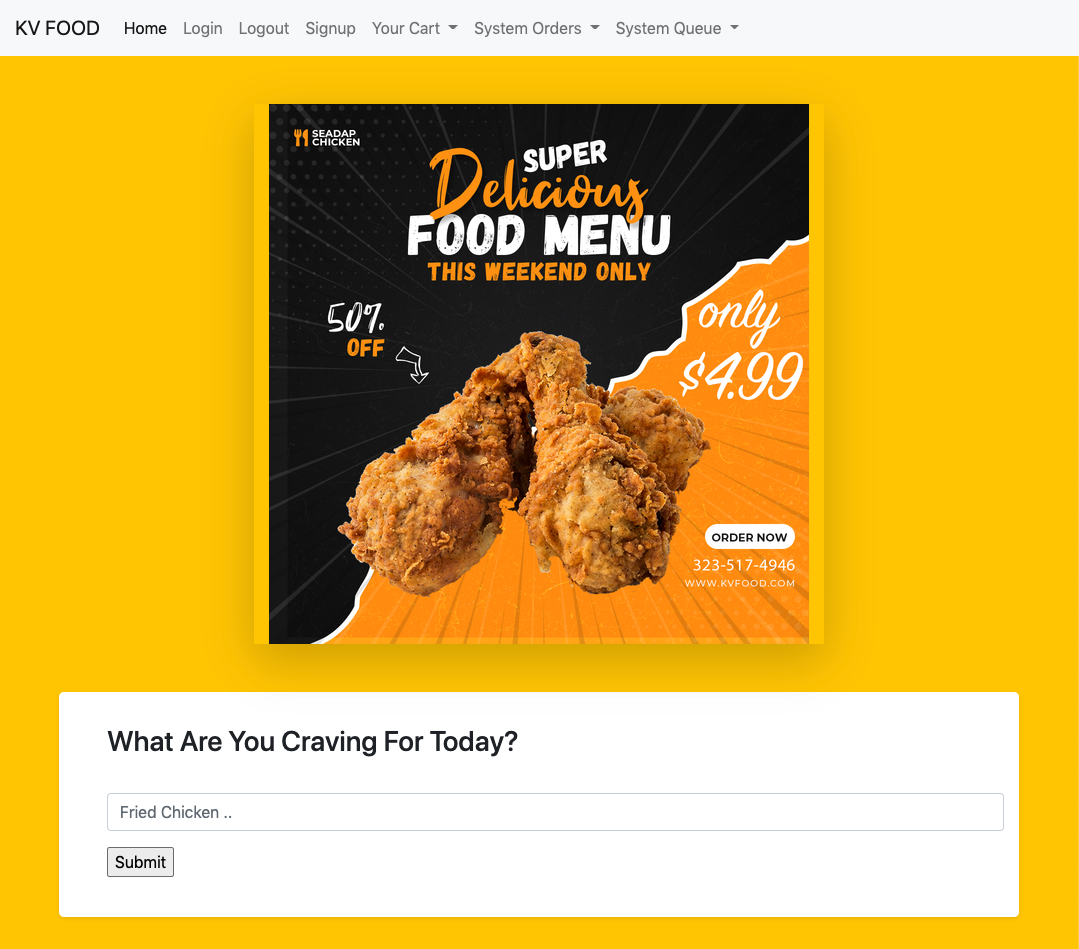
**Instructions on**

**Navigating the Backend Server for KV Food Service**

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1. **Set up MySQL Using docker. - Part A**

First and foremost, you need to have docker installed on your computer. You can download a copy of docker depending on your system configuration here:

<https://docs.docker.com/get-docker/>

Once installed, head over to your terminal and issue the following command

*docker run --name KV-sql -p 3306 -e MYSQL\_ROOT\_password=password -d mysql:latest*

This line of code would run the latest mysql image that is on your system and runs the image in a container. This container is also known as a *docker container.* If a mysql image is not found on the computer, docker automatically pulls off and downloads the latest mysql image that is found on docker hub. Home to docker's repositories of images.

