

Woolin Auto SMS Reference

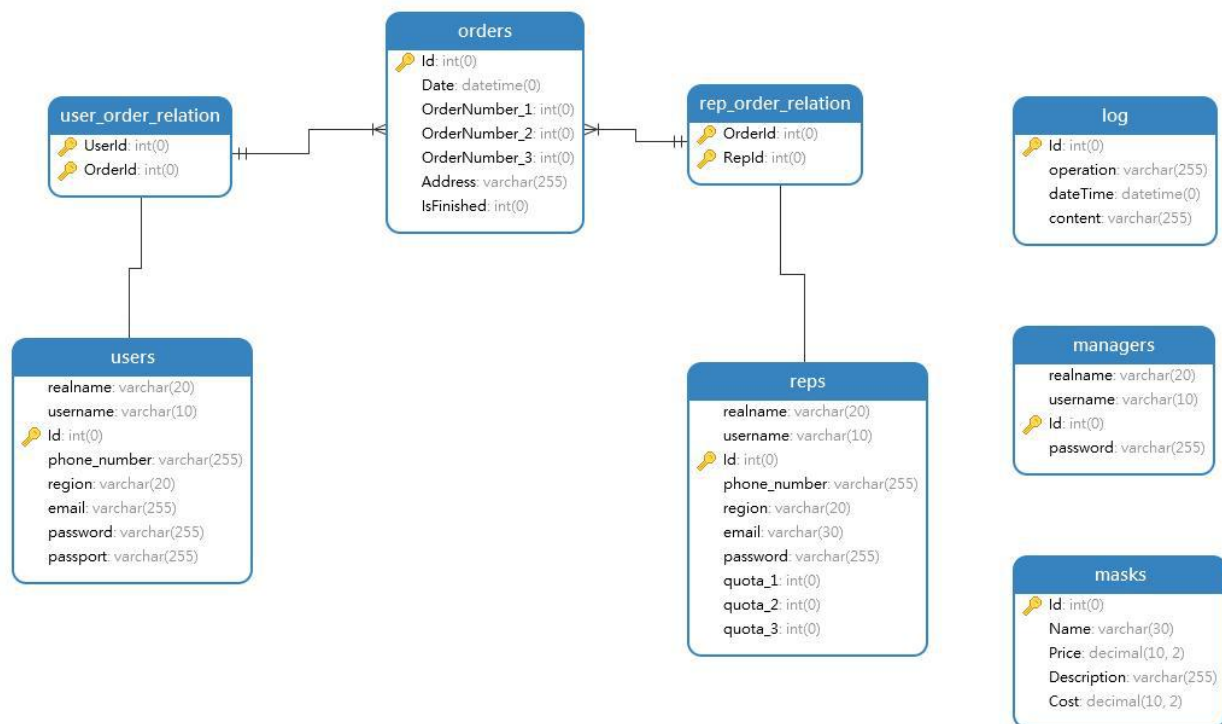
Yedi Hu

MySQL Database Structure

Woolin Auto SMS database containing 8 tables:

1. users: used to store customer information, including username and password (MD5 encryption).
2. reps: used to store sale representative information, including username and password (MD5 encryption).
3. Manager: used to store manager username, password (MD5 encryption) and real name. Only containing one row.
4. Orders: used to store order information.
5. Log: used to store log, log only has two types: application and abnormal operation.
6. Rep_order_relation: used to store mapping relation between reps and orders.
7. User_order_relation: used to store mapping relation between users and orders.

ER diagram



User_order_relation and rep_order_relation depends on the order table which means if the order is deleted, then the relation cannot exist.

Log managers and masks are independent database that has no relation with other tables.

Create Table SQL

```
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
```

```
SET time_zone = "+00:00";
```

```
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
```

```
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS  
*/;
```

```
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
```

```
/*!40101 SET NAMES utf8mb4 */;
```

```
--
```

```
-- Database: `scyyh4`
```

```
--
```

```
-- -----
```

```
--
```

```
--
```

```
CREATE TABLE IF NOT EXISTS `log` (
```

```
  `Id` int(11) NOT NULL,
```

```
  `operation` varchar(255) COLLATE utf8mb4_bin NOT NULL,
```

```
  `dateTime` datetime NOT NULL,
```

```
  `IsNormal` int(11) NOT NULL
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin  
ROW_FORMAT=DYNAMIC;
```

```
-- -----
```

```
--
```

```
--
```

```
CREATE TABLE IF NOT EXISTS `managers` (  
  `realname` varchar(20) COLLATE utf8mb4_bin NOT NULL,  
  `username` varchar(10) COLLATE utf8mb4_bin NOT NULL,  
  `Id` int(11) NOT NULL,  
  `password` varchar(255) COLLATE utf8mb4_bin NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin  
ROW_FORMAT=DYNAMIC;
```

```
-- -----
```

```
--
```

```
--
```

```
CREATE TABLE IF NOT EXISTS `masks` (  
  `Id` int(11) NOT NULL,  
  `Name` varchar(30) COLLATE utf8mb4_bin NOT NULL,  
  `Price` decimal(10,2) NOT NULL COMMENT 'dollar',  
  `Description` varchar(255) COLLATE utf8mb4_bin NOT NULL,
```

```
`Cost` decimal(10,2) NOT NULL COMMENT 'dollar'

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin
ROW_FORMAT=DYNAMIC;
```

--

--

```
CREATE TABLE IF NOT EXISTS `orders` (

  `Id` int(11) NOT NULL,

  `Date` datetime NOT NULL,

  `OrderNumber_1` int(11) NOT NULL,

  `OrderNumber_2` int(11) NOT NULL,

  `OrderNumber_3` int(11) NOT NULL,

  `Address` varchar(255) COLLATE utf8mb4_bin NOT NULL,

  `IsFinished` int(11) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin
ROW_FORMAT=DYNAMIC;
```

--

--

```
CREATE TABLE IF NOT EXISTS `reps` (
```

```
`realname` varchar(20) COLLATE utf8mb4_bin NOT NULL,  
`username` varchar(10) COLLATE utf8mb4_bin NOT NULL,  
`Id` int(11) NOT NULL,  
`phone_number` varchar(255) COLLATE utf8mb4_bin NOT NULL,  
`region` varchar(20) COLLATE utf8mb4_bin NOT NULL,  
`email` varchar(30) COLLATE utf8mb4_bin NOT NULL,  
`password` varchar(255) COLLATE utf8mb4_bin NOT NULL,  
`quota_1` int(11) NOT NULL,  
`quota_2` int(11) NOT NULL,  
`quota_3` int(11) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin  
ROW_FORMAT=DYNAMIC;
```

--

--

```
CREATE TABLE IF NOT EXISTS `rep_order_relation` (  
  `OrderId` int(11) NOT NULL,  
  `RepId` int(11) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin  
ROW_FORMAT=DYNAMIC;
```

