

COM 1001 Introduction to Software Engineering

Second Iteration Team Report

Group 31

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1. How to run and access our system

a. The exact commands needed to start the system (Assuming the repository is cloned from GitHub into a new system and no gems have been installed yet).

1. cd team-31 (Only if you are not already in team-31 directory)
2. sudo gem install bundler
3. bundle install
4. rake restoredb
5. rake run

b. Usernames and passwords (Twitter account)

- i. Admin account (have access to the control panel)
 - Username: pizza_31
 - Password: com1001team31
- ii. Sheffield account (customer)
 - Username : pizza31_shef
 - Password: com1001team31
- iii. London account (customer)
 - Username: pizza31_lon
 - Password: com1001team31

c. Special details

- i. When you first sign in using any of the accounts, you will be redirected to the "My Profile" page since none of the accounts are registered in the database yet. Therefore, you will have to fill in the **email address, phone, postcode, and address** in order to proceed. ***Only the phone and postcode have to be in the valid format**
- ii. For the **Admin** and **Sheffield** account, use the information below and click **Save Changes**:
 - Email : pizza31@gmail.com
 - Phone : 01142332777
 - Postcode : S10 2TN
 - Address : Western Bank

- iii. For the **London** account, use the information below and click **Save Changes**:
- Email : pizza31@gmail.com
 - Phone : 01142332777
 - Postcode : WC2H 9DP
 - Address : 13 Neal's Yard
- iv. After providing the details, you should be able to **add** the pizzas into the **basket** and **tweet** the order in the **ORDER** page. It is **strongly recommended** to open a **normal** browser window and an **incognito** window, one logged in using the **Admin** account and one logged in using the **Customer** account to see how the ordering system works.

Below is a simple demonstration of the ordering system:

I am logged in using the **pizza31_shef** account. Therefore, the Sheffield menu is displayed instead of London menu. To add a pizza, simply go to the **menu** page after you have **completed** your profile information, and then click "**Add to Basket**".

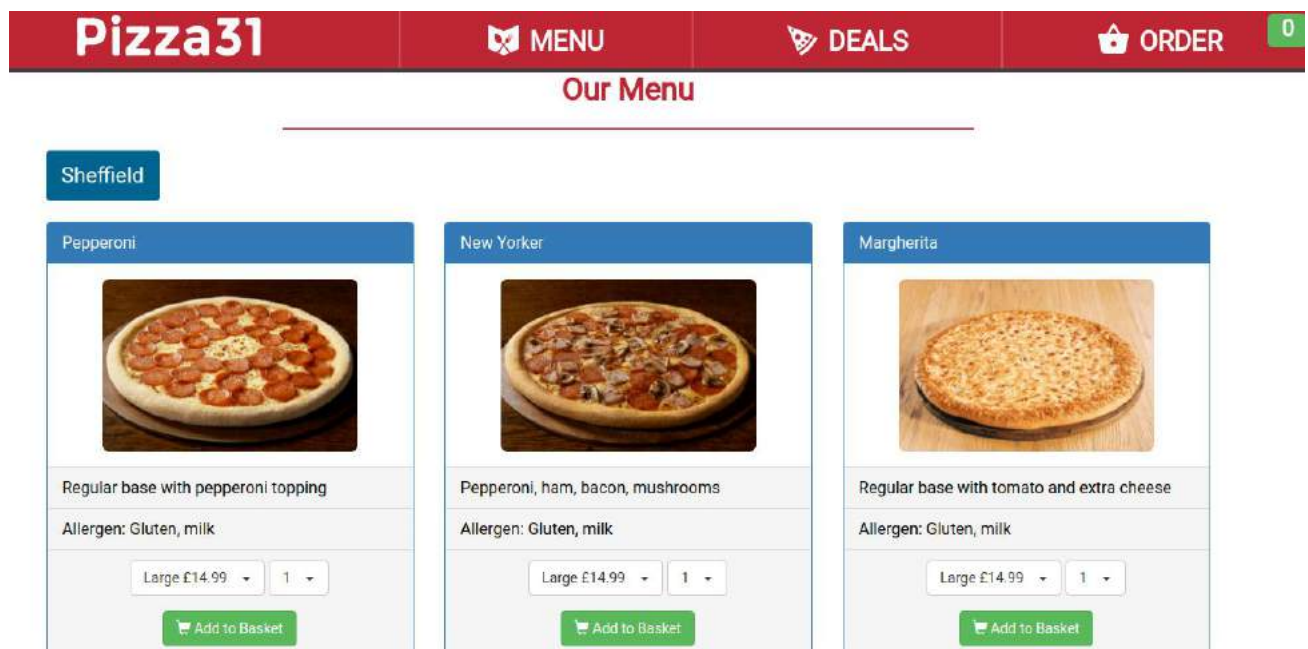


Image 1. Screenshot of Sheffield menu page

By default, all users are given a special offer "PIZZA31", which gives a 10% discount and it can only be used once. The order can be customised on the **ORDER** page. When you are done, click the **Tweet to Order** to place your order.

Image 2. Screenshot of order page

The order is automatically tweeted to the **Admin** account (@pizza_31).



Image 3. Screenshot of Twitter after placing an order

To check if the order is fetched and stored into the database, sign in using the **Admin** account and click on the **Control Panel** at the **footer**. You will be redirected to the **Control Panel** page, which is only accessible for admin.

Pizza31

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Image 4. Screenshot of footer of the website

Go to the **Sheffield Orders** page if you used the **Sheffield account** to place an order. You should see all the details about the order, including the date and price at here.