Because we specified the --name flag, we're giving the docker container a name; in this case , it'll be called *KV-sql*

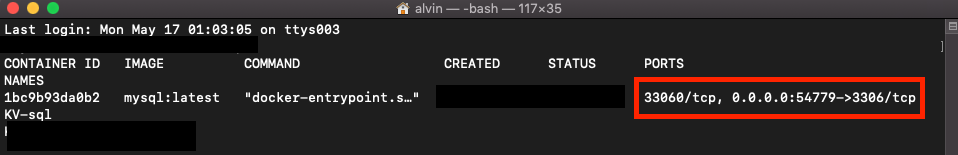
With the -p flag, we're telling mysql to expose it's ports so we can connect to it at a later time.

Please change the MYSQL\_ROOT\_password=your\_desired\_password if you like.

Once that is done, issue the following command.

*docker ps*

This command will reveal all the containers that are **currently** running.

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Not only does it show you your container's name, it also reveals the important information regarding it's ports. Notice we now have a set of foregin numbers, 54779

As this set of numbers will vary across different computers, it is important to take note of **your own** numbers. Write them down if you have to.

Next, you'll have to set the export path:

*export PATH=$PATH:/usr/local/mysql/bin*

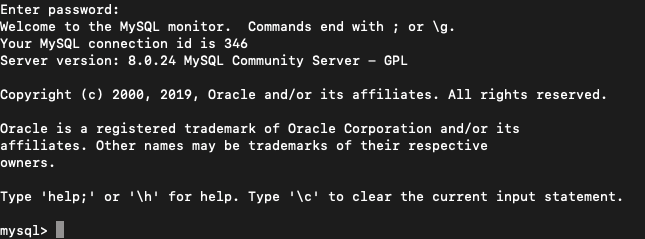
Followed by:

*mysql -P 54779 --protocol=tcp -u root -p*

Please change 54779 to your own set of numbers.

This line of code would prompt you for your mySQL password that you've set earlier on. If you copy pasted the codes, the password is *password.*

Press Enter after you've typed them in and you should be prompted with mySQL's welcome message.

