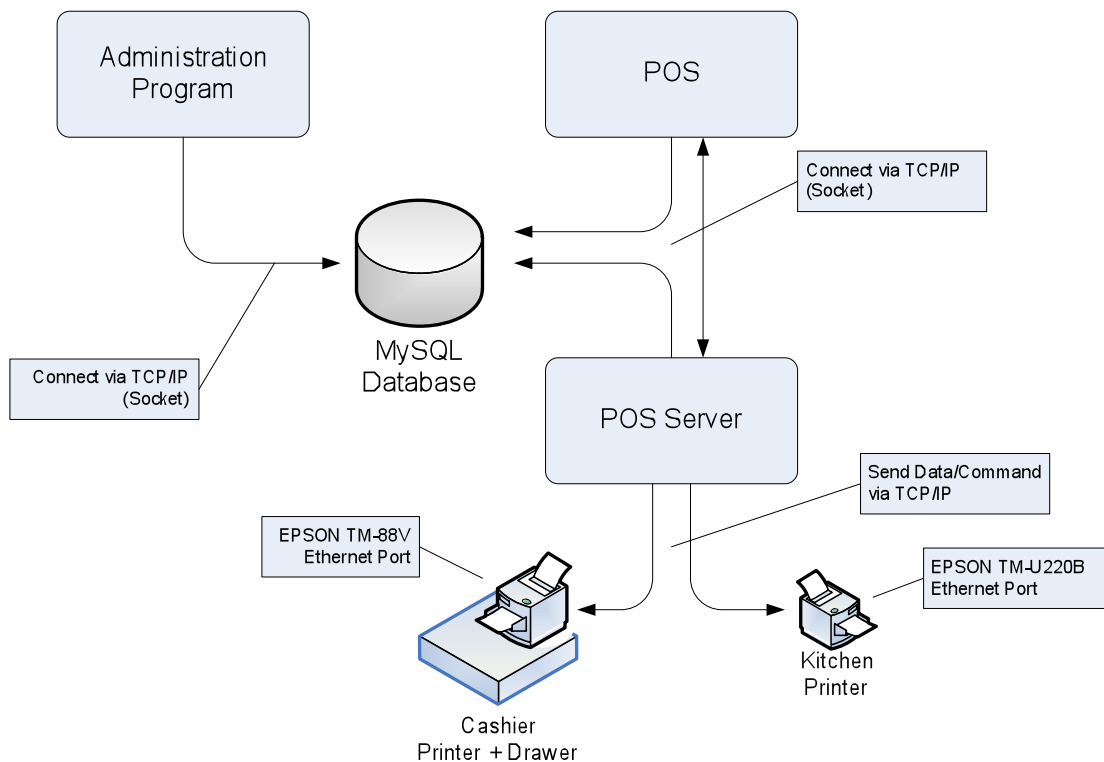# Restaurant POS Program

The program consists of 3 parts:

1. Administration Program
2. POS
3. POS Server

Administration Program is program to manage and maintain data like food menu, floor plan and user and so on.

**POS** is Point-Of-Sale program that working for server to receive order makes a payment and so on.

**POS Server** is the program to take care about printing.

The program all written in Java with SWING technology and can run on Windows, LINUX or Mac OS. Right now, I'm using EXE Compiler program to compile it to exe to protect my source from de-compiler program.

Administration Program

Login Screen:
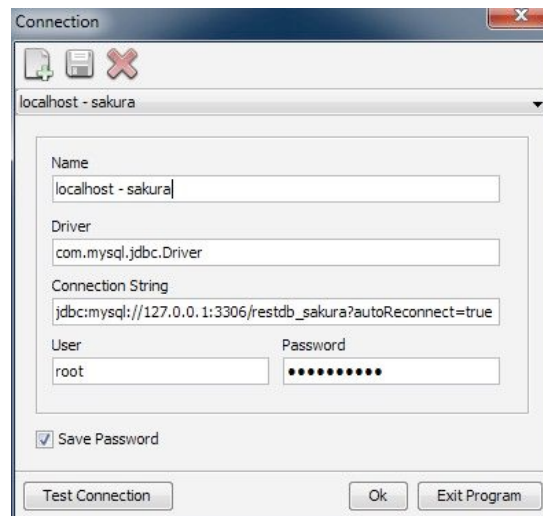
This screen will authenticate user through MySQL authentication, if you can login you can use the program. Parameters are setting by JDBC Connection String standard. You can create as many as database you want for examples one for testing and one for production.
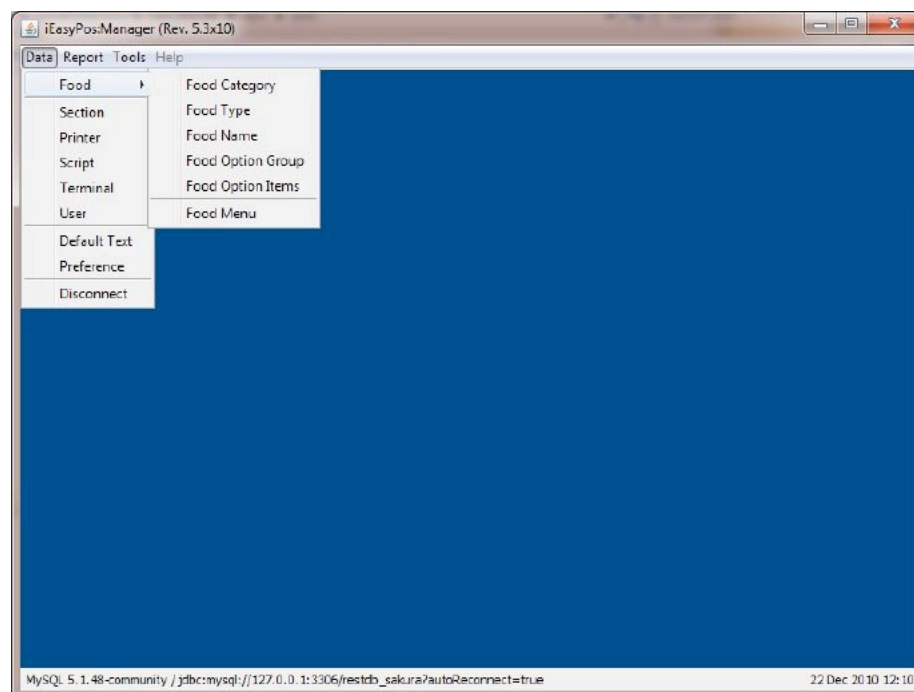
This is the screen when user first logged in to the program.