--

--

```
CREATE TABLE IF NOT EXISTS `users` (  
  `realname` varchar(20) COLLATE utf8mb4_bin NOT NULL,  
  `username` varchar(10) COLLATE utf8mb4_bin NOT NULL,  
  `Id` int(11) NOT NULL,  
  `phone_number` varchar(255) COLLATE utf8mb4_bin NOT NULL,  
  `region` varchar(20) COLLATE utf8mb4_bin NOT NULL,  
  `email` varchar(255) COLLATE utf8mb4_bin NOT NULL,  
  `password` varchar(255) COLLATE utf8mb4_bin NOT NULL,  
  `passport` varchar(255) COLLATE utf8mb4_bin NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin  
ROW_FORMAT=DYNAMIC;
```

-- -----

--

--

```
CREATE TABLE IF NOT EXISTS `user_order_relation` (  
  `UserId` int(11) NOT NULL,  
  `OrderId` int(11) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_bin  
ROW_FORMAT=DYNAMIC;
```

```
--  
  
-- Indexes for dumped tables  
  
--  
  
--  
  
-- Indexes for table `log`  
  
--  
  
ALTER TABLE `log`  
  ADD PRIMARY KEY (`Id`) USING BTREE;  
  
--  
  
-- Indexes for table `managers`  
  
--  
  
ALTER TABLE `managers`  
  ADD PRIMARY KEY (`Id`) USING BTREE;  
  
--  
  
-- Indexes for table `masks`  
  
--  
  
ALTER TABLE `masks`  
  ADD PRIMARY KEY (`Id`) USING BTREE;  
  
--  
  
-- Indexes for table `orders`  
  
--
```



```
ALTER TABLE `orders`  
  ADD PRIMARY KEY (`Id`) USING BTREE;  
  
--  
-- Indexes for table `reps`  
--  
ALTER TABLE `reps`  
  ADD PRIMARY KEY (`Id`) USING BTREE;  
  
--  
-- Indexes for table `rep_order_relation`  
--  
ALTER TABLE `rep_order_relation`  
  ADD PRIMARY KEY (`OrderId`,`RepId`) USING BTREE,  
  ADD KEY `RepId` (`RepId`) USING BTREE;  
  
--  
-- Indexes for table `users`  
--  
ALTER TABLE `users`  
  ADD PRIMARY KEY (`Id`) USING BTREE;  
  
--  
-- Indexes for table `user_order_relation`  
--
```

```
ALTER TABLE `user_order_relation`  
  
  ADD PRIMARY KEY (`UserId`,`OrderId`) USING BTREE,  
  
  ADD KEY `fk_User_Order_Relation_Orders_1` (`OrderId`) USING BTREE,  
  
  ADD KEY `UserId` (`UserId`) USING BTREE;
```

```
--
```

```
-- AUTO_INCREMENT for dumped tables
```

```
--
```

```
--
```

```
-- AUTO_INCREMENT for table `masks`
```

```
--
```

```
ALTER TABLE `masks`
```

```
  MODIFY `Id` int(11) NOT NULL AUTO_INCREMENT;
```

```
--
```

```
-- AUTO_INCREMENT for table `orders`
```

```
--
```

```
ALTER TABLE `orders`
```

```
  MODIFY `Id` int(11) NOT NULL AUTO_INCREMENT;
```

```
--
```

```
-- AUTO_INCREMENT for table `reps`
```

```
--
```

```
ALTER TABLE `reps`
```

```
  MODIFY `Id` int(11) NOT NULL AUTO_INCREMENT;
```

```
--
```

```
-- AUTO_INCREMENT for table `users`
```

```
--
```

```
ALTER TABLE `users`
```

```
    MODIFY `Id` int(11) NOT NULL AUTO_INCREMENT;
```

```
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
```

```
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
```

```
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

Test Data (SQL for Data)

```
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
```

```
SET time_zone = "+00:00";
```

```
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
```

```
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
```

```
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
```

```
/*!40101 SET NAMES utf8mb4 */;
```

```
--
```

```
-- Database: `scyyh4`
```

```
--
```

```
--
```

```
--
```

```
INSERT INTO `managers` (`realname`, `username`, `Id`, `password`) VALUES  
('root', 'root', 1, '5d41402abc4b2a76b9719d911017c592');
```

```
--
```

```
--
```

```
INSERT INTO `masks` (`Id`, `Name`, `Price`, `Description`, `Cost`) VALUES  
(1, 'N95 respirators', 1.20, 'N95 respirators', 0.80),  
(2, 'Surgical masks', 0.80, 'Surgical masks', 0.50),  
(3, 'Surgical N95 respirators', 1.70, 'Surgical N95 respirators', 1.00);
```

```
--
```

```
--
```

```
INSERT INTO `orders` (`Id`, `Date`, `OrderNumber_1`, `OrderNumber_2`, `OrderNumber_3`,  
`Address`, `IsFinished`) VALUES  
(1, '2020-05-25 08:47:59', 50, 50, 50, 'NY', 1);
```

```
--  
--
```

```
INSERT INTO `reps` (`realname`, `username`, `Id`, `phone_number`, `region`, `email`,  
`password`, `quota_1`, `quota_2`, `quota_3`) VALUES  
('AU1R', 'AU1', 1, '17711771', 'Australia', 'AU@AU.COM',  
'476021aa0d4ed9664f70f634daf3b34f', 1950, 1950, 1950),  
('AU2R', 'AU2', 2, '17722772', 'Australia', 'AU@AU.COM',  
'ec19f1d4706157f921877cf22c7abcde', 30, 40, 50),  
('AM1', 'AM1', 3, '123123', 'United States', 'AM@AM.com',  
'73457a99d888ba3212977c59a189db06', 30, 2000, 30);
```

```
--  
--
```

```
INSERT INTO `rep_order_relation` (`OrderId`, `RepId`) VALUES  
(1, 1);
```

```
--  
--
```

```
INSERT INTO `users` (`realname`, `username`, `Id`, `phone_number`, `region`, `email`,  
`password`, `passport`) VALUES  
('John', 'test1', 1, '1331133', 'Australia', 'test@test.com', '098f6bcd4621d373cade4e832627b4f6',  
'X-15159000');
```

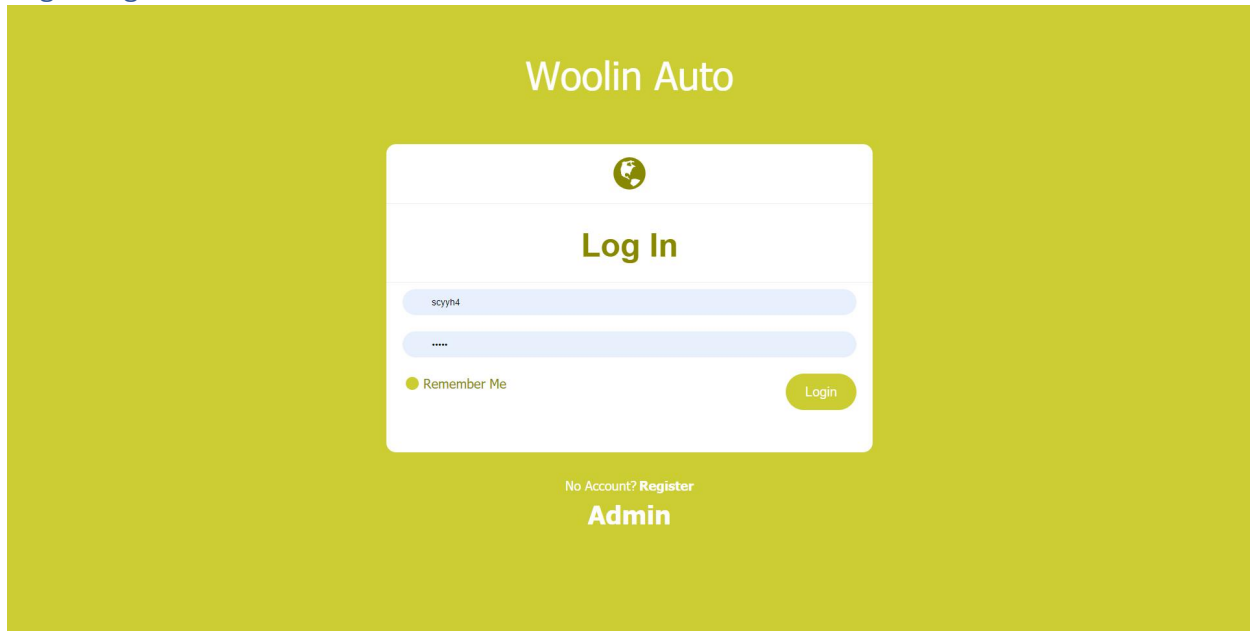
```
--  
--
```