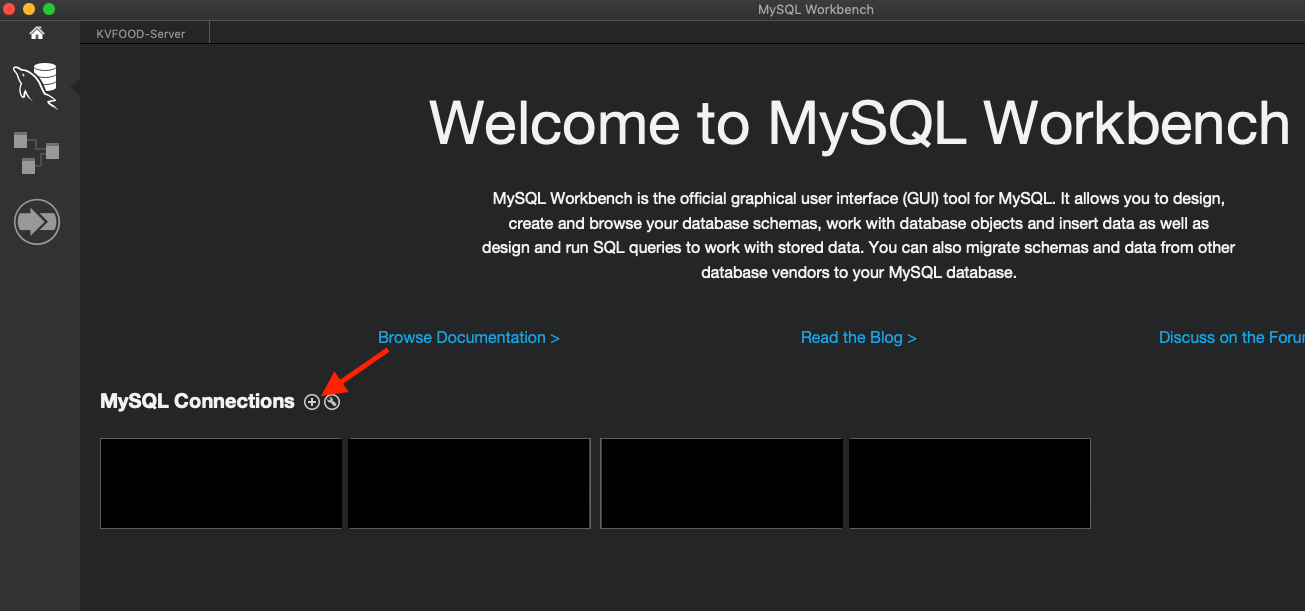


Now that we've verified that we can connect mySQL, go ahead and fire up your mySQL workbench. The mySQL workbench is a nicely made GUI that allows you to make quick changes on a mySQL database such as the one that we've just created.

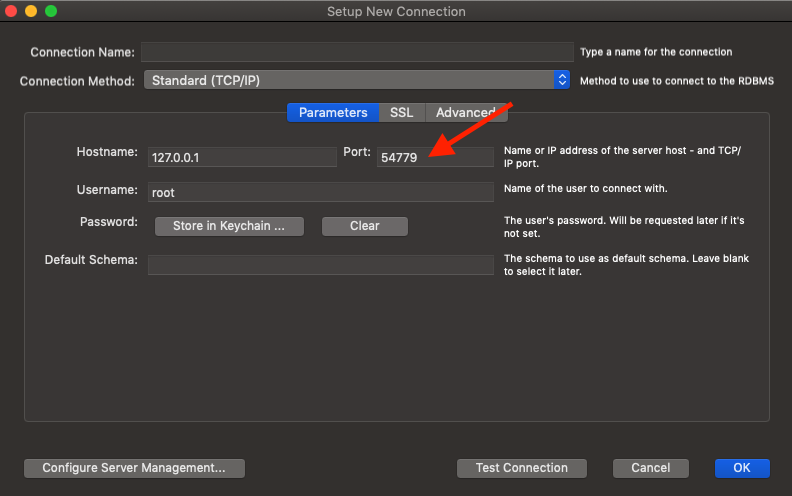
If you don't have the program installed, you can download one here for your operating system.

https://dev.mysql.com/downloads/workbench/

Once your workbench is opened, you'll be greeted with this screen:

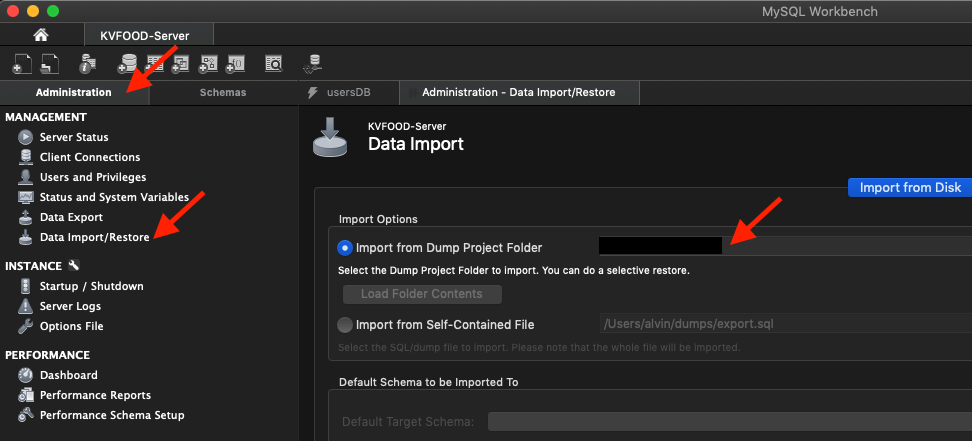


Click on the + sign and go ahead and change the port number to your own. In this case, we'll be changing it to 54779.



Now that we have the program setup, we'll import some of the test data into mysql.

Click on the Administration Tab, then on Data Import/Restore and then click on the path name to locate a .sql file that should accompany the project's source code.

