

NASA EVA Gamification

TEST SUITE - FUNCTIONAL TESTING

PHASE II



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Version Number	Description of Change	Author	Date
1.0	Initial Creation of Document	Samia Alam	7/5/18
1.1	Removed TC_03.5, updated existing leaderboard test cases and added new ones	Charles Milk	7/21/18
1.2	Updated existing test cases for Test Suite 02	Kelli Corey	7/18/18

1.0 Test Suite 01: Point Configurations Based on Adding or Editing a Page

Following Test Cases should be executed to test all functional requirements associated with Point Assignment System feature

1.1 Test Case TC_01.1: User earns 100 points upon creating a page

Test Case ID: TC_01.1

Description: Test that if user creates a page, then the user earns 100 points

Requirements: F41 - A user will be given points for creating a new wiki page
F43 - Users shall earn 100 points when a page is created.

Tester's Name: Samia Alam

Prerequisites: User is already logged into the NASA Wiki account

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Click on Discussion link on top menu bar in NASA MediaWiki page		Discussion talk page appears			
2	Click on the Add Topic link on the top menu		Editable blank page appears			
3	Add a subject and one or more text line in the blank field, and click Save Page button in bottom of the page		New page is created			
4	Click on Special page under tools		Special page appears			
5	Click on User gamification profile under Other special pages section		User Gamification Profile appears			
6	Observe the point counts on top of the User gamification Profile page		100 points are added to the user upon adding the page.			

1.2 Test Case TC_01.2: User earns 50 points upon editing a page

Test Case ID: TC_01.2

Description: Test that if user edits a page, then the user earns 50 points

Requirements: F42 - A user will be given points for editing an existing wiki page

F44 - Users shall earn 50 points when a page is edited.

Tester's Name: Samia Alam

Prerequisites: User is already logged into the NASA Wiki account and in the default main page upon logging in.

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
2	Click on the edit link on the top menu		Editing Main Page appears			
3	Update a text line in the edit field, and click Save Page button in bottom of the page		Edit is saved, and the change is visible in the main page			
4	Click on Special page under tools		Special page appears			
5	Click on User gamification profile under Other spacial pages section		User Gamification Profile appears			
6	Observe the point counts on top of the User gamification Profile page		50 points are added to the user upon editing a page.			

2.0 Test Suite 02: Badge Configurations

Following Test Cases should be executed to test all functional requirements associated with Badge Configuration feature.

2.1 Test Case TC_02.1: User with 50 total points earns a bronze badge

Test Case ID: TC_02.1

Description: Test that if user with 50 total points earns a bronze badge

Requirements: F37 - A user will progress through different badge levels by earning a configurable amount of points
F38 - A user will earn badges in the following order: Bronze, Silver, Gold, Platinum
F45 - A user with 50 total points shall earn a bronze badge.

Tester's Name: Kelli Corey

Prerequisites:

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Log in to the NASA MediaWiki environment using a profile that has not collected any points yet.		The welcome page will be displayed.			
2	Click on Special page under tools		Special page appears			
3	Click on User Gamification profile under Other special pages section		User Gamification Profile appears			
4	Verify that the point count on the top of the User Gamification profile page is zero.		A point count of zero is displayed.			
5	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
6	Click on the edit link on the top menu		Editing Main Page appears			
7	Update a text line in the edit field, and click Save Page button in bottom of the page		Edit is saved, and the change is visible in the main page			

8	Click on Special page under tools		Special page appears			
9	Click on User gamification profile under Other special pages section		User Gamification Profile appears			
10	Observe the point counts on top of the User Gamification Profile page		50 points are added to the user upon editing a page			
11	Observe the badge icons displayed at the top of the User Gamification Profile page		A bronze badge icon is displayed on the user profile upon earning 50 points			

2.2 Test Case TC_02.2: User with 100 total points earns a silver badge

Test Case ID: TC_02.2

Description: Test that if a user has 100 total points, then the user earns a silver badge