```
INSERT INTO `user_order_relation` (`UserId`, `OrderId`) VALUES  
(1, 1);
```

```
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;  
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;  
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

Instruction

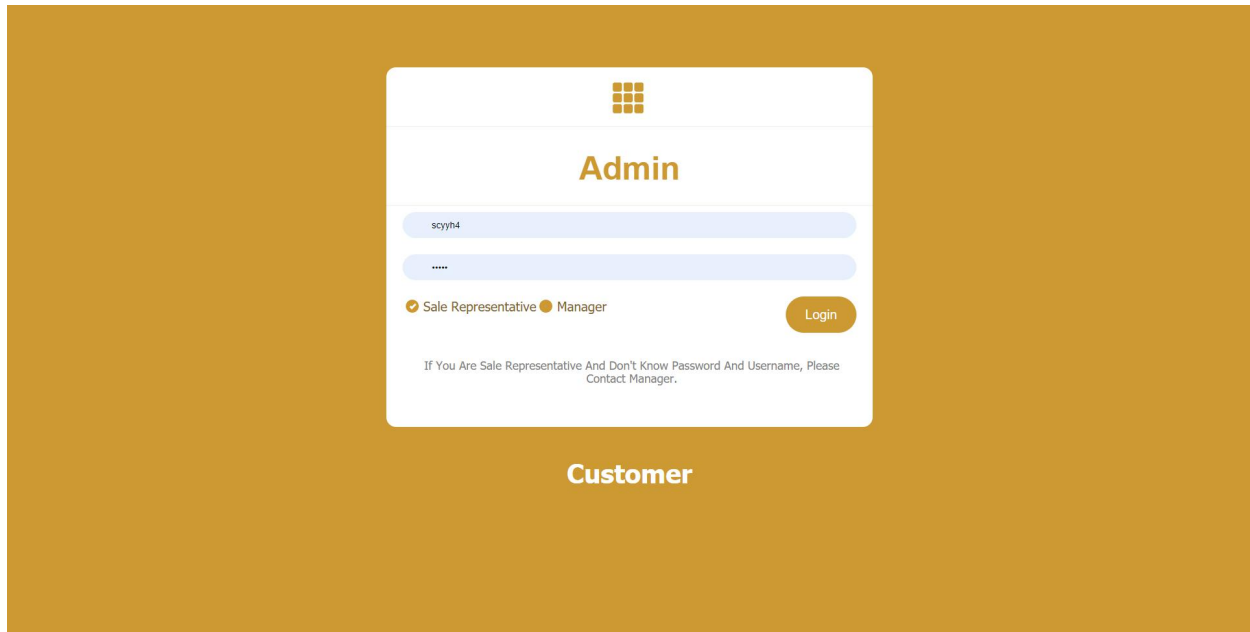
Login Page

The image shows a login page for 'Woolin Auto' with a green background. A white login form is centered, featuring a globe icon, the title 'Log In', a username field with 'scyyh4', a password field with masked characters, a 'Remember Me' checkbox, and a green 'Login' button. Below the form, there is a link 'No Account? Register' and a bold 'Admin' link.

In this page, user can sign in with customer username and password. If user wishes to auto sign in next time, he can click the 'Remember Me' button to save the account information.

If user do not have account, you can click the 'Register' to sign up.

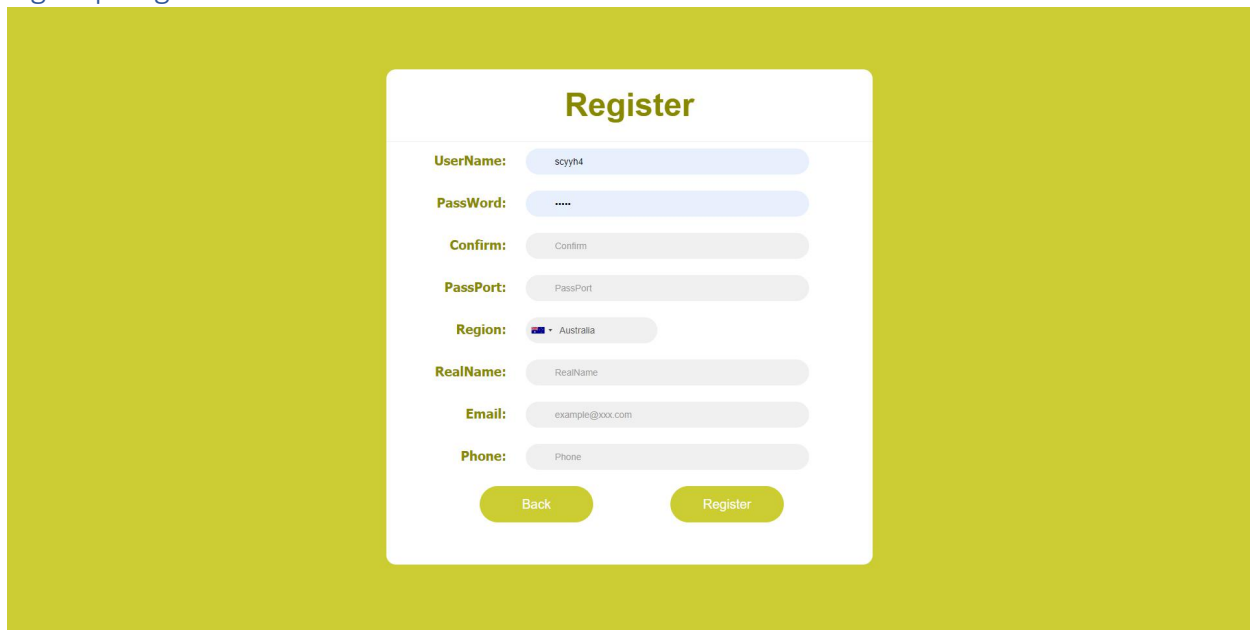
For admins, they cannot login in at this page. Admin need to turn to admin login page for this operation. To make it fast, there is an 'Admin' reference to that page (normally user cannot see anything about admin)



This is the page for admins to login in. Admin includes sale representative and manager. Sale representative account is created by manager, so this function is not available for anyone. Rep and manager need to choose their account type.