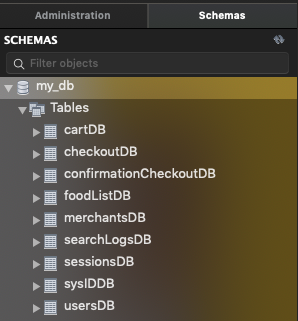


The filename should be KVFoodServer-17May-2021.sql

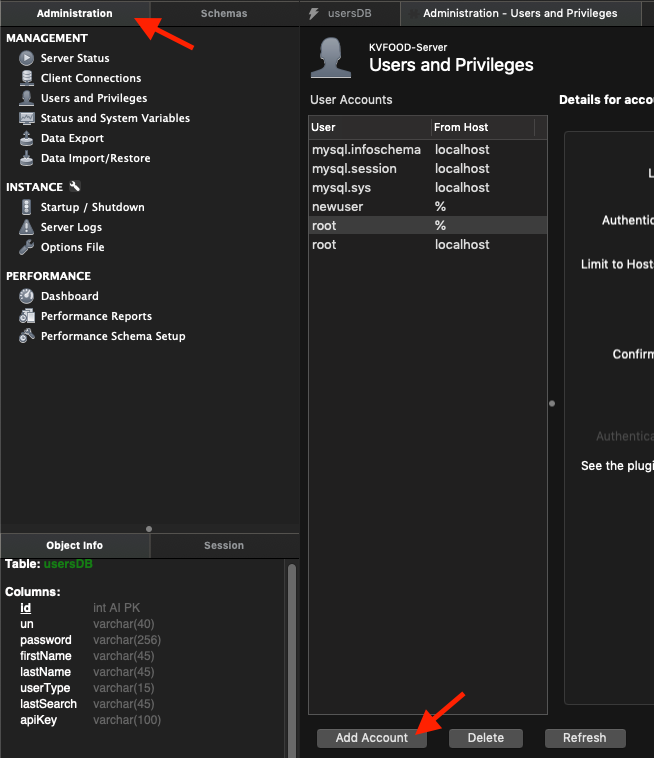
After the import has been done, you are now ready to start testing the server!

If the import has not been successful, please ensure you have a schema selected first.

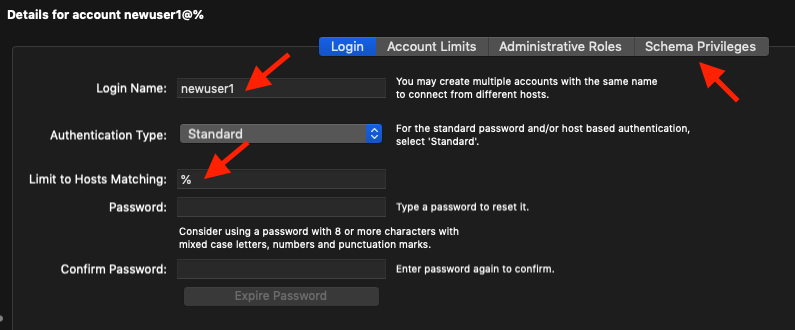
In the schemas tab, you will find a total of 9 tables with all the data pre populated because of what you've imported.



Once this is done, we're just left with the setting up of users as well as



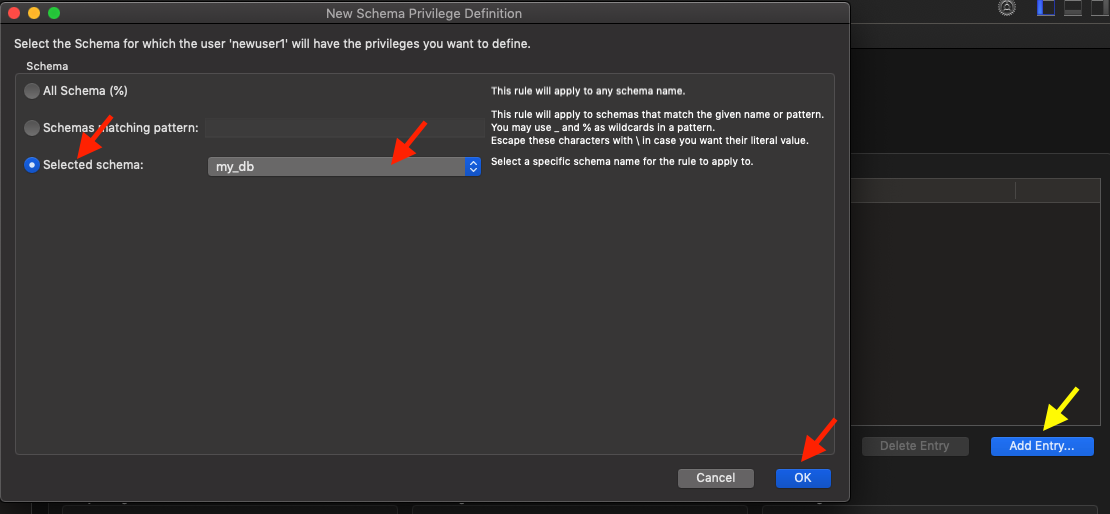
Heading to the Administration tab again, click on Add Account.



