

User Manual
Project:
Cafeteria Management System:
Resolve

T-RISE

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1 System Overview

The Cafeteria Management System is a system designed to assist users with efficiently ordering food online as well to assist cafeteria staff with dealing with orders in real time as well as managing inventory. The system is intended to be used in a corporate environment whereby users have the option to charge their cafeteria expenses to their salary or immediately pay for orders. In addition, the system will allow management to view expense reports of different users.

2 System Configuration

The system requires a Windows/Unix based host to run the server. This host must have NodeJS and MongoDB installed. In addition, the host must be connected to the internet in order to allow any required dependencies to be installed and set up for the operating system environment. The configuration of the server requires an active E-mail account to facilitate communication between the system and end users. Interaction with this host will be achieved using a standard mouse and keyboard as well as a monitor.

End users will only require a PC equipped with a web browser and an active internet connection.

3 Installation

3.1 Prerequisites

The Cafeteria Management System requires NodeJS and MongoDB to run. These are free and open source software and can be obtained from the following sites:

<https://nodejs.org/download/>

<https://www.mongodb.org/downloads>

The applications are available for both Windows and Unix environments and include setup guides on their respective sites.

Once installed, NodeJS includes a package manager called NPM. This package manager will be available from the terminal and will be used to install all dependencies. The following dependencies have to be installed first:

```
$npm install -g bower
$npm install -g grunt-cli
```

3.2 Setting up CMS

Before starting the system, an email account has to be set up to facilitate communication between the system and end users. The details of this account can be configured in the following config file:

```
~/Cafeteria Management System/config/env/production.js
```

Under the section 'Mailer', the following fields should be specified:

- MAILER_FROM: A name indicating the sender of mail.
- MAILER_SERVICE_PROVIDER: The service provider of the email account
- MAILER_EMAIL_ID: The email ID of the account set up for CMS
- MAILER_PASSWORD: The password of the account set up for CMS

In a terminal/command prompt, navigate to the CMS directory and execute the 'npm install' command. This will install all the packages required to run the system:

```
~/Cafeteria Management System$ npm install
```

If all dependencies were installed successfully, then MongoDB can be started with the following command:

```
~/ $mongo --dbpath "directory"
```

Where directory is a path to the folder which Mongo will use as a working directory.

Note that this command has to be executed in a separate terminal.

Once mongo has been started, the CMS server can be started with the following command:

```
~/Cafeteria Management System$ grunt
```

Note: Inside the browser one will run localhost:3000 to view the system.

4 Getting Started

Access to the Cafeteria Management System is through a standard web browser. Different types of users have access to different facets of the system. The system has a default Superuser account which can assign different roles (cafeteria manager, cashier, etc.) to the users. These users can then sign in to access the facet of the system they are authorised to.

Once logged in, the superuser can change their password from the profile management page which is available directly from the home page. They can also set additional fields such as an E-mail address which will assist in password recovery in the event of a forgotten password.

To terminate the sever, the user can enter the Ctrl+C command in the terminal. The user can also terminate the MongoDB service by executing the same command (Ctrl+C) in the MongoDB terminal.

5 Using The System

5.1 The Navigation pane

On the home page, the name of the canteen is displayed. The user will also see the navigation pane at the top. The actions available with the pane are "Sign in", "Sign up", "Menu" and "On your plate".

The user can not proceed to order food if the user has not signed up and logged in. Hence, the first step a new user should take is signing up/ registering with the system.

If a user has not signed in, the user will still be allowed, however, to view the menu, without ordering anything. However, the user will be able to add items to their plate and view them on the "On My Plate" page, but the order will not be sent to the system until the user signs in.

5.1.1 The Navigation pane - once the user has logged on

The user will now view a drop down menu with various options displayed on it. The following options will be displayed if the user is a normal user: "Edit Profile", "Profile", "Sign out". These pages will be discussed below.

If the user is a superuser the options "Admin Settings" and "Branding Settings" will be displayed. The superuser will hence be in control of assigning roles, changing employee ID's, setting the limit, changing the canteen name and the cover image of the canteen.

If the user is a cafeteria manager, the options "Manage Cafeteria" and "Manage Inventory" will be displayed. Manage Inventory is where the stock additions and removals are kept track of. Manage Cafeteria is where the different menu meal items will be logged.

If user is a financial manager, the option "Finance" will be displayed. The financial manager will be able to search for employees and view their bills, to keep track of these.

If the user is a cashier, the options "Placed Orders" will be displayed and it is here where the transactions will occur, such as marking whether orders are ready, and paid for. The cashier will also send notifications to the user, when the food is ready for the user to collect.

5.2 The "Sign Up" Page

Once the user has clicked the "Sign Up" option on the navigation pane, the user will be directed to the sign up form, where a user should fill in their details. Once completed, the user will click submit and if the form is correctly filled in the user will be notified upon success and will be signed up for the system. The user will hence be redirected to the home page. The user can then use the password created and employee ID to log in to the system. If the information entered is not followed, a thorough error message will be displayed indicating what the problem is so that the user can rectify it. The user must now log in to access the ordering and managing profile functionality.

