

# Testing Report

## Client

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# **1. Introduction**

## **1.1 Purpose of This Document**

This document is intended for developers, managers, and testers. Various methodologies of testing the system will be discussed. FeedMe.com, like any website with the potential for a lot of user traffic, must be thoroughly tested to ensure stability, expose bugs and security vulnerabilities, as well as ensure responsiveness for the user.

## **1.2 References**

Systems Requirements Specification (SRS)

## 2. Testing Process

### 2.1 Description

The use cases for the website are outlined in the SRS document and will serve as the basis for which the tests are done. Each team member contributed scenarios that may result in unintended outcomes. We completed testing in various ways. We completed various types of tests including unit testing, white-box testing, penetration-testing, and user testing. Individual parts of the web site were thoroughly tested with both unintelligent and malicious users in mind. After unit tests were completed, the parts were integrated, and we verified that the parts work together.

### 2.2 Testing Sessions

Date	Location	Time Started	Time Ended	Performed By:	Use Case:
04/13/2014	Home	6pm	9pm	All members	Register, login, logout, submit review, edit profile, view profile, view restaurant reviews. All current functionality tested
04/21/2014	Skype	9pm	10pm	Minhaz, Seth	Testing newly added email functionality
04/24/2014	Library	6pm	8pm	Minhaz, Seth, Kiante, Giancarlo	Testing new UI elements added, new edit profile modal
04/26/2014	Library	6pm	8pm	Minhaz, Kiante	Tested search functionality and scalability of web page
04/28/2014	Library	9pm	11pm	Minhaz, Seth, Kiante	Tested administrator functionalities that were added and UI elements, and tagging system
04/29/2014	Google Hangout	8pm	9pm	All members	Tested all functional parts of the web page.

## 2.3 Impressions of the Process

The testing was pretty effective. We made sure all “intended” usage of the website was tested as well as unexpected and malicious usage. The website has a lot more functionality than it did in Spiral 2, so testing was more useful and allowed us to discover new bugs. The login, registration pages, and navigation bar work quite effectively, as things haven’t changed much since the first spiral. The restaurant.php and profile.php pages work well and have been tested thoroughly. The search results page for reviews has some scaling problems when going to mobile. The page is viewable still but does not look ideal. The rest of the page appear to be working just fine and the functionality is all working. The upvote/downvote system only allows you to upvote or downvote one time on a post or restaurant.

The strongest part of the website thus far is the registration and login process, the restaurant submission process and the restaurant page. The changes we made to the profile page and the search have not yet been tested enough. All data is sanitized, and we make sure that SQL injection and various other attacks are not possible. Users cannot access the login and registration pages once they are logged in. The registration process is very straightforward, with large enough buttons, font, and text boxes so that users are not confused.

All user data is stored in the database when the user registers. The database is also queried when the user attempts to log in. All passwords are hashed before being stored into the database to prevent stolen passwords. There are some scaling issues with a few parts of the website but all things are functional. Using ajax more would have made the page a little bit better as it would have allowed us to refresh smaller portions of the page.

### 3. Test Results

Testing was conducted using typical usage scenarios, as well as some testing for scenarios that typical users should not be in. We tested edge and boundary cases to ensure that the website correctly handles invalid situations that could result in unintended results on the website.

#### 3.1 Testing Suite

The table below contains various use cases and the results for each.

User attempts to register:

Use Case	
Good Scenario	The user creates a username with a unique username and email with (@umbc.edu) and no empty fields and confirmed password
Bad Scenario	User enters invalid email (non @umbc.edu) User enters pre-registered email or username Users password confirmation doesn't match User forgets any fields
Purpose	To ensure the user can register given the right inputs and to make sure they cannot register with invalid inputs
Expected results for good scenario	User is successfully registered and forwarded to the login page to sign in with their new credentials.
Expected results for bad scenario	The registration page is refreshed and user is notified of the errors in their input

User attempts to log in:

Use Case	
Good Scenario	User enters correct username and correct password
Bad Scenario	User enters wrong username User enters wrong password User forgets either field
Purpose	To ensure that users are able to login once they are registered
Expected results for good scenario	The user is forwarded to the home page and their name is displayed in the navigation bar on the top right.
Expected results for bad scenario	The user is brought back to the login page and notified that there was a problem with their inputs. Wrong password or username or missing fields.

