Group 06 - Test Specification

15th October 2012 Amy Rebecca James, Samuel Mills, Felix Farquharson, Ben Brooks, Aiman Arafat, James Slater, Ben Brooks, Dan McGuckin, Christopher Krzysztof

Ilkow

Project Coordinator: Nigel Hardy Config Ref: SE.QA.06 Version: 1.4

Status: Release

Contents

1	Introduction	2
	1.1 Purpose of the Document	2
	1.2 Scope	2
	1.3 Objectives	2
2	Test Tables	3
	2.1 Login/Edit Account Tests	3
	2.2 Created Users Details	3
3	Creating an account	4
	3.1 Testing User Login Information	5
4	Homepage/Friend List Tests	6
5	Battle Screen Tests	8
	5.1 Battle Screen Tests Continued	S
6	Farm Tests	10
7	Breeding Tests	11
8	Shop Tests	12
	8.1 Shop Test Tables Continued	13
	8.2 Shop Test Tables Continued	14
9	References	15
10	Document History	15

1 Introduction

1.1 Purpose of the Document

The purpose of this document will be to establish any defects or flaws which may exist within our Monster Mash application, and whether the features of the application are going to be functional and operable for the user. Our testing document will explore all features and actions that can be carried out within the application and identify possible problems or errors which the user could experience.

1.2 Scope

The testing specification is split up into separate tables which represent each feature or action of the game and identifies the test content, input, output and pass criteria of each test. These features include:

- Login/Edit Account Details Tests
- Homepage/Friends List Tests
- Battle Screen Test
- Farm Test
- Shop Test

It is important that this document is read by all members of the project group, especially the Design and Testing team.

1.3 Objectives

The objectives of this document are:

- To identify any errors, liabilities and flaws that a user may encounter when interacting with the Monster Mash application.
- To show these weaknesses and defects in the format of tables where the features of the Monster Mash game are thoroughly tested and certified to ensure they operate successfully.
- To show the test content, input, output, pass criteria and general comments of each test.

2 Test Tables

2.1 Login/Edit Account Tests

To test that our Login works we will have already have saved two users into our database to allow us to carry out extensive testing on the Login and account features. They will each have a username and password and we will run various tests on these users to test that the interface and server handles the information entered as we would expect.

2.2 Created Users Details

John - Username: John87 Password: computer Gareth - Username: Gaz19 Password: monster

3 Creating an account

To test our registration system works we will create a user. If this test successful the username and password of the created user will be stored in the database and user will be able to Login.

Test Ref	Req being tested	Test Content	Input	Output	Pass Criteria
SE- N06- 001	FR7	Creating User Account	The user will enter desired username and password.	The details should be saved and added to the database.	The user can use these details to ac- cess the Monster Mash application.
SE- N06- 002	FR7	Creating an account with characters other than A-Z, a-z, 0-9 or an underscore in the user name.	User should create a user name con- taining an exclama- tion mark for exam- ple.	An error message should appear saying that the user name cannot be created and it should explain the reason for this error to the user.	The user name will only be created if it contains valid and accepted characters.
SE- N06- 003	FR7	Testing that the account has been created successfully.	The user will enter their Login details and click the Login button.	User should be taken to the application homepage.	The user should be logged in and be able to start playing the Monster Mash application.
SE- N06- 004	FR7	Creating an account using a username that has already been taken.	User attempts to create an account using a username that is already taken.	An error message should appear saying that the user name cannot be created and it should explain the reason for this error to the user.	The user should not be able create an account.
SE- N06- 005	FR7	Creating an account with an email address that is already registered to a user.	The user will attempt to create an account using an email address already registered.	An error message should appear alerting the user.	The user should not be able to create an account.
SE- N06- 006	FR7	Case sensitive login.	User will attempt to login using a capital or lower case letters incorrectly.	An error message should appear saying that the user name cannot be logged in and it should explain the reason for this error to the user.	The user should not be allowed to log in.

3.1 Testing User Login Information

The following test table will investigate how the program handles incorrect Login details. Although the table only accounts for one, each test will be carried out on both of the users stored in the database already (John and Gareth).

