

# Final Iteration Team Report

## Team 23 – Spicy Slice

Our team was assigned to produce a functional website for a Pizza company called Spicy Slice which accepts Pizza orders from Twitter.

### Start Up

Below are the steps on how to boot up our website

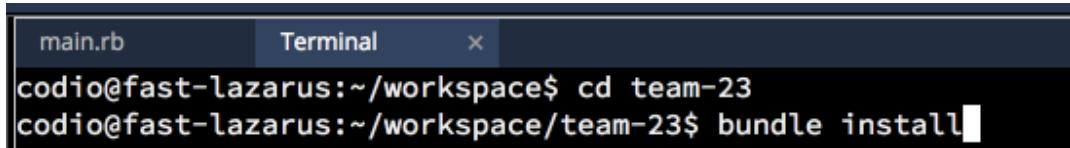
- First off the code needs to be cloned to your local repository and this can be done by cloning our website from <https://github.com/COM1001/team-23.git>.

The code for doing this is : **git clone https://github.com/COM1001/team-23.git**

- Once this has been done, you now have our entire website in your local repository and to fire it up you need to follow the following commands on your terminal window.

**cd team-23** – This will take you to the main folder where you will be able to run our website from. Incase you do not see a team-23 folder, please find your way to “/home/codio/workspace/team-23/main.rb” by using the cd command

**bundle install** – This will install all the required bundles that you need to run the site



```
main.rb Terminal ×
codio@fast-lazarus:~/workspace$ cd team-23
codio@fast-lazarus:~/workspace/team-23$ bundle install
```

**ruby main.rb** - This will run the main ruby file which will run the website on your localhost, if you are on a server than it will run under the servers domain or ip.



```
Bundle complete! 10 Gemfile dependencies, 57 gems now installed.
Use `bundle show [gemname]` to see where a bundled gem is installed.
codio@fast-lazarus:~/workspace/team-23$ ruby main.rb
== Sinatra (v1.4.8) has taken the stage on 4567 for development with backup from Thin
Thin web server (v1.7.0 codename Dunder Mifflin)
Maximum connections set to 1024
Listening on 0.0.0.0:4567, CTRL+C to stop
```

If you are using codio to run the website, you will be able to find the domain name for your local node at the top of the terminal something like <http://winter-jet.codio.io>

To access our website you would need to run it on port 4567, for example <http://winter-jet.codio.io:4567> and this will bring up the home page of Spicy Slice.

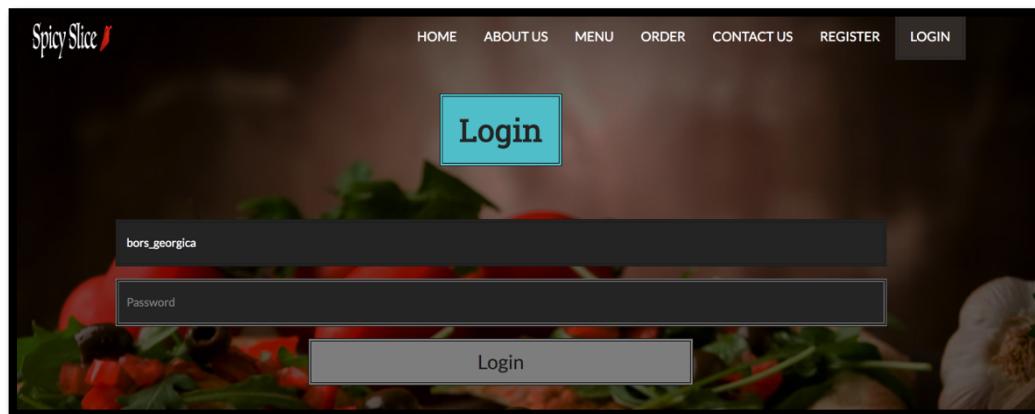
```
main.rb Terminal x
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.4.0-59-generic x86_64)

 * Documentation: https://help.ubuntu.com/
 *
 * Welcome to the Codio Terminal!
 *
 * README: https://codio.com/docs/ide/boxes/
 *
 * Your Codio Box domain is: fast-lazarus.codio.io[:1024-9999]
 *
Last login: Mon Apr 24 14:05:49 2017 from 192.168.10.79
codio@fast-lazarus:~/workspace$
```

That was how to start up the website, now if you have reached here successfully you will be able to view the entire website including the Login and Register buttons. Incase you are feeling lazy to register you can use the following logins to gain access into the client panel.