User attempts to log out:

Use Case	

Good Scenario	After being logged in, the user hits the logout button.
Bad Scenario	Not possible to see the logout button without being logged in, so there are no bad scenarios we can think of yet.
Purpose	To make sure users can log out given they are logged in.
Expected results for good scenario	User is back at the home page and logged out
Expected results for bad scenario	N/A

#### User attempts to submit a review

Use Case	
Good Scenario	User logs in and goes to a restaurant page to submit a review and doesn't forget any fields and review is properly submitted.
Bad Scenario	User is not logged in and clicks on the submit a review button
Purpose	To ensure that users can submit a review for a restaurant
Expected results for good scenario	The page is refreshed and the user's review is shown on the page
Expected results for bad scenario	If the user is not logged in then a login modal dialog is shown. If the review has errors then the page is refreshed and the review is not submitted.

#### User attempts to edit profile:

Use Case	
Good Scenario	User is logged in and clicks on edit profile.
Bad Scenario	User is not logged in and tries to get to the profile page (profile.php)
Purpose	To ensure the user can change their biography, gender, profile image and food tags.
Expected results for good scenario	Page is refreshed and all updates to the profile are shown
Expected results for bad scenario	The user is sent to a 404 page

#### User upvotes or downvotes a restaurant:

Use Case	
----------	--

Good Scenario	User is logged in and is on the home page or the search results page for restaurants
Bad Scenario	User is not logged in and wants to upvote/downvote
Purpose	To ensure user can upvote a restaurant
Expected results for good scenario	The page is refreshed and the number of upvotes is incremented or decremented depending on what they user clicked
Expected results for bad scenario	The user would not be allowed to click the upvote button if they were not logged in.

#### User upvotes or downvotes a review:

Use Case	
Good Scenario	User is logged in and is on the home page or the search results page for reviews
Bad Scenario	User is not logged in and wants to upvote/downvote
Purpose	To ensure user can upvote a review
Expected results for good scenario	The page is refreshed and the number of upvotes is incremented or decremented depending on what they user clicked
Expected results for bad scenario	The user would not be allowed to click the upvote button if they were not logged in.

#### User attempts to search:

Use Case	
Good Scenario	User is on any page and has selected a filter and enters a search term in the box. Default filter is Reviews.
Bad Scenario	User does not enter anything in the search box and hits enter
Purpose	To ensure users can search for restaurants, reviews and users
Expected results for good scenario	The page is populated with results for the search and the amount of search results, empty if nothing is found
Expected results for bad scenario	The page is populated with nothing since the user searched for nothing

#### User flag a review:

Use Case	
----------	--

Good Scenario	User is signed in with at least moderator privileges. And user is on a page where a review is visible and clicks the flag button.
Bad Scenario	User is not signed in with at least moderator privileges.
Purpose	To ensure moderators and admins can flag reviews
Expected results for good scenario	The flag count for the review in the database is incremented, if it exceeds the threshold then it will be removed
Expected results for bad scenario	The flag button will not be available.

#### User removes a review:

Use Case	
Good Scenario	User is signed in with at admin privileges. And user is on a page where a review is visible and clicks the Trash/Remove button.
Bad Scenario	User is not signed in as an admin
Purpose	To ensure admins can remove reviews
Expected results for good scenario	The flags count for the review will be set to the threshold, which will make it no longer appear in results
Expected results for bad scenario	The trash button will not be available.

#### User wants to flag a user:

Use Case	
Good Scenario	User is signed in with at least moderator privileges. And user is on a users profile
Bad Scenario	User is not signed in with at least moderator privileges.
Purpose	To ensure moderators and admins can flag users
Expected results for good scenario	The flag count for the users in the database is incremented, if it exceeds the threshold then the user will be banned
Expected results for bad scenario	The flag button will not be available.