31 Overview Menu Deals Sheffield Orders London Orders Special Offers Sheffield Sales London Sales Accounts

Pending Orders Active Orders Completed Orders Cancelled Orders

Pending Orders - Sheffield

Show 15 entries Search:

Order ID	Username	Order Type	Order Info	Date	Total Price	Action
1	pizza31_shef	Delivery	@pizza_31 (Delivery) Pepperoni, L:1 *Mozzarella, BBQ, No onion #order1	2017-04-28	14.99	Reply Active Cancel <input type="checkbox"/> Confirm

Showing 1 to 1 of 1 entries Previous 1 Next

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Image 5. Screenshot of Sheffield Orders page (inside Control Panel)

NOTE: The statistics at **Overview**, **Sheffield Sales**, and **London Sales** will only be updated after an order has been marked as **"Active"** by clicking the **"Active"** button.

The user can view their order history by clicking on **My Orders**, they can also view their own special offers by clicking on **My Offers**.

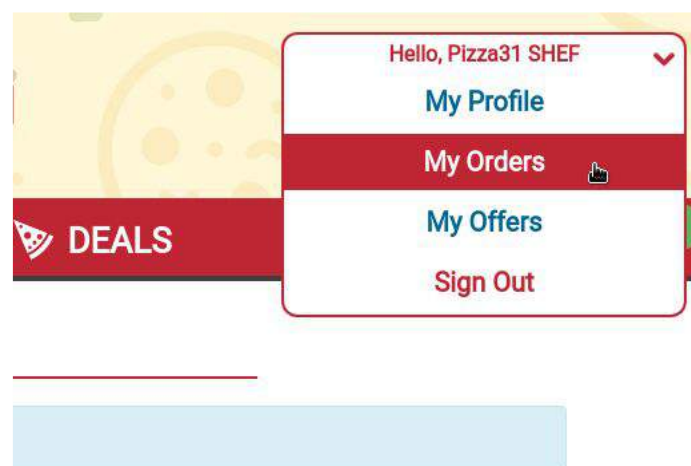


Image 6. Screenshot of the overlay menu after logging in

- v. In the **Rakefile**, we have included tasks to delete and restore all databases to their initial state, run the Cucumber test, run the MiniTest and run the Sinatra app locally.
(Make sure you are in the team-31 directory)
- To restore the databases, enter **rake restoredb** into the terminal
 - This will delete all .sqlite files and recreate them from the .sql files
 - To run the Cucumber test, enter **rake cucumber** into the terminal
 - This will automatically run **rake restoredb** to ensure that the databases are in the initial state
 - Please do not run the cucumber test separately on each .feature files as some of the scenarios required previous steps to be run first.
 - As our Cucumber test will tweet 18 times on each run for testing purposes, running the test too many times in a short period will result in an **Error Code 226: This request looks like it might be automated** and cause the half of the scenarios to fail. If the Cucumber test failed and the error shown in console is **CLOSED Looks like we're having some server issues**, it is because we have disabled the exceptions and made an error handling page to make our website more user friendly.

2. Resubmission of stories, with changed annotated and highlighted

Below are the stories that have been changed during the implementation:

→ This indicates the original part

→ This indicates the changes made

→ This indicates the reason

User / Customer:

- As a new customer, I would like to provide my address, so the admin can know where to send my pizza.
 - When connecting with the system for the first time, I will be prompted to enter my address details.

- If I enter wrong address details, I will have the option to edit their address at any point.
 - If the postcode given does not exist, i.e. in an incorrect format, an error message will notify me.
 - If the address provided, is more than 2 miles from the store, I will be notified that the distance is too great for delivery. If my address provided is more than 2 miles from the store, I will be notified that the distance is too great for delivery but I can still choose collection as my order option.
 - There is no reason to prevent a customer from ordering. The customer might be somewhere near our store at the time of ordering even though his provided address is too far from our store.
 - The client priority is **high** - without an address, the admin cannot send the order to the customer. Requires an estimated effort: **0** - the target clientele will have no difficulty entering address details.
- As a new customer, I would like to view the menu before signing in, so that I can know what products are provided.
 - All the products on the menu are the same for both registered user and unregistered user. The menu is now separated into London menu and Sheffield menu. Only unregistered user and user whose location is not set as either London or Sheffield on the Twitter account can view both menus. However, a user with London or Sheffield set as their location in their Twitter account will only see the menu corresponding to their location.
 - The Sheffield menu is different from the London menu. Some pizzas are exclusively for Sheffield while some are for London. Therefore, users from Sheffield will not be able to order pizzas from the London menu since we cannot make delivery from London to Sheffield.
 - Unregistered users will be able to view the promotion section too. All users will be able to view the deals section.
 - The deals section should be made public to attract new or unregistered customers.
 - Details of the product will be shown below the image
 - The client priority is **high**, the user can view the menu at any time during the ordering process. The estimated effort is **1**.

- As a customer, I would like to place my order using tweets as it is a convenient way to order food.
 - If the order information is incomplete, I will be asked by the admin to add more information through a new tweet. If the order information is incomplete or invalid, I will be asked by the admin for more information through replies under the tweet.
 - If every incomplete tweets need to start over in a new tweet to provide complete information, the system cannot afford to fetch the tweets so frequently as it will exceed the Twitter API rate limit.
 - If the order information is complete, the admin will ask for my confirmation of the order.
 - The client priority is **high**, as the premise of the company is to take orders through tweets and make profit. The estimated effort is **2**.
- As a new customer, I would like to provide my phone number, so the admin can call me.
 - When connecting with the system through authorisation the system can obtain the phone number through Twitter. The Twitter API does not provide both the user's email address and phone number. The new registered user will have to provide his phone number to us.
 - We may need to call our customer to verify whether the order is genuine or fake if he is not ordering from either Sheffield or London.
 - If I do not have a phone number registered to Twitter, I will be prompted to register one. I must provide my phone number when I first sign in to the website.
 - This is because the Twitter API does not provide the user's phone number. As a result, we will have to ask for our customer to provide their phone number after logging in.
 - If the phone number is incorrect or outside of the UK, the system will notify me.
 - The client priority is **medium**, as the admin can still communicate with the user via Twitter. The estimated effort is **1**.
- As a customer, I would like to choose delivery or collection in store so that it suits my needs.
 - I will be prompted to choose delivery or in-store collection as part of my order.
 - If I do not specify delivery or collection in my order, I will be asked by the admin to provide it. I must specify either delivery or collection in my order, otherwise I will not be able to place the order.

