Development Release Notes

Openbadges Activity Rule Events: Google Sheets Add-on Development release notes

[Version number]

Released to Dev	[Date]
Released to Testing	[Date]
Released To Demo	[Date]
Released To Live	[Date]

00 00 *MYKNOWLEDGEMAP*®

Table of Contents

Introduc	tion	
What's N	lew	
Walkthro	oughs	
Go	ogle she	eets add-on4
Go	ogle For	rms add-on15
Activity	fields	
Rule Para	ameter \	Values and Match Operators15
Rule Con	ditions.	
Co	ount	17
Ex	ample	17
Di	stinct Co	ount
Ex	ample	19
Va	lue	19
Ex	ample	20
Ru	inning To	otal 20
Ex	ample	21
Ex	ists	21
Ex	ample	22
Field ma	pping	
Enhance	ments a	nd Bug Fixes23
Known P	roblems	s and Workarounds23
Supporti	ing Docu	mentation 23



Browser Compatibility	
Required Software Downloads and Recommended Versions	24
QA Checklist	24
Reviews and Demos	
Installation and Upgrade Notes	25
Database Updates Web.Config Settings Other 25	25 25
Dependencies	
Environments	
Development	
Testing 26	
Demo 27	



Introduction

This document contains the release notes for *Openbadges Activity Rule Events - Google Sheets and Google Forms Add-on*.

What's New

Using the ActivityEvents api, there is now a Google Sheets Add-on. This allows a user to install the add-on into their chrome account and when filling in a google sheet, to send data to the activity events api. This can then issue badges if interacting with appropriate rules. Each row of the sheet is a 'rule activity', meaning that when the rules processor receives the activities from the sheet it treats each activity as a single entity, checking if the rule has been satisfied as it goes along.

Walkthroughs

Google sheets add-on

1. Sign into google sheets

	Untitled s File Edit	s <i>preadsheet</i> View Insert F	장 🖿 Format Data Too	ols	Add-ons Help Last ed	it was 2 hours ago	
5	~ 8 7	100% - \$	% .0 .00 123	3 -	Document add-ons	- В <i>І</i> -Ş	ŀ
fx					Get add-ons		
	A	в	С		Manage add-ons	F	
1					manage and ons		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

 Click Add-ons > Get add-ons – note if the add-on has not been published yet, install using this private location

https://chrome.google.com/webstore/detail/ohjonalgodncgealfnkhjmlphjepcjcc

3. Find the openbadges.me sheets add-on



	Untitled s File Edit	spreadsheet View Insert F	☆ 🖿 Format Data Tools	Add-ons Help Last ec	lit was 2 hours ago
5	~ 8 7	100% - \$	% .0 .00 123 -	Document add-ons	- B <i>I</i> - S <u>A</u>
fx				Get add-ons	
	A	в	с	Manage add-ons	F
1				Manage add-ons	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

4. Give the add-on permission to run

Let's get OpenBadg Continue	started ges.me Sheets ne Cancel	eds your permiss	ion to run.	

5. When it's installed you will see a new sheet and you can go to add-ons > Openbadges.me Sheets



	Openbad	lges Sheets	Integration 1	☆_■						
	File Edit	View Insert	Format Data Too	s Add-ons	Help Last edit v	was 2 hou	<u>irs ago</u>			
5	~ 8 7	100% - \$	% .0 _↓ .0 <u>0</u> 123	- Docu	ment add-ons	2	5	A	. ⊞	23 × E
fx				Open	Badges.me Sheets	•				
	A	в	с		5	;		G		н
1		1		Get a	dd-ons					
2		Ţ		Mana	ge add-ons					
3					_					
4										
5										
6										
/ e										
9										
10										
11										
12										
13										
14										
15										
16										
17										
13 14 15 16 17 18										

6. When prompted to continue to the add-on

G Sign in – (Google accounts - Google Chrome			
Secure	https://accounts.google.com/signin/oauth/oauth	nchoosead	count?hl=	en_gb&clien
G Sign	in with Google			
Ch	oose an account			
to co	ontinue to Openbadges Sheets Add-on			
M	Michael Cheung	m		
	menael.eneung.myknowieugemap@gmail.eo			
8	Use another account			
Englis	h (United Kingdom) 🔻	Help	Privacy	Terms
L				