Food Menu Screen:
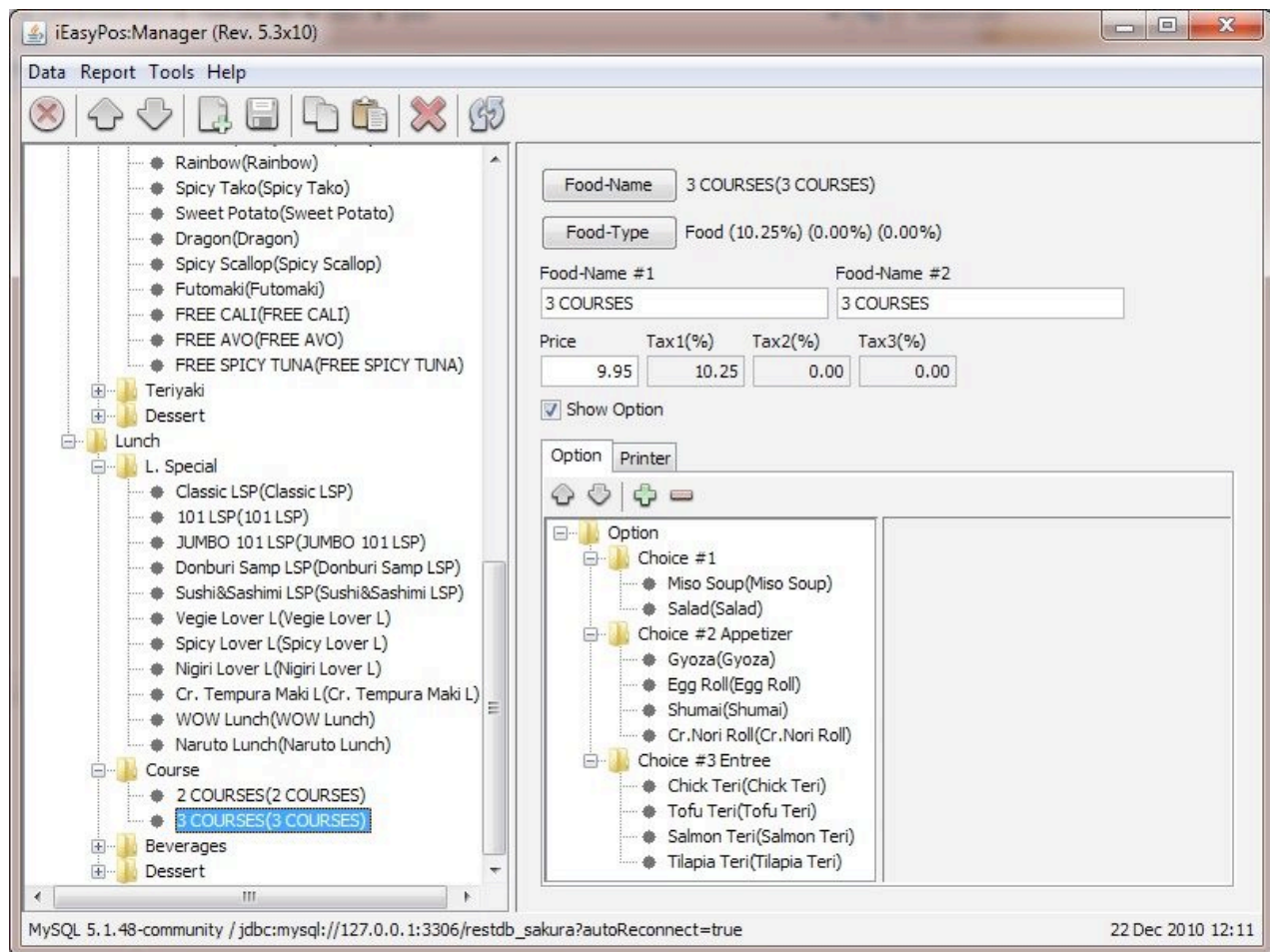
This screen is consolidated screen to create menu, menu organized in "Set" and "Category". Set is how we grouping menu reflect to time, so we usually use "Lunch", "Dinner" or "Breakfast" for Set. "Category" is group of menu by category of food for examples "Appetizer", "Soup", "Salad", "Entrée", "Beverage" or "Dessert". You can create literally as much as you need (Set, Category and Menu Item) in tree-styled.