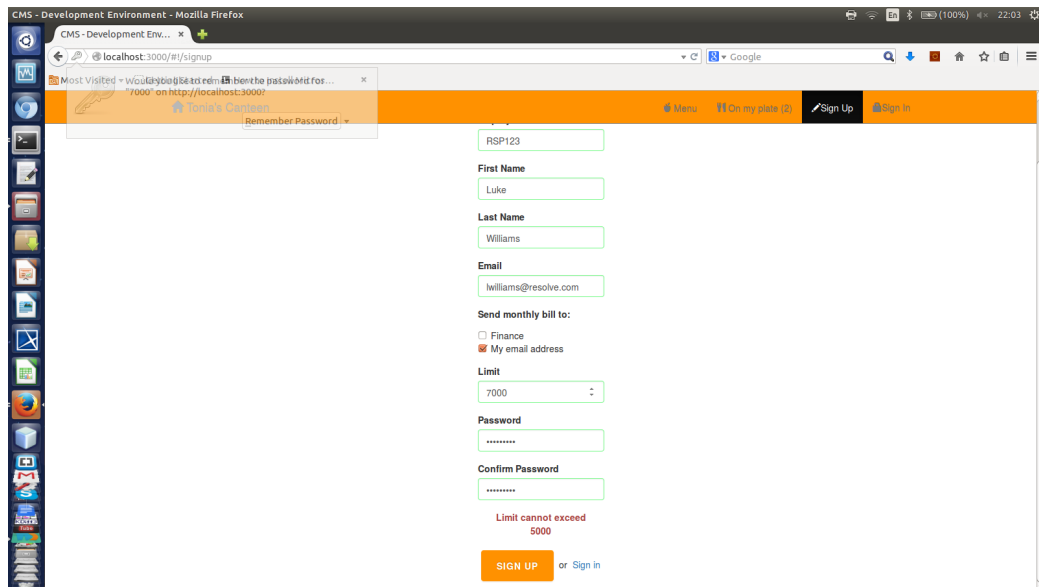


Figure 1: Sign up sheet - when a user types in a limit value larger than the maximum spending limit per month

5.3 The "Sign In" Page

To log into the system the user should click the Sign In option on the navigation pane. The user will fill in their password and Employee ID in the provided slots and click submit to proceed. If the information entered is valid, the user will be notified upon success and redirected to the home page, logged in on their personal account. If the information entered is not valid, a thorough error message will be displayed indicating what the problem is so that the user can rectify it.

There is also an option called "Forgot your password?" which once clicked leads the user to a page where the user must enter their Employee ID. The user will then be notified that an email has been sent to their personal email account with further instructions on how to rectify the situation. The user will be sent a link to a page, in order to set a new password.

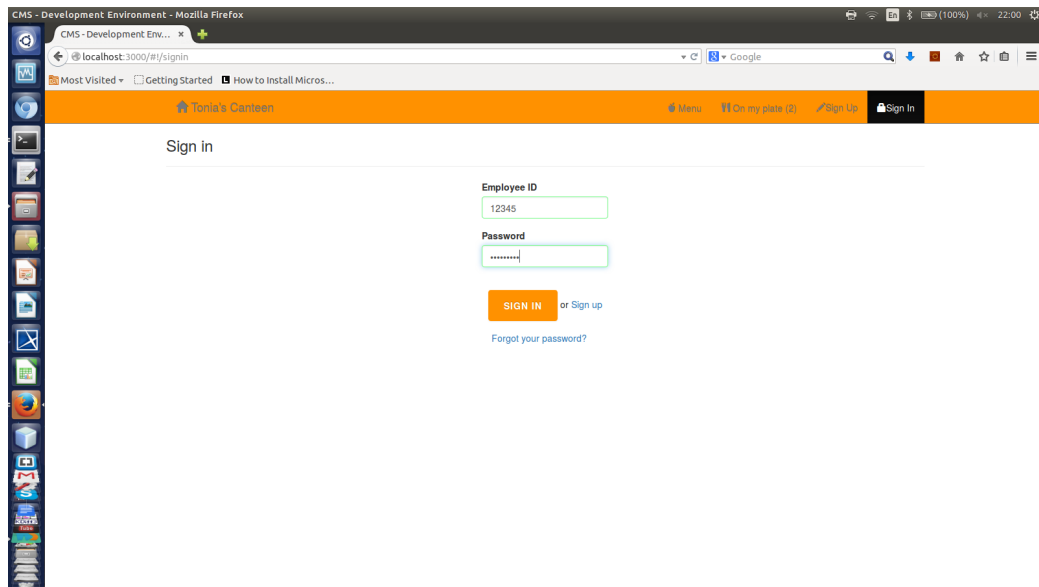


Figure 2: Sign In page - Type the appropriate information in the textboxes and click submit to sign in