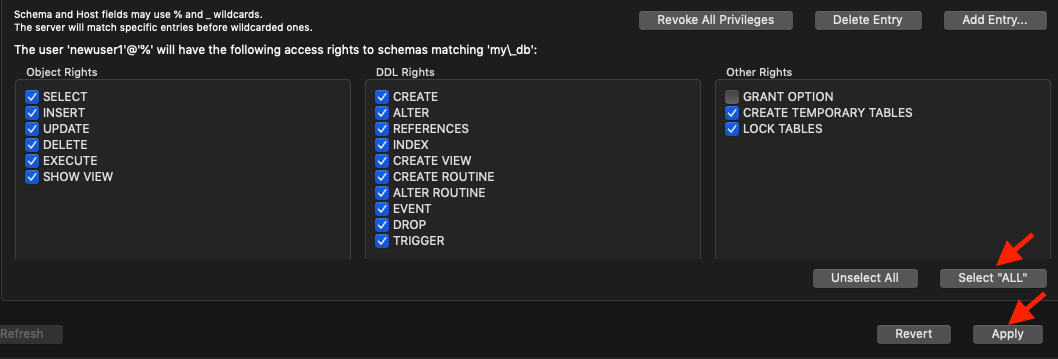
Type in your desired login username. We've called in newuser1 in this instance. Remember to type % to ensure the user is granted permissions to interact with your mysql database.

Then, proceed to type in your desired Password; a password that you will remember as we will need it very shortly.

Once you're done, head over to the *Schema Privileges* tab.



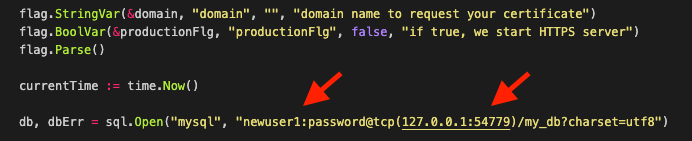
Click on Add Entry (yellow arrow) and you'll be greeted with a new popup. Click on Selected schema and choose my\_db and then click on the OK button.



Proceed with granting this user privileges. Click on Select All, or customize what you'll want the user to receive access to. Once you're done, click on Apply!

1. **Set up MySQL in main.go file - Part B**

Part B's relatively easy. Locate the main.go file, open it in your favorite editor and look for these lines of code:



Change your id, password as well as the port number.

For example, if your id = newuser1 , password = newuser1password, port = 12345, your line of code will look like this.

*sql.Open("mysql", "newuser1:newuser1password@tcp(127.0.0.1:12345)/my\_db?charset=utf8")*

Save the file and we're ready to get started!