- To ensure the consistency across all orders, an order tweet must contain all the required information so that our system can easily fetch and store the information of the order tweet into our database.
- The client priority is **medium**. The estimated effort is **2**.

Admin:

- As an admin, I would like to receive orders through Twitter's tweets so that customers can place their order more easily. As an admin, I would like to view all the orders in our control panel so that I can handle all pending and active orders more efficiently.
- We have made a control panel system, which all the tweets are fetched into here. Admin can mark an order as active, completed or cancelled in the control panel. They can also reply to an order by clicking the reply button, which will open the tweet in a new window.
 - I can respond to an order quickly when it is tweeted by a customer
 - I can review the order history of a customer easily.
 - The client priority is **high**, and the estimated effort **3**.
- As an admin, I would like to tweet back to the customer if their order information is incomplete to ensure that the order is exactly what the customer wants. As an admin, I would like to tweet back to the customer if they are not placing the order through our website so that we can ensure that all order tweets are correctly formatted.
 - It is easier and more organised to fetch the information from a formatted order tweet and store it into the database. This is because not all users are going to place an order by typing the tweet in the same way. By fetching the correctly formatted tweets, the information of the tweets could be processed easily and the admin does not need to go through every tweet to check if the items in the order are valid.
 - I can view every tweet and check if the orders are existed on the menu, or check whether there are any missing information.
 - If the order information is complete, I am able to send them a confirmation tweet and proceed to next step.
 - The client priority is **high**, as the store cannot start making the food unless the order is completed. The estimated effort is **3**.
- As an admin, I would like to add special offers to specific customers only so that they would keep ordering from us.

- Any customer who is not eligible for any special offer will not be able to view that section. Customers who do not have any special offers given to their account will still be able to view the “My Offers” section, but they will see “You don’t have any special offers”. The “My Offers” section is made public for all registered users.
 - All the pages on our website except **Control Panel** should be available for all customers. There are no reasons to restrict a customer from accessing a non-admin page or function.
 - Special offer section is different for every customer.
 - The client priority is **medium**, and the estimated effort **3**.
- As an admin, I would like to unfollow or block users who spam tweets so that our Twitter page looks professional.
 - If someone keeps tweeting irrelevant tweets to business, I will unfollow them.
 - If the user is not followed by the admin, I will block him/her.
 - If a user keeps tweeting irrelevant tweets or spamming the order tweets to our Twitter profile, those tweets are not fetched into our database but the admin will report their account to Twitter and block them on Twitter.
 - This cannot be done automatically as we will have to fetch a tweet first to know if it’s a spam tweet, and that will exceed the Twitter rate limit. Therefore, the admin will have to handle spam tweets manually on the Twitter.
 - The client priority is **medium**, the estimated effort **1**.
- As an admin, I would like to group users according to their loyalty so that it will be easier for me apply the special offers. As an admin, I would like to change the status of a customer account from “regular” to “loyal” if he has more than 3 orders in a week. “Loyal” customer will have a 5% discount on their order.
 - “Loyal” and “regular” customers are automatically grouped in the table. The original story did not cover about making a “regular” customer account to “loyal”.
 - Group long-term and frequent customers together.
 - Group inactive and spamming users together before unfollowing them.
 - The loyal customer’s account will be changed back to regular if he did not make at least 3 orders in a week.
 - Since we are not going to fetch all tweets from Twitter, hence we can only know whether a user is spamming based on his behaviour on Twitter.
 - The client priority is **medium**, the estimated effort is **1**.

3. The stories planned to tackle in this iteration

NOTE: The changes above are included here

→ This indicates new user stories

→ This indicates the reason

User / Customer:

- As a customer from London, I would like to view the London menu, so that I can know which products are provided in my area.
 - The London menu will have some pizzas which are only available for London customers.
 - Sheffield customers will not be able to order a pizza which is only available in London menu.
 - The client priority is **high**. The estimated effort is **1**.
 - Our client is opening a new store in London, and they need two different menus for Sheffield and London. Therefore, we will need a new menu for London customers.
- As a customer from Sheffield, I would like to view the Sheffield menu, so that I can know which products are provided in my area.
 - The Sheffield menu will be different from the London menu. Some pizzas will be available in both areas, and some pizzas are only available for the specific area.
 - London customers will not be able to order a pizza which is only available in Sheffield menu.
 - The client priority is **high**. The estimated effort is **1**.
 - The Sheffield menu will have more pizzas added to it, which are not available for London menu.
- As a customer, I would like to place my order using tweets as it is a convenient way to order food.
 - If the order information is incomplete or invalid, I will be asked by the admin for more information through replies under the tweet.
 - If the order information is complete, the admin will ask for my confirmation of the order.