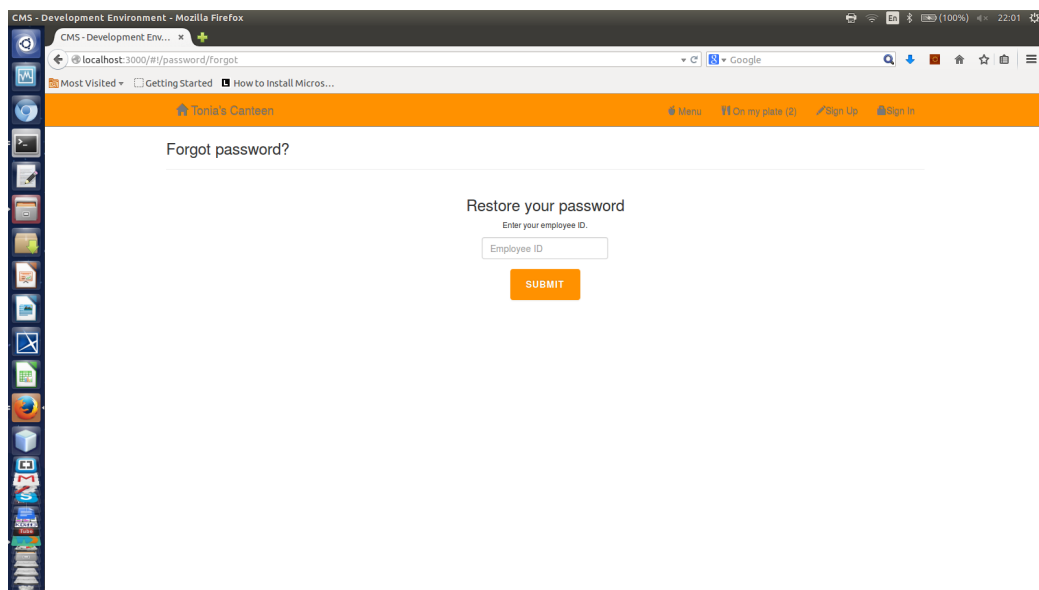


Figure 3: Forgot password page

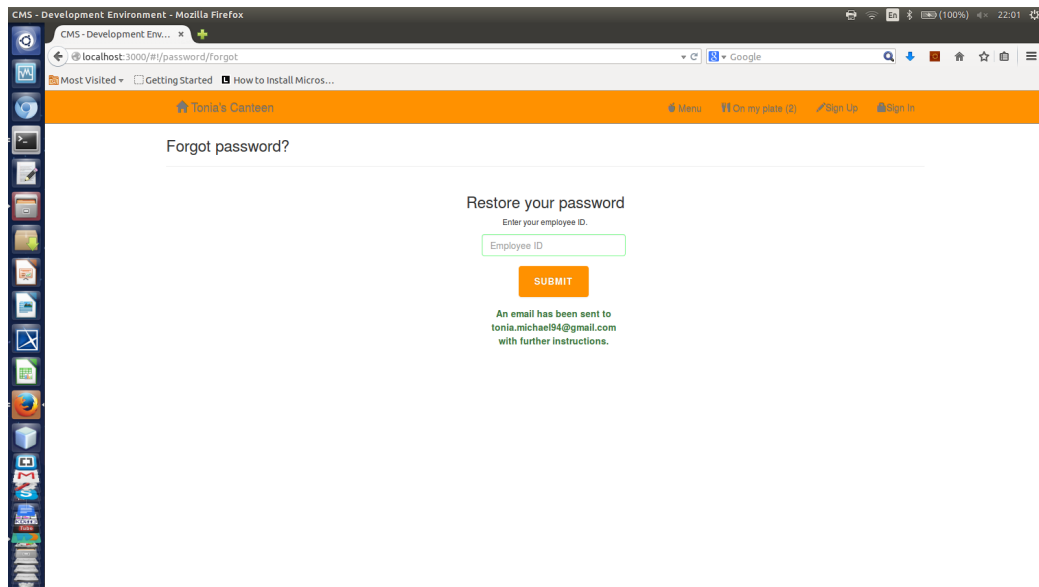


Figure 4: After submitting the form - notified about email sent

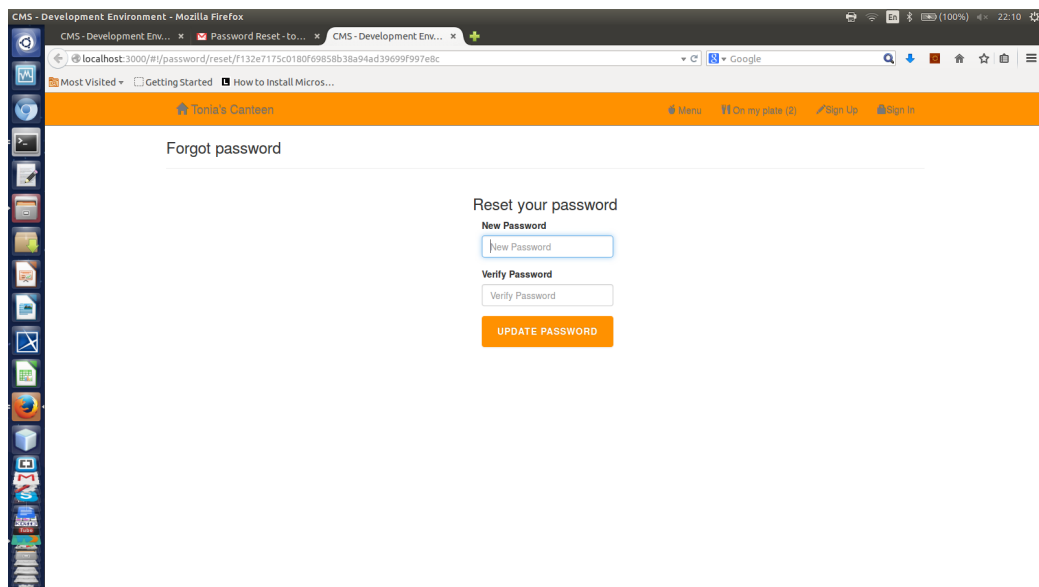


Figure 5: The url sent via email leads to this page - fill in the textboxes and new password is set

5.4 The "Menu" Page

This is where the user will be able to view the menu items and their prices. An