Test	Req	Test Content	Input	Output	Pass Criteria
Ref	being				
	tested				
SE-	FR7	Login using correct	User will	The cor-	User will be taken
N06-		details.	enter cor-	rect details	to Homepage and
007			rect login	will be ac-	able to access the
			details and	cepted by	features of the
			click Login	the server.	Monster Mash
			button.		application.
SE-	FR7	Login using incor-	User will	An error	The user won't be
N06-		rect password but	enter correct	message	logged into their ac-
008		correct username	username	will appear	count until the cor-
			with in-	informing	rect details are en-
			correct	the user that	tered.
			password	the details	
			and click the	entered are	
			login button.	incorrect.	
SE-	FR7	Ensure that both	User will at-	An error	User shouldn't
N06-		the username and	tempt to lo-	message	be allowed to
009		password have been	gin with one	alerting user	log in until both
		entered into the lo-	of the fields	of the prob-	fields and filled in
		gin fields.	left empty.	lem should	correctly.
				appear.	

4 Homepage/Friend List Tests

The following tests are designed to assess the option available to each user from the Homepage and from their Friends Lists. For the tests below it is assumed that there is already a database of users available for testing.

Test	Req	Test Content	Input	Output	Pass Criteria
Ref	being				
	tested				
SE-	FR2	Locate all available	All of the link loca-	The link goes	If the link is nav-
N06-		links to the user	tions within the ap-	to the cor-	igating to the cor-
010		and interact with	plication.	rect page.	rect location and
		them and test their			the page is active
		functionality			and functioning.
SE-	FR1	Test if the user can	Select the logout	The page	The page should
N06-		logout successfully.	link.	tem-	identify the fact the
011				plate/source.	user is logged out
					and is unavailable
					to interact with the
					application.
SE-	FR2	Test that the	The homepage	Pages should	The graphics and
N06-		graphical user	should be dis-	be displayed	images should be
012		interface and	played correctly	correctly.	consistent with the
		graphics show	as intended to the		original design.
		correctly to the	user.		
		user.			

Test Ref	Req being	Test Content	Input	Output	Pass Criteria
SE- N06- 013	FR11	Check that the friends list displays correctly to the user when it is not sorted by any custom settings.	The page containing the friends list should be loaded and there should be no specific sorts or filters specified.	The output page source for this page with no friends, lots of friends, and with the maximum amount of friends.	The pages should return standards compliant HTML with no errors encountered. The sorts should be correct and a visual inspection should be carried out also.
SE- N06- 014	FR11	Check the friends list displays cor- rectly when it is sorted by recent ac- tivity.	The page containing the friends list should be loaded and there should be only recent activity showed.	The output page source for this page with no friends, lots of friends, and with the maximum amount of friends.	The pages should return standards compliant HTML with no errors encountered. The sorts should be correct and a visual inspection should also be carried out.
SE- N06- 015	FR9	Check the add new friend function works correctly.	A friend should be added using the friends list form.	The updated friends list containing all the friends, or the database.	The friends list after the friend has been added should now contain the newly added friend.
SE- N06- 016	FR6	Check the delete friend function.	One of the friends selected should be deleted using the friends list delete function.	The friends list.	The friends list should not contain the deleted friend.

5 Battle Screen Tests

Test	Req	Test Content	Input	Output	Pass Criteria
Ref	being				
	tested				
SE-	FR10	Check that a battle	The user clicks on	The monster	Allows the user to
N06-		has finished and al-	Start another bat-	battle screen	user to select an-
017		lows the user to se-	tle button from the	swaps into	other friend to bat-
		lect a friend to start	battle screen.	friend list	tle against after fin-
		another battle.		allowing	ishing current bat-
				the user	tle.
				to choose	
				one to fight	
				against only	
				if previously	
				selected bat-	
				tle has taken	
Q.T.			77 11 1	place.	m 1 1
SE-		Check that Mon-	User clicks on Mon-	The monster	Takes the user to
N06-		ster Farm button	ster Farm button	battle screen	the Monster Farm
018		has been pressed.	from the battle	swaps into	screen and allows
			screen.	the Monster	the user to choose
				Farm screen	monster or check
				and allows the user to	the stats.
				check stats	
				or change the current	
				monster to	
				fight with.	
SE-	FR8	Check that Start	User clicks on Start	The battle	Generates the bat-
N06-	1100	The Fight buttons	The Fight button	screen shows	tle, show victorious
019		has been pressed	from the battle	both mon-	monster, earn re-
"		from the battle	screen.	sters, the	wards.
		screen and starts	, · · · · · · · · · · · · · · · · ·	result of the	
		the battle.		battle and	
				any earnings	
				or rewards.	