For security reason. This page does not have remember function and auto login function.

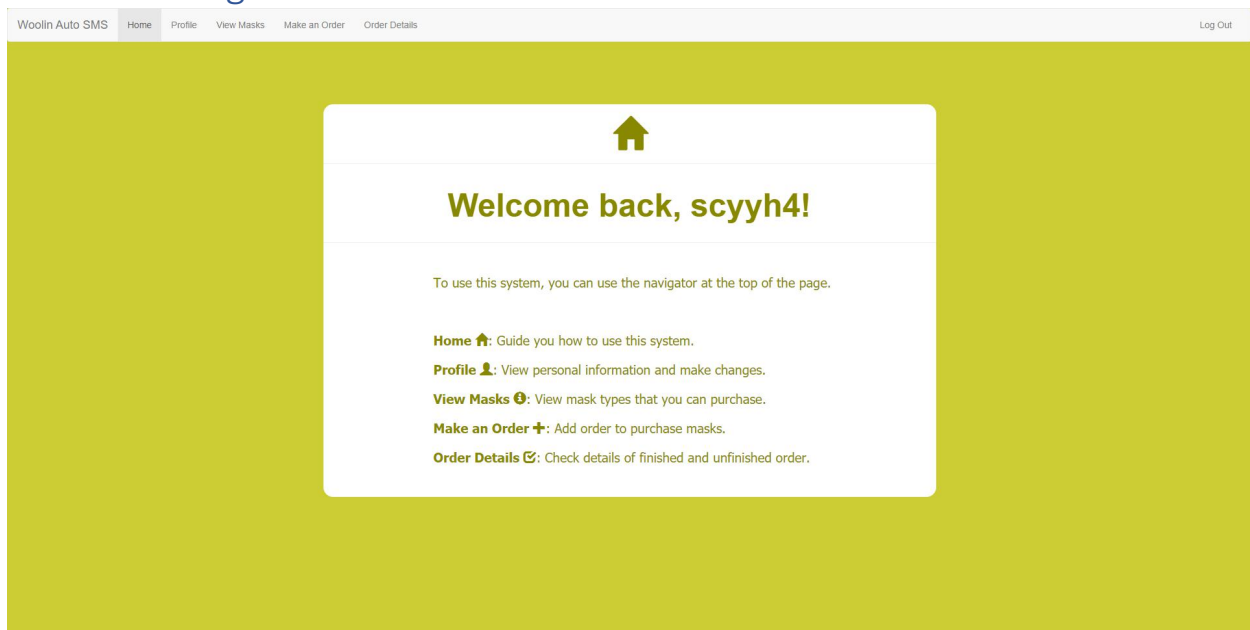
Sign Up Page



The image shows a 'Register' form centered on a solid green background. The form is a white card with a title 'Register' in bold green text. It contains several input fields: 'UserName' (with 'scyyh4'), 'PassWord' (with '****'), 'Confirm' (with 'Confirm'), 'PassPort' (with 'PassPort'), 'Region' (a dropdown menu showing 'Australia'), 'RealName' (with 'RealName'), 'Email' (with 'example@xxx.com'), and 'Phone' (with 'Phone'). At the bottom of the form are two green buttons: 'Back' and 'Register'.

Sign up page provide the function let anyone register their account to log in the system. In this page, customer does not need to choose reps. Reps decision are designed in the order section.

Customer Page



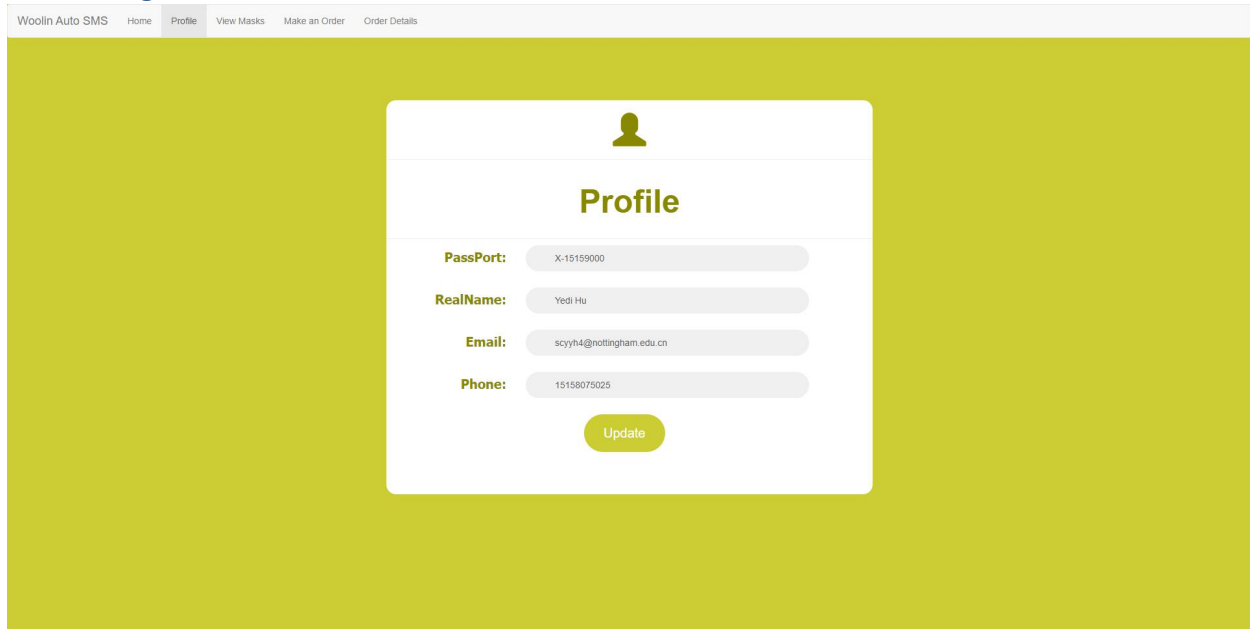
The image shows a customer's home page. At the top, there is a navigation bar with the text 'Woolin Auto SMS' and a 'Log Out' link. Below the navigation bar is a green header area. In the center of the page is a white card. The card has a home icon at the top, followed by the text 'Welcome back, scyyh4!'. Below this, there is a paragraph: 'To use this system, you can use the navigator at the top of the page.' Then, there is a list of links with icons: 'Home' (house icon), 'Profile' (person icon), 'View Masks' (mask icon), 'Make an Order' (plus icon), and 'Order Details' (checkmark icon). Each link has a short description of its function.

After Successfully signing in, user will be in the home page for customer. Different home page has different main color. So user can figure out which role (customer, sale rep and manager) he is.

Customer Page contains guidance for user to each functionality.

Need to be mentioned that switch operation is mainly completed by navigator at the top of the page.