1. **Launch the Back-End Server**

CD into the directory where you unzipped the file and the following commands in your terminal:

*go run .*

You can use a client such as chrome to access the server at your local address:

*localhost*

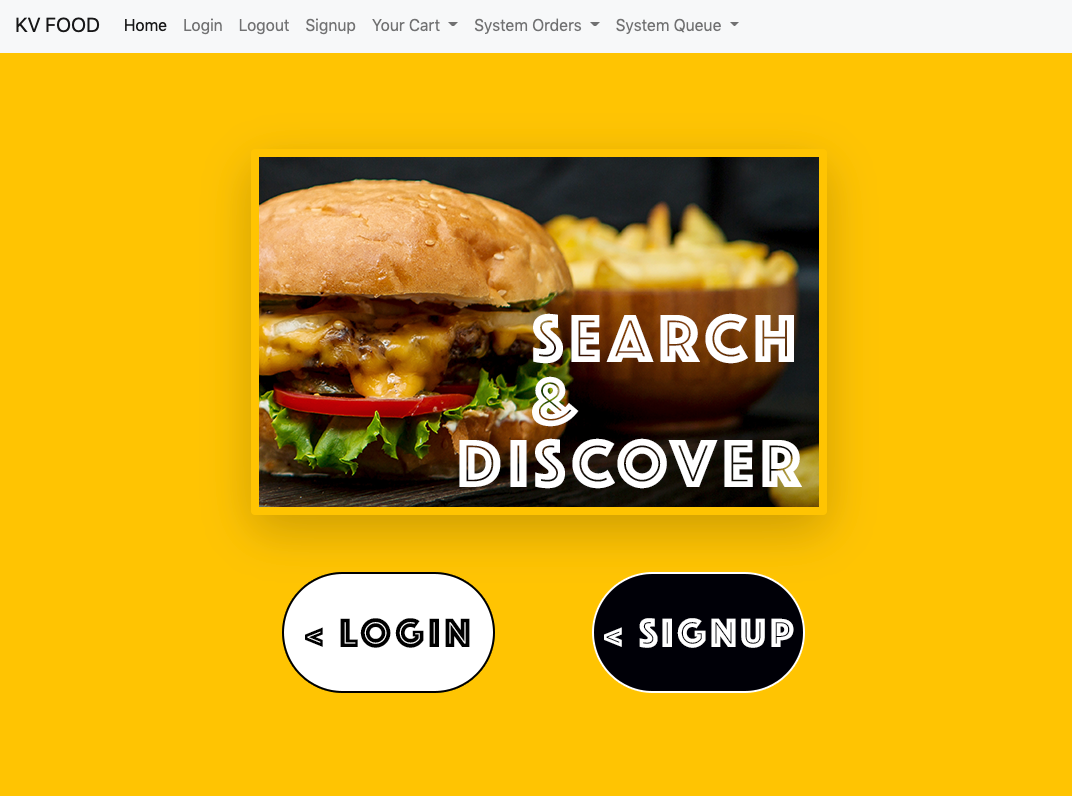
There is no need for a http:// or https:// right in front of the link. It is also important to note that the server is listening at **port 80**

If localhost address doesn't work, please use

localhost:80

1. **If you start searching, you'll get redirected and get greeted with options**

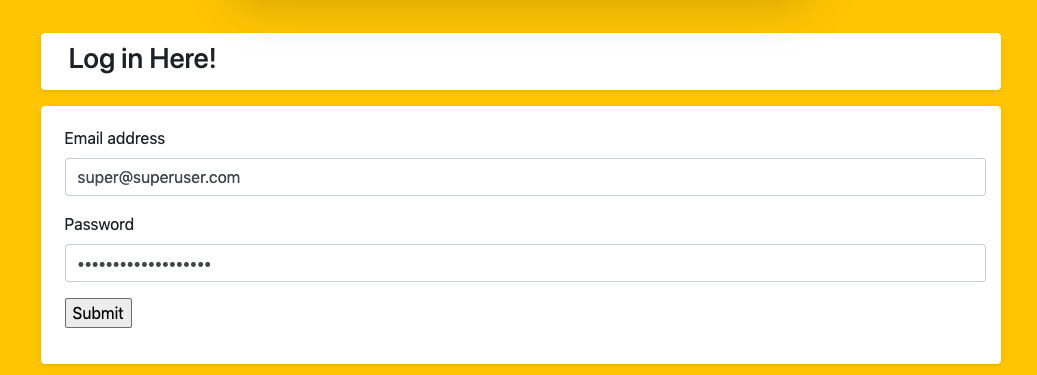
Since this is all about navigating the backend server, choose login instead.