item can be added to the user's plate by simply clicking the 'Add to Plate' button alongside each item. These can then be viewed on the 'On my Plate' page.

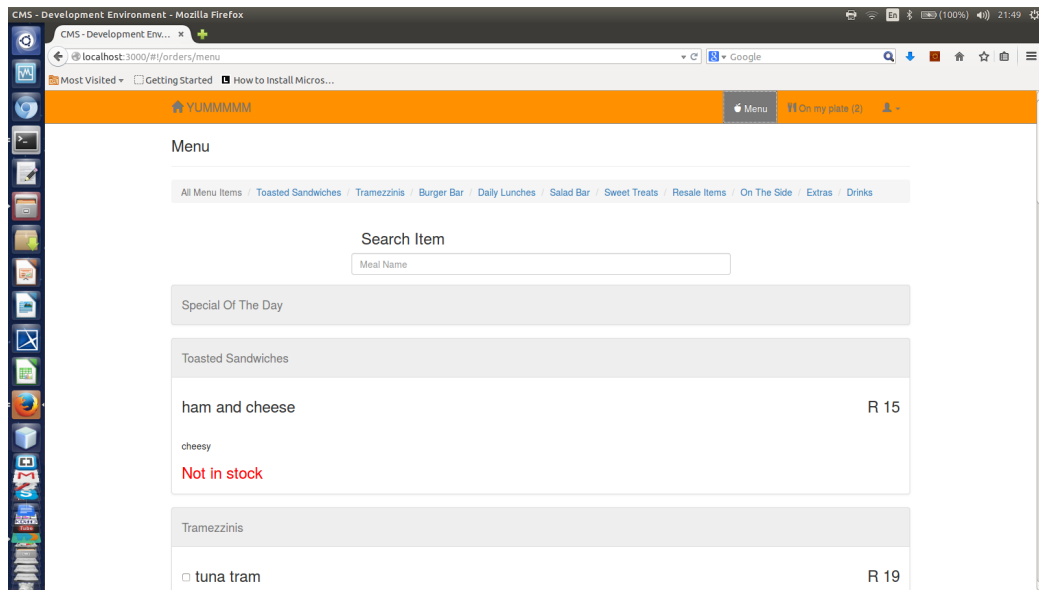


Figure 6: The menu page from which a user can order food

On the menu page there is also a breadcrumb which indicates the different meal categories to make the search more efficient. There is also a search bar on all these pages.