Requirements: F37 - A user will progress through different badge levels by earning a configurable amount of points
F38 - A user will earn badges in the following order: Bronze, Silver, Gold, Platinum
F46 - User with 100 total points shall earn a silver badge

Tester's Name: Kelli Corey

Prerequisites:

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Log in to the NASA MediaWiki environment using the same profile used in test case TC_02.1		The welcome page will be displayed.			
2	Click on Special page under tools		Special page appears			

3	Click on User Gamification profile under Other special pages section		User Gamification Profile appears			
4	Verify that the point count on the top of the User Gamification profile page is 50.		A point count of 50 is displayed.			
5	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
6	Click on the edit link on the top menu		Editing Main Page appears			
7	Update a text line in the edit field, and click Save Page button in bottom of the page		Edit is saved, and the change is visible in the main page			
8	Click on Special page under tools		Special page appears			
9	Click on User gamification profile under Other special pages section		User Gamification Profile appears			
10	Observe the point counts on top of the User Gamification Profile page		50 points are added to the user upon editing a page for a total of 100 points			
11	Observe the badge icons displayed at the top of the User Gamification Profile page		A silver badge icon is displayed on the user profile upon earning 100 points			

2.3 Test Case TC_02.3: User with 200 total points earns a gold badge

Test Case ID: TC_02.3

Description: Test that if a user has 200 total points, then the user earns a gold badge

Requirements: F37 - A user will progress through different badge levels by earning a configurable amount of points

F38 - A user will earn badges in the following order: Bronze, Silver, Gold, Platinum

F47 - User with 200 total points shall earn a gold badge

Tester's Name: Kelli Corey

Prerequisites:

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Log in to the NASA MediaWiki environment using the same profile used in test case TC_02.1 and TC_02.2		The welcome page will be displayed.			
2	Click on Special page under tools		Special page appears			
3	Click on User Gamification profile under Other special pages section		User Gamification Profile appears			
4	Verify that the point count on the top of the User Gamification profile page is 100		A point count of 100 is displayed			
5	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
6	Click on the Add Topic link on the top menu		Editable blank page appears			
7	Add a subject and one or more text line in the blank field, and click Save Page button in bottom of the page		New page is created			
8	Click on Special page under tools		Special page appears			
9	Click on User gamification profile under Other special pages section		User Gamification Profile appears			

10	Observe the point counts on top of the User Gamification Profile page		100 points are added to the user upon adding a page, bringing the total point count to 200			
11	Observe the badge icons displayed at the top of the User Gamification Profile page		A gold badge icon is displayed on the user profile upon earning 200 points			

2.4 Test Case TC_02.4: User with 500 total points earns a platinum badge

Test Case ID: TC_02.4

Description: Test that if a user has 500 total points, then the user earns a platinum badge

Requirements: F37 - A user will progress through different badge levels by earning a configurable amount of points

F38 - A user will earn badges in the following order: Bronze, Silver, Gold, Platinum

F48 - User with 500 total points shall earn a platinum badge

Tester's Name: Kelli Corey

Prerequisites:

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Log in to the NASA MediaWiki environment using the same profile used in test case TC_02.1, TC_02.2, and TC_02.3		The welcome page will be displayed.			
2	Click on Special page under tools		Special page appears			
3	Click on User Gamification profile under Other special pages section		User Gamification Profile appears			
4	Verify that the point count on the top of the User		A point count of 100 is displayed			

	Gamification profile page is 100					
5	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
6	Click on the Add Topic link on the top menu		Editable blank page appears			
7	Add a subject and one or more text line in the blank field, and click Save Page button in bottom of the page		New page is created			
8	Click on the Add Topic link on the top menu		Editable blank page appears			
9	Add a subject and one or more text line in the blank field, and click Save Page button in bottom of the page		New page is created			
10	Click on the Add Topic link on the top menu		Editable blank page appears			
11	Add a subject and one or more text line in the blank field, and click Save Page button in bottom of the page		New page is created			
12	Observe the point counts on top of the User Gamification Profile page		100 points are added to the user upon adding a page, bringing the total point count to 500			
13	Observe the badge icons displayed at the top of the User Gamification Profile page		A platinum badge icon is displayed on the user profile upon earning 500 points			