Profile Page



The screenshot shows a web application interface with a top navigation bar and a main content area. The navigation bar includes links: Woolin Auto SMS, Home, Profile (highlighted), View Masks, Make an Order, and Order Details. The main content area has a green background. In the center is a white card titled 'Profile' with a user icon. Below the title, there are four input fields for user information: Passport (X-15159000), RealName (Yedi Hu), Email (scyyh4@nottingham.edu.cn), and Phone (15158075025). An 'Update' button is located at the bottom of the card.

Field	Value
PassPort:	X-15159000
RealName:	Yedi Hu
Email:	scyyh4@nottingham.edu.cn
Phone:	15158075025

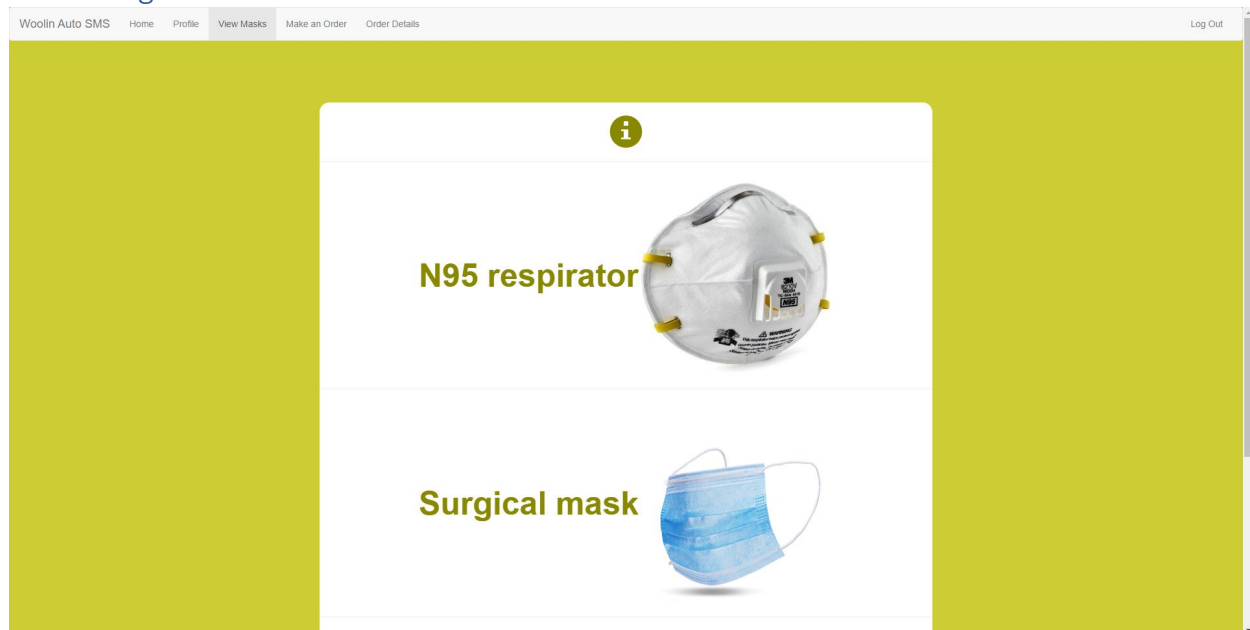
Update

When click profile in the navigator, it will redirect to the profile page.

This page allows user to modify some unnecessary information.

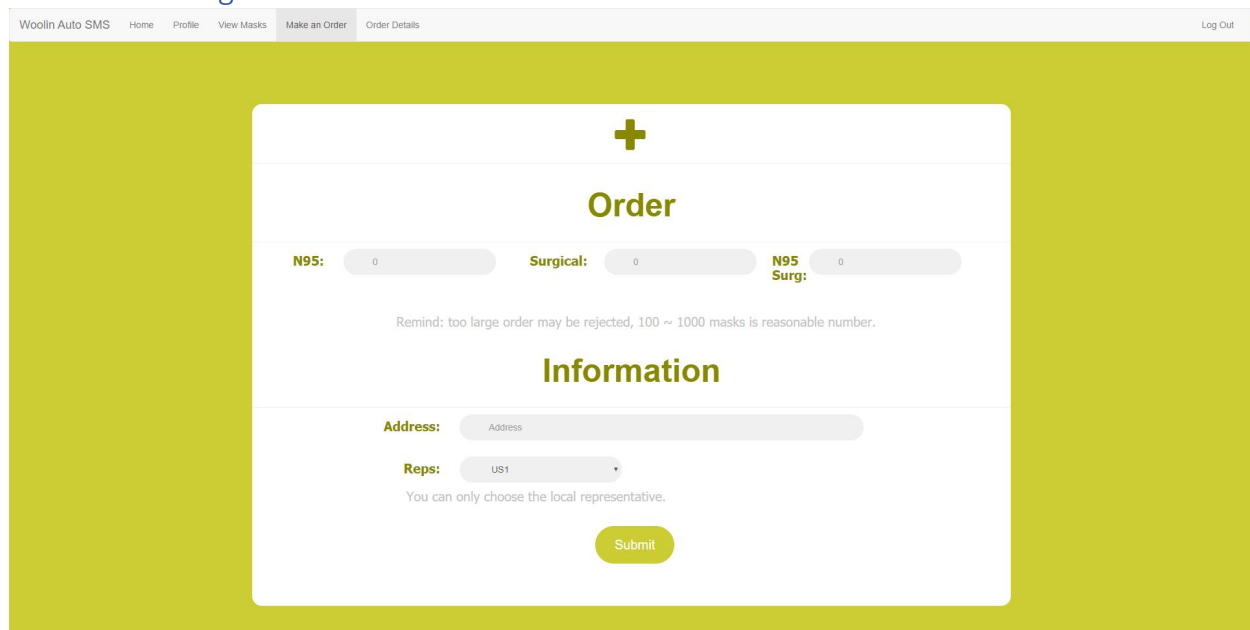
Original information will be got by accessing database therefore user does not need to re-enter his information.

Masks Page



Mask page is designed to show customer what goods (i.e. masks) are available in this SMS. Normally there will be description for each mask. Since there is no requirement for that, I just create 'description' in 'log' table but does not apply them to the page.

Make Order Page




Order page is divided in to three parts.

In the first part – order, you need to fulfill at least one kinds of masks. 0,0,0 and illegal input will lead to insertion failure and alert user.


In the second part, you need to choose your local representative, user need to write address and rep. Additionally, php part will pick up matching rep so user cannot choose wrong rep.