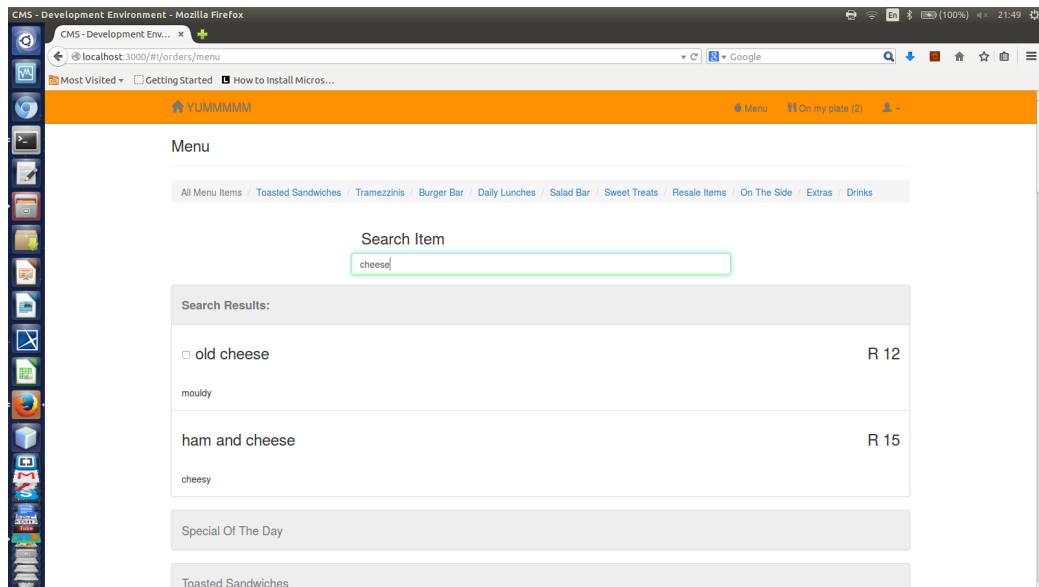


Figure 7: The menu page - Can be navigated via the search bar as illustrated

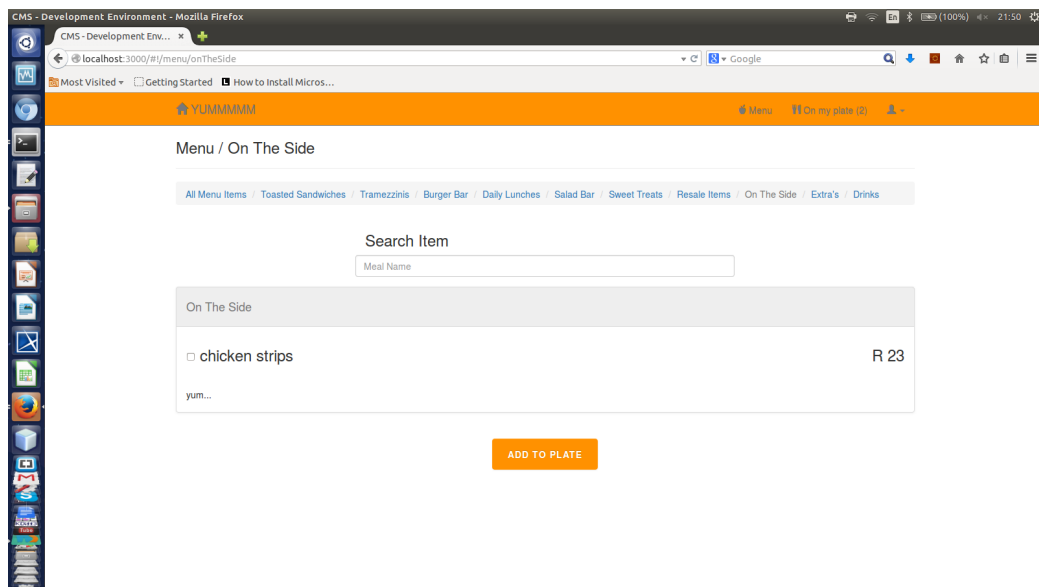


Figure 8: The menu page - Can be navigated via the category breadcrumb as indicated to view sub menus

5.5 The "On my plate" Page

This page serves to indicate the current meal items that the user has ordered, and these can be removed on this page via the appropriately labelled button. The tab in the navigation bar also indicates an amount which is the amount of meal items ordered.

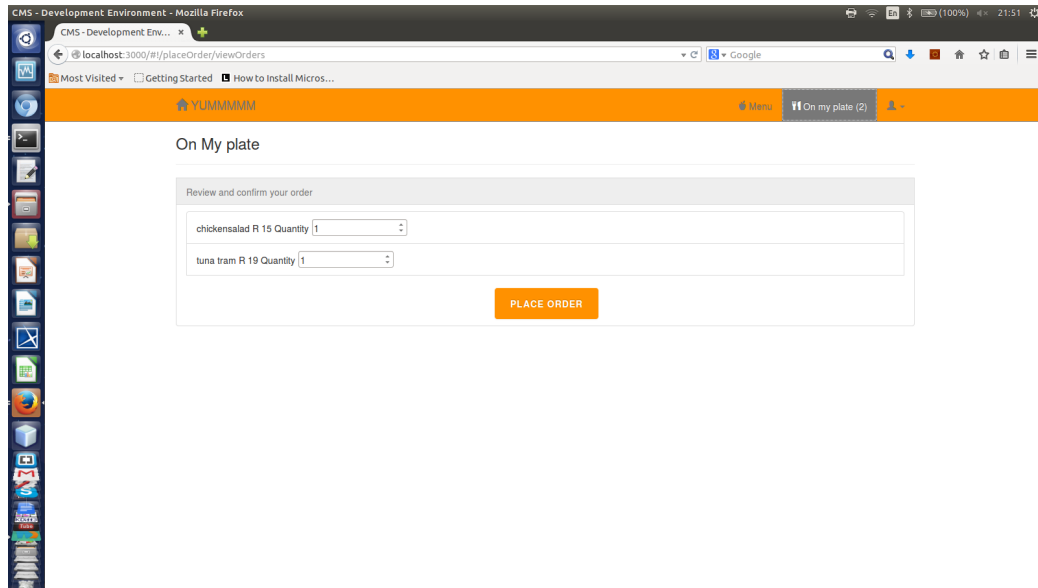


Figure 9: On my plate page - The meal you selected on the menu page is displayed here (Navigate here via the navigation bar)

5.6 The "Edit Profile" Page

The user will be presented with a similar form to that which they signed up with, however, the details that the user entered in the sign up form will be present in these textboxes. The user can proceed to edit these here. Clicking the submit button will indicate whether changes have been saved or if errors have been made and how the user can correct these.