When you click item on the left side (tree) the detail will show in the right pane, you can adjust value then click on diskette icon to save value. You can arrange sequence of menu or Set or Category by click on arrow button icons, the menu sequence will show in POS screen as it setting in this screen.

Floor Plan/Tables Screen:
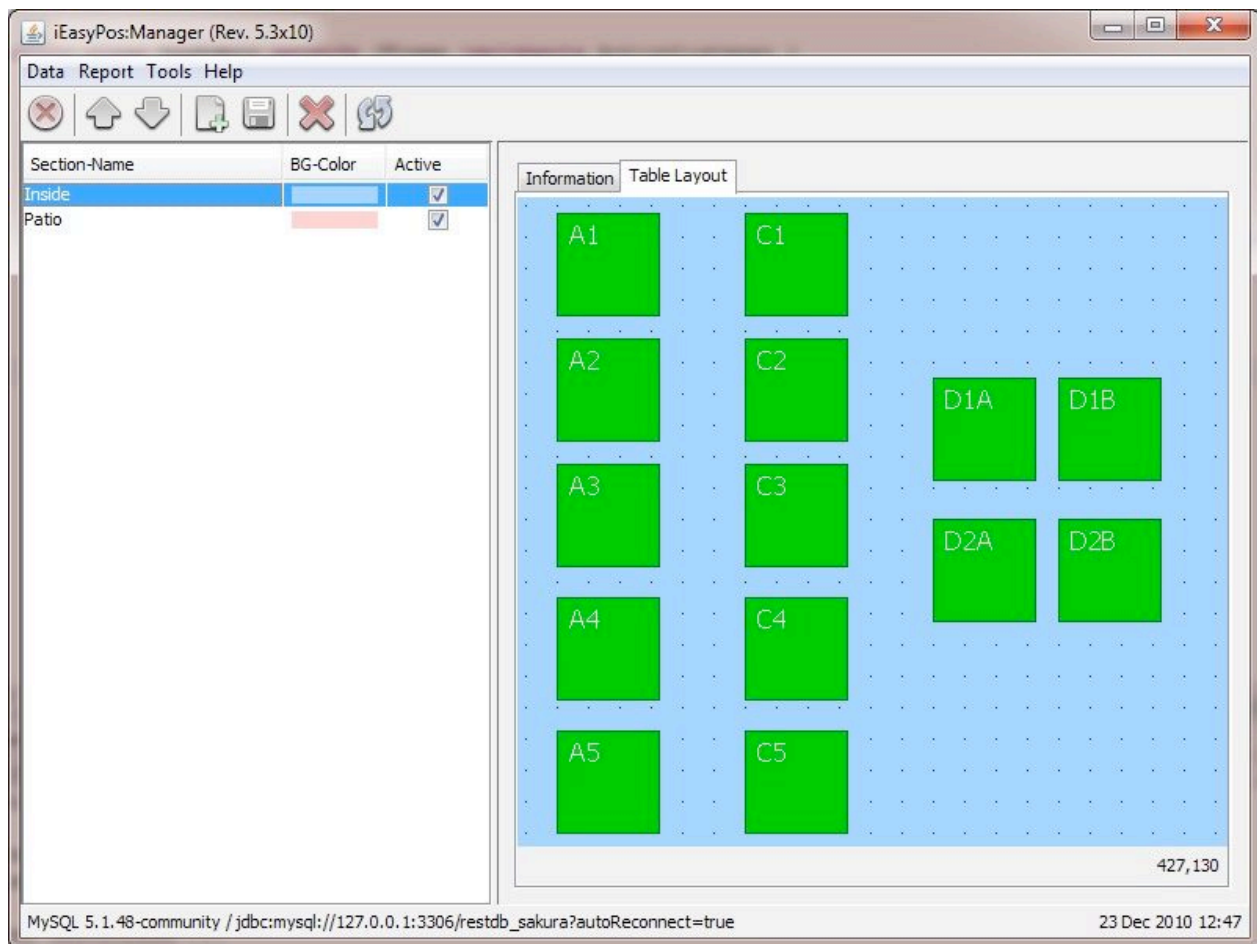
This is Floor Plan/Tables arrangement screen. In this screen you can add/edit/update Section (like Inside, Patio, 2nd Floor, etc.) and Tables. When you create a section you can name it set background color and make it active (if you make it in-active the section will not show in POS screen). Then you can add tables to section by dragging a rectangle area in "Table Layout" tab and name it, you can click on table and drag it around or resize it by click on the right or down edge of tables.
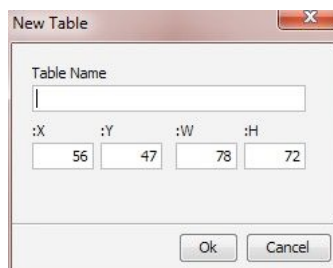

