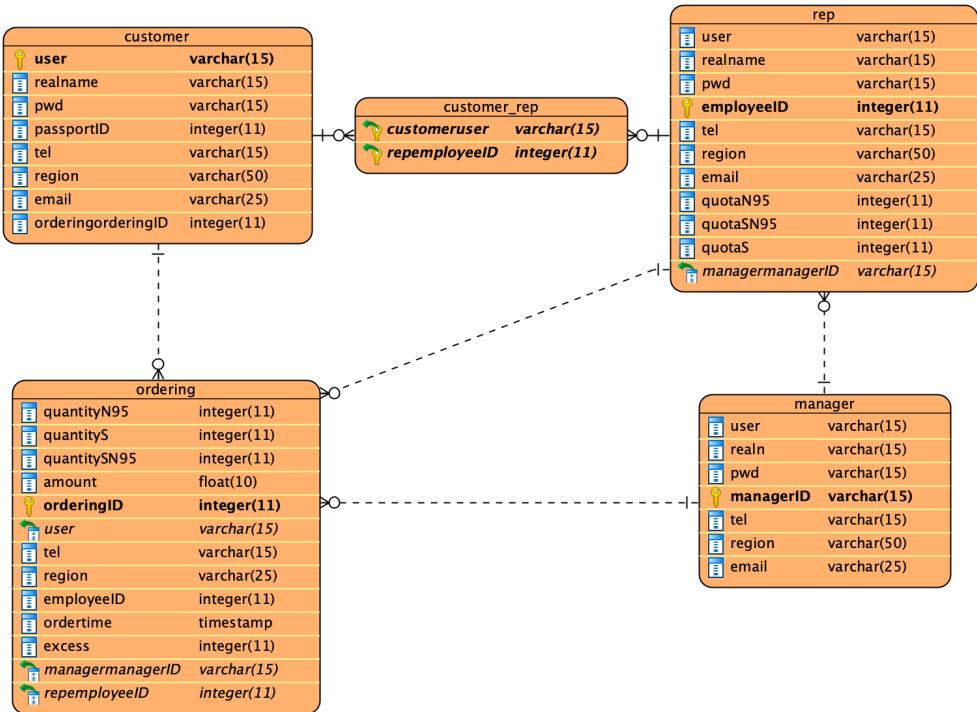


## Reference

### a. Your Entity-Relationship Diagram.



Explanation: in this ER diagram, 'user' in 'ordering' table is a foreign key of 'user' in 'customer' table. 'managerID' in 'rep' and 'managerID' in 'ordering' are foreign keys of 'managerID' in 'manager'. 'employeID' in 'ordering' is a foreign key in 'rep' table. 'user' in 'customer' is the foreign key in 'rep' table. 'employeID' in 'rep' is the foreign key in 'customer' table.

### b. Your SQL “create table” statements, they must be valid ones.

```
CREATE TABLE `ordering` (
  `quantityN95` int(11) DEFAULT NULL,
  `quantityS` int(11) DEFAULT NULL,
  `quantitySN95` int(11) DEFAULT NULL,
  `amount` float NOT NULL,
  `orderingID` int(11) NOT NULL,
  `user` varchar(25) NOT NULL,
  `tel` varchar(15) NOT NULL,
  `region` varchar(25) NOT NULL,
  `employeID` int(11) NOT NULL,
  `ordertime` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
  `excess` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
CREATE TABLE `customer` (
  `user` varchar(15) NOT NULL,
  `realname` varchar(15) NOT NULL,
  `pwd` varchar(15) NOT NULL,
  `passportID` varchar(15) NOT NULL,
  `tel` varchar(15) NOT NULL,
  `region` varchar(50) NOT NULL,
  `email` varchar(25) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```

CREATE TABLE `rep` (
  `user` varchar(15) NOT NULL,
  `realname` varchar(15) NOT NULL,
  `pwd` varchar(15) NOT NULL,
  `employeeID` int(11) NOT NULL,
  `tel` varchar(15) NOT NULL,
  `region` varchar(50) NOT NULL,
  `email` varchar(25) NOT NULL,
  `quotaN95` int(11) DEFAULT NULL,
  `quotaSN95` int(11) DEFAULT NULL,
  `quotaS` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

CREATE TABLE `manager` (
  `user` varchar(15) NOT NULL,
  `realn` varchar(15) NOT NULL,
  `pwd` varchar(15) NOT NULL,
  `managerID` varchar(15) NOT NULL,
  `tel` varchar(15) NOT NULL,
  `region` varchar(50) NOT NULL,
  `email` varchar(25) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

```

### Explanation:

```

ALTER TABLE `customer`
ADD PRIMARY KEY (`user`);

-- 
-- Indexes for table `manager`
-- 
ALTER TABLE `manager`
ADD PRIMARY KEY (`managerID`);

-- 
-- Indexes for table `ordering`
-- 
ALTER TABLE `ordering`
ADD PRIMARY KEY (`orderingID`);

-- 
-- Indexes for table `rep`
-- 
ALTER TABLE `rep`
ADD PRIMARY KEY (`employeeID`);

-- 
-- AUTO_INCREMENT for dumped tables
-- 

-- 
-- AUTO_INCREMENT for table `ordering`
-- 
ALTER TABLE `ordering`
MODIFY `orderingID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=56;

-- 
-- AUTO_INCREMENT for table `rep`
-- 
ALTER TABLE `rep`
MODIFY `employeeID` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=9;

```

1. I create 4 tables: customer, rep, manager and ordering
2. Each element in the table cannot be null
3. I set ‘user’ in ‘customer’, ‘managerID’ in ‘manager’, ‘orderingID’ in ‘ordering’, ‘employeeID’ in ‘rep’ as primary key, which means they are unique.
4. I set ‘orderingID’ and ‘employeeID’ as auto increment.
5. I set time as ‘current\_timestamp’.

### c. A brief discussion on why/how your design will work.

#### Design:

1. My design style is simple and black. I use dark black to decorate all the buttons and navigation bar. I modify the background image with ps to decorate the background. I choose this picture because we are an international mask selling platform. When the mouse move from the navigation bar and button, the color will change to dark grey. It is a user-friendly function to people with visual impairment.
2. The main purpose of my design is to catch user’s attention, I do not add fancy

functionality as I think our main purpose is to sell mask to people in need during this hard time. If I can make this buying procedure simpler and more efficient, it is much more meaningful to help people get through this hard time. Also, the woolin auto has business in Asia, Europe and American, we aim to help people around world to get through this tough time.