Details Page

Woolin Auto SMS	Home	Profile	View Masks	Make an Order	Order Details	Log Out
-----------------	------	---------	------------	---------------	---------------	---------

UnFinished

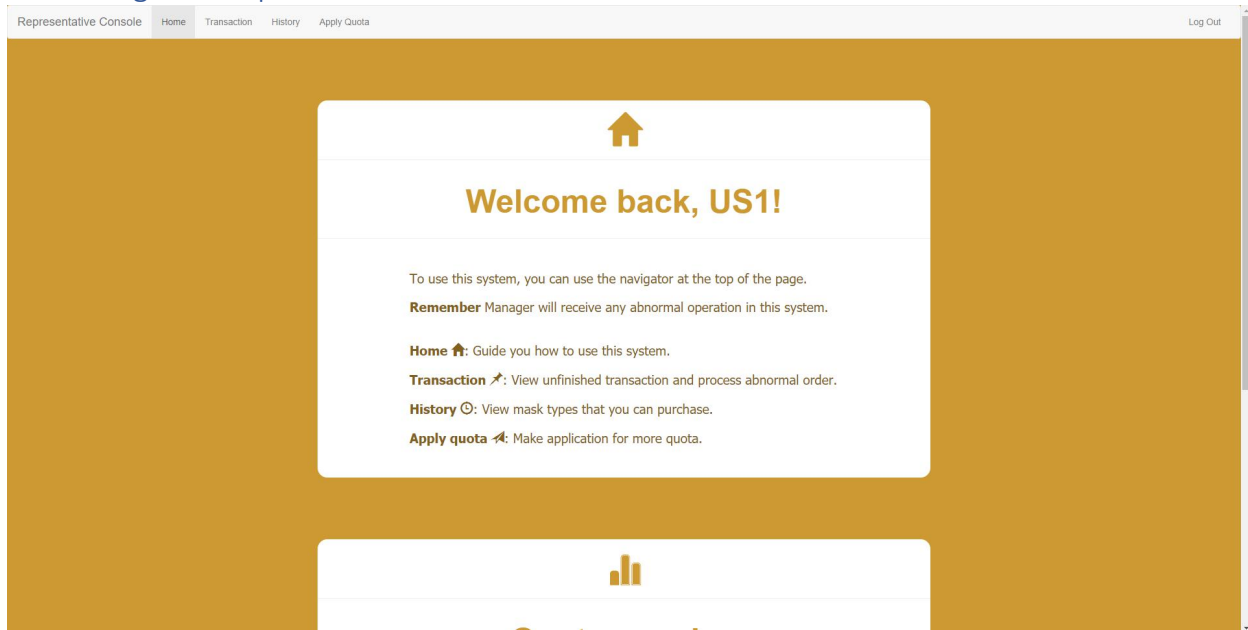
Order Id	Date	N95	Surgical	N95 Surgical	Address	Rep	Phone	Operation
17	2020-05-28 05:37:04	30	40	50	NY	US1	12300850	Delete
18	2020-05-28 05:53:10	22	30000	200000	haha city	US1	12300850	Delete

IsFinished

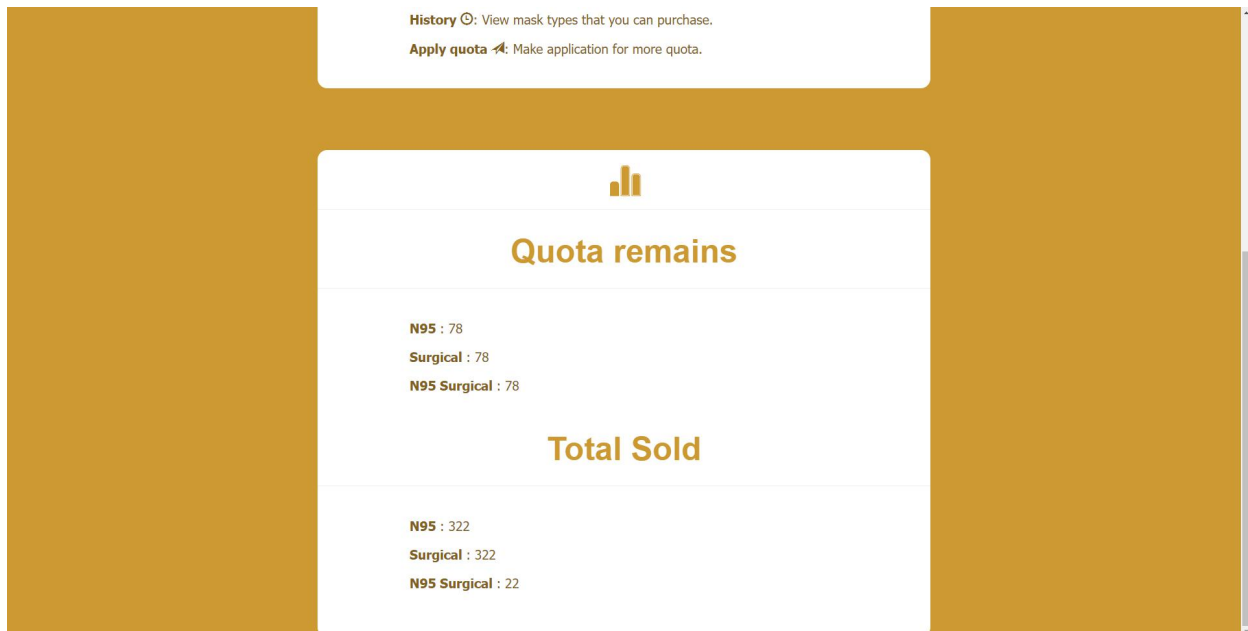
Order Id	Date	N95	Surgical	N95 Surgical	Address	Rep	Phone	Operation
5	2020-05-23 18:53:41	300	0	0	asdasd	US1	12300850	None
13	2020-05-26 00:37:16	22	22	22	haha city	US1	12300850	None

Details page will show user information about order and reps. Unfinished part is the order in 24 hours. User can delete these orders without any restriction. Finished Order is the order exceeding 24 hours, user cannot do anything except checking.

Home Page for Rep




After signing in through admin login page by choosing the rep, user will login in the rep home page. Guidance part is just like any other home page. However, there is a new section for reps.



A brief status will be shown to reps about how many quota they still have and how many masks they have been sold.

Transactions

[Representative Console](#) [Home](#) [Transaction](#) [History](#) [Apply Quota](#) [Log Out](#)



Transactions


Order Id	Date	N95 Respirator	Surgical Mask	N95 Surgical Respirator	Address	Customer	Operation
18	2020-05-28 05:53:10	22	30000	200000	haha city	scyyh4	Delete

You can only delete red color transaction (abnormal)
Unprocessed abnormal transaction exceeding 24 hours will be reported

Transaction page is where reps do their main work – check order in 24 hours. It needs to be mentioned that in this system., rep does not have the right to complete order, considering rep can choose some orders and make other orders illegal and removed without any reason.

History

[Representative Console](#) [Home](#) [Transaction](#) [History](#) [Apply Quota](#) [Log Out](#)



History

Order Id	Date	N95 Respirator	Surgical Mask	N95 Surgical Respirator	Address	Customer
8	2020-05-24 16:16:53	0	300	0	asdad	rs
10	2020-05-24 16:21:03	3	2	4	ffff	rs
11	2020-05-25 20:37:10	30	40	50	haha city	scyyh4
12	2020-05-26 00:37:06	30	40	50	haha city	scyyh4
13	2020-05-26 00:37:16	22	22	22	haha city	scyyh4
16	2020-05-27 00:00:36	2000	30000	200000	haha city	scyyh4


They are finished transaction. No operation available.

History page is to tell rep the situation of orders exceeding 24 hours. Normal and Anormal orders will be shown in different colors.

In this page, rep has no right to do anything.

Apply Quota

[Representative Console](#) [Home](#) [Transaction](#) [History](#) [Apply Quota](#) [Log Out](#)




Application

Number:

Reason:

This is an additional functionality for rep to contact manager. The application will be stored in the log as same as anormal warnings.