- The client priority is **high**, as the premise of the company is to take orders through tweets. The estimated effort is **2**.
- As a customer, I would like to receive confirmation from the admin so that I know that they have received my order.
 - I will receive a response in a tweet from the admin when an order information is complete and the admin will ask for my confirmation.
 - If I do not receive a confirmation, there are ways to communicate with the company to ensure a confirmation, e.g. tweeting an admin
 - The client priority is **high**, the user must know that the order has gone through. The estimated effort is **1**.
- As a customer, I would like to change my order before confirmation, in case I prefer other options.
 - I can edit my order, in the same way I chose it by tweeting it again before confirmation.
 - The admin will tweet to the user to confirm their changes before confirmation of the order.
 - After confirmation, I will not be able to modify the order.
 - The client priority is **medium**, as it is essential that the customers are pleased. The estimated effort **2**.
- As a customer, I would like to choose delivery or collection in store so that it suits my needs.
 - I will be prompted to choose delivery or in-store collection as part of my order.
 - I must specify either delivery or collection in my order, otherwise, I will not be able to place the order.
 - The client priority is **medium**. The estimated effort is **2**.
- As a customer, I would like to order pizza as shown on the menu or customize my own.
 - When I order the pizza, I can choose to have the standard pizza instead of a customised one.
 - If I don't want to have a standard pizza, they can customize the pizza with additional add-ons or toppings.

- The client priority is **low**, the user has control over what they are eating. The estimated effort is **3**.

Admin / Manager:

- As an admin, I would like to provide two different menus for London and Sheffield, so that customers from either location can see the products we provide.
 - London and Sheffield will have their own menu, and the menus will be different from each other.
 - Customers from Sheffield cannot order pizzas from London, and the same applies to customers from London.
 - The client priority is **high**. The estimated effort is **2**.
- As an admin, I would like to view all the orders in our control panel so that I can handle all pending and active orders more efficiently.
 - I can respond to an order quickly when it is tweeted by a customer
 - I can review the order history of a customer easily.
 - The client priority is **high**, and the estimated effort **3**.
- As an admin, I would like to tweet back to the customer if they are not placing the order through our website, so that we can ensure that all order tweets are correctly formatted.
 - I can view every tweet and check if the orders are existed on the menu, or check whether there are any missing information.
 - If the order information is complete, I am able to send them a confirmation tweet and proceed to next step.
 - The client priority is **high**, as the store cannot start making the food unless the order is completed. The estimated effort is **3**.
- As an admin, I would like to send a confirmation tweet to the user, so that the customer can know their orders have been placed.
 - Verify that the user has confirmed with the admin before sending the confirmation tweet.
 - If the order is not yet confirmed, the admin needs to ask for the user confirmation.
 - The user cannot change the order once it has been confirmed.
 - The client priority is **high**, as the store must receive the complete order in order to start making the food. The estimated effort is **2**.

- As an admin, I would like to create a new order in the system after the user has confirmed, as the store can only start preparing after receiving the confirmation.
 - Verify that the store is able to receive the new order created.
 - The client priority is **high**, and the estimated effort is **2**.
- As a website admin, I would like to add promotions to the menu so that any customer is informed about any of them.
 - Include a promotion section on the website to show the most up to date promotions by the company.
 - The marketing manager will be tweeting the promotions frequently to notify the customers.
 - The client priority is **medium**, and the estimated effort **3**.
- As an admin, I would like to modify special offers on user account so that user can view the special offers through their account.
 - For the customers who order frequently , admin can provide special offers to them.
 - If a customer's purchase reaches a certain amount, there will be a special discount.
 - The client priority is **medium**, and the estimated effort **3**.
- As a marketing manager, I would like to edit promotions in the menu if the sales statistics were not good since release so that the customers will be attracted.
 - Lower the price or make bundled promotion of certain products.
 - The client priority is **medium**, and the estimated effort is **2**.
- As an admin, I would like to add special offers to specific customers only so that they would keep ordering from us.
 - Customers who do not have any special offers given to their account will still be able to view the "**My Offers**" section, but they will see "You don't have any special offers". The "**My Offers**" section is made public for all registered users.
 - Special offer section is different for every customer.
 - The client priority is **medium**, and the estimated effort **3**.
- As an admin, I would like to follow users that are interested in our products, so that we can increase our customer base.
 - If a user's interests are pizza-related, this specific user will be followed.

- If a user asks something related to our business, this specific user will be followed.
 - The client priority is **medium**, and the estimated effort is **2**.
- As a marketing manager, I would like to tweet competitions for special promotions, so that new customers will be attracted.
 - When a limited edition promotion is tweeted, the promotion will be given to the users who first retweet them.
 - When a user has won a special promotion, the promotion will be applied directly to his/her account.
 - The client priority is **medium**, and the estimated effort is **2**.
- As a marketing manager, I would like to view the sales statistics so that I can know which products are the most popular.
 - For the least popular products, promotions will be held to promote the products to have better sales.
 - The least popular products may be bundled with a most popular product.
 - The client priority is **medium**, and the estimated effort is **2**.
- As an admin, I would like to unfollow or block users who spam tweets so that our Twitter page looks professional.
 - If a user keeps tweeting irrelevant tweets or spamming the order tweets to our Twitter profile, those tweets are not fetched and stored into our database but the admin will report their account to Twitter and block them on Twitter.
 - The client priority is **medium**, the estimated effort **1**.
- As an admin, I would like to group users according to their loyalty so that it will be easier for me apply the special offers.
 - Group long-term and frequent customers together.
 - Group inactive and spamming users together before unfollowing them.
 - The client priority is **medium**, the estimated effort **1**.
- As a marketing manager, I would like to follow users if they were a regular customer so that I can give special offers to them.
 - When a regular customer's order exceeds a certain amount, he may receive a free small pizza included in his order.