2.5 Test Case TC_02.5: All earned badges are displayed in user's profile page

Test Case ID: TC_02.5

Description: Test that all earned badges are displayed on top of the user's profile page in a tabular format with the earned badge image

Requirements: F49 - All badges earned shall be displayed on top of the user's profile page in a tabular form with the earned badge images.

Tester's Name: Kelli Corey

Prerequisites:

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Log in to the NASA MediaWiki environment using the same profile used in test case TC_02.1, TC_02.2, TC_02.3, and TC_02.4		The welcome page will be displayed.			
2	Click on Special page under tools		Special page appears			
3	Click on User Gamification profile under Other special pages section		User Gamification Profile appears			
4	Verify that the point count on the top of the User Gamification profile page is 50.		A point count of 50 is displayed.			
5	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
6	Click on the edit link on the top menu		Editing Main Page appears			
7	Update a text line in the edit field, and click Save Page button in bottom of the page		Edit is saved, and the change is visible in the main page			
8	Click on Special page under tools		Special page appears			
9	Click on User gamification profile under Other special pages section		User Gamification Profile appears			

10	Observe the point counts on top of the User Gamification Profile page		50 points are added to the user upon editing a page for a total of 550 points			
11	Observe the badge icons displayed at the top of the User Gamification Profile page		A platinum badge and a bronze badge are displayed			
12	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
13	Click on the Add Topic link on the top menu		Editable blank page appears			
14	Add a subject and one or more text line in the blank field, and click Save Page button in bottom of the page		New page is created			
15	Click on Special page under tools		Special page appears			
16	Click on User gamification profile under Other special pages section		User Gamification Profile appears			
17	Observe the point counts on top of the User Gamification Profile page		100 points are added to the user upon editing a page for a total of 650 points			
18	Observe the badge icons displayed at the top of the User Gamification Profile page		A platinum badge, a silver badge, and a bronze badge are displayed			
19	Click on main page link on left menu bar in NASA MediaWiki page		Main Page appears			
20	Click on the Add Topic link on the top menu		Editable blank page appears			
21	Add a subject and one or more text line in the blank		New page is created			

	field, and click Save Page button in bottom of the page					
22	Click on Special page under tools		Special page appears			
23	Click on User gamification profile under Other special pages section		User Gamification Profile appears			
24	Observe the point counts on top of the User Gamification Profile page		100 points are added to the user upon editing a page for a total of 750 points			
25	Observe the badge icons displayed at the top of the User Gamification Profile page		A platinum badge, a gold badge, a silver badge, and a bronze badge are displayed			

3.0 Test Suite 03: Leaderboard Behaviors and configurations

Following Test Cases should be executed to test all functional requirements associated with Leaderboard behavior and configurations feature.

3.1 Test Case TC_03.1: Leaderboard is visible in user's profile page

Test Case ID: TC_03.1

Description: Test that the leaderboard is visible in user's profile page

Requirements: F39 - On navigating to the user's profile page, a leaderboard is displayed containing data related to the user's activity on the wiki and the user's status related to other users of the wiki

F53 - Leaderboard will only be visible in user profile page

Tester's Name: Charles Milk (Chuck)

Prerequisites: The current user must have an account in the database.

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Install current user's account in the database		Current user's account exists.			
2	Open Profile		Profile opened			
3	Verify Leaderboard is displayed		Leaderboard is displayed			

3.2 Test Case TC_03.2: Leaderboard displays username, Added post count, edit count, points earned, and badges

Test Case ID: TC_03.2

Description: Test that the leaderboard displays username, added post count, edit count, points earned, and badges

Requirements: F50 - Add count, edit count, points earned, and the user's position among others will be displayed in leaderboard

Tester's Name: Charles Milk (Chuck)

Prerequisites: The database must contain values for current user to include added post count, edit count, points earned, and badges.