**Username : bors\_georgica**

**Password : 1234**



- If you wish to login to the **Admin Panel** you can access it by ending with “**admin/index**” instead of “client/index” after you have logged in.
- The delivery driver also gets his own page as requested by the client, and this can be accessed using the page “**deliver**”. For example **localhost:4567/deliver**

## User Stories

The table on the next page shows all our user stories with updated information such as changed user stories as well as user stories we were unable to complete with a reason for the same. Any new changes and feedbacks are highlighted with **blue**.

If a user story is fully complete then it shall be highlighted in **green**.

If we have managed to complete it partly then it shall be highlighted **yellow**.

And lastly, if we have been unable to complete it then it shall be highlighted **red**.

Client Priority	User Story	Acceptance Criteria	Estimated Effort
1	<p>As a customer I want to be able to order pizza on twitter</p>	<ul style="list-style-type: none"> <li>-The admin must see all orders which are received from twitter on the company website</li> <li>-The system should be able to pick up orders from twitter</li> <li>-The system must identify the twitter handle to a registered account in order to accept the order</li> </ul>	4
2	<p>As an admin, I want the user to confirm the order</p> <p>Button added to request confirmation and accept order by tweeting back</p>	<ul style="list-style-type: none"> <li>-The admin must be able to send a confirmation tweet to the customer who ordered</li> <li>-The customer must be able to reply back in order to confirm the order is correct</li> </ul>	2
3	<p>As a customer I want to be able to register</p> <p>Added another location “London” as per clients request</p>	<ul style="list-style-type: none"> <li>-The customer must be able to access the website</li> <li>-The customer must be able to enter their details in a form on a page</li> <li>-The system must create a new entry for the new registered customer in the database</li> </ul>	8
4	<p>As an admin, I want to be able to process the orders manually on the website so that I have full control of the orders.</p>	<ul style="list-style-type: none"> <li>-The admin must be able to add orders manually from the website</li> <li>-The admin must be able to edit orders manually from the website</li> <li>-The admin must be able to remove orders manually from the website</li> </ul> <p>We have all buttons in place for all the above and all actions are possible manually</p>	4
5	<p>As a customer, I want to be able to access the menu on the website</p>	<ul style="list-style-type: none"> <li>-The website must contain a menu page</li> </ul>	2
6	<p>As an admin, I want to be able to see all the order tweets received on the company website so that I don't need to go on twitter.</p>	<ul style="list-style-type: none"> <li>-The system must retrieve all the order tweets</li> <li>-The system must display all the retrieved tweets on a separate page on the website</li> </ul>	2