7. And allow it to have access to your google account

8. You will be notified to 'configure your settings'



	<i>Untitled</i> s File Edit	s <i>preadsheet</i> View Insert Fo	☆ ■ rmat Data Tools Add-ons Help <u>All changes saved in Dri</u>	ve
<u>~</u>	~ 6 7	100% - £	OpenBadges.me Sheets × B I €	<u>A</u> è.
fx			Make sure to configure your settings	
	А	в	F	G
1				
2				
3				
4				
5				
6				
7				
8				

9. Go to add-ons > openbadges.me sheets > settings to open the settings drawer

	Untitled s	preadsheet	☆									
	File Edit	View Insert F	ormat Data To	ools	Add-ons	Help <u>All chang</u>	g <u>es save</u> d	d in Drive	2			
5	~ 8 7	100% - £	% .0 __ .0 <u>_</u> 12	23 -	Docu	ment add-ons		I S	А	è. ⊞	23	· = · .
fx					Open	Badges.me Shee	ts 🕨	So	tinge			1
	А	в	с					50	unga			н
1					Get a	dd-ons		Ru	n			
2					Mana	ae add-ons						
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

10. In the settings you will configure the openbadges api and authentication key and token to use



					🗎 🔒 SHARE M
₩ 23 - ₹ -	<u>↓</u> ~ <u>+</u> ~ <i>b</i> ~	cə 🕇 🔟	Ϋ - Σ	^	Settings
Н	I	L	К		Settings Properties can be dynamically retrieved from the sheet using the following format {{B}} where B is the column notation.
					API URL*
					API Key*
					API Token*
					Activity ID*
					Activity Time*

11. First sign into openbadges as an admin then go to System Settings > API keys > Create

Authorisation Token	
To use the api's please note down the following authorisation This will be needed as well as your api key. You will not be abl this once you close this window.	token. e to view
This token will expire on: 11/06/2028	
if5oeiWEhrEUw38JzQSx8FP9ZLs7ALk1UVhb4fdEp2VVNkMW	
	Close

- 12. Note down the Authorisation Token as this will not be accessible once the modal has been closed
- 13. And once the modal is closed, note down the API Key Id



😂 openbadges.me	$\equiv \Diamond$
	API Keys
	Search API keys
Brandon Cook m.cheung0+Brandon@gmail.com	API Key Id
	6JXrtq6thdomJbhgh66blePhEF8Jtl1bH2Zg8yn8sHQoKCHgZUJnUkWscTYh 🌓
ADMIN	
🕐 Dashboard	
Badges >	
Organisations/Groups	
🚢 Users	
🗠 Reporting	
💠 System settings 🗸 🗸	
API keys	
Issuing rules	
Branding	

14. Now return to the google sheet and enter the api token



Properties can be dynamically retrieved from the sheet using the following format {{B}} where B is the column notation.
API URL*
API Key*
API Token* if5oeiWEhrEUw38JzQSx8FP9ZLs7ALk1
Activity ID*
Activity Time*

15. The api key



Settings ×
Settings Properties can be dynamically retrieved from the sheet using the following format {{B}} where B is the column notation.
API URL*
API Key*
6JXrtq6thdomJbhgh66blePhEF8Jtl1bH
API Token*
if5oeiWEhrEUw38JzQSx8FP9ZLs7ALk1
Activity ID*
Activity Time*

16. And enter the api url of '<u>https://activityevents-</u> <u>test.mkmapps.com/api/activityevents/bulk</u>'



		E B SHARE M	
7 - Σ	^	Settings	×
ĸ		Settings Properties can be dynamically retrieved from the sheet using the following format {{B}} where B is the column notation.	^
		API URL* https://activityevents-dev.mkmapps.coi	
		API Key* 6JXrtq6thdomJbhgh66blePhEF8Jtl1bH	
		API Token* if5oeiWEhrEUw38JzQSx8FP9ZLs7ALk1 	
		Activity ID*	l
		Activity Time*	
		User ID*	

- 17. Finally, click 'Save' to save the settings
- 18. Now in openbadges go to System Settings > Issuing Rules > Create New Rule