This is a "New Table" screen that will popup when you creating new table or when you right-click on table and select "Properties".
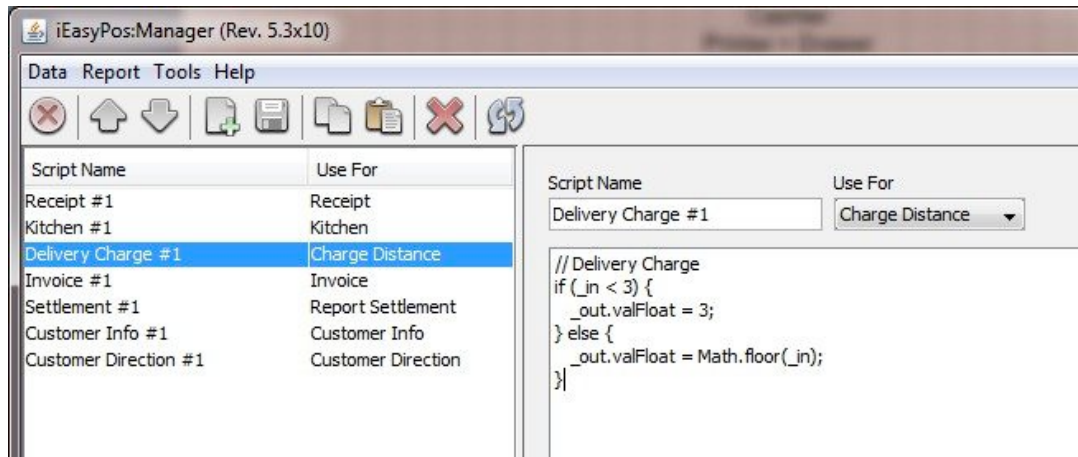
Script:
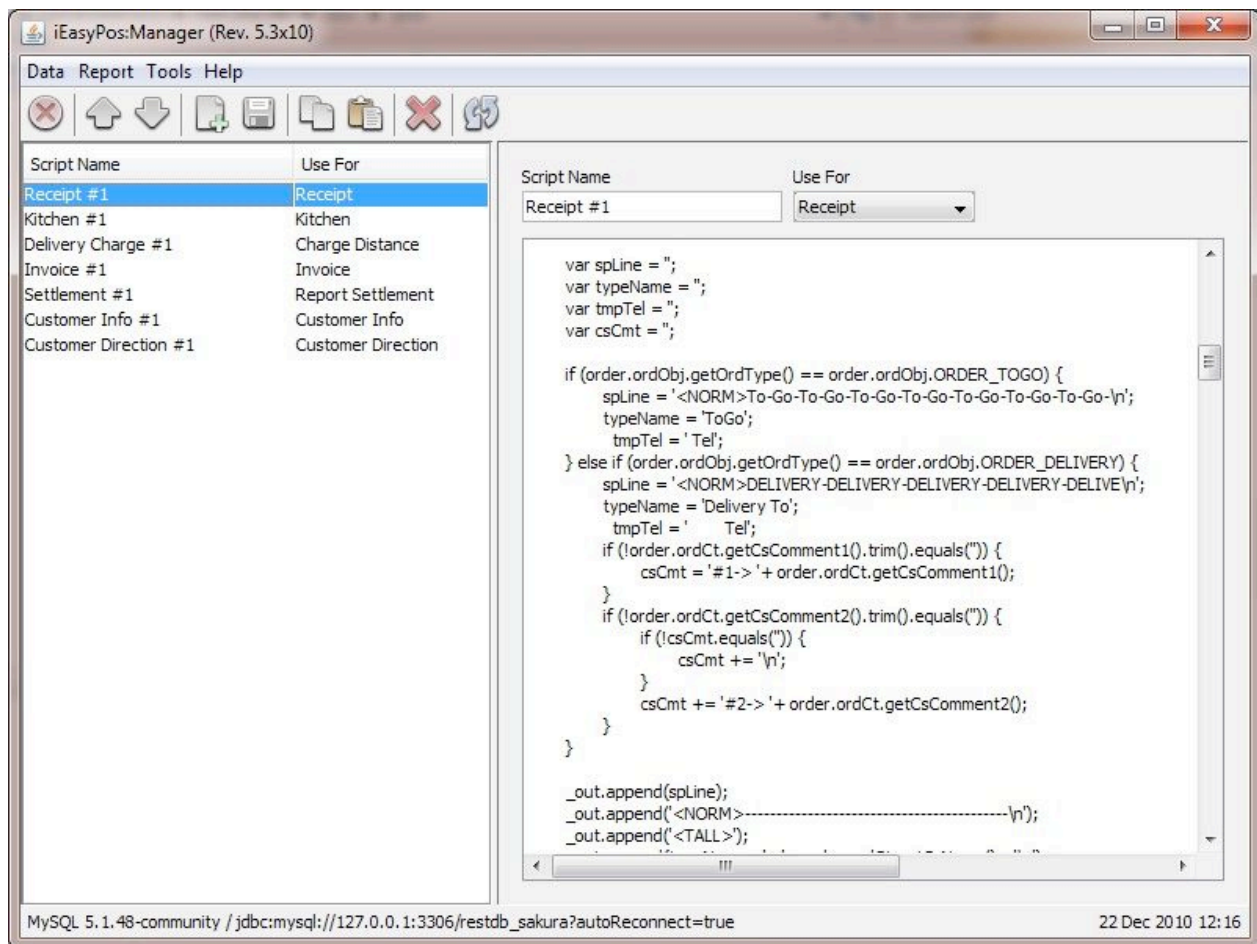
Script is the way program dealing with custom specific need for each restaurant without go back to modify source code of the program. For example, Receipt: some restaurant have their own format or some specific word, Kitchen: some chef prefer bigger font less information or smaller font with more information. This below pictures shows how the script works.
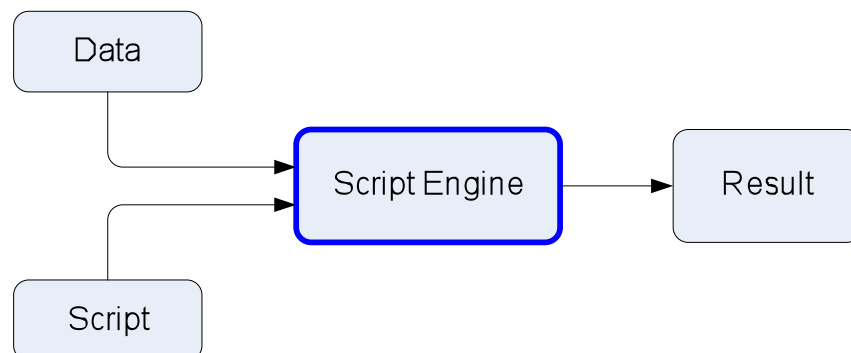
The program will prepare data, script (kept in database) and send then to script engine, in Java they use "Rhino" to parse script and produce a result that we can get it back after process. For example "Receipt" script will take ordering data and produce text that contains information to send to the printer to print.

