This document represents a test plan and test session result for a following task:

2) Test Planning
Goal of this task to plan testing activities with API based user interaction.
Let test blogging platform medium.com, so we can test several public endpoints.

EndUser scenario flow:

1. Open medium.com
2. Create a new free account by Sign Up and proceed with registration
3. Log in into medium.com and open https://medium.com/me/settings
4. Generate new "Integration token"
5. Use generated token for bearer authorization and check connectivity by issuing:
 https://api.medium.com/v1/me.
You should get valid user information back.
6. Create the new post via call
https://api.medium.com/v1/users/{{authorId}}/posts.
Use API documentation for proper formatting
7. Propose validation methods that publication call was succeeded.

Links:
API documentation: https://github.com/Medium/medium-api-docs

- Please plan test activities for step 6.
- Put priorities on the test cases

Total number of test cases	24
Passed	12
Failed	1
Caution	4
Not tested	7
Number of issues found	4

	Test Plan	Find the data samples and preconditions on **Data Samples** page						
#	**Priority**	**Test case name**	**Details**	**Data Sample #**	**Expected result**	**Actual result**	**Staus**	**Issue #**

1	High	Create post with minimal set of valid data	Create a post using auth token and data sample with all required fields.	#1	1. **Response code:** 201 Created
					
					2. **Reponse body:**
					    - contains created post's data with following fields:
					        - id - is id of created post
					        - title - title has same value as in a POST query
					        - authorId - is ID of current user, same one as in GET /me query results
					        - url - is a valid URL of post on medium.com. When you load it in browser you can see the created post
					        - canonicalUrl - is empty, as we did not populate it
					        - tags - empty, as we didn't populate them
					        - publishStatus - public, as it is a default status
					        - license - empty, as we didn't populate it
					        - licenseUrl - is a valid URL of medium.com page with a description of default license
					    - all the fields display the same data we sent in a POST query
					
					3. **Check from UI** that post is available on medium.com and seen from user's page. Alos check that post is available wh by the URL returned in response
						1. Reponse code is 201 Created
						2. Content field is absend in response body, but rest is ok. I do not think that content absense is an issue here
						3. On UI post has correct content
							Passed	

2	High	Create post with HTML content	Create a post with HTML content type and HTML content. Put in content all supported HTML tags from documentation	#1	1. **Response code:** 201 Created 2. Response contains post ID and all the usual fields listed in Case #1 3. On a UI formatting appears correct according to HTML tags used in a POST body	Passed against all 3 criterias	Passed	
3	Medium	Create post with unsupported HTML tags		#2	1. **Response code:** 201 Created 2. When you open post on UI, all the unsupported tags should be cut off and content inside should stay displaying	Issue in documentation. List tags from a data sample are actually supported. Need to test more variants of different tags	Caution	
4	High	Create post with markup content		#3	1. **Response code:** 201 Created 2. Response contains post ID and all the usual fields listed in Case #1 3. On a UI formatting appears correct according to markup used in a POST body		Passed	
5	High	Check default status. Public should be default status if nothing set in query		#1	Publication should has public status by default and should be seen in Public tab on UI	Test case passed, but after adding a few posts, issue with posts number limit appeared	Caution	1
6	High	Check license. "all-rights-reserved" should be set by default if nothing selected		#1	1. **Response code:** 201 Created 2. 'license' field in reponse body is empty 3. 'licenseURL' loads a page with default Medium license		Passed	
7	High	Check Required. Check that fields content format, and content are required fields	Send POST requests using data from data sample #4 with both variations	#4	1. **Response code: 400** Bad Request 2. Error message contains the name of incorrect field and note that field is required		Passed	
8	High	Check statuses. Draft / Public / Unlisted	Send POST requests using data from data sample #5 with with all 3 variations	#5	1. **Response code:** 201 Created 2. post status fields indicates correct status 3. on medium.com user's page post shown as public / unlisted or draft depends on status field		Passed	
9	Medium	Check statuses. Invalid status		#6	1. **Response code: 400** Bad Request 2. Error message points on incorrect field value and should list the correct values for the incorrect field	The list of correct values is not counted in error message text	Caution	2
10	High	Check authorization. Create post with invalid token		#7	1. **Response code: 401** Unauthorized 2. Error message should say token is invalid		Passed	
11	High	Chek authorization. Create post with expired token		N/A	1. **Response code: 401** Unauthorized 2. Error message should say token is expired		Not tested	