😣 openbadges.me	≡ ⇔			System Administ
Brandon Cook m.cheung0+Brandon@gmail.com	Issuing rules > New rul	e		
	Details		Rule	
ADMIN	Rule name: *			
🚯 Dashboard				
♥ Badges >	Rule short name:		_	=
Organisations/Groups			Single rule	Collection of rules
🏜 Users	Rule description:		+ Add rule	+ Add collection
Reporting				
🛟 System settings 🗸 🗸				
API keys	Rule badge: *			
Issuing rules		+ Select badge		
Branding				
Landing page	Rule start date:	Rule end date:		
Email templates	(optional)	(optional)		
Roles				
Subscriptions				

19. Add a 'Single rule'. In this example we've said the rule named 'CompletedTask' will be triggered when a user is submitted with 5 activities referencing the rule (referred to as activityid in the sheet add-on)

😂 openbadges.me	$\equiv \phi$	
Brandon Cook m.cheung0+Brandon@gmail.com	Issuing rules > New rule	
	Details Rule	
ADMIN	Rule name: *	
② Dashboard	Completed task Count •	5
Badges >	Rule short name:	
III Organisations/Groups	CompletedTask	
📣 Users	Rule description:	
✓ Reporting	User completed the task	
💠 System settings 🛛 🗸		
API keys	Rule badge: *	
Issuing rules		
Branding	park no1 b78e3ed8-b226-4e09-9349- 727232065262	
Landing page	park no1	
Email templates		
Roles	Change badge	
Subscriptions	Rule start date: Rule end date:	
	(optional)	

20. Back in the sheet, map columns to the settings fields using the {{COLUMN LETTER}} notation – note, the top row is reserved for headers and won't be processed. In this example we have input 5 rows with the activityid 'CompletedTask' so that when run the 'CompletedTask' rule will be run for the user



~	~ 8 7	100% - E	% .000_ 123 - Arial - 10 -	в <i>I</i> - А	A ⊞ 3	5 · 5 · 1	• 1÷ • 17 •	co 🖬 🐽	γ - Σ			^	Settings
													Man Nichola Inconstructure
	A	8	c	D	E		a	н		J.	к	L	1130EIWEITEOW3032Q3x01 P 92E37
	ACTIVITY ID	ACTIVITY TIME	USER ID	FIRSTNAME	LASTNAME	TEXT 1	TEXT 2	DATE 1	INTEGER 1	INTEGER 2	VERIFIED	ISSUED	
	CompletedTask	11-06-2018	1BB8C30E-685B-4E38-A2EC-4FBEF8506366	Brandon	Cook								Activity ID*
	CompletedTask	11-06-2018	1BB8C30E-685B-4E38-A2EC-4FBEF8506367	Brandon	Cook								{(A)}
	CompletedTask	11-06-2018	1BB8C30E-685B-4E38-A2EC-4FBEF8506368	Brandon	Cook								
	CompletedTask	11-06-2018	1BB8C30E-685B-4E38-A2EC-4FBEF8506369	Brandon	Cook								Activity Time*
	CompletedTask	11-06-2018	1BB8C30E-685B-4E38-A2EC-4FBEF8506370	Brandon	Cook								((7))
													{(D)}
													User ID*
													{(C)}
													Einst Name
													100.00
													{(D)}
													Last Name
													{(E)}
											-		
											+		
													Extra properties
													These are optional properties which
													can be sent.
													Taut 1
													{{F}}
													Text 2
													((G))
													Date 1
													{{H}}

21. Finally, click add-ons > openbadges.me sheets > run to run the sheet processor and issue the badge that was set up in the rule

Google Forms add-on

https://chrome.google.com/webstore/detail/openbadgesmeforms/hokfhhlaabikmmfpihalkjnclfcogiek

Activity fields

In order for a rule activity to be valid, the following fields must be set, per activity row

- ActivityId: the id for the 'Rule'
- Activity Time: the date the activity took place for the user
- User Id: the identifier for the user an Email Address
- Firstname/Lastname: the user's firstname and lastname

Rule Parameter Values and Match Operators

When setting up a rule, depending on the condition you set, parameter values are made available:

- Text 1
- Text 2
- Date 1
- Integer 1
- Integer 2

These allow a rule to have syntax such as

• 'if the value supplied is equal to the value of <Text 1>, then be triggered'



Rule				
Activity	Value	▼ Text1 ▼	· · ·	Value
		Text1		
		Text2		
		Int1		
		Int2		
		Date1		

Likewise, value match operators are made available according to the selected condition:

- = 'equal to'
- <= 'less than or equal to'
- < 'less than'
- > 'more than'
- >= 'more than or equal to'
- != 'not equal to'
- - 'between'

Rule				
Activity	Value	▼ Date1 ▼		Select date
			= <=	
			>	
			!=	

Rule Conditions

A rule must specify a condition to operate on:

- Count
- Distinct Count
- Value



• Running Total

• Exists

Activity	Count	•	Value	
	Count			
	Distinct Count Value RunningTotal Exists			

Count

The count condition specifies that *at least* the given number of rule activities must be supplied by the spreadsheet for a unique user

Rule			
Activity	Count	• 5	

Example

Here the user has 5 rule activities for the 'CompletedTask' rule which would satisfy the 'Count 5' condition described above.



	Untitled s File Edit	spreadsheet View Insert I	☆ 🖿 Format Data Tools	Add-ons Help	All changes sa	aved in Drive		
5	~ 6 7	100% - £	% .0 .00 123 -	Arial -	10 - B	<u>। इ A</u>	♦ ⊞ 53	-
fx								
	A	в		с		D	E	
1	ACTIVITY ID	ACTIVITY TIME	USER ID			FIRSTNAME	LASTNAME	TEX
2	CompletedTask	11-06-2018	1BB8C30E-685B-4E	38-A2EC-4FBEF850	6366	Brandon	Cook	
3	CompletedTask	11-06-2018	1BB8C30E-685B-4E	38-A2EC-4FBEF850	6367	Brandon	Cook	
4	CompletedTask	11-06-2018	1BB8C30E-685B-4E	38-A2EC-4FBEF850	6368	Brandon	Cook	
5	CompletedTask	11-06-2018	1BB8C30E-685B-4E	38-A2EC-4FBEF850	6369	Brandon	Cook	
6	CompletedTask	11-06-2018	1BB8C30E-685B-4E	38-A2EC-4FBEF850	6370	Brandon	Cook	
7								
8								
9								
10								

Distinct Count

Distinct count specifies that the condition matches on either Int 1 or Int 2.

Rule	
Activity	Distinct Count 🔻 🔻
	Int1 Int2

By specifying that either Int 1 or Int 2 have distinct values *more than or equal to* a given number of times, the rule is only satisfied if activities for a user are passed to it and the value in Int 1 or Int 2 are distinct more than or equal to the set number of times.



Rule		
Activity	Distinct Count V Int1 V >= V 5	

Example

Here, a user has 10 activities, and the Int 1 fields have some repeating values, however, on aggregate there are 5 distinct values, and so the rule described above will be satisfied:

	Untitled s File Edit	s <i>preadsheet</i> View Insert F	☆ 🖿 Format Data Tools	Add-ons Help	All changes s	aved in Drive						
5		100% - £	% .0 .00 123 -	Arial -	10 -	в <u>г s А</u>	♦ ⊞ 53	· ≡ · ± ·	÷ - № -	GD 🖬 🔟 🝸	- Σ	
fx												
	A	в		С		D	E	F	G	н	1	J
1	ACTIVITY ID	ACTIVITY TIME	USER ID			FIRSTNAME	LASTNAME	TEXT 1	TEXT 2	DATE 1	INTEGER 1	INTEGER
2	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				1	1
3	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				1	1
4	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				2	2
5	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	6366	Brandon	Cook				2	2
6	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				2	2
7	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				3	3
8	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				4	4
9	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	6366	Brandon	Cook				4	4
10	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	6366	Brandon	Cook				5	5
11	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				5	5
12												
13												
14												

Value

A value condition specifies that the selected parameter must have a value that satisfies the operator and supplied value.