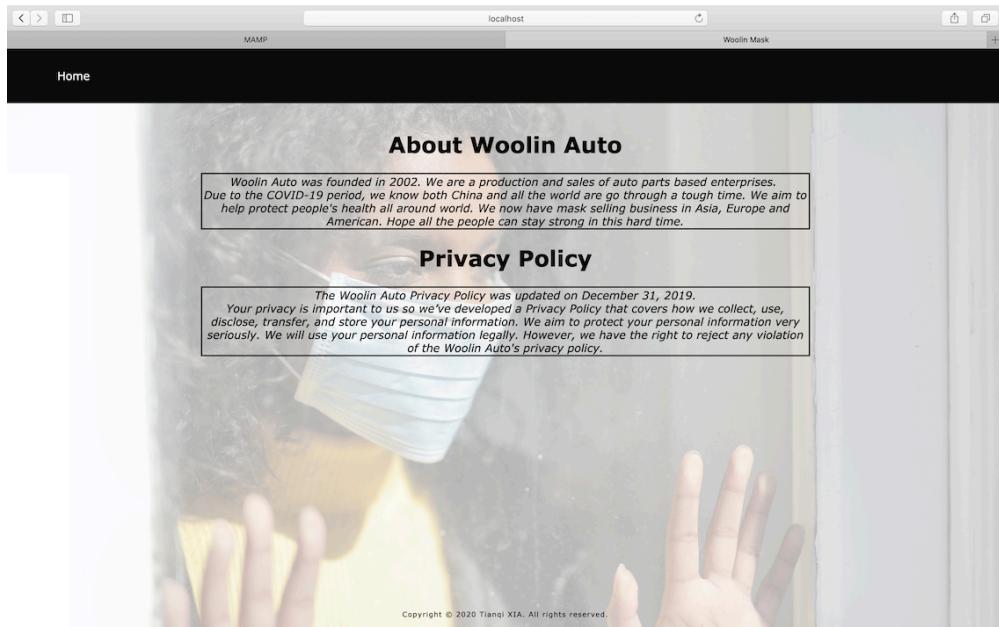
3. I use ajax and jQuery to pass value from html to php and send back to js. All the value I get in html, pack them in package, send them to the php, and the response will get back through js. My aim is to provide a better interaction with user and website. I also use html, css, js, php, mysql to make the functionality more ideal.
4. I divide the website into 3 parts, user part, rep part and manager part. Each person can login through different channel depend on their identity. After login, there will be different functionality depend on their identity. I will show how to use each function in the next question.
5. As user, rep and manager can both delete the order, if one of them delete the order, the other two log in to the system, they will see some changes when viewing the order.
6. The main functionality for user is to sign up, login, view all the order, delete order within 24 hours, place order, select the representative.
7. The main functionality for representative is to login, view the order, view the information of him/she, delete user's order if it exceeds his/her quota and within 24 hours.
8. The main functionality for manager is to login, view the order in the specific region, view the order for the specific rep, view the order of the specific user, view all the representative's information, delete user's order if it is anomaly (within 24 hours and exceeds rep's quota), assign rep to different region, change quota of specific rep, view all the order under ordering (within 24 hours and without anomaly), check all the orders and user's basic information.
9. User, rep, manger can both check quota of rep to avoid trouble (delete order). However, user can only check quota of rep in his/her region, rep can only check quota of him/her, manager can check all the rep's quota.
10. User need to log in to check all the information, if you don't log in, the table in the website will show nothing to protect the privacy of our users.

**d. A walk through of your SMS, including brief explanation and screenshots of each aspect you have done.**

1. First, get access to my cslinux file "scytx1",  
<http://cslinux.nottingham.edu.cn/~scytx1/src/index.html>  
then you can visit my home page.
2. This is my home page, there are five choices on horizontal navigation bar: "**User Login**", "**Rep Login**", "**Manager**", "**User Signup**", "**About Us**". And the brief introduction of my website. In the home page, you can know what type of masks we are selling now and which region we are selling masks now. In addition, you can get basic information of each type of masks. If you **click** on one of the buttons, the color will turn **dark grey** as I shown in the below picture.



3. If you click '**About Us**', it will show some basic information of Woolin Auto, and the privacy policy of Woolin Auto.



## Functionality for Customer

User Login    Rep Login    Manager    User Signup    About Us

### Woolin Auto Mask Selling Platform

Welcome to Woolin Auto! We sell 3 types of masks(N95, Surgical, Surgical N95) to China, UK, USA and Japan currently! Hope you and your family can stay health and safe in this COVID-19 period!

*Log In and choose your favorite masks!*

N95 mask or N95 respirator is a particulate-filtering facepiece respirator that meets the U.S. National Institute for Occupational Safety and Health N95 classification of air filtration, meaning that it filters at least 95% of airborne particles.	Surgical mask, also known as a face mask, is intended to be worn by healthcare professionals during healthcare procedures. It is designed to prevent infections in patients and treating personnel by catching bacteria shed in liquid droplets and aerosols from the wearer's mouth and nose.	Surgical N95 respirators are both approved by NIOSH as an N95 respirator and also cleared by the FDA as a surgical mask. These products are frequently referred to as medical respirators, healthcare respirators, or surgical N95s. It is a high standard mask.
--	--	--

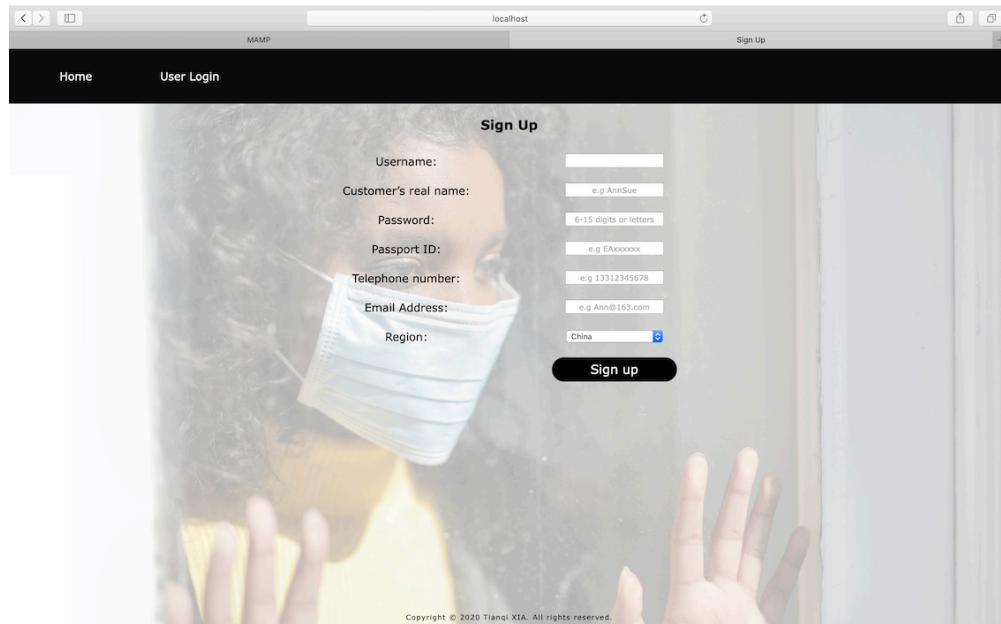
Copyright © 2020 Tianqi XIA. All rights reserved.

- As you may be the first time to enter this website, you need to get an account first. Click on “User Signup” button first. Below is my “Sign Up” page. You need to enter “Username”, “Customer’s real name”, “Password”, “Passport ID”, “Telephone number”, “Email Address”, “Region” as follow. Username should be unique, consist of 2 to 15 digital numbers, letters or underline without empty space. Customer’s real name also consists of 2 to 15 digital numbers, letters or underline without empty space. Password should consist of 6 to 15 digital numbers or letters without empty space. Passport ID

should consist of 6 to 15 digital numbers or letters without empty space. Telephone number should only consist of numbers between 6 to 15 digits. Email Address should consist the type like [xxx@xxx.com](mailto:xxx@xxx.com). You need to select one region from “**China**”, “**USA**”, “**UK**”, “**Japan**”. None of the blank below can be empty, you need to fill in every blank as I structured in the introduction correctly. After filling the blank, click on “**Sign Up**”. If you sign up successfully, you will get a pop-up prompt said “**Sign up successfully!**”. If you can not sign up successfully, the website will also get a pop-up prompt to tell you what’s wrong with the sign up. You just need to follow the instruction to sign up again. If you find you go to the wrong channel (e.g, you are a representative, but you go to the signup page), you can go back to the home page anytime.

**Correct Signup data:** Sam; Sam; 123456; EA123456; 18167157533; [scytx1@nottingham.edu.cn](mailto:scytx1@nottingham.edu.cn); China

Wrong signup data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.