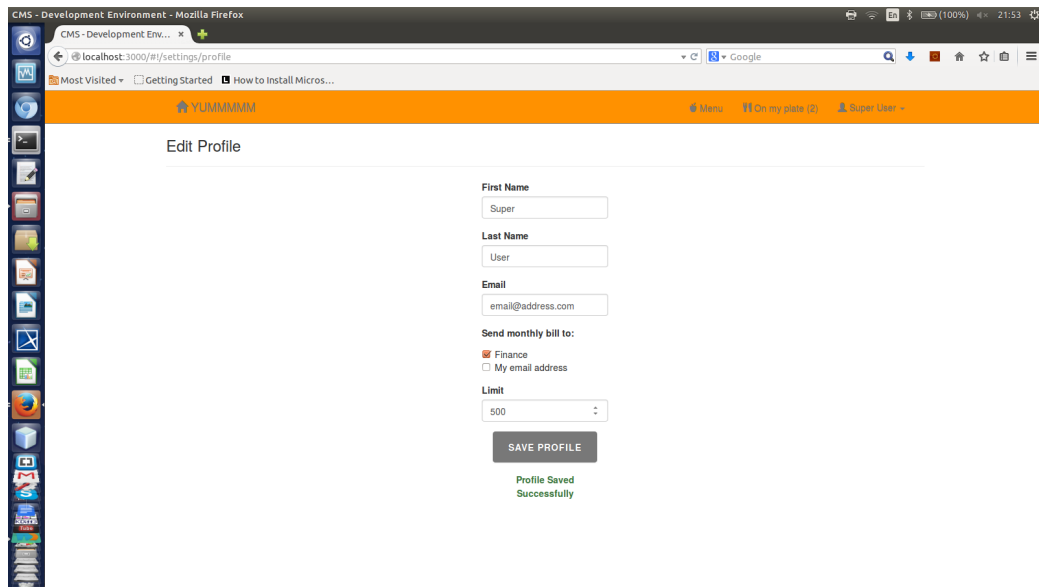


Figure 10: Edit profile page - Edit profile by typing into the textboxes and submitting for validation message and to save new information

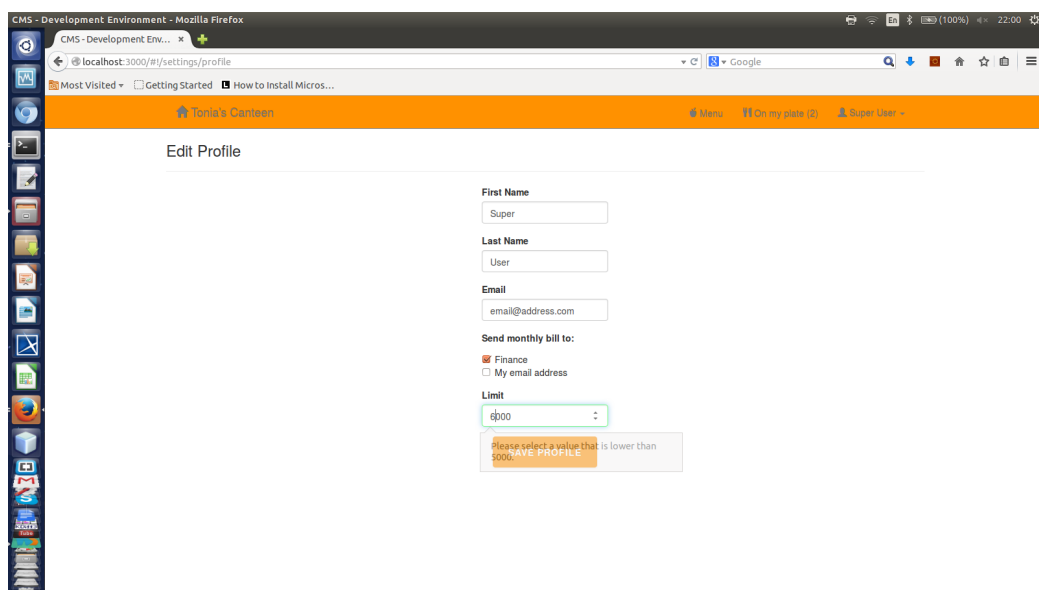


Figure 11: You must ensure your monthly spending limit is within the bounds of the maximum spending limit of the system, set by the superuser

5.7 The "Profile" Page

This is where the user will be able to view their profile i.e. the details they entered when they signed up/ edited their profile.