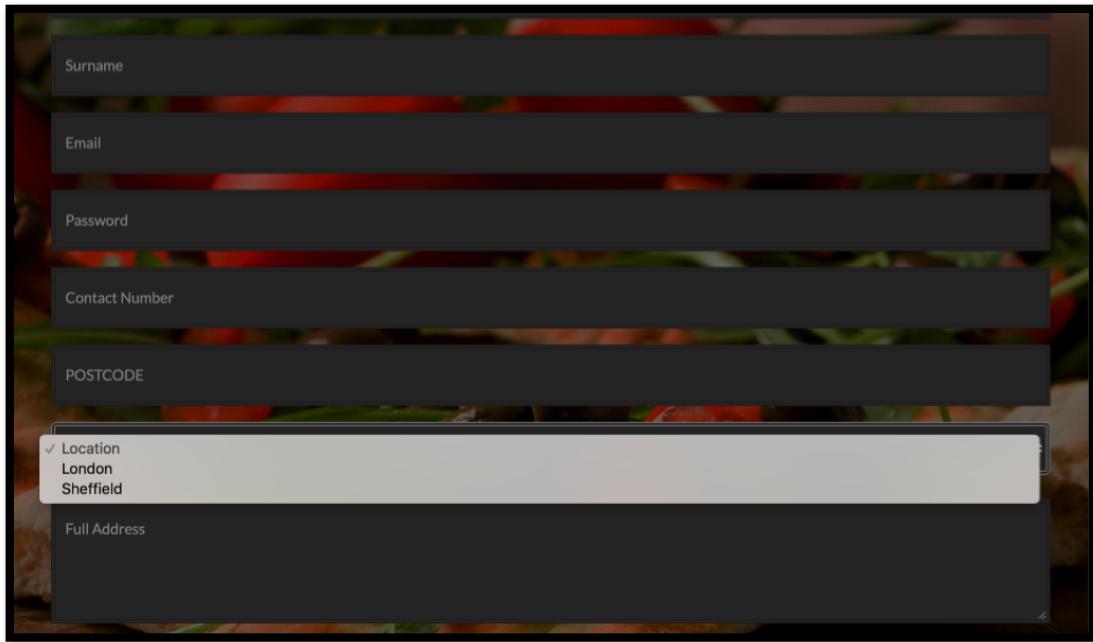
7	<p>As admin, I want to be able to confirm the user lives within 5 miles from the shop so that delivery is possible.</p> <p>It became hard to manage this after the client requested us to add "London" also.</p>	<ul style="list-style-type: none"> <li>-The customer must live in a 5 mile radius of the shop in order for delivery to be possible</li> <li>-This must be checked during the registration process</li> <li>-If the customer is not in the 5 mile radius, then they must be informed that the delivery is not possible to their address and they must collect instead</li> </ul>	8
8	<p>As a customer, I want to be able to change my details/address and twitter account so I don't need to create multiple accounts.</p>	<ul style="list-style-type: none"> <li>-The customer must be able to change the account information from the website</li> <li>-The customer must have an option on their profile page that allows them to change their details</li> </ul> <p>Added a settings button which allows the user to make any changes to his account as he wishes.</p>	4
9	<p>As an admin, I want the system to tell the user when the order goes through</p>	<ul style="list-style-type: none"> <li>-The customer must get a notification of some sort that tells the customer that their order has gone through</li> <li>-Notify them via twitter</li> </ul> <p>Customers are first asked to confirm order and then the order is accepted manually as requested by the client.</p>	4
10	<p>As an admin, I want to be able to see details of people who have registered with us on a webpage.</p>	<ul style="list-style-type: none"> <li>-The system must retrieve all the information about customers and display it in a table</li> </ul>	8
11	<p>As an admin, I want the system to automatically follow everyone that tweets the shop so that we improve our audience.</p>	<ul style="list-style-type: none"> <li>-The system must recognize that a certain username has tweeted the pizza shop</li> <li>-The system will follow them on twitter using their username regardless if they are a registered customer or not</li> </ul>	16
12	<p>As an admin, I want the system to automatically follow everyone that creates an account so that we improve our audience.</p> <p>Had to be disabled temporary because Twitter API would not accept it continuously</p>	<ul style="list-style-type: none"> <li>-The system will follow them on twitter using their username</li> <li>-The customers twitter username will be obtained during the registration process</li> </ul>	16
13	<p>As an admin, I want the main page on the website to display pizza adverts so that</p>	<ul style="list-style-type: none"> <li>-The homepage of the website must show adverts and current offers to attract different customers</li> <li>Along with that the website uses bootstrap which can be used to add ads</li> </ul>	1

	we get more customers.		
14	As an admin I want to have a button on the website to randomly choose a winning customer in a competition so that we assign them points.	<ul style="list-style-type: none"> <li>The system must create a list of people who have joined the competition</li> <li>The system must be able to choose a person at random</li> </ul> <p>The buttons and a small code for this is ready.</p>	4
15	As an admin, I want to be able to automatically give points to the winner of competitions so that they can use them in a later purchase.	<ul style="list-style-type: none"> <li>The system must be able to award points to the winner</li> <li>The winner can use the awarded points in later purchases</li> </ul> <p>HTML code for this is completely ready but we were unable to finish the ruby code.</p>	4
16	As a user, I want to be able to check the progress of orders on the website so that the customers stay informed	<ul style="list-style-type: none"> <li>The system should inform the customer when the order has been approved</li> <li>The system should inform the customer the pizza is on its way</li> </ul> <p>The client panel has all details as well as the client will be updated via Twitter</p>	16
17	As a delivery man, I would like to have a way of directly contacting the customer (phone number) so I can inform the customer when I arrive.	<ul style="list-style-type: none"> <li>The delivery man must be given the address of the customer as per the website</li> <li>The delivery man must be given a phone</li> </ul> <p>The delivery page is mobile friendly ( New requirement )</p>	2
18	As a customer, I want to be able to see how many points I have in my account	<ul style="list-style-type: none"> <li>The webpage must show a registered user a bar/page displaying the number of points they currently have</li> </ul>	2
19	As an admin, I want to have a page on the website with a list of all tweets with hash tag feedback so that we can improve our services	<ul style="list-style-type: none"> <li>If logged in as an admin, you should have an option to show you the feedback</li> <li>The page should contain all the feedback tweets received number to contact in case he has trouble finding the exact house / location of the customer</li> </ul>	8
20	As an admin, I want to be able to see a graph on the website that shows how many people followed the pizza company on the last week so that progress of the company can be analysed.	<ul style="list-style-type: none"> <li>The admin must be able to generate a graph of the number of people who followed the company on Twitter in order to analyze the popularity progress</li> </ul> <p>This had a really high difficulty and we decided to leave it for the last, however we were unable to finish it up.</p>	16
21	As a customer, I want to have a tracking	<ul style="list-style-type: none"> <li>The customer should have access to a</li> </ul>	16