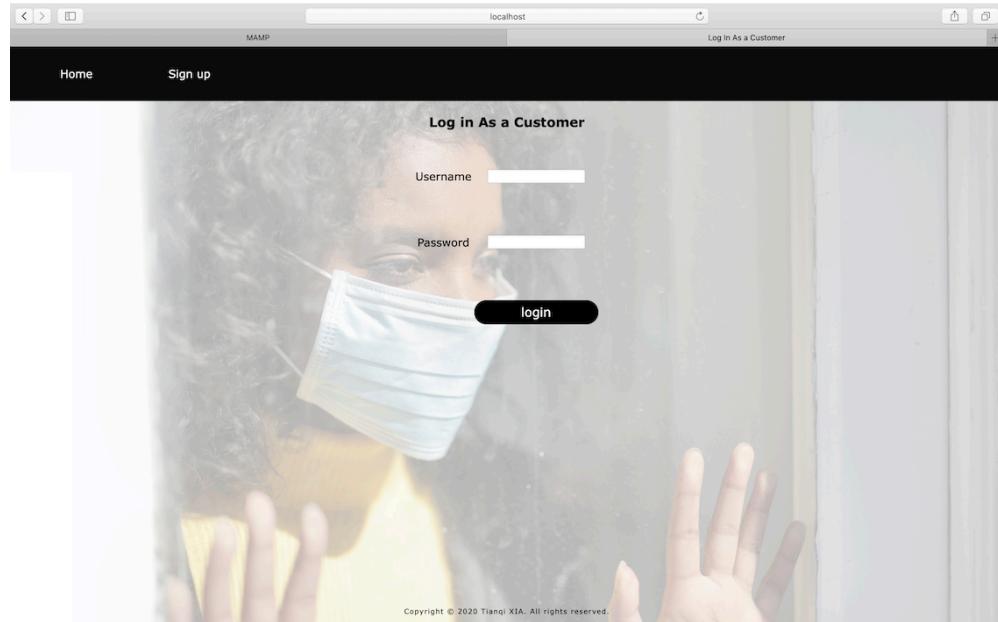


2. After signing up successfully, website will turn to “login as a customer” page. You need to fill in the “**Username**” and “**Password**” as you just sign up in the previous page correctly. After filling the blank, click on “**Login**”. If you login successfully, you will get a pop-up prompt said “**Login successfully!**”, otherwise, you need to login again. If you find you go to the wrong channel (e.g, you are a representative, but you go to the log in customer page), you

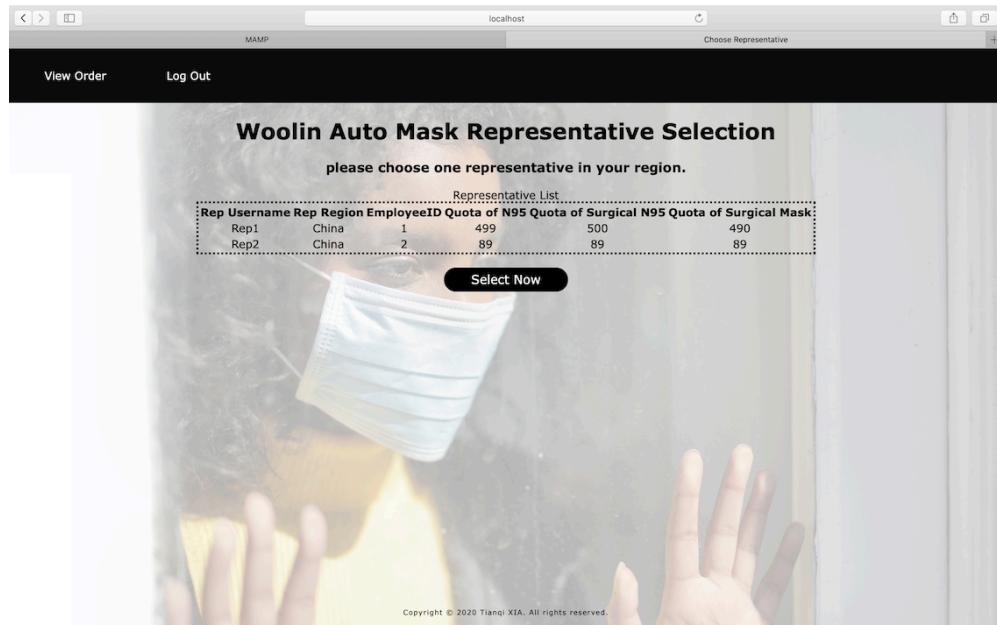
can go back to the home page anytime.

**Correct Login data:** xtq; 111111

Wrong login data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.



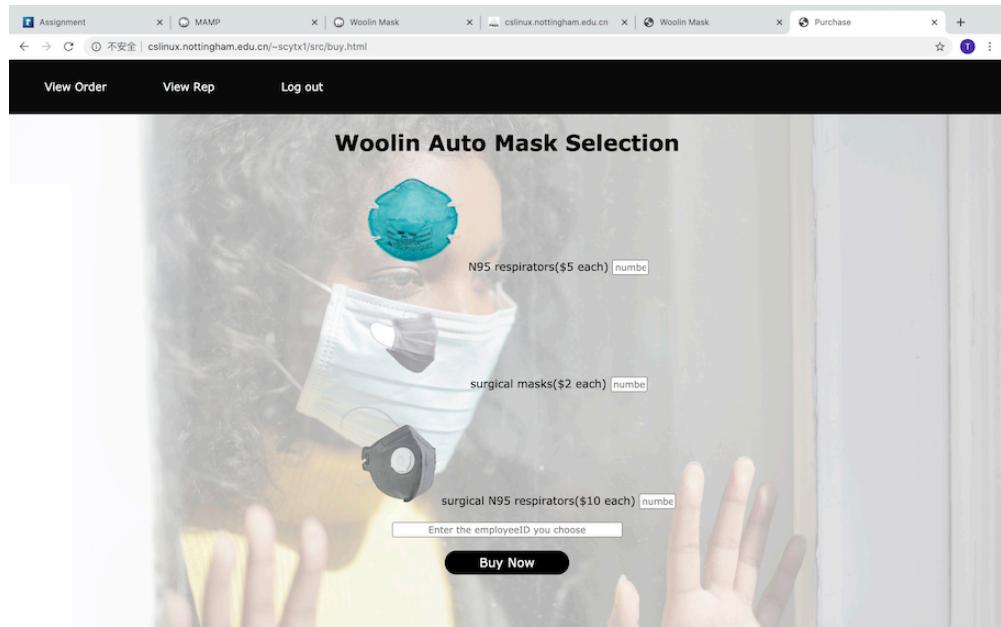
3. After login successfully, website will turn to “**Choose Representative**” Page. There are 2 choices on horizontal navigation bar: “**View Order**”, “**Log out**”. In this page, you can view all the representatives you can choose in your region. You can decide to choose which rep depend on their quota. I design this function to show the quota of each rep is to help user make a better choice when placing order, which aims to avoid the trouble caused by the order exceeds quota. Click on “**Select Now**”, you can go to the “**Buy**” page, or click the “**View Order**” on the top to check your order. You can “**log out**” the account anytime. (if you made some change on the quota, the statistic may not be the same as I shown in the screenshot)