We can use script to help with calculation like "Delivery Charge"

This is a sample to use script calculate delivery charge, in this case "_in" will contains distance from restaurant to customer place, program will set "_in" value if "_in" less than 3 miles _out.valFloat will be 3 dollars, else it will be equals to distance (4.5mi will be 4 dollars).

By using script, we can literally meet any requirement about printing, calculation and so on.

User:

This screen shows how to setup User or Waiter/Waitress for POS system (not for administration). To login POS system they have to input "POS-PassCode" that are combination of number and we can limit them to do something like "Order" that they can make an order, "Delete" will let them delete order, "Discount", "Report", "Settlement" will allow them to print settlement report (or end-of-the-day report) or "Driver" will assign them as a driver that will allow program to report some information about them like "Delivery Charge" and so on.

Printer Setup:
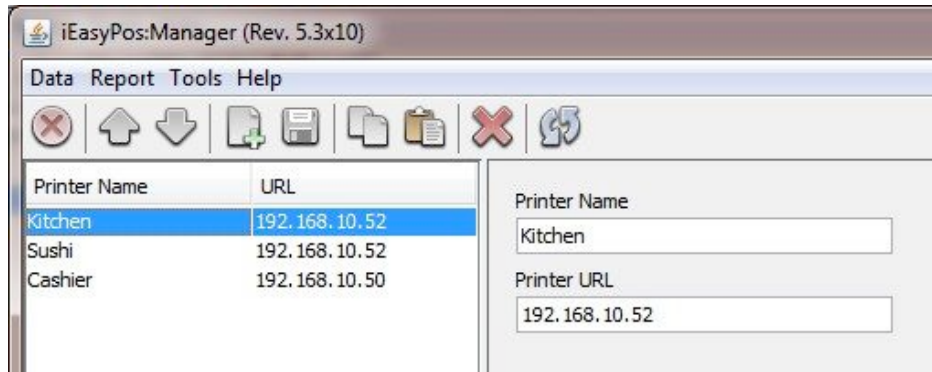
To setup printer you must set name and printer IP address, there is no need to setup drivers for windows the program will communicate with printer via socket (TCP/IP). This program will run with EPSON TM-Series printer with Ethernet Interface (UBE-02).