Home Page for Manager



Logs

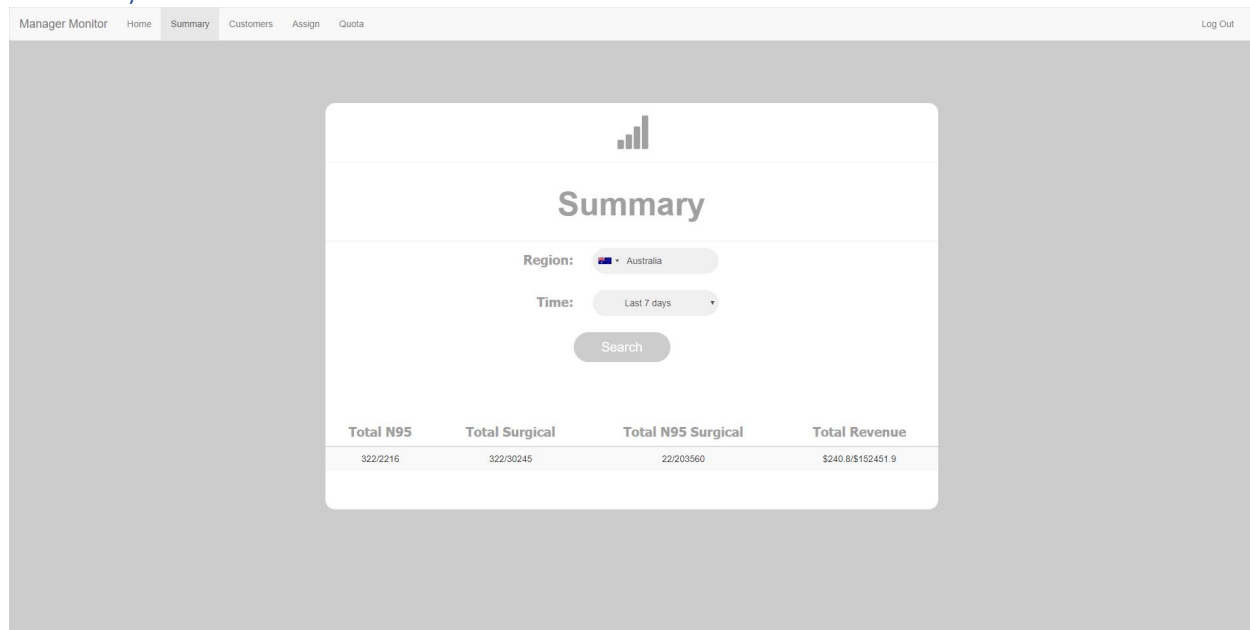
Operation	DateTime	Reason	
Anormal	2020-05-28 08:01:16	scyyh quota exceeded	IsRead
Anormal	2020-05-28 05:01:54	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 03:02:14	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 05:02:14	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 03:02:14	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 05:02:14	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 03:02:14	caused by exceeding order by 朝实打实的	IsRead
Anormal	2020-05-28 05:02:48	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 03:02:48	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 05:02:48	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 03:02:48	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 05:02:48	caused by exceeding order by 朝实打实的	IsRead
Anormal	2020-05-28 03:06:56	caused by exceeding order by Yedi Hu	IsRead
Anormal	2020-05-28 03:07:51	caused by exceeding order by Yedi Hu	IsRead

COMP1041-CW2-
Sales_management.pdf.a093b09fe1ae66c0513a96c-
72db9b33e-20200522023148465.pdf - WPS Office

The first part is just like others.

However, manager has logs section, there will be application and anormal operation(red). When manager read this log, he can use IsRead to delete.

Summary



Summary part show total statistics. Manager can set time condition and region condition to check multi summary results.

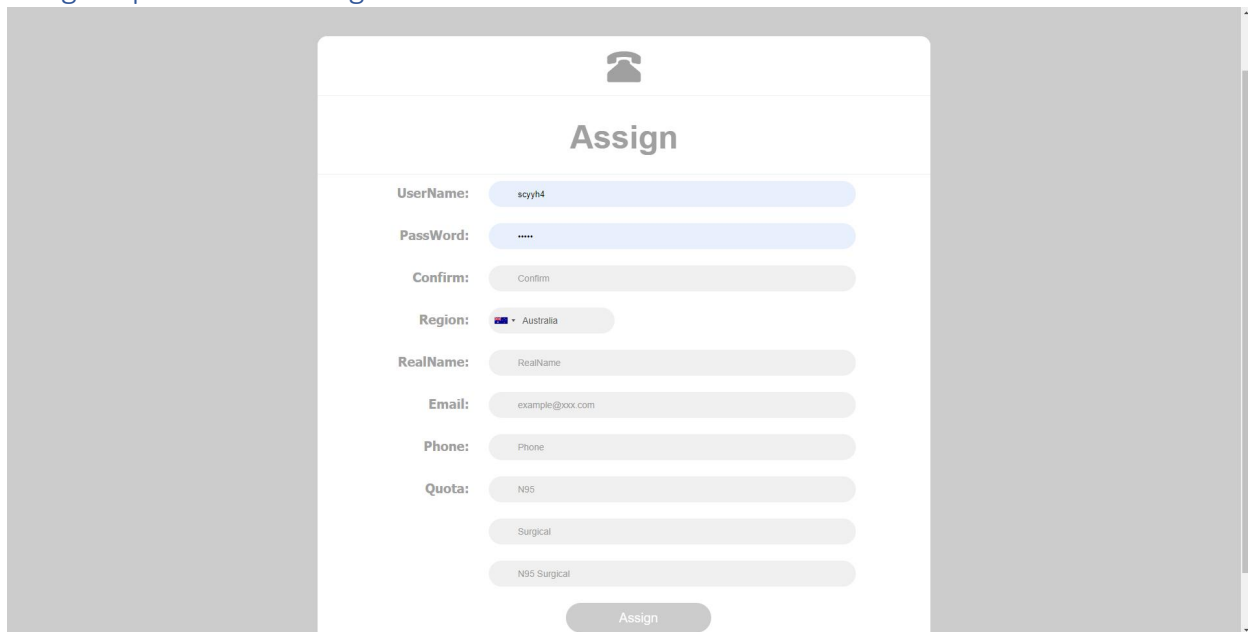
Customers & Representatives Page

The Customers & Representatives page displays a card with a user icon and the title 'Customers'. Below the title, there is a table with the following data:

UserName	N95	Surgical	N95 Surgical	Revenue from customer
Yedi Hu	2442	30182	203505	\$152484.9
372	3	302	4	\$94.6

These two pages show the summary information about customers and representatives.

Assign representative Page



The 'Assign' form is a white card with a rounded top and a phone icon at the top. It contains several input fields for user information. The 'UserName' field is pre-filled with 'scyh4'. The 'PassWord' field is masked with dots. The 'Confirm' field is labeled 'Confirm'. The 'Region' field is a dropdown menu showing 'Australia'. The 'RealName' field is labeled 'Realname'. The 'Email' field is pre-filled with 'example@xxx.com'. The 'Phone' field is labeled 'Phone'. The 'Quota' field is a dropdown menu with options 'N95', 'Surgical', and 'N95 Surgical'. An 'Assign' button is at the bottom.