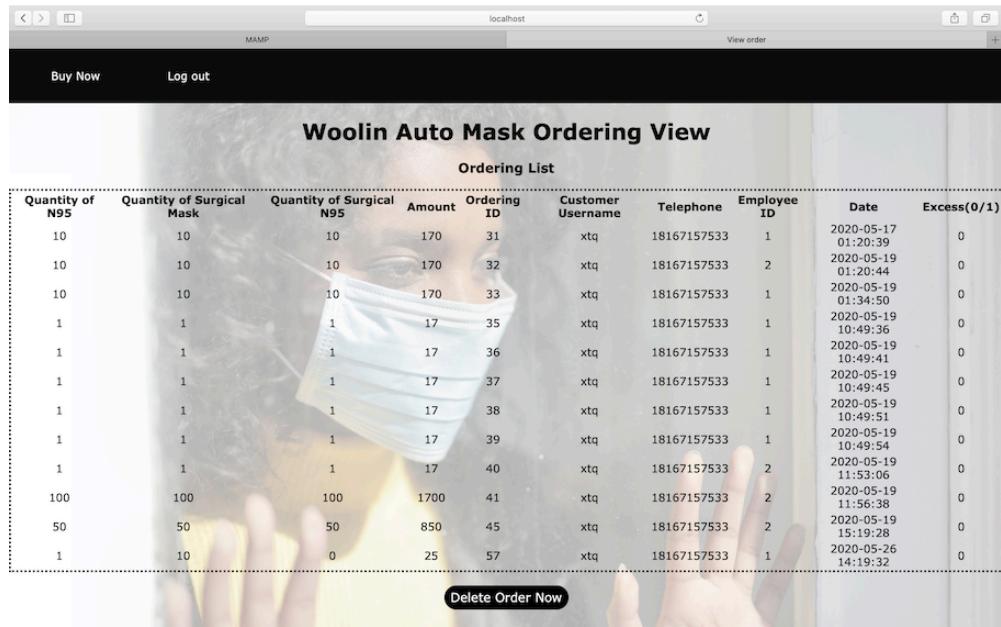
4. If you click "**Select Now**", it will turn to "**Buy**" page, you need to enter the specific number of masks you want to buy and select one of the reps in your region (just shown in the previous page). You can go back to check which rep you can choose anytime just by click "**View Rep**". You need to enter specific number in the first three blanks and correct employeeID in the fourth blank, then click "**Buy Now**". if you buy masks successfully, the website will get a pop-up prompt said "**Place an order successfully!**", otherwise, it will show you what's wrong with the input when you place an order (Maybe you enter a rep ID which is not in your region or enter a letter or negative number in the first three blanks). You can "**log out**" the account anytime or "**View Order**" anytime.

**Correct Buy data:** 1; 1; 1; 1 (if you login as "xtq")

Wrong buy data: you can go to my "TestData.pdf" to check the wrong data and the reason why invalid.



5. After place an order successfully, you can go to the “**View Order**” page to check your order and delete order if it within 24 hours. In this “**view order**” table, you can check all the information in your order. You can check the quantity of N95, quantity of Surgical Mask, quantity of Surgical N95, total amount, ordering ID (which is unique), Customer Username(your login name), Telephone number, Employee ID you have chosen, the specific time you place an order and whether the order exceed the maximum quota of the representative. 0 means the order doesn't exceed the quota, 1 means the order exceeds the quota. For one representative, he/she has three quotas for each type of mask. Exceeding quota means you may buy one type of masks which exceeds the quota, or you buy two types of masks and one of the types exceeds the quota. 1 means there exists overflow in your ordering (quantity you buy is larger than the quota), no matter how many masks you buy or how many types you buy. If you find some order you don't want to have within 24 hours, you can go to the delete page to delete that order. Just click on “**Delete Order Now**”. You can “**log out**” the account anytime or place new order anytime. (if you place new order, the statistic may not be the same as I shown in the screenshot)



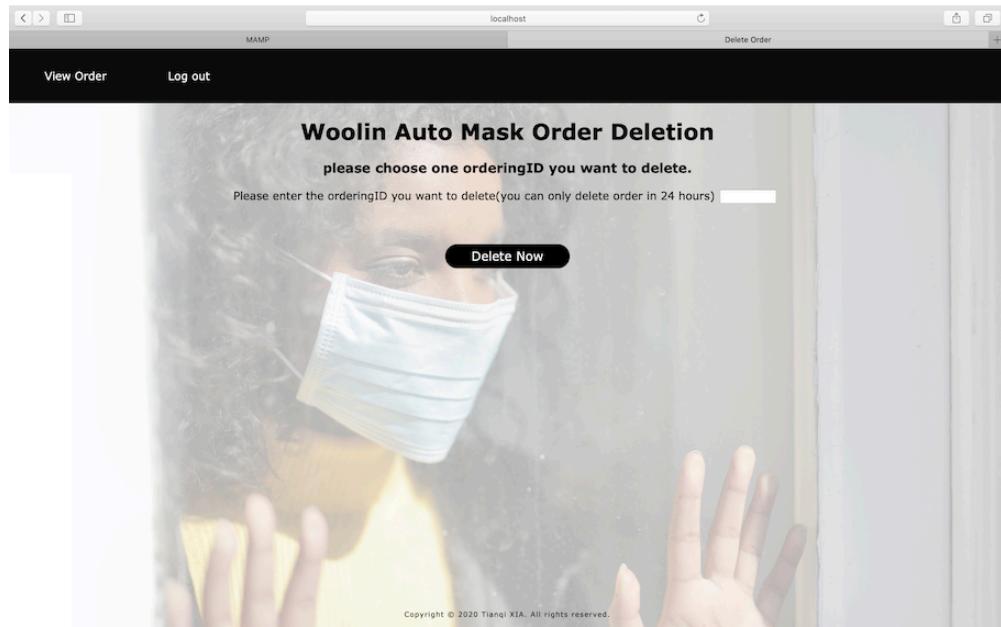
A screenshot of a web application titled "Woolin Auto Mask Ordering View". The page shows a table titled "Ordering List" with columns: Quantity of N95, Quantity of Surgical Mask, Amount, Ordering ID, Customer Username, Telephone, Employee ID, Date, and Excess(0/1). The table contains 14 rows of data. At the bottom of the table is a button labeled "Delete Order Now".

Quantity of N95	Quantity of Surgical Mask	Amount	Ordering ID	Customer Username	Telephone	Employee ID	Date	Excess(0/1)
10	10	170	31	xtq	18167157533	1	2020-05-17 01:20:39	0
10	10	170	32	xtq	18167157533	2	2020-05-19 01:20:44	0
10	10	170	33	xtq	18167157533	1	2020-05-19 01:34:50	0
1	1	17	35	xtq	18167157533	1	2020-05-19 10:49:36	0
1	1	17	36	xtq	18167157533	1	2020-05-19 10:49:41	0
1	1	17	37	xtq	18167157533	1	2020-05-19 10:49:45	0
1	1	17	38	xtq	18167157533	1	2020-05-19 10:49:51	0
1	1	17	39	xtq	18167157533	1	2020-05-19 10:49:54	0
1	1	17	40	xtq	18167157533	2	2020-05-19 11:53:06	0
100	100	1700	41	xtq	18167157533	2	2020-05-19 11:56:38	0
50	50	850	45	xtq	18167157533	2	2020-05-19 15:19:28	0
1	10	25	57	xtq	18167157533	1	2020-05-26 14:19:32	0

- After click on “Delete Order Now”, you can enter one Ordering ID of you to delete the order. (Please be careful, you can only delete the order of yourself and you can only delete order in 24 hours) If 24 hours past after you place an order, the order is considered as completed. You cannot make changes after that. If you delete order successfully, the website will alert “**You delete the order successfully**”, otherwise it will show what’s wrong with your input. (Maybe you enter a wrong ordering ID, enter a letter or want to delete the order after 24 hours). You can “**log out**” the account anytime or “**View Order**” anytime.