System Properties:
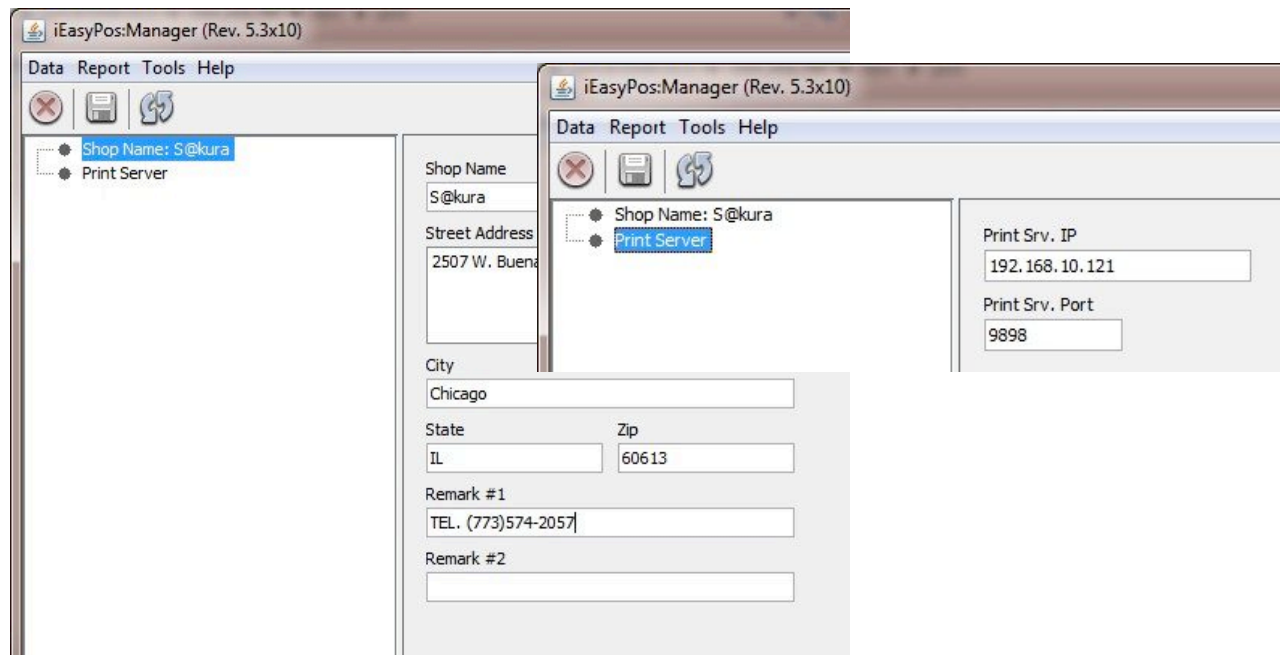
This screen is using for setup system properties "Shop" and "Print Server". Shop is information about restaurant name, address. Print Server is IP address/Port of print server so other clients can communicate with.

Startup Screen:

When you open POS program, the program will show this screen. The green table means it's available (red means occupied). When user clicks on the tables, program will ask for "POS-PassCode" before move next to ordering screen.


These three icons represent customer section "Section" for customer on tables, "Togo" for customer picking up or delivery and "Internet" for customer coming from internet. When user click on "Section" if there are more than 1 section program will drop menu to let user picks the section they want.
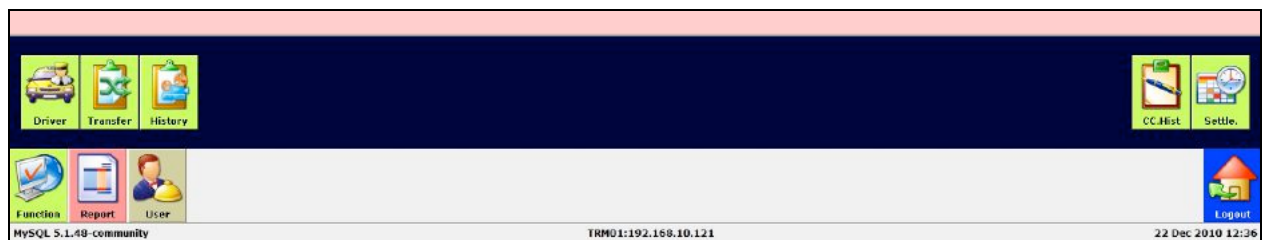
This icon is using for creating new Togo customer, when customer calling restaurant waiter can touch on this icon and program will switch to ordering screen.

"-No User Logged In-"means nobody has logged in.
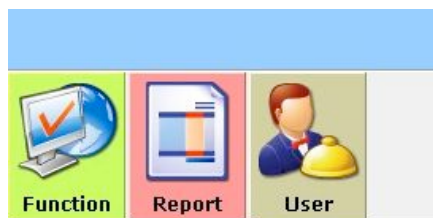
These icons use to perform "Function", "Report" and "User". When user is click on "Function" program will show items in function like the picture below.

And this below picture show when user select "Report".

Ordering Screen:

This is the main ordering screen user can order food by touch on "Set" to show "Category" in those set. Then select menu item. Program will show the following screen.

Program will show the selected item on the left list and show option on the center panel. You can select option change the quantity, discount, price or even the way to serve this dish like on dish or in the box. The red option name means this is a mandatory option that you have to select before the program will let you do anything.

The idea of this ordering screen is trying to put everything in one place to make it easy and flexible to use.