	Test Plan	Find the data samples and preconditions on **Data Samples** page						
#	**Priority**	**Test case name**	**Details**	**Data Sample #**	**Expected result**	**Actual result**	**Staus**	**Issue #**
12	High	Tags. That should be possible to create post with a tags		#8	1. **Response code:** 201 Created 2. post status fields indicates correct status 3. on medium.com user's page post can be opened and in Publich menu item all the tags should be listed		Passed	
13	Medium	Tags. Check that tags with length more then 25 characters are cut off		#8.3	Tags with length more then 25 characters should be cut off		Passed	
14	Medium	Tags. Check that it is not possible to put more then 3 tags on a post		#8.2	Only first 3 tags should be present in a post, rest should be cut off	There is a documentation issue in API. Really posts allow up to 5 tags	Caution	3
15	Medium	Tags. Check that tags with allowed charaters can be posted, rest are cut off		#8.1	Tags only support letters, numbers, spaces, and dashes. Tags with all the other characters should be cut of from a post		Passed	
16	High	That should be possible to create canonical URL to the post		#9	1. **Response code:** 201 Created 2. canonical URL has correct value, one form POST request		Passed	
17	Medium	Title. Check that title with 100 and longer are replaced with autogenerated title taken from a post content		#10	1. **Response code:** 201 Created 2. Title is autogenerated from a first words of a content	Post has been created with a 147 characters long title. No validation errors, no autogenerated title. Seems this is API documentation issue, or API bug	Failed	4
18	Medium	Check license. That should be possible to create post under different licenses	Create post with each of supported licenses, for this use the data sample with different variations of license fiend. Valid values are "all-rights-reserved", "cc-40-by", "cc-40-by-sa", "cc-40-by-nd", "cc-40-by-nc", "cc-40-by-nc-nd", "cc-40-by-nc-sa", "cc-40-zero", "public-domain"	#11.1.x	Depends on chosen license type, license URL should change to point a page with description of selected license		Not tested	
19	Medium	Check license. Invalid value	Create post with invalid type of license. Check that error message is displayed and reponse has list of correct values to be used	#11.2	1. **Response code: 400** Bad Request 2. Error message points on incorrect field value and should list the correct values for the incorrect field		Not tested	
20	High	Default notification settings. 'Notify followers' should be set by defaut if it's not set in query		#1	1. **Response code:** 201 Created 2. Check that users who following test user on medium received notification about new post		Not tested	
21	Medium	Check notification settings. That should be possible to switch ON followers notifications		#12	1. **Response code:** 201 Created 2. Check that users who following test user on medium received notification about new post		Not tested	
22	Medium	Check notification settings. That should be possible to switch OFF followers notifications		#12.1	1. **Response code:** 201 Created 2. Check that users who following test user on medium did not receive notification about new post		Not tested	
23	High	SECURITY. Try to put XSS script into post content	Create a post using a data sample #14	#13	All the data inside of <script> </script> tags should be cut off, or at least tags them self should be cut off, so users who load the created post in a browser won't get this code executed in their bwosers		Passed	
24	Medium	Invalid data formats	Using data sample 14 with variations, check that API responds with detailed error messages for each field where invalid data format has been used, so API users can understand what is wrong with a data format	#14.x	1. **Response code:** 400 Bad Request 2. For each invalid field error message with description of corrrect format should be displayed		Not tested	

Data Samples
On this page you can find the description of common preconditions section for all the cases from a Test Plan
Also page contains samples of data refered from test cases on Test Plan page

For all the POST queries use following request headers:

Authorization	Bearer 2e348beb5aefd8e9de4ef72f9c2a483b8853b526d40ccab0145664481c12f8062
Content-Type	application/json
Accept	application/json
Accept-Charset	utf-8

Data samples

Data samples are POST request body which should be used for a related test case (s)

Data sample #	1
| Request | ```
{
   "title": "Case # <number_of_a_case>",
   "contentFormat": "html",
   "content": "<h1>Accepted markup for Medium's Publishing API</h1><p>We accept HTML and Markdown. Please find a more detailed guide for each of these content formats below. </p><h2>1. HTML</h2><blockquote>I am a blockquote</blockquote><figure> <img src=\"https://cdn-images-1.medium.com/letterbox/263/45/50/50/1*opG_frWnhTIl4PiDUVP5ZQ.gif?source=logoAvatar-fd49539239cf---15f753907972\" ><figcaption>3 min read cation</figcaption></figure><b>bold text</b>, <strong>also bold text</strong><i>italic text</i>, <em>also italic text </em><a href=\"http://medium.com\">link here</a>// a section break<hr>"