**Correct Delete data:** e.g the order you just place

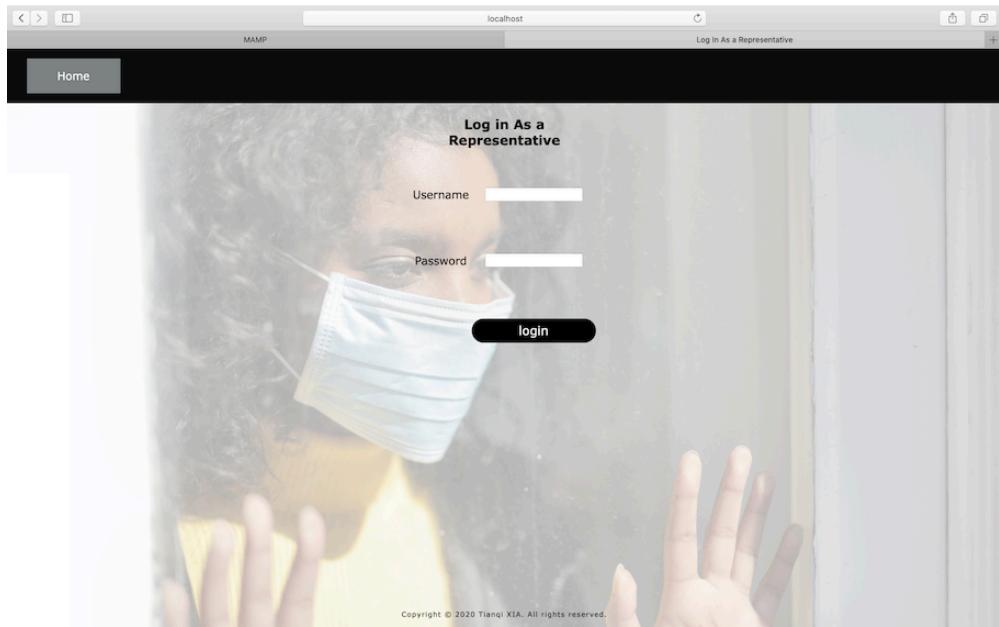
Wrong delete data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.



7. above all is all the functionalities for users, you can sign up as a new user, login the system, check your order, place new order and delete order within 24 hours. You can change to each functionality anytime by click on the top navigation bar. If you do not login, you cannot go through this functionality.
8. Then you can click on “logout” in navigation bar to check other users. If you click on “logout”, the website will go back to the home page.

### Functionality for Representative

1. “Logout” the user, and go back to home page again. Click on “Rep Login” button. You need to fill in the “Username” and “Password” as I stored in my database. For example, username: **Rep1**, password: **111111**. After entering this correctly, click on “login”, you will go to “View Order” Page for Representative. Otherwise, the website will tell you what’s wrong with the input and you need to reenter again.



2. After login, you will go to “**View Order**” page for representative. You can check all the orders from customers who place orders with you. You can see the quantity of N95, quantity of surgical N95, quantity of surgical mask, total amount, ordering ID, customer’s information (username and telephone), the specific time customer place an order and whether the order exceed the maximum quota of you. 0 means the order doesn’t exceed the quota, 1 means the order exceeds the quota. For one representative, he/she has three quotas for each type of mask. Exceeding quota means customer may buy one type of masks which exceeds the quota or buy two types of masks and one of the types exceeds the quota. 1 means there exists overflow in the ordering (quantity they buy is larger than the quota), no matter how many masks they buy or how many types they buy. If you find order exceeds your quota within 24 hours, you can go to the delete page to delete that order. Just click on “**Delete Order Now**”. You can “**log out**” the account anytime or **view your personal information** to check quota of yourself anytime. (if you made some change on the order, the statistic may not be the same as I shown in the screenshot)

**Woolin Auto Mask Ordering View for Representative**

**Ordering List**

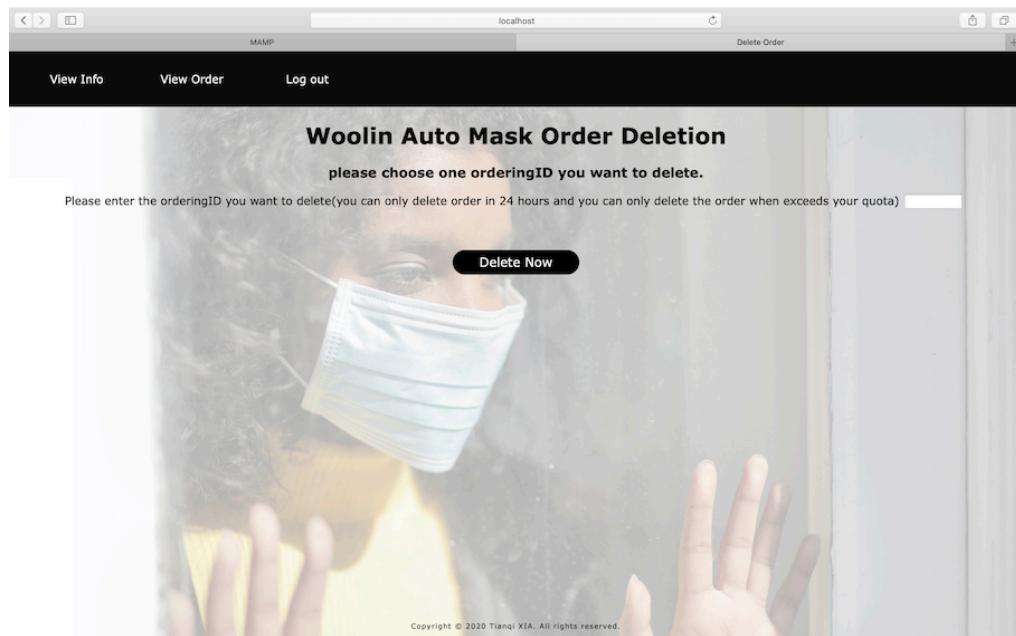
Quantity of N95	Quantity of Surgical Mask	Quantity Surgical N95	Amount	Ordering ID	Customer Username	Telephone	Employee ID	Date	Excess(0/1)
10	10	10	170	31	xtq	18167157533	1	2020-05-17 01:20:39	0
10	10	10	170	33	xtq	18167157533	1	2020-05-19 01:34:50	0
1	1	1	17	35	xtq	18167157533	1	2020-05-19 10:49:36	0
1	1	1	17	36	xtq	18167157533	1	2020-05-19 10:49:41	0
1	1	1	17	37	xtq	18167157533	1	2020-05-19 10:49:45	0
1	1	1	17	38	xtq	18167157533	1	2020-05-19 10:49:51	0
1	1	1	17	39	xtq	18167157533	1	2020-05-19 10:49:54	0

**Delete Order Now**

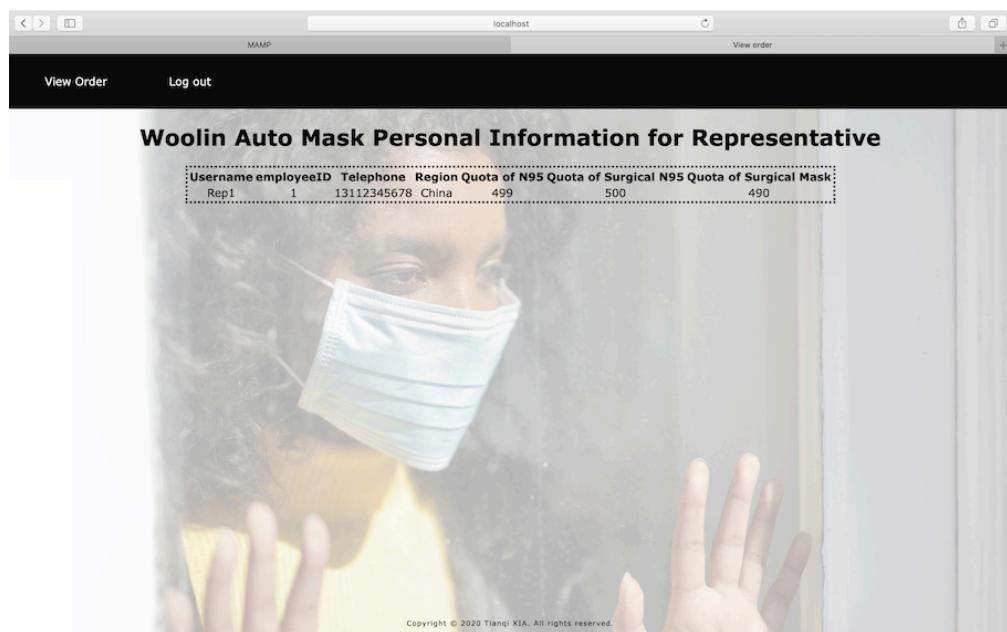
- After click on “Delete Order Now”, it will turn to representative delete order page. you can enter one Ordering ID belong to you to delete the order. (Please be careful, you can only delete the order of yourself, you can only delete the order when exceeding your quota(excess = 1) and you can only delete order within 24 hours) If 24 hours past after user place an order, the order is considered as completed. You cannot make changes after that. If you delete order successfully, the website will alert “You delete the order successfully”, otherwise it will show what’s wrong with your input. (Maybe you enter a wrong ordering ID which not belong to you, enter a letter or want to delete the order after 24 hours). You can “log out” the account, view your order or view your personal information to check quota anytime.