When you finish ordering, just touch "Done" to go back to main screen or "Logout" to go back to main screen and logout.
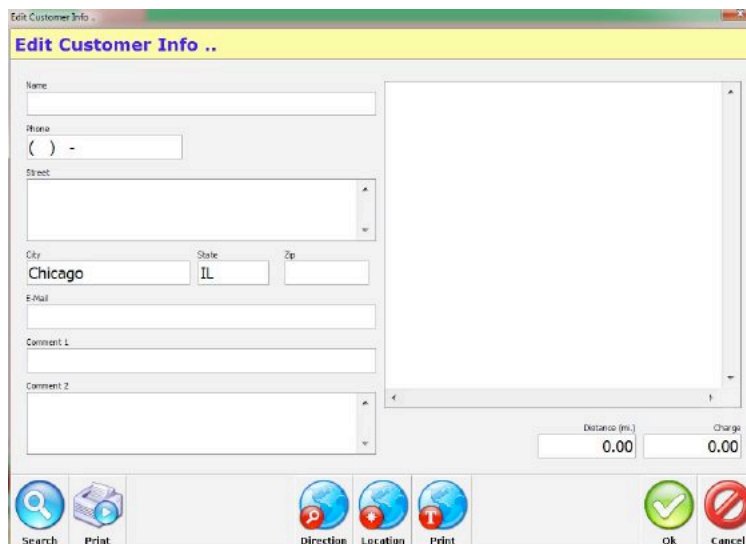
Customer Togo:

When accepting delivery order or pick-up order. User will click on ![icon] from main screen. The program will show the following screen.


User can enter order or edit customer information (Name, Phone, Address etc.). To edit customer information touch on icon "Edit" (on the upper-right corner). The program will show the following screen.

From this screen, you can enter new customer information or search customer by click on "Search" button. Program will show:


So, you can search customer by Phone, Name or Comment in "Cmt1". Select customer you want and then click on "Ok" Program will pull the data and set it to the customer information.

If you want to make a delivery you can check the "Direction" or "Location" or "Print" direction for driver. By touch "Direction" program will show how to go to the customer place in text, turn-by-turn. Or touch "Location" the program will show map of customer place like the following screen.
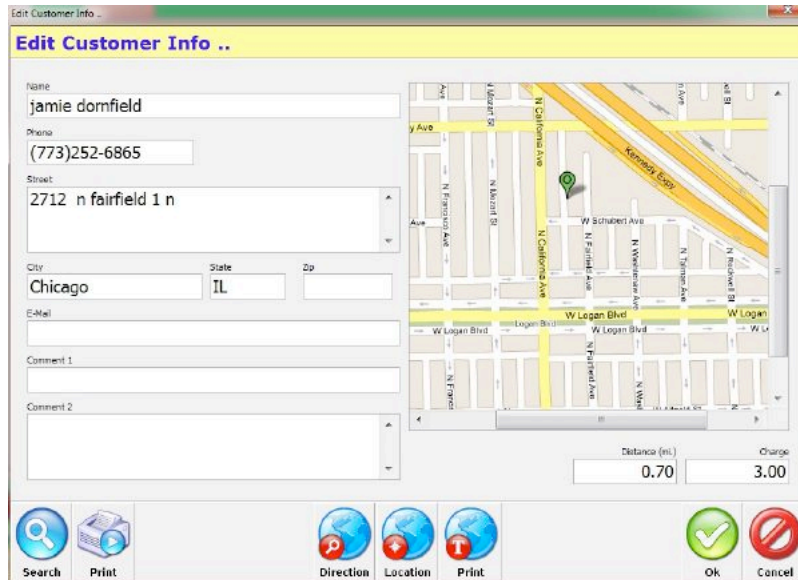
In this screen you can see distance from the restaurant to customer's place and the program will automatically update Charge value.
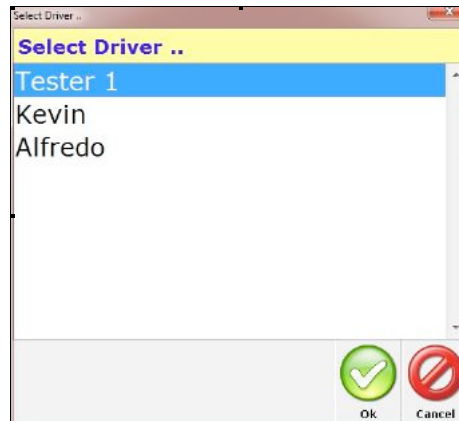
Miscellaneous:
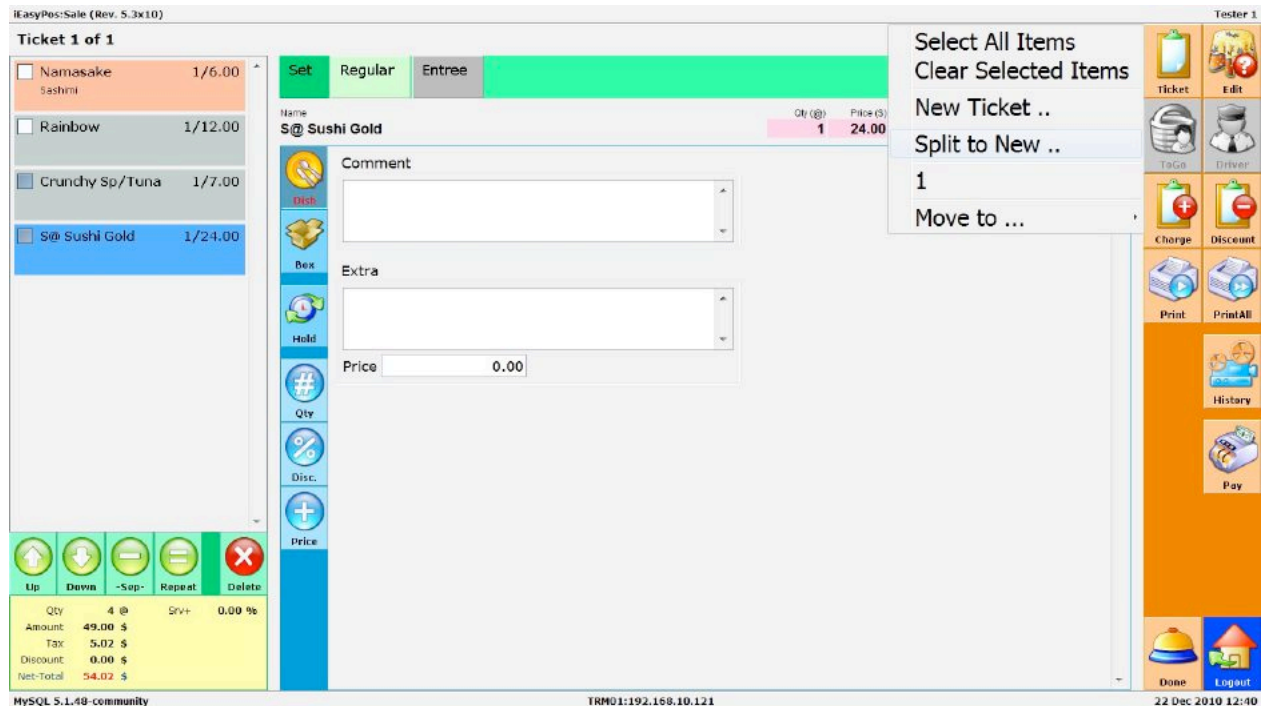
This screen is show you can manage ticket like "Split", "Move to …" and so on.