- Some special offers are exclusive for regular customer followed by the admin account only.
 - The client priority is **medium**, and the estimated effort is **1**.
- As a website admin, I would like to remove promotions from the menu when the period is over so that the customers will know that the promotion is no longer available.
 - If the period for a promotion is over, it has to be removed from the menu immediately.
 - The client priority is **low**, and the estimated effort **2**.
- As a marketing manager, I would like to tweet statistics about the most popular pizza.
 - The most popular products will have a discount when purchased with add-ons.
 - If the user ordered a bundle consists of the most and least popular products with some add-ons, they will receive a special offer directly applied to his/her account.
 - The client priority is **low**, and the estimated effort is **2**.
- As an admin, I would like to unfollow users if they haven't ordered in a long time so that only regular customers will benefit from the special offers.
 - When a regular customer stops ordering for at most 2 months, he/she will be grouped with other inactive users.
 - A user from the group will be unfollowed if they have not placed an order in 4 months.
 - The client priority is **low**, and the estimated effort is **1**.
- As an admin, I would like to send a tweet to the user when their order is dispatched so that the customer can know their orders are on their way.
 - Verify that the customers who choose for delivery will be notified.
 - The client priority is **low**, and the estimated effort is **1**.

In this iteration, we decided to finish the main functionality of the website. This includes the ordering system, promotions/deals, special offers and also the sales statistics. We have finished all the front-end web development in the first iteration, which includes the template and design frameworks of the website. Therefore, we only have to focus more on Ruby code and make sure all our test cases are going to pass.

4. Github commit graphs

Feb 5, 2017 – Apr 29, 2017

Contributions: **Commits** ▾

Contributions to master, excluding merge commits



Image 7. Screenshots of the GitHub Graphs

5. Burndown chart

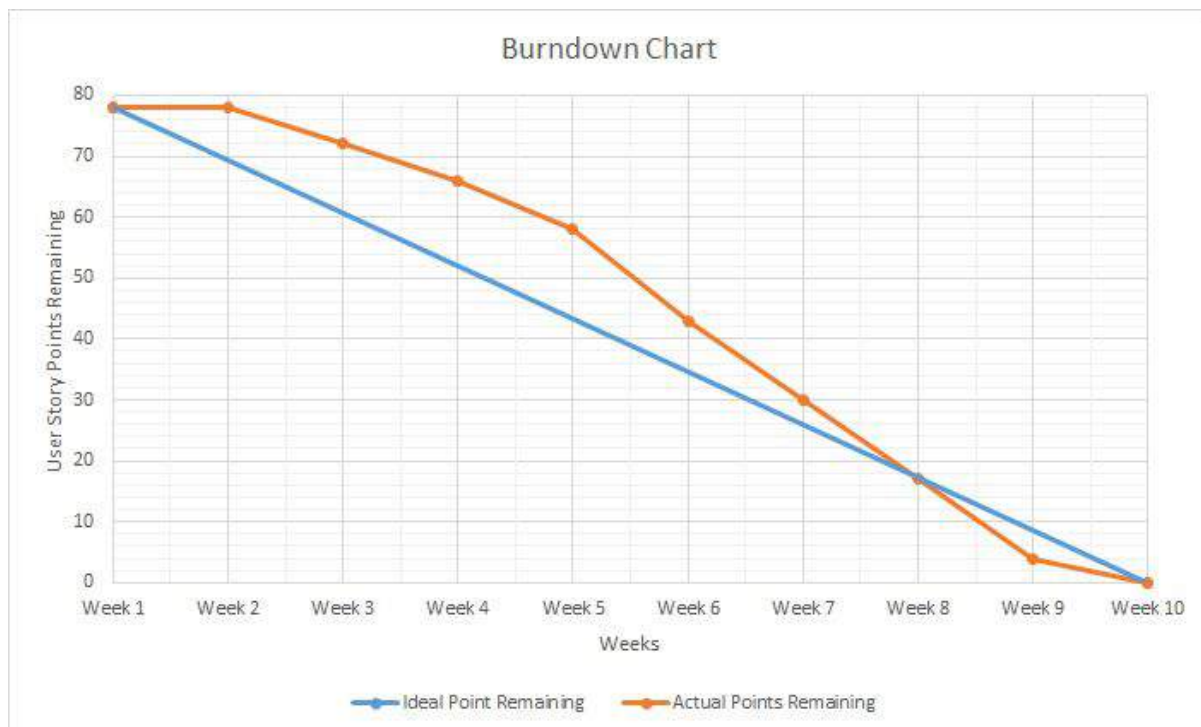


Image 8. Burndown chart of progress on each story over time

In the first iteration, we fell a bit behind in the beginning of this iteration because the stories that involved the database required a lot of manual testing first, to ensure its full functionality. We did not use any front-end framework like Bootstrap for responsive web design of our website, hence, it takes some time to tweak the CSS of each page. At the beginning, we did not think of implementing the control panel. We started implementing it at Week 4 and by that time all the adding, editing and deleting on the menu were done on the main website and in separated pages. Therefore, we thought to combine them into one page in the control panel and make sure the code of each form did not conflict with the other.

Before the Easter Break, we have split into 2 groups and each group is responsible for certain parts of the main function and testing. This allows us to divide the work more evenly and each group member will be able to contribute as well. We have set a deadline, which is 24th April, and we will have to finish all the main functions by that time. Therefore, it can be seen from the graph that we managed to make a huge progress during the break.