**Correct Delete data:** e.g the order user just place and exceeds quota(if you want to test this function, you need to create an order exceeds quota, and delete it within 24 hours)

Wrong delete data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.



4. if you click “View Info”, it will turn to your personal information page, you can check you employee ID, region, quota for each type of mask, etc. If manager edit your quota, when you login the system, you can find it immediately. (if you made some change on the quota, the statistic may not be the same as I shown in the screenshot)



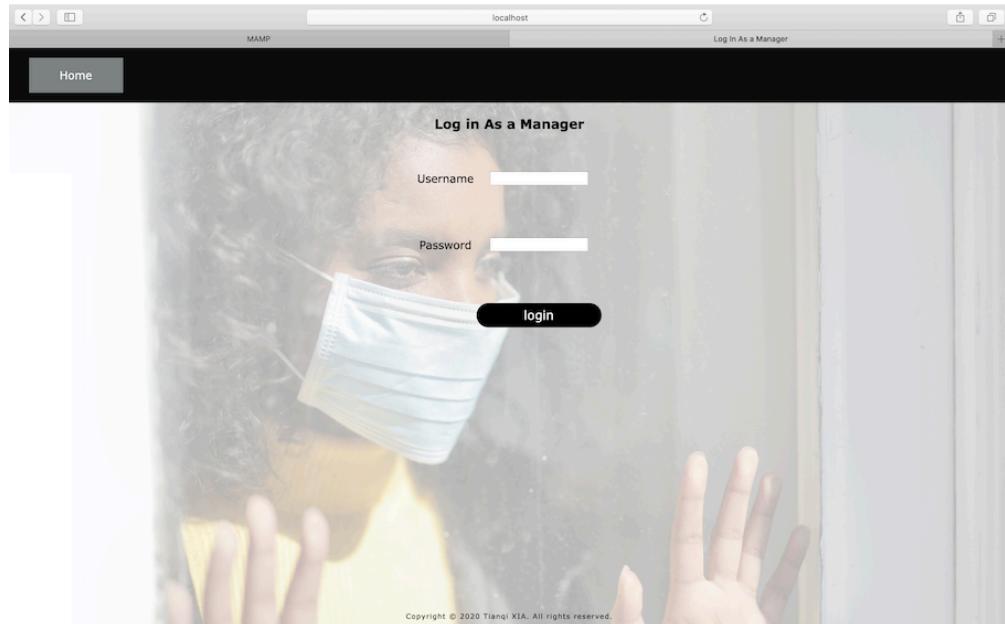
5. above all is all the functionalities for representatives, you can login, check your order, delete order if exceeds your quota and within 24 hours, check your personal information (especially quota). You can change to each functionality anytime by click on the top navigation bar. If you do not login, you cannot go

through this functionality.

6. Then you can click on “logout” in navigation bar to check other users. If you click on “logout”, the website will go back to the home page.

## Functionality for Manager

1. “Logout” the rep, and go back to home page again. Click on “Manager” button. You need to fill in the “Username” and “Password” as I stored in my database. For example, username: **manager1**, password: **000000**. After entering this correctly, click on “login”, you will go to View Order by Employee page. Otherwise, the website will tell you what’s wrong with the input and you need to reenter again.



2. after login, you will go to view order by Employee page “Order(Rep)”. As a manager, you can check how many masks have been sold by each rep, the overall masks have been sold, the total amount for each rep and total amount. There are eight choices on horizontal navigation bar: “Assign Rep”, “Order(Region)”, “Order(User)”, “Under Ordering”, “All Order”, “Change Quota”, “Rep Info”, “Log out”, you can click one of them to view different table and they have different functionalities. (if you made some change on the order, the statistic may not be the same as I shown in the screenshot)

**Woolin Auto Mask Ordering Chart-View for Manager**

View the Order by Employee

	N95	Surgical	Mask	Surgical	N95	Total Amount(\$)	Region
EmployeeID 1	25	25	25	425		425	China
EmployeeID 2	172	172	172	2924		2924	China
EmployeeID 3	3	3	3	51		51	UK
EmployeeID 4	4	4	4	68		68	UK
EmployeeID 5	5	5	5	85		85	USA
EmployeeID 6	5	5	5	85		85	USA
EmployeeID 7	11	11	11	187		187	Japan
EmployeeID 8	10	5	5	110		110	Japan
<b>Over All</b>	<b>235</b>	<b>230</b>	<b>230</b>	<b>3935</b>			

Copyright © 2020 Tianqi XIA. All rights reserved.

- if you choose “**Assign Rep**”, you can change the rep from one region to another. (for example, if you find the selling business is quite busy in USA, but lack reps in USA, you can assign rep from China to USA). In this functionality, you need to enter the employee ID you want to change region and enter the specific region you want him/she change to. Click on “submit”, if you change the region successfully, the website will alert “Change region successfully!”, otherwise you need to reenter again.

#### Correct Assign data: 1; USA

Wrong Assign data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.

**Woolin Auto Mask Representative Region Change**

please choose one employeeID you want to change region.

Please enter the employeeID you want to change

Please choose one region you want to change  China

**Submit**

Copyright © 2020 Tianqi XIA. All rights reserved.

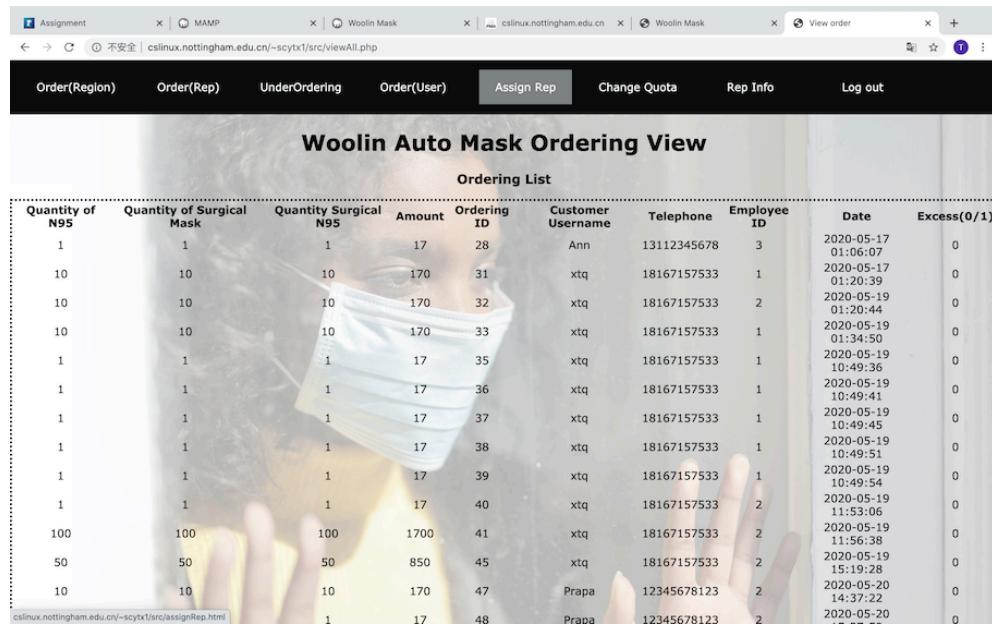
- if you click on “**Order(Region)**”, you can check how many masks have been sold in each region, the overall masks have been sold, the total amount in each region and total amount. (if you made some change on the order, the statistic may not be the same as I shown in the screenshot)