	page for the delivery of the pizza *	page on the website where the order is being tracked step by step (order received, cooking, out for delivery, delivered)	
22	As an admin, I would like the website to look nice so that it is appealing to customers *	<ul style="list-style-type: none"> <li>-The page should look nice and be easy to follow</li> <li>-The website has a consistent look</li> <li>-The website should be accessible for any kind of person</li> <li>-The website should be able to be accessed on mobile devices</li> </ul>	2
23	As a customer, I want to be able to delete my account *	<ul style="list-style-type: none"> <li>-The user profile page should have an option allowing the customer to delete their account</li> <li>-The system should double verify if the user wants to delete their account by having a pop up box to confirm it</li> </ul>	2

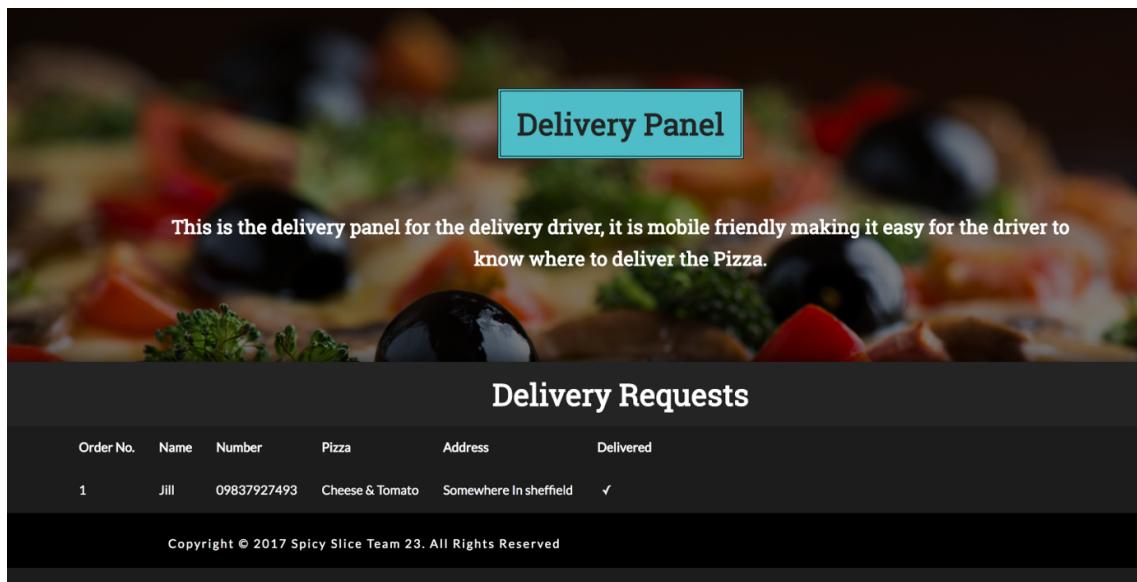
## Updates on user stories

Along with those user stories we had to make a few changes requested by the client such as adding another location which is “London”.



Compared to our last iteration, we have tried to complete all the user stories and maximized our efforts on the stories which have the highest priority and focused minimum on the user stories which were optional, however, the easy to do optional user stories were completed.