6. Testing and test coverage

```
Run options: --seed 24190
# Running:
....
Finished in 0.016945s, 236.0571 runs/s, 1416.3428 assertions/s.
4 runs, 24 assertions, 0 failures, 0 errors, 0 skips
[juneezee@Jun-Linux team-31]$
```

Image 9. Results of the MiniTest

This MiniTest is from first iteration. In this iteration we have made a Rakefile for restoring the databases, hence the MiniTest is optional because our program is able to be fully tested by

In our Cucumber test, as shown in **Image 10** and **Image 11** below, we have covered all user stories and their acceptance criteria, and they are all tested using the **Admin**, **Sheffield**, and **London** account, which includes:

- Providing false information in the **"My Profile"** section
- Trying to order without providing a location.
- Adding, editing and deleting **pizzas**, **deals**, and **special offers** from the database.
- Adding a duplicate **pizza**, **deal**, and **special offers**, and check if an error is returned
- Making orders using the **Sheffield** and **London** account.
- Making orders to see if **deals** are automatically applied
- Make an order using the default **special offer**
- Make **three** orders and check if the account is automatically changed to **"Loyal"**
- Re-buy an order again in the **"My Orders"** page
- Mark an order as **active**, **completed** or **cancelled**
- Check if the sales statistics is correctly updated after an order has been marked as **active**

Our Cucumber test is able to test all the main functions automatically. Each run of the Cucumber test will generate 18 tweets automatically to test for ordering, fetching the order tweets, and storing them into the database.

```

When I follow "Sign in with Twitter" within "#desktop_header"
# features/step_definitions/web_steps.rb:114
Then I should see "Hello, Pizza31"
# features/step_definitions/web_steps.rb:188
Then I should see "Control Panel" within ".footer_nav"
# features/step_definitions/web_steps.rb:188
When I go to the control panel page
# features/step_definitions/web_steps.rb:160
When I follow "Accounts" within ".navbar-collapse"
# features/step_definitions/web_steps.rb:114
Then I should be on the accounts control panel page
# features/step_definitions/web_steps.rb:295
Then I should see "Username Name Email Phone Address Location Postcode Status"
# features/step_definitions/web_steps.rb:188
Then I should see "pizza_31 Pizza31 pizza31@gmail.com 01142332777 Western Bank, S10 2TN Sheffield, England S10 2TN Admin"
# features/step_definitions/web_steps.rb:188
Then I should see "junezee ZerJun Eng engzerjun@gmail.com 07874304130 9 Conway Street, S3 7SU Sheffield, England S3 7SU Regular"
# features/step_definitions/web_steps.rb:188
Then I should see "Warning: Experimental Functions"
# features/step_definitions/web_steps.rb:188
Then I should see "Delete all accounts"
# features/step_definitions/web_steps.rb:188
When I check "Confirm for deletion"
# features/step_definitions/web_steps.rb:157
When I press "delete-all" within ".experimental"
# features/step_definitions/web_steps.rb:104
Then I should see "All accounts have been deleted"
# features/step_definitions/web_steps.rb:188
Then I should not see "pizza_31 Pizza31 pizza31@gmail.com 01142332777 Western Bank, S10 2TN Sheffield, England S10 2TN Admin"
# features/step_definitions/web_steps.rb:217
Then I should not see "junezee ZerJun Eng engzerjun@gmail.com 07874304130 9 Conway Street, S3 7SU Sheffield, England S3 7SU Regular"
# features/step_definitions/web_steps.rb:217

84 scenarios (84 passed)
1737 steps (1737 passed)
0m41.788s
Coverage report generated for Cucumber Features to /home/junezee/Desktop/team-31/testing/coverage. 781 / 781 LOC (100.0%) covered.
[junezee@Jun-Linux team-31]$

```

Image 10. Cucumber test console coverage report

All Files (100.0%) Generated less than a minute ago

All Files (100.0% covered at 54.34 hits/line)

15 files in total. 781 relevant lines. 781 lines covered and 0 lines missed

File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
Q /home/junezee/Desktop/team-31/pizza31/authentication.rb	100.0 %	168	61	61	0	23.3
Q /home/junezee/Desktop/team-31/pizza31/cp_accounts.rb	100.0 %	47	23	23	0	2.5
Q /home/junezee/Desktop/team-31/pizza31/cp_deals.rb	100.0 %	140	54	54	0	4.3
Q /home/junezee/Desktop/team-31/pizza31/cp_menu.rb	100.0 %	214	81	81	0	8.0
Q /home/junezee/Desktop/team-31/pizza31/cp_orders.rb	100.0 %	205	66	66	0	4.6
Q /home/junezee/Desktop/team-31/pizza31/cp_sales.rb	100.0 %	67	21	21	0	4.8
Q /home/junezee/Desktop/team-31/pizza31/cp_special_offers.rb	100.0 %	170	65	65	0	4.6
Q /home/junezee/Desktop/team-31/pizza31/error_handling.rb	100.0 %	16	6	6	0	4.0
Q /home/junezee/Desktop/team-31/pizza31/front_end.rb	100.0 %	264	128	128	0	23.0
Q /home/junezee/Desktop/team-31/pizza31/methods/account_methods.rb	100.0 %	108	38	38	0	61.9
Q /home/junezee/Desktop/team-31/pizza31/methods/deals_methods.rb	100.0 %	24	8	8	0	138.5
Q /home/junezee/Desktop/team-31/pizza31/methods/orders_methods.rb	100.0 %	431	147	147	0	11.3
Q /home/junezee/Desktop/team-31/pizza31/methods/pizza_methods.rb	100.0 %	101	32	32	0	750.6
Q /home/junezee/Desktop/team-31/pizza31/methods/special_offers_methods.rb	100.0 %	30	10	10	0	34.7
Q /home/junezee/Desktop/team-31/pizza31/pizza31.rb	100.0 %	74	41	41	0	168.8

Showing 1 to 15 of 15 entries

Image 11. Cucumber test web coverage report

Documentation of Manual Testing

Below are the screenshots of manual testing. The testing will be similar with the Cucumber test, but we will need to make sure the application work on the end users and does not crash into any errors.

The profile section for saving and editing information works without any problem on the **admin** and **London** account.