#### User wants to ban a user:

Use Case	
----------	--

Good Scenario	User is signed in as an admin. And user is on a users profile
Bad Scenario	User is not signed in as an admin
Purpose	To ensure admins can ban users
Expected results for good scenario	The flags count for the user will be set to at least the threshold so the user can no longer sign in
Expected results for bad scenario	The ban button will not be available

User wants to add a new restaurant:

Use Case	
Good Scenario	User is signed in as at least moderator level and clicks on the drop down to create a restaurant. They then complete the form correctly.
Bad Scenario	User is not signed in as a moderator or the form is not completed properly
Purpose	To ensure moderators and above can add new restaurants
Expected results for good scenario	the user is forwarded to the page for the restaurant they just added
Expected results for bad scenario	If user is not logged in as mod or higher then the button will not be available to create a new restaurant. If they are logged in but fill out the form incorrectly then they will be sent back to the same page.

User wants to add a comment to a review:

Use Case	
Good Scenario	User is signed in and goes to the comment page for a review and clicks on Write a comment, enters a comment and hits post.
Bad Scenario	User is not signed in or leaves comment blank.
Purpose	To ensure users can add sub-comments to a review
Expected results for good scenario	The comment is added to the page and the user is able to view it.
Expected results for bad scenario	If user is not logged in then they won't see the option to add a comment. If they try to add a blank comment then they will be warned.

### 3.2 Test Results

## Test Results

State the name of the tester for the particular use case. Summarize those test cases from the above that you were not able to execute, for any reason, and briefly explain the difficulty. Summarize those test cases that ran and the actual result was identical to the expected result. Summarize those test cases that ran and the actual result was not the same as the expected result, but was nevertheless correct. Explain the discrepancy. Describe each defect detected. For each defect, outline either a suggested repair or the actual repair you made. In the cases where you successfully removed the bug, or at least tried to fix the bug but were unable to do so, briefly describe any changes you made to the program, including the modules, functions, classes, data structures, etc. affected. Try to explain the underlying logical cause of the defect in the program code.

## Registering a user. Performed by Minhaz Mahmud.

1. On home page clicking on Register forwards to the register page.

**Login      Register**

2. Registration page fill out the form:

Email

Username

First name

Lastname

Password

Confirm Password

Gender

When did you first arrive at UMBC?

With all valid input the user is forwarded to the login page.

With a non umbc email address:

Email - Invalid email

Attempting to register a username or email that is already registered:

Email - minhaz1@umbc.edu is already in use

Username - minhazm is already in use

## Any missing fields:

Email - Email is missing

Username - Login ID missing

First name - First name missing

Lastname - Last name missing

Password - Password missing

Confirm Password

Gender - Please select a gender

- With all valid input the user is successfully logged in and gets to the home page with their name on the top right in the navbar.



- With invalid input:

### Missing login or password:

Username - Login ID missing

Password - Password missing

### Incorrect username or password:

Username - Wrong Username or  
Password

Password

## Submitting a review to restaurant. Performed by Kiante' Brantley.

1. Logged into the webpage
2. Click on the chick-fil-a restaurant

The screenshot shows the FeedMe website interface. At the top, there is a navigation bar with links for 'Home', 'FeedMe Quick', 'Logout', and other user-specific options. Below the navigation bar, the page title is 'Chick Fil A'. It displays two images of chicken sandwiches: one whole sandwich and one partially eaten sandwich. Below each image is a review text entry field. The first review reads:

Never received anything less than stellar service here. I only give one star because I believe that there is now something wrong with the quality of food that they are serving here and universally at all Chick Filas. I remember when eating at here was once consider eating healthier. Now there is just so much grease on the food and all over the bags. I used to eat here and my stomach would not be bothered, now I get so many stomach pains. Either something is going on with the quality of the food or the employees are not handling the food properly. I just know I can no longer eat at Chick Fil without getting sick. I know alot of people who agree that they get sick when eating here now..

Below the first review is a footer with categories: 'Alice', 'Story', 'Blog', 'Personal', 'Warning', and 'Danger'. It also shows the post date: 'Posted by test on 2014-04-13 19:55:56'. There are 'Comment' and 'Like' buttons below it.

The second review is identical to the first, except the text is: "I am a consumer who can appreciate good service. Everyone here seems sooooo happy to see me when I'm at the drive-in window. I don't even know these people but they treat me like I'm their best friend. This happens every time I come to Chick-Fil-A, and I come here quite a bit..".