Assign

UserName: scyh4

PassWord:

Confirm: Confirm

Region: Australia

RealName: Realname

Email: example@xxx.com

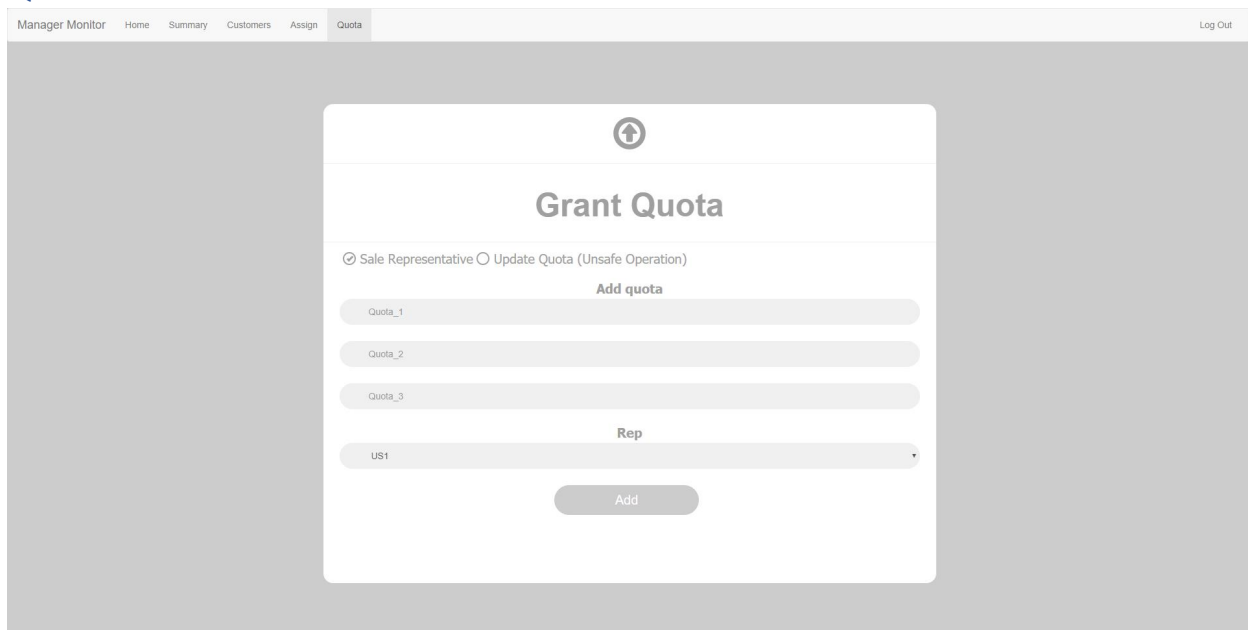
Phone: Phone

Quota: N95
Surgical
N95 Surgical

Assign

Representatives are all assigned by the manager so they can get their account only from manager. This page structure is very similar to the register but has quota input for manager to grant initial quota.

Quota



The 'Grant Quota' form is a white card with a rounded top and an upward arrow icon at the top. It has a navigation bar at the top with links: Manager Monitor, Home, Summary, Customers, Assign, and Quota. The 'Quota' link is active. The form has two radio buttons: 'Sale Representative' (checked) and 'Update Quota (Unsafe Operation)'. Below the radio buttons is an 'Add quota' section with three input fields labeled 'Quota_1', 'Quota_2', and 'Quota_3'. Below these is a 'Rep' dropdown menu showing 'US1'. An 'Add' button is at the bottom.

Grant Quota

☒ Sale Representative ☐ Update Quota (Unsafe Operation)

Add quota

Quota_1

Quota_2

Quota_3

Rep

US1

Add

This page provides two functions for manager to update quota for reps. One is adding, it can only add to the quota. The other is update, since update can be any value even below current quota, it

is a dangerous operation may cause unexpected result like making all orders of one rep anormal. Therefore, it is not recommended to use.

Possible Question

Q: Why there is no China?

A: This SMS is basically for none - China area, therefore it does not provide china service.

Q: Why validation is so simple?

A: Telephone and Passport format is different. Therefore, only empty validation for all and format validation for email.

Technical Details

1. Connection configuration is in the public connection.php at the root path.

```
<?php
//public connection
$conn = new mysqli('localhost', 'scyyh4', 'scyyh4', 'scyyh4');
if ($conn->connect_error){
    echo 'connection fails';
    exit(0);
}
```

2. Public update.php is the code to simulate time-based order state updating.

```
<?php
//This php used to update order finished stats.
require_once "public_conn.php";
//check each rep order
$sql_get_reps = "select id,quota_1,quota_2,quota_3,realname from reps";
$res_get_reps = $conn->query($sql_get_reps);
while($row = mysqli_fetch_array($res_get_reps)){
    $id = $row[0];
    $quota_1 = $row[1];
    $quota_2 = $row[2];
    $quota_3 = $row[3];
    //get order exceeding 24 hours
    $sql_get_order = " select o.Id,o.OrderNumber_1,o.OrderNumber_2,o.OrderNumber_3 from
user_order_relation as uo left join users as u on u.Id=uo.UserId left join orders as o on
o.Id=uo.OrderId left join rep_order_relation as ro on ro.OrderId = o.Id left join reps as r on
ro.RepId = r.Id where r.id = $id AND IsFinished = 0 AND
TimeSTAMPDIFF(hour,o.date,current_timestamp) > 24";
    $res_get_order = $conn->query($sql_get_order);
    if ($res_get_order->num_rows == 0){
        continue;
    }
    //process each order
    while ($row2 = mysqli_fetch_array($res_get_order)){
        $o_id = $row2[0];
        $quota_1 = $quota_1 - $row2[1];
        $quota_2 = $quota_2 - $row2[2];
        $quota_3 = $quota_3 - $row2[3];
    }
}
```



```

//Judge whether quota enough
if ($quota_1<0||$quota_2<0||$quota_3<0){
    $sql_update = "UPDATE orders SET IsFINISHED = 2 where id = $o_id";
    echo $sql_update;
    $conn->query($sql_update);
    $sql_commit_anormal = "insert into log (operation,content,datetime) value
('Anormal','caused by exceeding order by $row[4]',current_timestamp)";
    $conn->query($sql_commit_anormal);
}
else{
    $sql_update = "UPDATE orders SET IsFINISHED = 1 where id = $o_id";
    $conn->query($sql_update);
}
}
}
$sql_update = "UPDATE reps SET quota_1 = $quota_1,quota_2 = $quota_2,quota_3 = $quota_3
where id = $id";
$conn->query($sql_update);
}
?>

```

3. Logic for anormal order

To find anormal order, rep quota will be passed to a temp variable like t_quota, then t_quota will be deleted by quota of order alone time until it < 0. The remaining orders then will be considered as potential anormal orders.

External library

1. jQuery

To support country-select plugin, no use in original work.

2. Country-select plugin

Open source shared by Hai Lan in bootstrapmb.com

3. Bootstrap v3

Used to set layout and design complicated style.