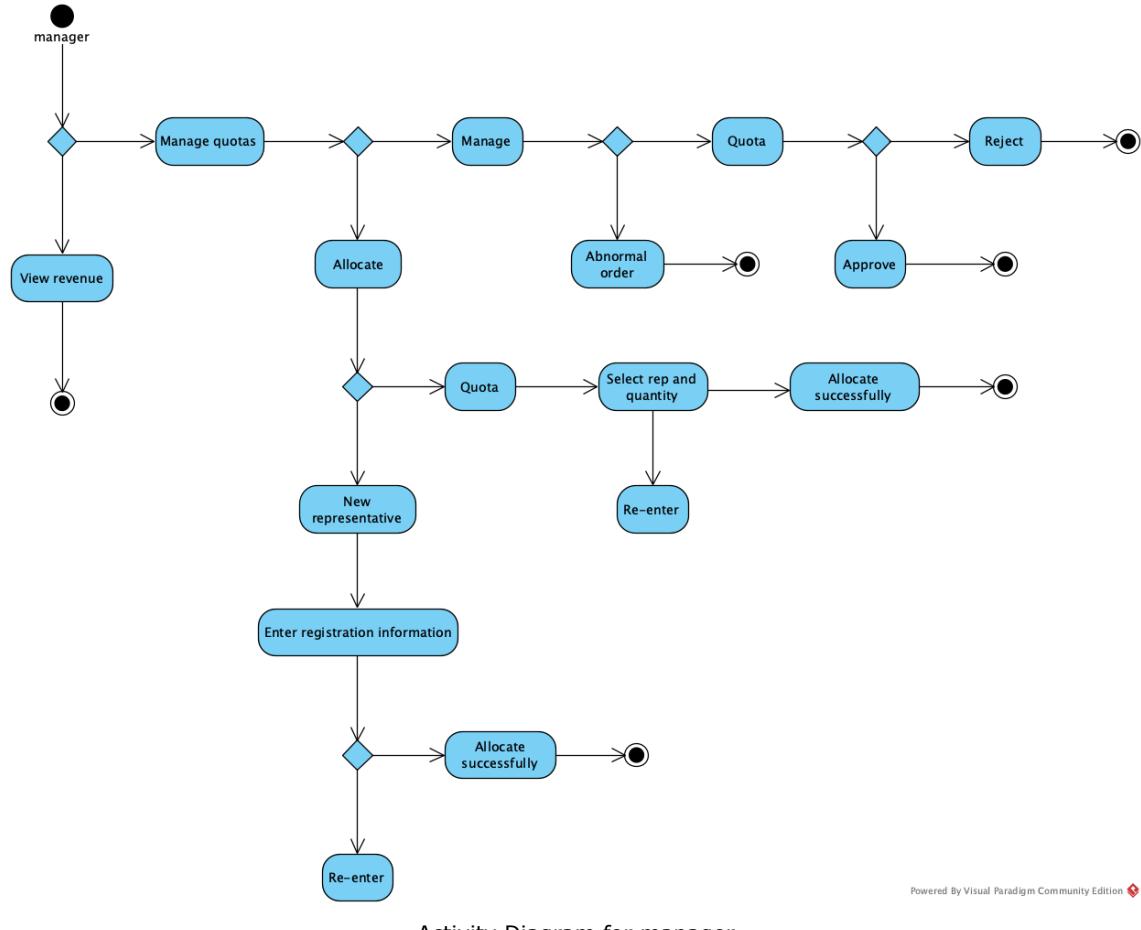
surgical mask



surgical N95 respirator

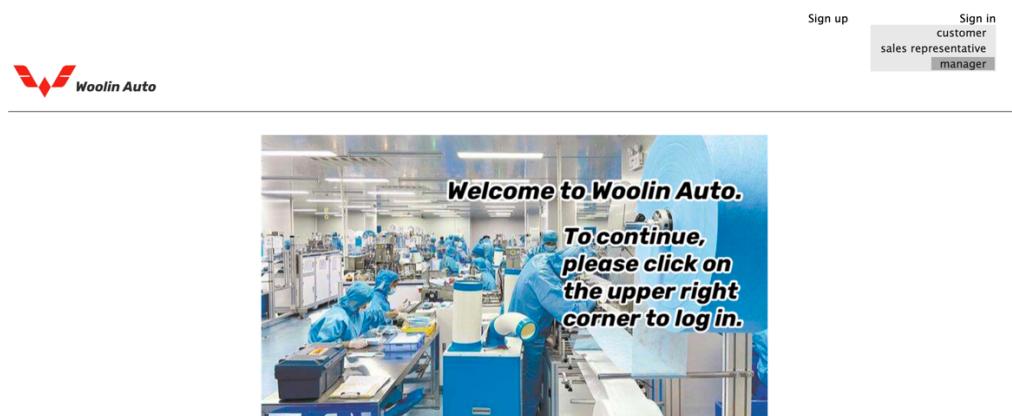
[Apply](#)

### 3. Manager part



Activity Diagram for manager

First of all, click sign in – manager in the upper right corner of the homepage to enter the login interface.



Enter a valid username and password to log in. Any blank or illegal input will result in an error message. Since there is only one manager, so the manager's data is set in the database in advance.



username

password

Enter the manager page, you can see the information of all sales representatives, the abnormal order information waiting to be processed, and the quota request information from the sales representative.

Welcome, Heng.

My Revenue

Here are all your sales representatives:

| name             | employee id | N95 respirators | surgical masks | surgical N95 respirators |
|------------------|-------------|-----------------|----------------|--------------------------|
| China Rep First  | C11111111   | 2200            | 1500           | 1900                     |
| China Rep Second | C22222222   | 289             | 0              | 0                        |
| Japan Rep First  | J11111111   | 400             | 0              | 0                        |
| Japan Rep Second | J22222222   | 0               | 0              | 0                        |
| UK Rep First     | U11111111   | 1000            | 0              | 0                        |
| UK Rep Second    | U22222222   | 0               | 0              | 0                        |

The following are the abnormal orders waiting for you to handle:

| id       | N95 respirators | surgical masks | surgical N95 respirators | sales rep       | customer |
|----------|-----------------|----------------|--------------------------|-----------------|----------|
| dce64eeb | 400             | 50000          | 200                      | China Rep First | China_2  |

The following are your pending quota applications:

| id       | sales rep       | N95 respirators | surgical masks | surgical N95 respirators | status     |
|----------|-----------------|-----------------|----------------|--------------------------|------------|
| a423d68c | China Rep First | 1000            | 1000           | 1000                     | processing |