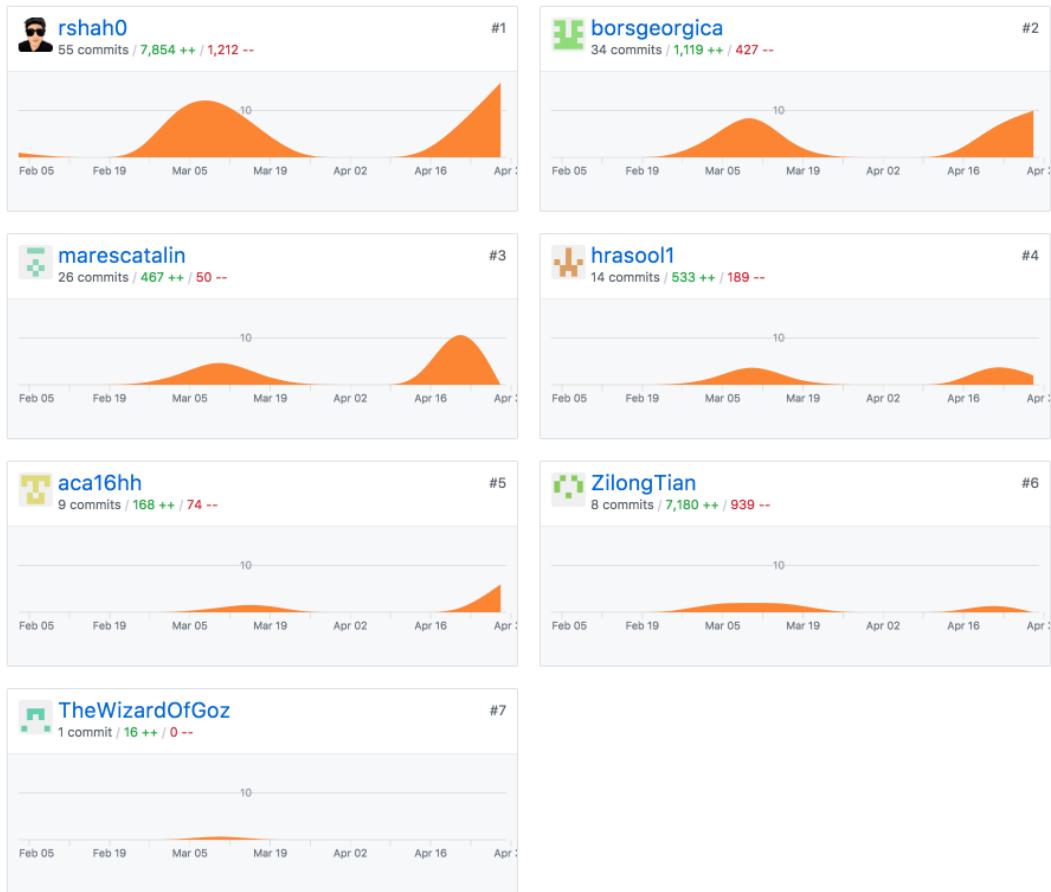
The client also asked us to make a different page for the delivery driver on our second iteration and we managed to make a mobile friendly page “localhost:4567/deliver” for the delivery driver himself, which will help him to deliver and mark the Pizza delivered when its complete.



We also focused on making the website mobile friendly and beautiful which itself would attract many customers. We have also tried to keep the website as simple as possible without many complications.