2010				
, uie				
Activity	Value	•	•	
			Text1 Text2 Int1 Int2 Date1	

In this example the rule states that a given activity must have a value in Date 1 that is less than or equal to '06/06/2018'

Rule			
Activity	Value	▼ Date1 ▼ <= ▼	06/06/2018

Example

The user has an activity with a Date 1 value of 01/06/2018 and so this will satisfy the rule above:

	Untitled s File Edit	spreadsheet View Insert F	☆ 🖿 format Data Tools	Add-ons Hel	p <u>All change</u>	es sa	ved in Drive				
5	~ 6 7	100% - £	% .0 .00 123 -	Arial	- 10 -	в	1 5 A	♦. ⊞ 53	- ≡ - ± -	÷ - 𝒫 -	co 🛨 🔟 🏹
fx											
	A	в		с			D	E	F	G	н
1	ACTIVITY ID	ACTIVITY TIME	USER ID				FIRSTNAME	LASTNAME	TEXT 1	TEXT 2	DATE 1
2	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF8	3506366		Brandon	Cook			01/06/2018
3											
4											
5											
L .											

Running Total

For running total a rule expects the total values in either Int 1 or Int 2 to be match the selected operator and value



Rule		
Activity	RunningTotal 🔻 Int1 🔻	Value
		=
		<=
		>
)=
		-

For example here the rule expects a running total of between 100 and 200 in the total of Int 1 values:

Rule				
Activity	RunningTotal T Int1	•	100	200

Example

The user has 6 activities with different values in Int 1, and the running total is 135, so this satisfies the rule:

	Untitled s File Edit	s <i>preadsheet</i> View Insert F	☆ ∎ Format Data Tools	Add-ons Help	All changes s	aved in Drive						
ĥ	~ 6 7	100% - £	% .0 .00 123 -	Arial -	10 - E	з <i>I</i> <u></u> А	♦. ⊞ 53		÷ - № -	co 🖪 🖬 🍸	- Σ	
fx	=sum(<mark>12:17</mark>)											
	A	в		с		D	E	F	G	н	1.00	
1	ACTIVITY ID	ACTIVITY TIME	USER ID			FIRSTNAME	LASTNAME	TEXT 1	TEXT 2	DATE 1	INTEGER 1	INTEG
2	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				30)
3	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				10)
4	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF85	06366	Brandon	Cook				9	•
5	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				66	i
6	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				8	1
7	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook				12	!
8												
											135	
10												
11												
40												

Exists

The exists condition simply expects the rule activity to exist for a user.



Rule	
Activity	Exists •

Example

The user has one activity for the rule, so this satisfies the 'exists' condition:

	Untitled s File Edit	s <i>preadsheet</i> View Insert F	☆ 🖿 Format Data Tools	Add-ons Help	<u>All changes s</u>	aved in Drive	
5		100% - £	% .0 .00 123 -	Arial -	10 -	в <i>I</i> 5 <u>А</u>	è. 🖽 🗄
fx							
	A	в		с		D	E
1	ACTIVITY ID	ACTIVITY TIME	USER ID			FIRSTNAME	LASTNAME
2	CompletedTask	11-06-2018	1BB8C30E-685B-4E3	8-A2EC-4FBEF850	06366	Brandon	Cook
3							
4							
5							

Field mapping

The settings fields use a {{COLUMN LETTER}} notation meaning that you can customise what order you want the columns to be in when sent back to the activity events api. In this example {{A}} is Activity Id, {{B}} is Activity time, {{C}} is User Id and so on. This means that different activities for different users with different values can be sent in one go by adding the relevant data in each row:

Note: the top row is reserved for headers and can be used for labeling purposed.