5.1 Battle Screen Tests Continued

Test	Req	Test Content	Input	Output	Pass Criteria
Ref	being				
	tested				
SE-	FR8	Check that the	User clicks on	An error	Display error mes-
N06-		Friend button has	Friend button from	message is	sage.
020		been pressed from	battle screen.	displayed	
		the side of the		to the user.	
		battle screen and		User can-	
		displays a message.		not leave	
				the battle	
				screen.	
SE-	FR8	Check that Shop	User clicks on Shop	An error	Display error mes-
N06-		button has been	button from battle	message is	sage.
021		pressed from the	screen.	displayed	
		battle screen.		to the user.	
				User can-	
				not leave	
				the battle	
				screen.	
SE-	FR9	Check that Add	User clicks on Add	An error	Display error mes-
N06-		friend button has	Friend button from	message is	sage.
022		been pressed from	battle screen.	displayed	
		the battle screen.		to the user.	
				User can-	
				not leave	
				the battle	
				screen.	

6 Farm Tests

These tests are designed to test the Monster Farm of the Monster Mash application. They test various aspects such as viewing monsters, their stats and picking a primary battle monster.

Test	Req	Test Content	Input	Output	Pass Criteria
Ref	being				
	tested				
SE-	FR1	Obtain your mon-	Go to the	A list of	The page correctly
N06-		ster's statistics	"Monster	your mon-	displays your mon-
023			Farm" page"	sters with	sters and their
				associated	statistics.
				statistics	
				should be	
				displayed	
SE-	FR2	Choose your pri-	Click on	That mon-	The chosen mon-
N06-		mary battle mon-	the check	ster should	ster is now your pri-
024		ster (i.e. the mon-	box/button	now be se-	mary battle mon-
		ster you use to	next to the	lected to be	ster.
		fight).	monster	your pri-	
			you wish to	mary battle	
			make pri-	monster.	
			mary battle		
			monster.		
SE-	FR3	Exit the Monster	Click on the	You should	The page changes
N06-		Farm	available	exit the	to the location your
025			navigational	Monster	chosen location.
			links which	Farm and be	
			take you to	taken to the	
			a particular	location you	
			screen.	chose.	

7 Breeding Tests

Test	Req	Test Content	Input	Output	Pass Criteria
Ref	being				
	tested				
SE-	FR6	Monster statistics	User should breed a	A new mon-	The new monster
N06-		are different for	monster.	ster should	should have com-
026		offspring.		appear in	pletely different
				the Monster	statistics to the
				Farm.	parents.
SE-	FR6	Breeding with two	User should select	A new mon-	A new monster
N06-		different monsters.	two different mon-	ster should	should be listed in
027			sters to breed with.	be created.	the Monster Farm.
SE-	FR6	Breeding with two	User should select	An error	User should be
N06-		instances of the	the same monster	message	asked to enter two
028		same monster.	twice to breed with.	should ap-	different monsters.
				pear and not	
				allow this.	
SE-	FR6	Ensuring the user	User selects a mon-	If the user	User should not be
N06-		has enough money	ster to breed with.	has insuffi-	allowed to breed
029		to breed a monster.		cient funds,	with a monster.
				an error mes-	
				sage should	
				appear.	
SE-	FR6	The user must en-	User enters the a	An error	User should not be
N06-		ter unique name for	name for monster	message	allowed to have a
030		each monster.	already in use.	should ap-	monster with the
				pear.	same name.