The screenshot shows a web application interface titled "Woolin Auto Mask Ordering Chart-View for Manager". At the top, there are several tabs: "Assignment", "MAMP", "Woolin Mask", "cslinux.nottingham.edu.cn", "Woolin Mask", and "View order in Region". Below the tabs is a navigation bar with links: "Assign Rep", "Order(Rep)", "Order(User)", "UnderOrdering", "All Order", "Change Quota", "Rep Info", and "Log out". The main content area features a heading "Woolin Auto Mask Ordering Chart-View for Manager" and a sub-heading "View the Order in Region". Below this is a table with the following data:

	N95	Surgical	Mask	Surgical	N95	Total Amount(\$)
<b>China</b>	197	197		197		3349
<b>UK</b>	7	7		7		119
<b>USA</b>	10	10		10		170
<b>Japan</b>	21	16		16		297
<b>Over All</b>	235	230		230		3935

At the bottom of the page, there is a copyright notice: "Copyright © 2020 Tianqi XIA. All rights reserved."

- if you click on “**All Order**”, you can check all the order in the past weeks, which means you can see who place the order, who receive the order, if the order is anomaly or not, the basic information of user. If you find the order is anomaly, which means it has not been handled by user or rep, you can delete the order as well. Be careful, you can only delete order when exceeding quota and within 24 hours. You just need to click on “**Delete Order Now**” button below. (the screenshot can only show part of order). (if you made some change on the order, the statistic may not be the same as I shown in the screenshot)



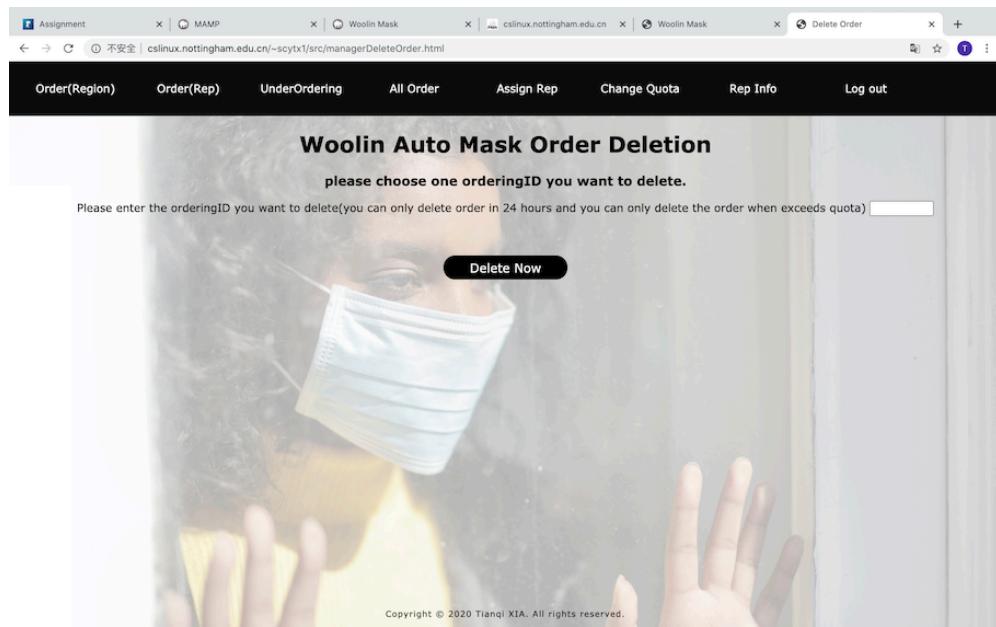
The screenshot shows a web application titled "Woolin Auto Mask Ordering View". The main content is a table titled "Ordering List" with the following columns: Quantity of N95, Quantity of Surgical Mask, Quantity Surgical N95, Amount, Ordering ID, Customer Username, Telephone, Employee ID, Date, and Excess(0/1). The table contains 14 rows of data, each representing an order placed by different users (Ann, xtq, Prapa) on various dates between May 17, 2020, and May 20, 2020. The "Excess(0/1)" column shows values like 0, 0, 0, etc., indicating no excess quota usage.

Quantity of N95	Quantity of Surgical Mask	Quantity Surgical N95	Amount	Ordering ID	Customer Username	Telephone	Employee ID	Date	Excess(0/1)
1	1	1	17	28	Ann	13112345678	3	2020-05-17 01:06:07	0
10	10	10	170	31	xtq	18167157533	1	2020-05-17 01:20:39	0
10	10	10	170	32	xtq	18167157533	2	2020-05-19 01:20:44	0
10	10	10	170	33	xtq	18167157533	1	2020-05-19 01:34:50	0
1	1	1	17	35	xtq	18167157533	1	2020-05-19 10:49:36	0
1	1	1	17	36	xtq	18167157533	1	2020-05-19 10:49:41	0
1	1	1	17	37	xtq	18167157533	1	2020-05-19 10:49:45	0
1	1	1	17	38	xtq	18167157533	1	2020-05-19 10:49:51	0
1	1	1	17	39	xtq	18167157533	1	2020-05-19 10:49:54	0
1	1	1	17	40	xtq	18167157533	2	2020-05-19 11:53:06	0
100	100	100	1700	41	xtq	18167157533	2	2020-05-19 11:56:38	0
50	50	50	850	45	xtq	18167157533	2	2020-05-19 15:19:28	0
10	10	10	170	47	Prapa	12345678123	2	2020-05-20 14:37:22	0
			1	48	Prapa	12345678123	2	2020-05-20	0

6. after click on “Delete Order Now” button, you can enter one Ordering ID you want to delete the order. Please be careful, you can only delete the order when exceeding quota and you can only delete order in 24 hours. If 24 hours past after user place an order, the order is considered as completed. You cannot make changes after that. If you delete order successfully, the website will alert “You delete the order successfully”, otherwise it will show what’s wrong with your input. (Maybe you enter a wrong ordering ID, enter a letter or want to delete the order after 24 hours).

**Correct Delete data:** e.g the order user just place and exceeds quota(if you want to test this function, you need to create an order exceeds quota, and delete it within 24 hours)

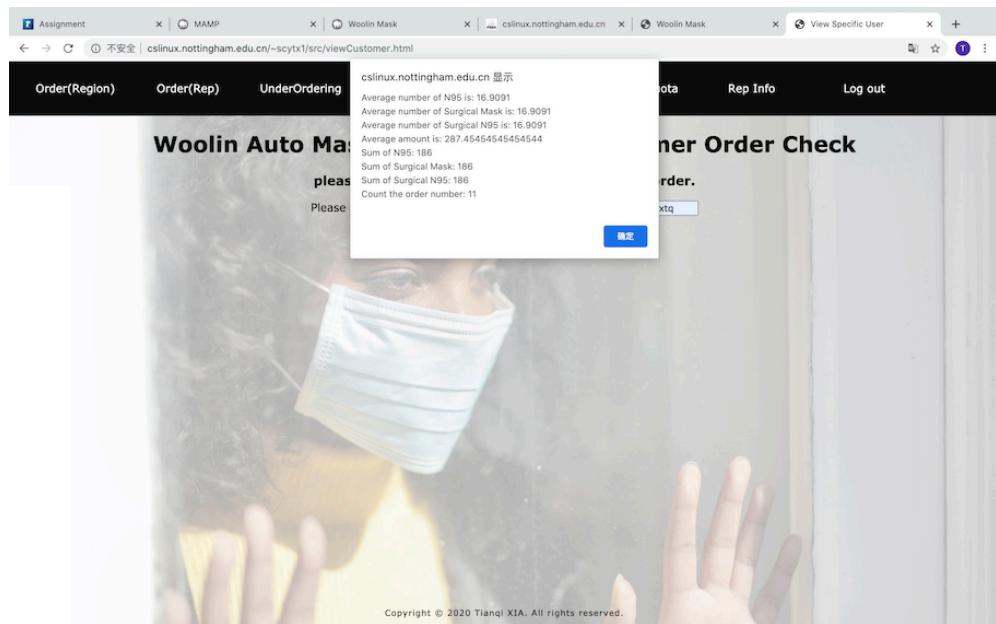
Wrong Delete data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.