✓ Your changes have been saved! ✕

Account settings

The screenshot shows the 'Account settings' form for the Admin account. The form is enclosed in a red border. It contains the following fields and values:

- Username:** @ pizza_31
- Name:** Pizza31
- Location:** Sheffield, England
- Email:** pizza_31@gmail.com ✓
- Phone:** 01142332777 ✓
- Postcode:** S10 2TN ✓
- Address:** Western Bank ✓

At the bottom of the form is a red button labeled 'Save changes'.

Image 12. Profile section on the Admin account

✓ Your changes have been saved! ✕

Account settings

Username:

@ pizza31_lon

Name:

Pizza31 LON

Location:

London, England

Email:

pizza31@gmail.com ✓

Phone:

01142332777 ✓

Postcode:

WC2H 9DP ✓

Address:

13 Neal's Yard ✓

Save changes


Image 13. Profile section on the London account

The London menu is displayed when the account location is London.

Our Menu

London


Pepperoni



Regular base with pepperoni topping

Allergen: Gluten, milk


New Yorker



Pepperoni, ham, bacon, mushrooms

Allergen: Gluten, milk

Margherita





Regular base with tomato and extra cheese

Allergen: Gluten, milk

Image 14. London menu

We will try to add a lot of pizzas into the basket to check if the deals are automatically applied.

	BBQ sauce topped with smoky bacon, succulent roast chicken, red onions, green and red peppers Allergen: Gluten, milk, sulphur dioxide		Delete Update
	Veggie Lover A delightful combination of garden fresh onions, olives, capsicums and mushrooms, sweetened with pineapple chunks and diced tomatoes. Allergen: Gluten, milk	Large	<input type="text" value="1"/> £14.99 Delete Update

Showing 1 to 14 of 14 entries

Subtotal (17 items): £169.04

Go Large has been applied !
To see more information about the deals click me

Over £40 has been applied !
To see more information about the deals click me

Pepsi Lover has been applied! You get 2 free 2L Pepsi bottles
To see more information about the deals click me

Image 15. The order page, deals are automatically applied when the conditions are met.

Now we will add the default special offer, and customise our order:

PIZZA31 ▼

No cheese, No sauce, No onion ▲

☒ Delivery ☐ Collection

☒ Confirmation of order


 Tweet to Order

Image 16. Customising the order

After that, we will tweet the order and see if the order is automatically tweeted to **@pizza_31**.



Image 16. The order is automatically tweeted to the admin Twitter account.

Now we will go to the **“My Orders”** page, and the special offer discount will be applied to the final price. The price is changed from **169.04** to **152.14**, which is a 10% off.

My Orders

Search:

Order ID	Order Type	Order Info	Date	Total Price	Order Status	Action
1	Delivery	@pizza_31 {Delivery} Pepperoni, L:1, M:4 New Yorker, L:1 Margherita, L:1 Chicken Pepperoni, L:1 Ham & Pineapple, L:1 Texas BBQ, L:1 Curry Chicken, L:1 Hawaiian, L:1 Meat Galore, L:1 Ranch Style Chicken, L:1 Veggie Lover, L:1 Super Supreme, L:1 Shrimp & Spinach, L:1 *No cheese, No sauce, No onion #order1	2017-04-30	152.14	Pending	Buy it Again

Image 17. The order history page

Now we will make three orders, and our account will be automatically upgraded to “Loyal” status, and we will see a “5% off” message on the order page when we have pizzas in our basket.

Order ID	Order Type	Order Info	Date	Total Price	Order Status	Action
1	Delivery	@pizza_31 {Delivery} Pepperoni, L:1, M:4 New Yorker, L:1 Margherita, L:1 Chicken Pepperoni, L:1 Ham & Pineapple, L:1 Texas BBQ, L:1 Curry Chicken, L:1 Hawaiian, L:1 Meat Galore, L:1 Ranch Style Chicken, L:1 Veggie Lover, L:1 Super Supreme, L:1 Shrimp & Spinach, L:1 *No cheese, No sauce, No onion #order1	2017-04-30	152.14	Pending	Buy it Again
2	Delivery	@pizza_31 {Delivery} Pepperoni, L:1 #order2	2017-04-30	14.99	Pending	Buy it Again
3	Delivery	@pizza_31 {Delivery} Pepperoni, L:1, M:4 New Yorker, L:1 Margherita, L:1 Chicken Pepperoni, L:1 Ham & Pineapple, L:1 Texas BBQ, L:1 Curry Chicken, L:1 Hawaiian, L:1 Meat Galore, L:1 Ranch Style Chicken, L:1 Veggie Lover, L:1 Super Supreme, L:1 Shrimp & Spinach, L:1 *No cheese, No sauce, No onion #order3	2017-04-30	156.3	Pending	Buy it Again

Image 18. Three different orders made



Image 19. The notification from admin

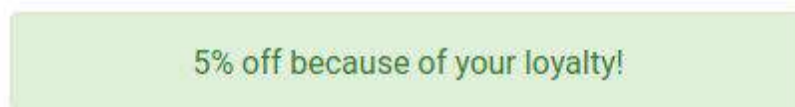


Image 20. Loyalty discount message

After those orders have been placed, we will now switch to the **admin** account and go to the control panel page, and there should be three pending orders on **London Orders**.