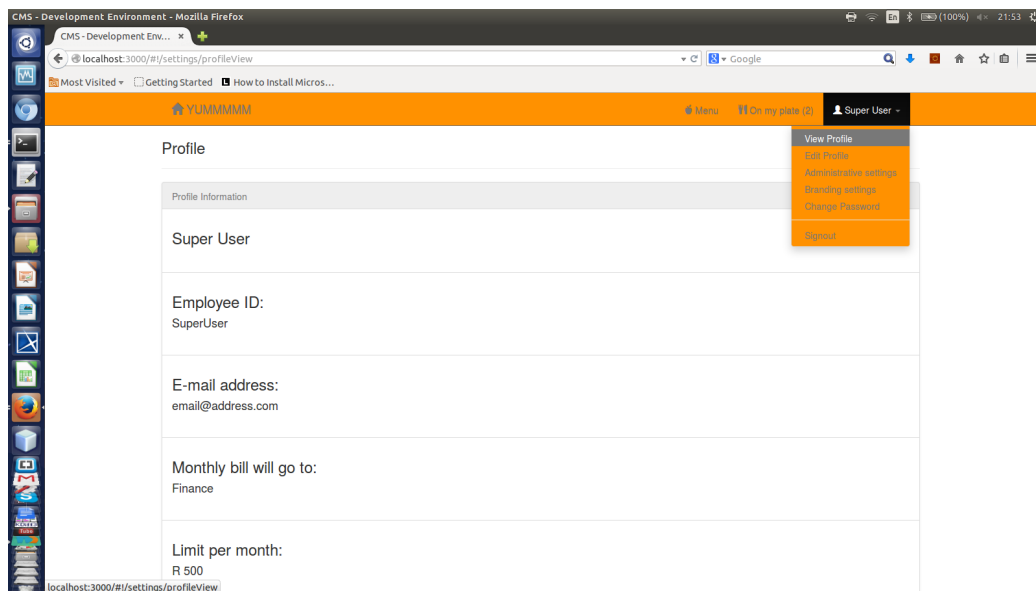


Figure 12: The profile page - where you view your profile (via the orange navigation tab menu indicated)

5.8 The "Change Password" Page

The user is presented with a form where the user will be asked to enter their old and new passwords to change their password.

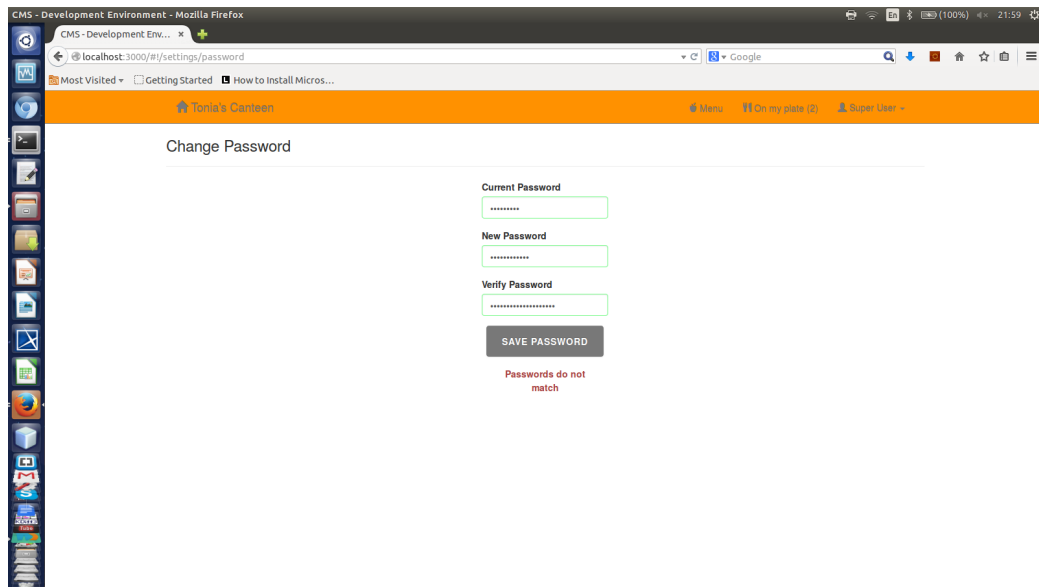


Figure 13: Can change password on this page - validation message will be displayed indicating if change was successful or not

5.9 Superuser: The "Administrative Settings" Page

At the top of the page there is a section labelled assign roles, where different admin roles will be assigned to different users. The superuser simply has to type in an employee ID and select a role from the dropdown menu below. There is a section underneath that where the superuser can change the user ID of an employee. Self explanatory textboxes are provided for the superuser to fill in and the submit button will save the changes, unless an error occurs. This page also consists of a section labelled "Change system limit" and it is here where the superuser can alter the limit of the system, i.e. the maximum value that a user can set their daily spending limits to. Hence a textbox is provided for the superuser to type the new limit and save it.