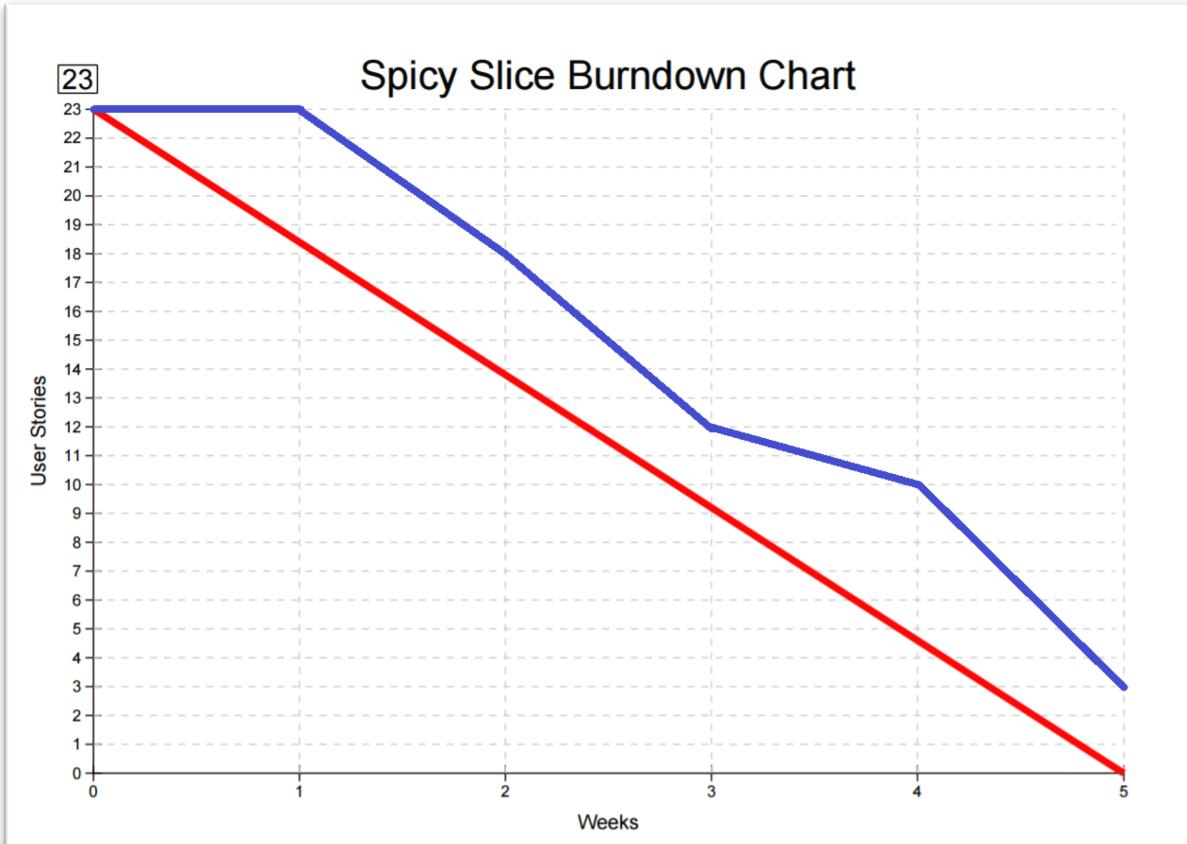
## The Github

We have all worked together as a team, this section contains graphs and other details from Github which was used to develop this project and the amount of work done by each user through the course of development.



## Burndown Chart

We have created a burn down chart to help us identify our activity and process of finishing the code in relation to the user stories provided by the client. We have tried our best to come up with an accurate burn down chart and have also recognized the user stories we were unable to complete in due time.



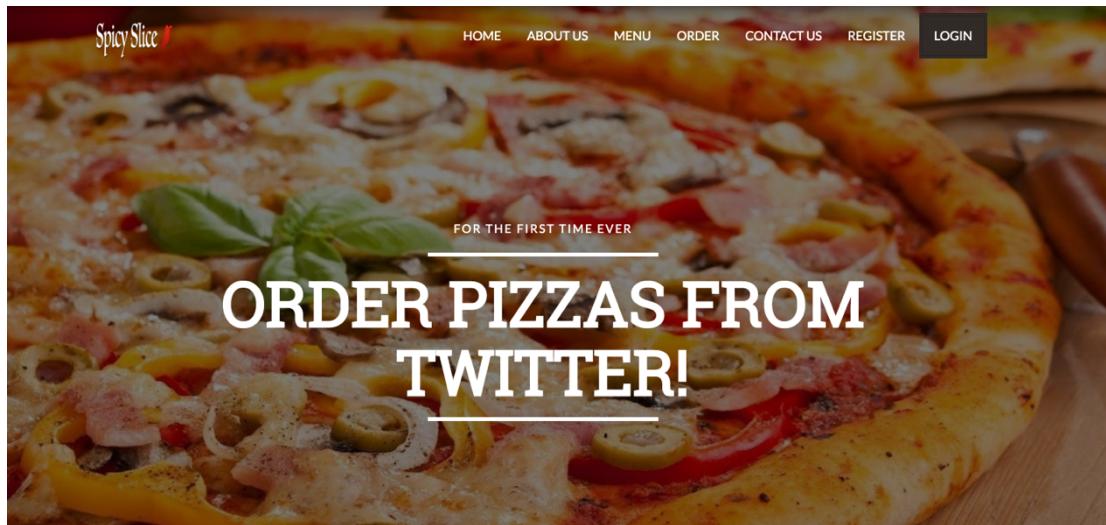
From the burn down chart, you can see that we started off at a slower pace but with time we moved up and tried to complete work throughout the 4 weeks. And we are left with approximately 3 user stories unfinished, due to changes the client made after the first iteration along with a few really difficult stories to code as per our estimated effort in the table above (user stories).

## Testing And Coverage

Coding brings up many issues and bugs which are not always seen, and therefore we did 3 different types of testing. One of them was **Visual Testing**, all group members went through the website to look for any small bugs that we could find and fixed It for example buttons not functioning as they are supposed to, or links are not working correctly and so on. Secondly we used **Cucumber** to do additional tests for different situations which can be expected. And lastly, we ran some **MiniTests** on our code to make sure we were submitting the best possible twitter based Pizza delivery system.

## Visual Testing

We made sure that the menu and bootstrap functioned properly on all different kinds of browsers.



We had to make sure that the menu was available to anybody, be it using a laptop, a tablet or a phone so we made the entire website mobile friendly.