3. Click the submit review

A modal dialog box titled 'Ate a new dish? Tell us about it' is displayed. It contains several input fields and sections:

- Title:** A text input field with placeholder text: 'e.g. The food was delicious'.
- Image Link:** A section with a 'Choose File' button and a placeholder text: 'Or place image link here'.
- Review Text:** A large text area labeled 'Write your item review here...(250 word Limit)'.
- Tags:** A text input field labeled 'Enter tags here, separated by a space:'.
- Buttons:** At the bottom left are 'SUBMIT' and 'CLOSE' buttons.

#### [4]. Fill in the required fields

Ate a new dish? Tell us about it

Title: chick-fil-a nuggets

Image Link: No file chosen  
Choose File

[http://1.bp.blogspot.com/-rTlt0nXZ638/UU57q3G3tgI/AAAAAAAAdLE/3kelnH\\_jg28/s1](http://1.bp.blogspot.com/-rTlt0nXZ638/UU57q3G3tgI/AAAAAAAAdLE/3kelnH_jg28/s1)

Unlike most fast food joints, Chick-fil-A Nuggets are made from whole chunks of chicken rather than the mechanically-separated variety which gives it a more chicken-y texture. The breading is the same stuff they use on their Original Chicken Sandwich. Read more at <http://www.brandeating.com/2009/09/chick-fil-as-chicken-nuggets.html#ji87FYh8TzeQFOlm.99>

Enter tags here, separated by a space:

SUBMIT CLOSE

#### 5. Verified that my review was added to the chick-fil-a timeline

test test Logout

Comment

0 0

We Didn't Invent The Chicken Sandwich, But We Did Invent The Chick-fil-A Nugget.

Unlike most fast food joints, Chick-fil-A Nuggets are made from whole chunks of chicken rather than the mechanically-separated variety which gives it a more chicken-y texture. The breading is the same stuff they use on their Original Chicken Sandwich. Read more at <http://www.brandeating.com/2009/09/chick-fil-as-chicken-nuggets.html#ji87FYh8TzeQFOlm.99>

link story msg personal warning danger

Posted by test on 2014-04-13 20:25:34

0 0

Comment

View a user profile of someone who left a review - completed by Seth Mosgin:

Open home page then select a restaurant.



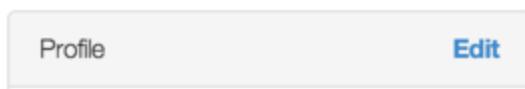
Then on a review click on the username of the person that submitted the review.

**Posted by test on 2014-04-13 20:25:34**

Then you will get to their profile and can see what other reviews they may have submitted.

The image shows a user profile page for a user named "test". The profile includes a cartoon character icon, basic information like gender and year arrived, and a biography mentioning "RIP Spiderman". It also lists food tags such as pizza, steak, food, fresh, chicken, fish, jim, bob, and water. On the right, there's a "Recent Activity" section with two reviews. The first review, posted on April 29, 2014, at 8:46 pm, is titled "delicious pizza" and describes a pizza as "the pizza was amazing". The second review, posted on April 27, 2014, at 8:27 pm, is titled "The cheeseburger was amazing!" and describes a cheeseburger as "10/10 would eat there again! I loved the food!". Both reviews include small images of the food items.

Changing users biography (assumes you have safely logged in):



Then you will get a modal dialog with your biography and a chance to change it.

Edit Your Profile:

Change profile photo:  
Choose File No file chosen  
http://i.imgur.com/5USRJsl.png

Update Biography:  
RIP Spiderman

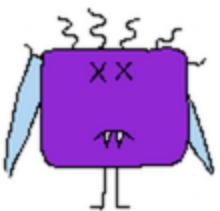
Change Gender:  
Female

Change Favorite Tags(Enter your favorite tags, separated by a space):  
food× fresh× chicken× pizza× steak× fish×  
jim× bob× water×

**CLOSE** **SAVE CHANGES**

Close will not save changes and hitting Save Changes will update the page

Profile **Edit**



User name test

Gender: Female

Year Arrived: 1991

Real name test test

Biography: RIP Spiderman

Food Tags:  
pizza steak food fresh chicken  
fish jim bob water

## Using the search in the navbar:

First select a filter:



If you select Reviews then search for pizza then reviews for pizza will show up:

**FEEDME** Home FeedMe Quick ▾ Search REVIEWS ▾ test test Logout

Search Results  
4 results were found for the search for **pizza**

---

	2014-04-29 8:46 pm <a href="#">pizza</a> <a href="#">yummy</a> <a href="#">cheese</a> <a href="#">[edit]</a> <a href="#">[trash]</a>	<b>delicious pizza</b> the pizza was amazing
	2014-04-29 8:14 pm <a href="#">pizza</a> <a href="#">cheese</a> <a href="#">smiley</a> <a href="#">[edit]</a> <a href="#">[trash]</a>	<b>delicious pizza</b> delicious pizza
	2014-04-17 7:24 pm <a href="#">[edit]</a> <a href="#">[trash]</a>	<b>Good but not in chicken form</b> Chicken was excellent and was even in a convenient pizza for that was thin and crispy.

If you select Restaurants and search for pizza:

Search Results  
3 results were found for the search for **Pizza**

---



Peace a Pizza

1 like 1 reply



Iggies Pizza

1 like 1 reply



Pizza 786

1 like 54 replies

If you select Users and search for john:

Search Results  
2 results were found for the search for **john**

---



john john  
Username: john1  
Gender: Not specified  
Year Arrived: 1982



john john  
Username: john  
Gender: m  
Year Arrived:

Submitting a new restaurant:

If a user is either not logged in or not a moderator/admin, they will not see a link to create:

**FEEDME** Home FeedMe Quick ▾



Popular

Random

Profile

Once logged in with proper permissions, a create restaurant link is shown:

**FEEDME** Home FeedMe Quick ▾



Popular

Random

Profile

Create Restaurant

Clicking this link brings up a modal with input fields required for creation:

Tried out a new restaurant? Tell us about it! ×

---

Name of place:

Address:

Phone Number:

Website Link:

Restaurant Photo:  
 No file chosen

Enter tags here, separated by a space:

**SUBMIT**

If a field is left blank, the modal will inform the user:

Tried out a new restaurant? Tell us about it! ×

---

Name of place:

Address:

Phone Number:

Website Link:

Restaurant Photo:  
 No file chosen

Enter tags here, separated by a space:

! Please fill out this field.

**SUBMIT**

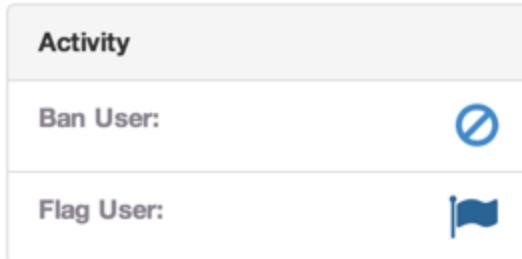
Upon successful creation, the user is directed to the new restaurant page. If not successful, the user is

directed to the webpage they were last at:

The image shows a web page with a light gray header bar. In the top left corner, the word "name" is displayed in a large, bold, dark blue font. To the right of the title, there are three navigation links: "Info" (highlighted in a white box), "Tags", and "Submit Review". Below the title, the word "name" appears again in a smaller, bold, dark blue font. Underneath it, there are three items: "address" with a location pin icon, "phone number" with a telephone icon, and a link to "www.link.com" with a globe icon.

Flagging and banning a user, must be logged in as admin to ban:

Go to a users profile and click on the flag button:



If you click on flag then a confirmation is brought up before you can flag them. The user's flag count will be incremented, if it reaches a threshold then they will be banned.



If you select ban, we ask you to confirm. If you hit yes then the user will not be able to log in any more.



When a banned user tries to log in:

Username - **You have been flagged too many times!**

johnnytest

Password

\*\*\*\*\*

#### 4. Appendix A – Team Review Sign-off

Name:	Date:	Signature (Print name)
Minhaz Mahmud	04/30/2014	Minhaz Mahmud
Kiante Brantley	04/30/2014	Kiante Brantley
Seth Mosgin	04/30/2014	Seth Mosgin
Ines Ngassa	04/30/2014	Ines Ngassa
Giancarlo Mogliazzzi	04/30/2014	Giancarlo Mogliazzzi

#### Appendix B - Document Contributions

This document was completed by Minhaz Mahmud for the most part with help from various team members in various capacities.