This screen is show the history order of customer. Because sometimes customer asking for what were they order last time? So, it will help waiter know the information.

This screen will assign the driver to the order. It will help organized the delivery system and tell the manager how to manage them.
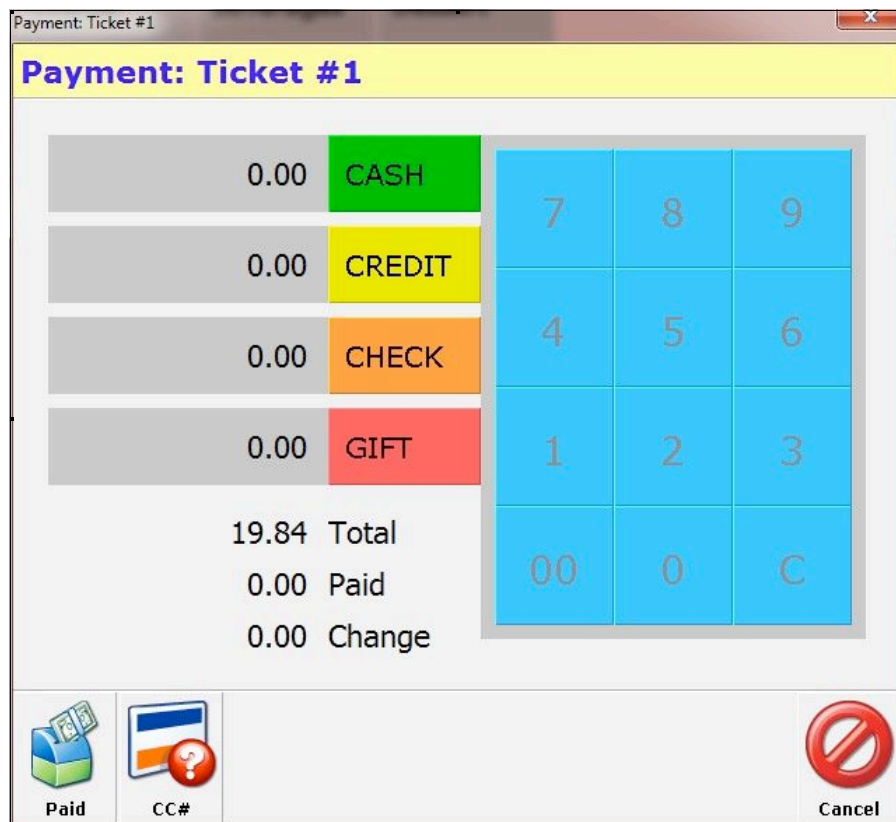
This is Payment screen; waiter can accept cash, credit card, check or gift by click on desire button and enter the number. In case of accepting credit card waiter can swipe the card immediately program will send data to credit card company via credit card payment gateway (I use "PC-Charge"). If customer wants to split amount by using multiple credit card waiter just touch "CREDIT" button and program will show the following screen.

Credit Card Payment

Total Amount: 19.84

-No Transaction-

Total Paid By Credit: 0.00

			19.84
7	8	9	/2
4	5	6	/3
1	2	3	/4
00	0	C	/5

CC#

Close

From this screen waiter can select desire amount for each card or click "/2" for 2 cards or "/3" for 3 cards and so on program will split amount as you want. If the card can't read by card reader waiter can click on icon "CC#" to input credit card number directly.