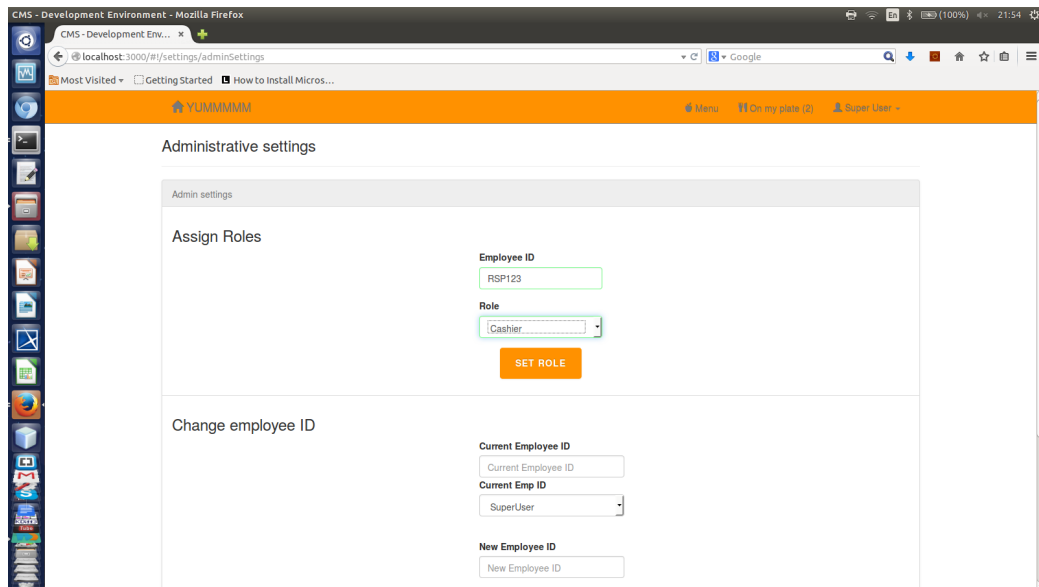


Figure 14: The admin page - superuser can assign roles such as cashier to users

5.10 Superuser: The "Branding Settings" Page

There are two sections on this page. One where the user can change the canteen name, by merely typing in a new name over the old name in the allocated textbox, and another where the superuser can upload a new cover photo for the system.

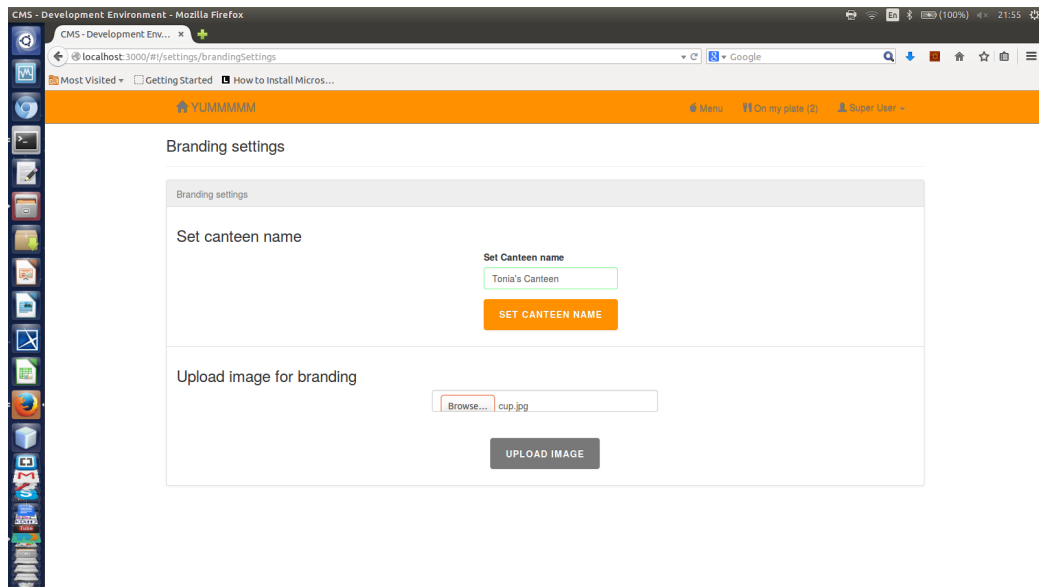


Figure 15: The admin settings page - superuser can change the System Branding

5.11 Cashier: The "Process Orders" Page

This page is for the use of the cashier. Orders can be marked as ready via the checkboxes and can also be marked as completed or paid and completed. The option "Send notification" is available for the cashier to send an email to the users when their order is ready for collection.

5.12 Financial Manager: The "View Employee Bills" Page

There is a field labelled "Employee Id" and it is in here where a user will type in the employee ID

6 Troubleshooting

6.1 Problems with setting up the system

If the system does not start up when you run the 'grunt' command, either of the following procedures can be followed:

- Ensure you have an active internet connection as the system requires an internet connection.

- Ensure you have MongoDB running in a separate terminal.
The line

`Waiting for connections on port 27017`

should be displayed at the end of the Mongo terminal.

- If the above does not solve the problem, the command `npm update` should be run from inside the CMS directory:

`~/Cafeteria Management System$ npm update`

- If the problem persists the following commands should be run in order:

`~/Cafeteria Management System$ bower install`

`~/Cafeteria Management System$ npm install`

`~/Cafeteria Management System$ npm update`