8 Shop Tests

The following tests will be featuring the Shop aspect of the Monster Mash application. The Shop will only be accessible to registered users. Users will then be presented with a menu which has the following options; Monster Farm, Shop and a Friends list. Within the Shop category the user will be presented with a variety of options. The main purpose of the shop is to allow the user to Buy and Sell monsters using V-Money that they have gained from battles. Users can Buy monsters from the Shop which will then be added to their Monster Farm and the price in which the monster is worth will be deducted from the users V-Money total. The user will also be able to Sell monsters which they own and the price in which the monsters are worth is calculated by taking into account the monsters statistics. If the user sells a monster, the monster will be removed from the users Monster Farm and the correct amount of currency added to the users V-Money total. It is worth mentioning that tests will be carried out using a preloaded database of monsters to avoid the user having no monsters to Buy/Sell. The final feature of the Shop will be the display of the users V-Money which will show how much currency the user has to spend within the Shop.

Output Pass Criteria	The shop Shop GUI is cordul should rectly displayed. now be displayed to the user, including a list of monsters which the user can Buy and Sell and the ability to View V-Money.	The monster The correct amount should have of V-Money has been re- been added to the moved from users V-Money the users total and the Monster Monster sold has Farm and been removed from the amount the users Monster of V-Money Farm. that the monster is worth based on statistics should be added to the users V-Money Total.	The user The user is sucsional be cessfully displayed their total V-their correct Money amount. V-Money in
Input	User clicks Shop button from the homepage.	User selects what monster they chose to sell in the Shop GUI and presses the Sell button.	Within the Shop GUI, the user should be able to view V-Money on the GUI this and shows how much
Test Content	Check that the Shop GUI is displayed when the user clicks Shop from the homepage.	Check that the Sell function works correctly.	Check that the view V-Money function works correctly.
Req being tested	FR8	FR5	FR8
Test Ref	SE- N06- 031	SE- 032	SE- N06- 033

8.1 Shop Test Tables Continued

	Test Content Input	Output	Pass Criteria
Check that an error message is displayed if the user attempts to purchase a Monster from the Shop but they don't have enough V-Money.	an User views the the is monsters available from the Shop list, so to selects the Monster desired and presses but the Buy button have and an error is displayed due to insufficient funds to purchase that monster.	An error message should be displayed informing the user they have Insufficient funds to purchase the monster desired.	An error message is successfully displayed to the user informing them they have insufficient funds to purchase the monster they desire.
Check that the Ok button works on the error message regarding the user having Insufficient Funds when trying to purchase a monster so they can return to the Shop GUI.	ae Ok The user clicks the sesage knowledge the error user message and then ficient returns to the Shop trying GUI.	Once the user has selected the Ok button, they should be returned to the Shop GUI.	The user presses Ok and they are successfully re- turned to the Shop GUI.
Check that the preloaded monsters from the database within the Shop are purchasable.	the The user selects one listers of the preloaded abase monsters from p are the database and selects Buy.	The user should be able to purchase the monsters from the preloaded database. The correct V-Money from their total should have been removed and the newly acquired monster should now be in the users Monster Farm.	The monster from the preloaded database should now be in the users Monster Farm.

8.2 Shop Test Tables Continued

Test	Req	Test Content	Input	Output	Pass Criteria
Ref	being				
	tested				
SE-	FR6	Check	The user selects one	The user should	The monster from
N06-		that the	of the preloaded	be able to sell the	the preloaded
037		preloaded	monsters from the	monsters from the	database has been
		database of	database in the	preloaded database	removed from the
		Monsters	Monster Farm and	(Monster Farm).	users monster farm
		within the	selects Sell.	The correct V-	and the users V-
		Monster		Money should have	Money total should
		Farm are		been added and to	be correct.
		sellable.		their total and the	
				Monster selected	
				to sell should have	
				been removed from	
				the users Monster	
				Farm.	

9 References

 $1.\ Software\ Engineering\ Group\ Projects\ Test\ Procedure\ Standards..\ C.J. Price\ and\ N.W. Hardy.\ SE.QA.06. Release.$

10 Document History

Version	CCF No.	Date	Changes made to Document	Changed by
1.0	N/A	2012-11-12	Initial creation	beb12
1.1	N/A	2012-11-15	Adding test tables	arj18
1.2	N/A	2013-01-28	Making changes from hand in feedback	arj18
1.3	N/A	2013-02-11	Making outcomes of tests from coding week.	arj18
1.4	N/A	2013-02-13	Rearranged some tables.	sam39