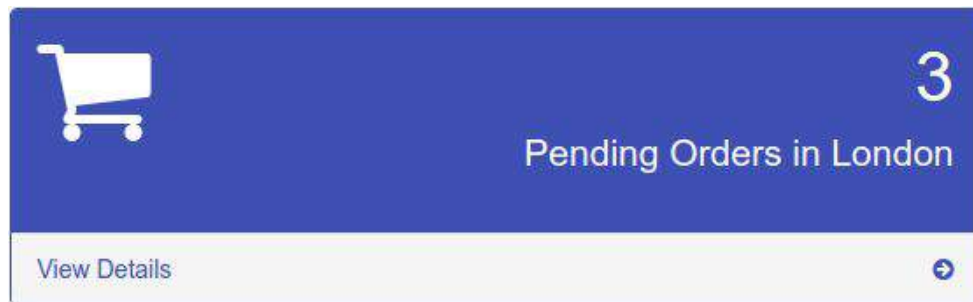


Image 21. Pending orders shown on the Overview page

Pending Orders

Active Orders

Completed Orders

Cancelled Orders

Pending Orders - London

Show

15

▼

entries

Search:

Order ID	Username	Order Type	Order Info	Date	Total Price	Action
1	pizza31_lon	Delivery	@pizza_31 {Delivery} Pepperoni, L:1, M:4 New Yorker, L:1 Margherita, L:1 Chicken Pepperoni, L:1 Ham & Pineapple, L:1 Texas BBQ, L:1 Curry Chicken, L:1 Hawaiian, L:1 Meat Galore, L:1 Ranch Style Chicken, L:1 Veggie Lover, L:1 Super Supreme, L:1 Shrimp & Spinach, L:1 *No cheese, No sauce, No onion #order1	2017-04-30	152.14	<div> Reply </div> <div>Active</div> <div>Cancel</div> <div> Confirm </div>
2	pizza31_lon	Delivery	@pizza_31 {Delivery} Pepperoni, L:1 #order2	2017-04-30	14.99	<div> Reply </div> <div>Active</div> <div>Cancel</div> <div> Confirm </div>
3	pizza31_lon	Delivery	@pizza_31 {Delivery} Pepperoni, L:1, M:4 New Yorker, L:1 Margherita, L:1 Chicken Pepperoni, L:1 Ham & Pineapple, L:1 Texas BBQ, L:1 Curry Chicken, L:1 Hawaiian, L:1 Meat Galore, L:1 Ranch Style Chicken, L:1 Veggie Lover, L:1 Super Supreme, L:1 Shrimp & Spinach, L:1 *No cheese, No sauce, No onion #order3	2017-04-30	156.3	<div> Reply </div> <div>Active</div> <div>Cancel</div> <div> Confirm </div>

Image 22. Three pending orders from the London account.

The **Reply** button will open the tweet in a new window. If we mark an order as **“Active”**, the order will be moved to the **“Active Orders”** tab, and the sales statistics will be updated. If we mark it as **“Cancel”**, the it will be moved to the **“Cancelled”** tab.

Pending Orders

Active Orders

Completed Orders

Cancelled Orders

Active Orders - London

Show

15

▼

entries

Search:

Order ID	Username	Order Type	Order Info	Date	Total Price	Action
1	pizza31_lon	Delivery	@pizza_31 (Delivery) Pepperoni, L:1, M:4 New Yorker, L:1 Margherita, L:1 Chicken Pepperoni, L:1 Ham & Pineapple, L:1 Texas BBQ, L:1 Curry Chicken, L:1 Hawaiian, L:1 Meat Galore, L:1 Ranch Style Chicken, L:1 Veggie Lover, L:1 Super Supreme, L:1 Shrimp & Spinach, L:1 *No cheese, No sauce, No onion #order1	2017-04-30	152.14	<div> <div></div> <div>Reply</div> </div> <div>Completed</div> <div> <div></div> <div>Confirm</div> </div>

Image 23. Order 1 marked as active.

Now we will add a new pizza into the menu database.

Add Pizza

Location: ☒ Both ☐ Sheffield ☐ London

Category: ☐ Regular ☒ Special

Name

Description

Allergen Information

Image


Choose file veggielover.png

+ Add

Image 24. Adding a pizza to the menu

After clicking the add, the pizza will be added to the menu and the database.

Test Pizza



Test Pizza

Allergen: Test Pizza

Large £18.99 1

Add to Basket








Location 	Category 	Name 	Description 	Allergen Information 	Image 
Both	Special	Test Pizza	Test Pizza	Test Pizza	

Image 25. Test Pizza added to the menu

We will try to give a special offer to our **London** account, and see if a message is automatically tweeted to the London account, and the London account can see the offer in his **"My Offers"**.

Add Special Offer

Name

Description

Discount

For user:

+ Add

Image 26. Adding a special offer to the London account

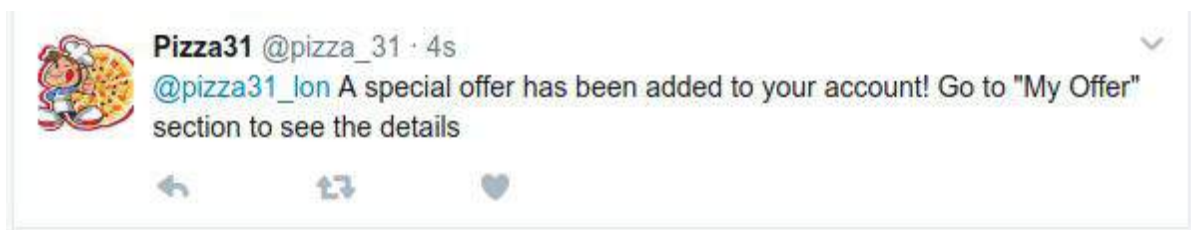


Image 27. Notification tweet from the admin account

We will switch back to the **London** account, and go to the **"My Offers"** section. The special offer is applied to the account and therefore the **London** account can see it.

My Special Offers

Search:

Code	Description
LONDONOFFER	50% Off
PIZZA31	10% Off

Image 28. Viewing the special offers of the London account.