First, let's look at abnormal orders. Select the order to be processed and click the 'Ship' button, the order will be processed successfully. Refresh the page and you will find that the order has been processed.

The following are the abnormal orders waiting for you to handle:

| id       | N95 respirators | surgical masks | surgical N95 respirators | sales rep       | customer |
|----------|-----------------|----------------|--------------------------|-----------------|----------|
| dce64eeb | 400             | 50000          | 200                      | China Rep First | China_2  |

Delivery was successful.

[dce64eeb](#) [Ship](#)

The following are your pending quota applications:

| id       | sales rep       | N95 respirators | surgical masks | surgical N95 respirators | status     |
|----------|-----------------|-----------------|----------------|--------------------------|------------|
| a423d68c | China Rep First | 1000            | 1000           | 1000                     | processing |

[-Select-](#) [Approve](#) [Reject](#)

Please select the type and quantity of quota you want to allocate:



N95 respirator



surgical mask



surgical N95 respirator

Next we process the quota request, select the request ID that we want to process, and click the 'Approve' button, the request will be passed, and the corresponding quota will be allocated to the sales representative. If you click the 'Reject' button, the request will be rejected.

The following are the abnormal orders waiting for you to handle:

You currently have no abnormal orders.

[-Select-](#) [Ship](#)

The following are your pending quota applications:

| id       | sales rep        | N95 respirators | surgical masks | surgical N95 respirators | status     |
|----------|------------------|-----------------|----------------|--------------------------|------------|
| a423d68c | China Rep First  | 1000            | 1000           | 1000                     | processing |
| bf018fce | China Rep Second | 2000            | 5000           | 1000                     | processing |

Approved successfully.

[a423d68c](#) [Approve](#) [Reject](#)

The following are the abnormal orders waiting for you to handle:

You currently have no abnormal orders.