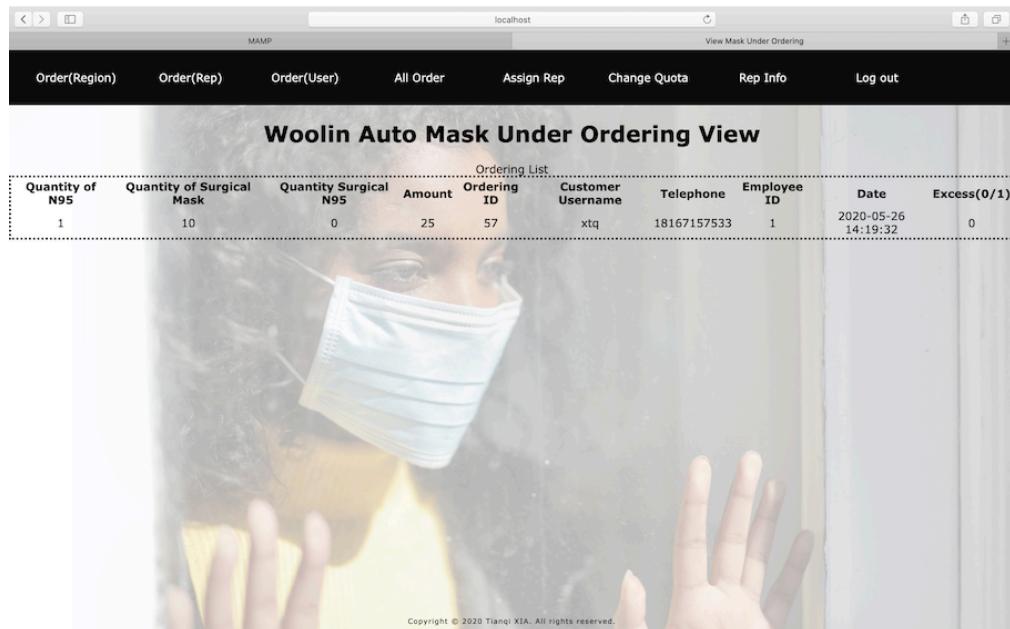
7. if you click on “**Order(User)**”, you can check the order for specific user, for example, if you want to check the order for “xtq”, just type xtq in the blank, the website will get output as I shown below. You can check the average number of each type of mask xtq buy in each order, sum of the mask in all the order, total amount, and count the order for the specific user(xtq). Please be careful, you can only enter the username as I shown in the all order table (in the previous slide). If you type the name which is not in the ordering table, the website will alert you “The name you enter does not exist.” (if you made some change on the order, the statistic may not be the same as I shown in the screenshot)

**Correct username data:** xtq

Wrong username data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.



- if you click on “Under Ordering”, you can view all the legal order within 24 hours (order doesn’t exceed rep’s quota), user can still make change on it. (I made this screenshot on May 23th, so up to now there may be no order under ordering)



- if you click on “Rep Info”, you can check all the rep’s information, for example, quota for each type of mask and other information. Here if you find some rep’s quota is not enough, you can go to “Change Quota” page to add more quota. (if you made some change on the quota, the statistic may not be the same as I shown in the screenshot)

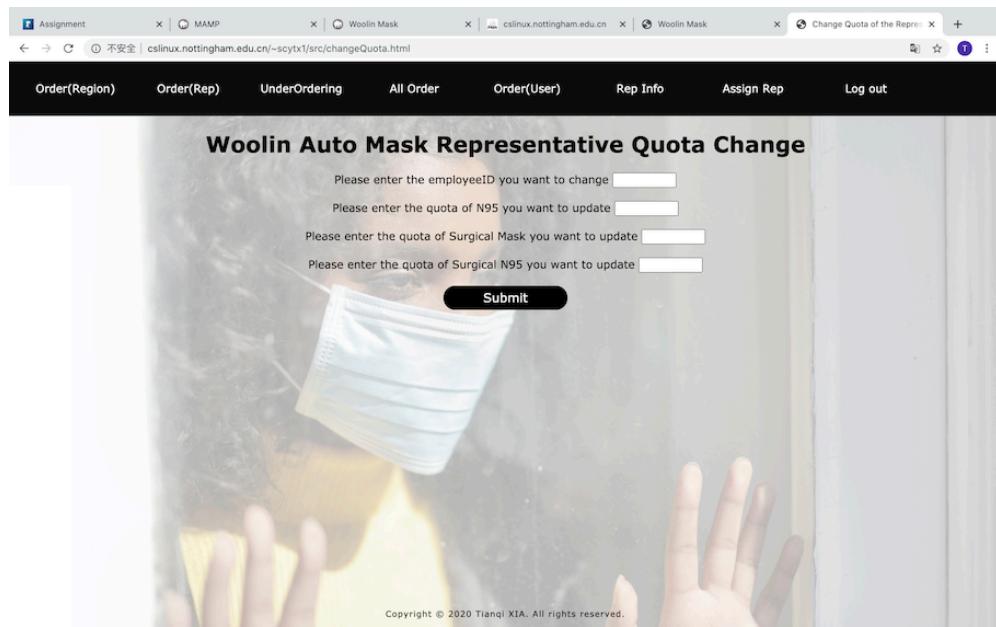
**Woolin Auto Mask Personal Information for Representative**

Username	employeeID	Telephone	Region	Quota of N95	Quota of Surgical	Quota of Surgical Mask
Rep1	1	13112345678	China	395	395	395
Rep2	2	13112345679	China	89	89	89
Rep3	3	13112345670	UK	50	50	50
Rep4	4	13312345670	UK	66	36	36
Rep5	5	13312345678	USA	195	195	195
Rep6	6	15112345678	USA	195	195	195
Rep7	7	17012345678	Japan	489	489	489
Rep8	8	18012345678	Japan	90	95	95

10. if you click on “**Change Quota**”, for example, when you view all the order or rep's information in the previous slide, you find some rep's quota is not enough to sell in that region, you can update the quota for the specific rep. you need to enter the employee ID of that rep, the number of N95, Surgical, Surgical N95 you want to update. Click on “submit”. If you update the quota successfully, the website will alert “Update quota successfully!”, otherwise it will show what's wrong with your input. Maybe you enter a wrong employee ID or enter a letter in the last three blanks. (if you made some change on the quota, the statistic may not be the same as I shown in the screenshot)

**Correct change quota data:** 1; 500; 500; 500

Wrong Change quota data: you can go to my “TestData.pdf” to check the wrong data and the reason why invalid.



11. above all is all the functionalities for manager, you can login, assign rep, delete order if exceeds quota and within 24 hours, change quota of rep, check rep's information, all the orders' information, under ordering order's information, order searched by employee, order searched by region, order searched by users, and log out. You can change to each functionality anytime by click on the top navigation bar. If you do not login, you cannot go through this functionality.
12. Then you can click on "logout" in navigation bar to check other users. If you click on "logout", the website will go back to the home page.

#### e. What external libraries are used?

1. I use Ajax and jQuery to pass value between html, php and js.