A screenshot of the Spicy Slice website's menu section, displayed in a mobile-friendly layout. The menu items are listed vertically with small images of the pizzas to the left. Each item includes a description, size options, and a price. A note at the top indicates "(H) -> Hot || (V) -> Vegetarian".

Category	Description	Size Options	Price
Milano	Ventricina Salami and Prosciutto Ham.	Sizes: Medium, Large	£13/£15
Ardente (H)	Ventricina Salami, Jalapeños and Pepper Pearls.	Sizes: Medium, Large	£13/£15
Sicilia	Chicken Breast Strips, Cajun Seasoning, Red Onions and Pepper Pearls.	Sizes: Medium, Large	£13/£15
Verona	Prosciutto Ham and Chicken Breast.	Sizes: Medium, Large	£13/£15

We also made sure that the login and the register pages functioned properly taking us into the client panel when logged in and redirecting us to the Login page after registering so that a correct session can be logged. After successfully logging in, the user is taken to a simple page which displays the users name to give the feel of a working system.

**Welcome**

Welcome bors\_georgica to your Spicy Slice Panel! You will be able to access all your information as well as orders and menu from within this panel. Order now, you are only a tweet away!

How do i order?

Spicy slice is a restaurant based on a twitter ordering system which is one of its kind. We came up with this unique idea to allow customers to quickly order a pizza with the least possible problems!

To make an order, you need to go to twitter and tweet in the following format: "@spicyslice [size] [pizza type] #order". For example  
"@spicyslice Large Tomato & Cheese Pizza #order"

You have **200 Points** in your account!

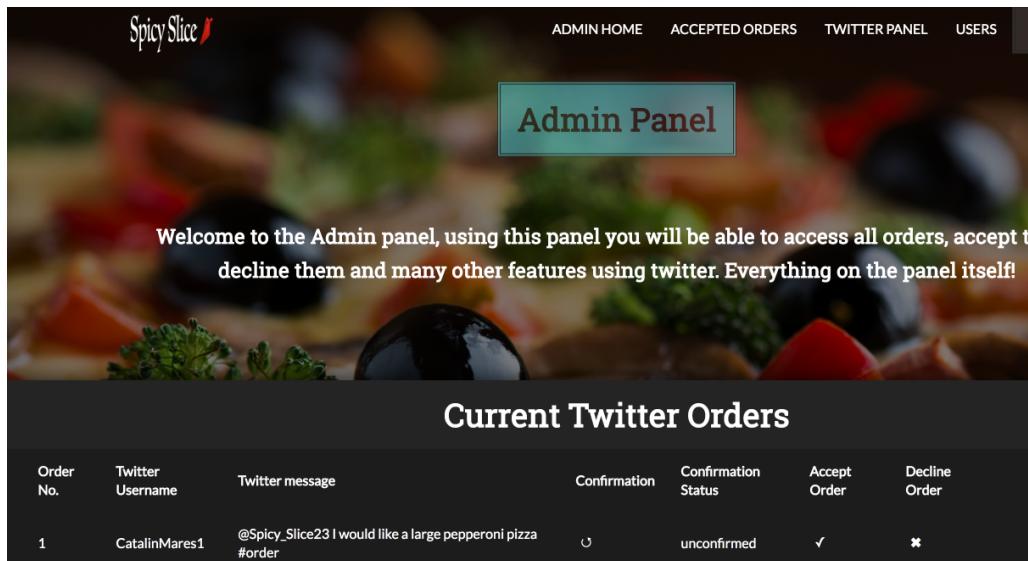
The client page also displays the points a user has as per our client's requests. The system also shows the current orders by the user saved in the database and the status of the orders such as "Baking" or "Out for delivery" and so on. This way the client is kept up to date on all orders.

## My Orders

Ordered via twitter? Great! you will find details on your order below. If it has been accepted by us or rejected due to location.  
Don't forget to order correctly!

Image	Location	Description	Status
	Milano	Ventricina Salami and Prosciutto Ham. Date: 12/12/12 Your selected size : Medium	Approved      Out for delivery

The client panel is simple and easy to understand. We tried to apply the same to the Admin panel, make it as simple as possible and reduce as much manual work as possible and so the admin panel refreshes itself to load for new orders and we used attractive and easy to use buttons for the confirmation and acceptance of the orders. The orders can either be accepted or declined after a confirmation is received.



As you can see above, there are attractive buttons and a simple to use system to accept and decline orders. The admin panel also has other pages such as the “Twitter Panel” and the “Users” page. The twitter panel allows the admin to send tweets, receive feedback from users and also runs the competitions as requested by the user.