5		100% - E	% .0 <u>,</u> .0	0 123 - Arial	- 10	- B I	<u>Ş</u> <u>A</u> ♦.	⊞ 53 - ≣	· ± · ÷ ·	🕅 - GÐ 🖬	ıh Υ - Σ	^	Settings
fx													Activity ID*
-0	A	в	С	D	E	-	G	н	1	J	к	L N	{{A}}
1 A	ACTIVITY ID	ACTIVITY TIME	USER ID	FIRSTNAME	LASTNAME	TEXT 1	TEXT 2	DATE 1	INTEGER 1	INTEGER 2	VERIFIED	ISSUED	
2 0	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook								
3								-					Activity Time*
4			←										{(B)}
5													
8								~					Liner ID*
7													1100
8									_				{(C)}
9									2				
10					←								First Name
11													((D))
12													((en
13						←							
14													Last Name
15													{(E)}
16													
17													
18													Extra properties
19										V			These are optional properties wh
20								<					can be sent
21													currec sent.
22									6				Text 1
23									_				((5))
24 C	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook				30				<u>{{</u> }}
26 0	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook				10)			
28 0	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook				9	9	1/		Text 2
27 C	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook				66	5			{{G}}
28 C	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook				8	3			
29 C	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook				12	2	1 A		
30													Date 1
01									135	5			{{H}}
32													
13													Integer 1
14 C	CompletedTask	11-06-2018	1BB8C30E-6	Brandon	Cook			01/06/2018					

Enhancements and Bug Fixes

[Report changes in this release. Include the issue/ticket number, type and one-line summary. Include issues that were highlighted in the "What's New" section above.]

Known Problems and Workarounds

[State all known defects discovered in this release or in previous releases that are still not resolved. Include information on workarounds from the issues.]

Supporting Documentation

[Attach any supporting documentation such as the RFQ, Functional Specification, design documents, etc. Please ensure these are clearly annotated with any additions, omissions, or alterations.]

Browser Compatibility

[List the browsers this development is required to be compatible with.]



Page 23 of 27

Have you tested all the above browsers and can confirm that the new features/fixes/enhancements display correctly?

YES/NO (Delete as appropriate.)

If NO, please provide the reason.

Required Software Downloads and Recommended Versions

[Enter the software downloads and versions that are required for this development, eg. Java, Flash player.]

QA Checklist

Below is basic testing and quality assurance checklist. Please confirm that all of the following have been applied/checked before releasing to testing.

1. Forms and Search Fields

- a) Max character lengths
- b) Non-alphanumeric characters, numbers and letters, html tags, eg.
 !"£\$%^&*()_+=-{}:@~<>?[];'#,./\|`¬ <text> <text< abc 123
- c) Validation, eg. times, dates, numbers, numbers only etc.
- d) Required fields
- e) Red error messages

2. Usability, Accessibility and Navigation

- a) Breadcrumbs are correct and hyperlinked appropriately
- b) Correct browser tab names
- c) Tool tips/Alt tags check they exist and are correct
- d) Success/Failure notifiers, eg. When adding/editing/deleting/uploading/saving
- e) Confirmation dialog box asking user to approve requested operation, eg. to delete something
- f) Simple and logical navigation (eg. Back, Return to... or cancel links)
- g) Correct mouse cursors



3. Content – Quality and Consistency

- a) Correct and user friendly instructional text
- b) Consistency of buttons, titles, headers etc. (eg. Title case, sentence case, camel case, size, font, colour)
- c) Spelling
- d) Grammar
- e) Punctuation

Have all the above applicable items been tested prior to release to testing? YES/NO (Delete as appropriate.)

Reviews and Demos

[Please enter the dates that reviews and demos have taken place or are scheduled to occur and confirm that a smoke/sanity test has been conducted.]

Date peer review conducted: Name of colleague who conducted the review:

Date of developer to tester demo/walkthrough:

Has a smoke test been conducted on the test environment to qualify the build? YES/NO (Delete as appropriate)

Installation and Upgrade Notes

[List any specific database updates, web.config settings or any other relevant information required for installation/upgrade.]

Database Updates

Web.Config Settings

Other The edit page for the google **forms** add-on: <u>https://chrome.google.com/webstore/developer/edit/hokfhhlaabikmmfpihalkjnclfcogiek</u>



The edit page for the google **sheets** add-on:

https://chrome.google.com/webstore/developer/edit/ohjonalgodncgealfnkhjmlphjepcjcc

Dependencies

[List any dependencies.]

Environments

[Enter the development, testing and live environments. List URLs and also log ins if appropriate.]

Development

Mobile Platform

URL

Database

User Login Data

Testing

Mobile Platform

URL

Database



User Login Data

Demo

Mobile Platform

URL

Database

User Login Data

*Please upload completed release notes to the appropriate folder in SharePoint