On the login page, you can use the following id and password:

Id : [super@superuser.com](mailto:super@superuser.com)

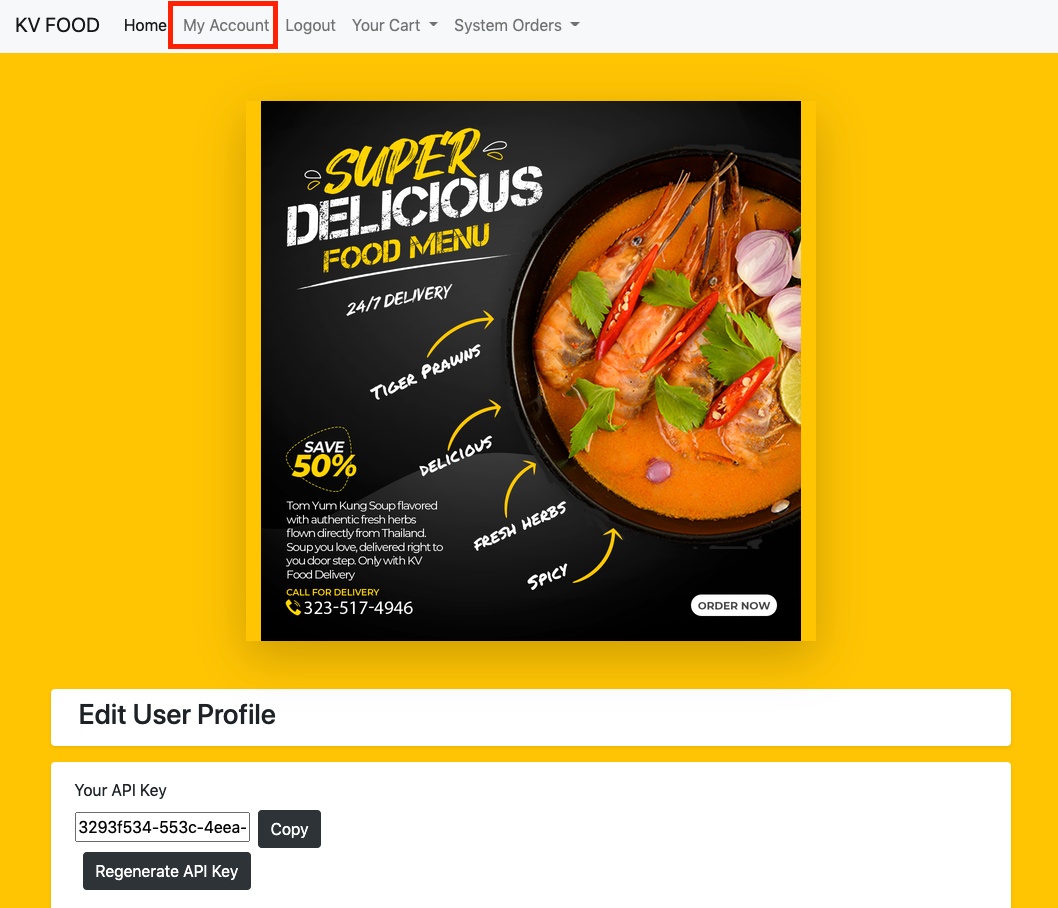
Password: super@superuser.com



1. **Locating API information**

Depending on the type of account privileges, users will be given API keys.

This API key can be located in the *My Account* section.

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On this page, it is important to note that the *Regenerate API key* is capable of generating a new API access key for the user.

In other words, if a user has a client program opened and stores the older API key, pressing this button **will immediately** render the client application useless. However, a revalidation of the API key will solve all issues. This is to allow users to revoke their API keys easily yet securely since a login is required before a user can regenerate their API key.

This marks the end of the instructions manual. If you're looking to learn more about how to make orders, updating of cart etc, then please proceed to read the other instructions manual that doesn't involve the backend server, nor the client.

We hope you've enjoyed trying and using the web app as much as I've learnt and spending the time building it.