## Cucumber

We ran numerous Cucumber tests, fixed very many errors and it all came down to this. As the screenshot below shows we have passed 220 steps and failed only 1 which is about 29 scenarios of which we have passed 28 and failed only 1 due to the step. These tests helped us make sure we have accounted different scenarios and made sure everything works perfectly on them.

```

login.erb          login.feature      register.feature    panel.feature     twitter.feature   database.txt   Terminal   Preview https://...
When I click on "Logout"                                # features/step_definitions/web_steps.rb:26
Then I should be on the loginpage                         # features/step_definitions/web_steps.rb:192

Scenario: Clicking on the menu page                      # features/userNav.feature:20
Given I am on the loginpage                             # features/step_definitions/web_steps.rb:12
When I fill in "username" with "zilongtian"             # features/step_definitions/web_steps.rb:36
When I fill in "password" with "123456"                  # features/step_definitions/web_steps.rb:36
When I press "Login" within "form"                      # features/step_definitions/web_steps.rb:20
Then I should be on the panelpage                        # features/step_definitions/web_steps.rb:192
When I click on "Menu"                                    # features/step_definitions/web_steps.rb:26
Then I should be on the clientmenupage                  # features/step_definitions/web_steps.rb:192

Feature: users

Scenario: users page                                     # features/users.feature:1
Given I am on the userspage                            # features/step_definitions/web_steps.rb:12
Then I should see "User List!"                          # features/step_definitions/web_steps.rb:36
Then I should see "Here you can find a list of all the users who have registered on this website!" # features/step_definitions/web_steps.rb:36
When I fill in "search" with "text"                     # features/step_definitions/web_steps.rb:26

Failing Scenarios:
cucumber features/register.feature:7 # Scenario: Register

29 scenarios (1 failed, 28 passed)
221 steps (1 failed, 220 passed)
0m2.575s
Coverage report generated for Cucumber Features to /home/codio/workspace/team-23/coverage. 184 / 256 LOC (71.88%) covered.
codio@colony-perfect:~/workspace/team-23$ 

```

Along with the results shown up there, we also looked at the coverage table shown below and found out that we have covered 80% of the code and missed only approximately 20% which is a fair number for a massive coded website like Spicy Slice

All Files (85.91%)	Generated a day ago					
All Files (85.91% covered at 8.01 hits/line)						
5 files in total. 149 relevant lines. 128 lines covered and 21 lines missed						
Search:						
File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
login.rb	42.86 %	39	14	6	8	1.9
main.rb	88.78 %	190	98	87	11	6.9
twitter.rb	90.91 %	111	22	20	2	19.6
register.rb	100.0 %	32	11	11	0	2.8
validate.rb	100.0 %	9	4	4	0	7.0

Showing 1 to 5 of 5 entries

Generated by simplecov v0.14.0 and simplecov-html v0.10.0 using Cucumber Features

## MiniTests

```
Terminal  x  minitest.rb  twitter.rb  x
Welcome to Ubuntu 14.04.5 LTS (GNU/Linux 4.4.0-59-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
*
* Welcome to the Codio Terminal!
*
* README: https://codio.com/docs/ide/boxes/
*
* Your Codio Box domain is: modular-tobacco.codio.io[:1024-9999]
*
Last login: Mon May  1 12:20:21 2017 from 192.168.10.79
codio@modular-tobacco:~/workspace$ cd team-23
codio@modular-tobacco:~/workspace/team-23$ ruby minitest.rb
Run options: --seed 51719

# Running:

E...E..

Finished in 0.001360s, 4410.7917 runs/s, 2940.5278 assertions/s.

 1) Error:
TestTwitterInteract#test_find_tweets:
NameError: undefined local variable or method `tweet' for #<TestTwitterInteract:0x00000001fcb308>
  minitest.rb:24:in `test_find_tweets'

 2) Error:
TestTwitterInteract#test_send_confirmation_tweet:
NameError: undefined local variable or method `username' for #<TestTwitterInteract:0x00000001fca390>
  minitest.rb:29:in `test_send_confirmation_tweet'

6 runs, 4 assertions, 0 failures, 2 errors, 0 skips
codio@modular-tobacco:~/workspace/team-23$
```

As you can see from the MiniTest results above we ran 6 tests from which we got the results of 4 assertions and 2 errors which informed us that our test are good to pass and we can move forward with them. We did try to fix the errors as much as we could but could not manage to fix these last 2.