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
	Verify the current user's account contains values for added post count, edit count, points earned, and badges		Current user's account contains values.			
1	Open the current user's profile		Profile opens			
2	Verify the leaderboard is displayed		Leaderboard is displayed			

3	Inspect the leaderboard for the presence of the username		Leaderboard displays username			
4	Inspect the leaderboard for the presence of the add count		Leaderboard displays add count			
5	Inspect the leaderboard for the presence of the edit count		Leaderboard displays edit count			
6	Inspect the leaderboard for the presence of the points earned		Leaderboard displays points earned			
7	Inspect the leaderboard for the presence of the badges earned		Leaderboard displays badges earned			

3.3 Test Case TC_03.3: Leaderboard displays user's position based on points

Test Case ID: TC_03.3

Description: Test that the leaderboard displays users' position in the leaderboard based on points

Requirements: F50 - Add count, edit count, points earned, and the user's position among others will be displayed in leaderboard

Tester's Name: Charles Milk (Chuck)

Prerequisites: The database must contain at least 5 other users. Two of these users must have more total points than the current user, one user should have an identical total point count and two users should have less total points than the current user.

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
	Insert test users into the database.		Test users are installed.			
1	Open current user's profile.		Profile opens			
2	Verify leaderboard is displayed		Leaderboard is displayed			

3	Inspect leaderboard and note of the current user's total point value		Leaderboard displays the current user's relative position			
4	Verify that the leaderboard displays other users and their total point values		The leaderboard displays other users with more and less points than the current users.			

3.4 Test Case TC_03.4: Leaderboard shows other users with 100 points over or below.

Test Case ID: TC_03.4

Description: Test that the leaderboard displays other users with 100 points over or below the logged in user.

Requirements: F51 - Other users with 100 points more or less than the current user will be displayed in the leaderboard

Tester's Name: Charles Milk (Chuck)

Prerequisites: Assuming the user has X number of total points, the database must contain 7 other users with total point counts as shown below:

User	Total Points
A	X + 150
B	X + 100
C	X+50
D	X
E	X - 50
F	X - 100
G	X - 150

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Install accounts for the current user and users A thru G		Accounts installed.			
2	Open the current user's profile		Profile opens			
3	Verify the leaderboard is displayed		Leaderboard is displayed			
4	Inspect the leaderboard and note of the current user's total point value		Leaderboard displays the current user's relative position			
5	Inspect the leaderboard for the total points value of the top user		Top user's point value is noted			
6	Inspect the leaderboard for the total points value of the bottom user		Bottom user's point value is noted			
7	Subtract the current user's total point value from the top user's total point value.		The difference between the current user's point value and the top user's point value is 100 or less.			
8	Subtract the bottom user's total point value from the current user's total point value.		The difference between the current user's point value and the bottom user's point value is 100 or less.			

3.5 Test Case TC_03.5: Leaderboard - Clicking Add count shows name of the pages created

Test Case ID: TC_03.5

Description: Test that the added post count is clickable and clicking the add count shows the name of the pages created by the user

Requirements: F40 - The user will be able to display the name of the pages the user has created.

F52 - Users shall be able to click on the edit count to view the name of the pages created

Tester's Name: Charles Milk (Chuck)

Prerequisites: The database must contain the names of several pages created by the current user.

Test Script:

Step #	Test Steps	Test Data	Expected Result	Actual Result	Pass/Fail	Notes
1	Open profile		Profile opens			
2	Verify leaderboard is displayed		Leaderboard is displayed			
3	Locate the Add Count in the leaderboard		Add Count is identified.			
4	Click on the Add Count value.		The name(s) of all the pages the current user has created are displayed.			