[-Select-](#) [Ship](#)

The following are your pending quota applications:

| id       | sales rep        | N95 respirators | surgical masks | surgical N95 respirators | status     |
|----------|------------------|-----------------|----------------|--------------------------|------------|
| bf018fce | China Rep Second | 2000            | 5000           | 1000                     | processing |

Rejected successfully.

[bf018fce](#) [Approve](#) [Reject](#)

On this page, you can also assign quotas to designated sales reps. Select the quantity you want to allocate and the name of the sales rep then click the 'Allocate' button. If the allocation is successful, a success message will be displayed. If you do not select a quantity or sales representative, an error message will be displayed.

The following are your pending quota applications:

You currently have no pending quota applications.

-Select-      Approve      Reject

Please select the type and quantity of quota you want to allocate:  
The quota allocation is successful.

 N95 respirator       surgical mask       surgical N95 respirator  
500      500      500  
[China Rep First](#)      [Allocate](#)

[Click here to assign a new sales rep](#)

[Logout](#)

Finally, click the link at the bottom of the page to enter the page for assigning new representatives. After entering the assign interface, enter legal information to assign a new sales rep. Any blank or illegal input will lead to wrong prompt information, you can correct your input according to the prompt information and complete the registration.

 [Return](#)

Username

Real Name

Employee ID

Telephone Number

Region

Email

Password

[Assign](#)

After the allocation is successful, the page will automatically jump back to the previous manager page. Click "My Revenue" in the upper right corner of the page, we can view various information on the sales of masks.




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Welcome, Heng.

Here are all your sales representatives:

| name             | employee id | N95 respirators | surgical masks | surgical N95 respirators |
|------------------|-------------|-----------------|----------------|--------------------------|
| China Rep First  | C11111111   | 3700            | 3000           | 3400                     |
| China Rep Second | C22222222   | 289             | 0              | 0                        |
| Japan Rep First  | J11111111   | 400             | 0              | 0                        |
| Japan Rep Second | J22222222   | 0               | 0              | 0                        |
| Uk Rep First     | U11111111   | 1000            | 0              | 0                        |
| Uk Rep Second    | U22222222   | 0               | 0              | 0                        |
| Test Rep         | T12345678   | 0               | 0              | 0                        |

The following are the abnormal orders waiting for you to handle:

You currently have no abnormal orders.

The following are your pending quota applications:

This page shows the total amount of mask sales, total revenue, masks under ordering, masks sold by different sales representatives, masks sold in different regions and the number of masks sold in the past few weeks. At the bottom of the page, select the number of weeks you want to view, and click the 'Go' button, you can also view statistics about customers.




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The following is the general information on selling masks:

| total amount | total revenue | masks under ordering |
|--------------|---------------|----------------------|
| 52711        | 57733         | 600                  |

The following are the masks sold by specific sales representatives:

| sales rep        | N95 respirators | surgical masks | surgical N95 respirators |
|------------------|-----------------|----------------|--------------------------|
| China Rep First  | 700             | 50500          | 300                      |
| China Rep Second | 111             | 0              | 0                        |
| Japan Rep First  | 100             | 0              | 0                        |
| Uk Rep First     | 1000            | 0              | 0                        |

The following is the sales of masks in different regions:

| region | N95 respirators | surgical masks | surgical N95 respirators |
|--------|-----------------|----------------|--------------------------|
| China  | 811             | 50500          | 300                      |
| Japan  | 100             | 0              | 0                        |
| UK     | 1000            | 0              | 0                        |

The following is the sales of masks in different regions:

| region | N95 respirators | surgical masks | surgical N95 respirators |
|--------|-----------------|----------------|--------------------------|
| China  | 811             | 50500          | 300                      |
| Japan  | 100             | 0              | 0                        |
| UK     | 1000            | 0              | 0                        |

The following is the sales of masks in the past few weeks:

| weeks | N95 respirators | surgical masks | surgical N95 respirators |
|-------|-----------------|----------------|--------------------------|
| 1     | 1511            | 500            | 100                      |
| 2     | 1911            | 50500          | 300                      |
| 3     | 1911            | 50500          | 300                      |

The following is statistical information about customers:

View customer statistics for the past  weeks

| total customers | Weekly customers | daily customers |
|-----------------|------------------|-----------------|
| 4               | 1.33             | 0.19            |