}
``` |
| Variations | put test case number instead of <number_of_a_case> in request body => title filed |

Data sample #	2. Unsupported HTML tags

Data Samples
On this page you can find the description of common preconditions section for all the cases from a Test Plan
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| Request | ```
{
  "title": "Case # <number_of_a_case>",
  "contentFormat": "html",
  "content": "<h1>Accepted markup for Medium's Publishing API</h1><p>We accept HTML and Markdown. Please find a more detailed guide for each of these content formats below.</p><h2>1. HTML</h2><blockquote>I am a blockquote</blockquote><figure>  <img src=\"https://cdn-images-1.medium.com/letterbox/263/45/50/50/1*opG_frWnhTIl4PiDUVP5ZQ.gif?source=logoAvatar-fd49539239cf---15f753907972\"> <figcaption>3 min read cation</figcaption></figure><b>bold text</b>, <strong>also bold text</strong><i>italic text</i>, <em>also italic text</em><a href=\"medium.com\">link here</a> a section break <hr><ul> <li>  First item of a list </li> <li> Second item of a list </li></ul>",
  "publishStatus":"draft"
}
``` |
|---|---|
| **Variations** | put test case number instead of <number_of_a_case> in request body => title filed |

Data sample #	**3. Markup content**

| Request | ```
{
  "title": "Case # <number_of_a_case>",
  "contentFormat": "markdown",
  "content": "# Accepted markup for Medium's Publishing API \n We accept HTML and Markdown. Please find a more detailed guide for each of these content formats below. \n ## 1. HTML\n >I am a blockquote \n \n *bold text*, **also bold text** _italic text_, __also italic text__ \n [foo]: http://medium.com/ (Optional Title Here) \n * First item of a list \n * Second item of a list",
  "publishStatus":"draft"
}
``` |
|---|---|
| **Variations** | put test case number instead of <number_of_a_case> in request body => title filed |

Data sample #	**4. Required fields**

Data Samples
On this page you can find the description of common preconditions section for all the cases from a Test Plan
Also page contains samples of data refered from test cases on Test Plan page

Request	``` { "title": "", "contentFormat": "", "content": "", "publishStatus":"draft" } ```	
Variations	put test case number instead of <number_of_a_case> in request body => title filed **Variation 1** - put "html" in a "contentFormat" field, leave "test" empty **Variation 2** - put "test" in a "content" field, leave "contentFormat" empty	
Data sample #	**5. Different statuses**	
Request	``` { "title": "Case #<number_of_a_case>. Statuses", "contentFormat": "html", "content": "html content", "publishStatus":"draft" } ```	
Variations	put test case number instead of <number_of_a_case> in request body => title filed **Variation 1** - put "draft" in a "publishStatus" field **Variation 2** - put "public" in a "publishStatus" field **Variation 3** - put "unlisted" in a "publishStatus" field	
Data sample #	**6. Invalid status**	
Request	``` { "title": "Case #<number_of_a_case>. Invalid status", "contentFormat": "html", "content": "html content", "publishStatus":"invalid" } ```	
Variations	put test case number instead of <number_of_a_case> in request body => title filed	
Data sample #	**7. Authorization. Invalid token**	
Header	Authorization: 'Bearer 2e348beb5aefd8e9de4ef72f9c2a483b8853b526d40ccab0145664481c12f'	
Variations	put test case number instead of <number_of_a_case> in request body => title filed	

Data Samples
On this page you can find the description of common preconditions section for all the cases from a Test Plan
Also page contains samples of data refered from test cases on Test Plan page

Data sample #	8. Tags
| Request | ```
{
  "title": "Case #<number_of_a_case>. Tags",
  "contentFormat": "html",
  "content": "Post with tags",
  "publishStatus":"draft",
  "tags":["medium","sport", "API-test"]
}
``` |
| Variations | put test case number instead of <number_of_a_case> in request body => title filed

8.1 - Invalid tag characters: "tags":["medium@","sport#", "API-test", "correct-tag-123"]
8.2 - Too many tags: "tags":["medium","sport", "fashion", "weather","4thtag","music","movies","pop-art"]
8.3 - Too long tag: "tags":["morethen25characterslongtagtesting","25characterslongtagtesti"] |

Data sample #	9. Canonical URL
| Request | ```
{
  "title": "Case #<number_of_a_case>. Canonical URL",
  "contentFormat": "html",
  "content": "Post with tags",
  "publishStatus":"draft",
  "tags":["medium","sport", "API-test"],
  "canonicalURL":"https://github.com/Medium/medium-api-docs"
}
``` |
| Variations | put test case number instead of <number_of_a_case> in request body => title filed
no other variations |

Data sample #	10. Too long title

Data Samples

On this page you can find the description of common preconditions section for all the cases from a Test Plan

Also page contains samples of data refered from test cases on Test Plan page

Request	```{ "title": "Case #42. One with too long title. If title will be longer then 100 characters, then the first few words from a content should be taken as a title", "contentFormat": "html", "content": "Post with tags. Case #42. One with too long title. If title will be longer then 100 characters, then the first few words from a content should be taken as a title", "publishStatus":"draft" }```	
Variations	put test case number instead of <number_of_a_case> in request body => title filed no other variations	
Data sample #	**11. License types**	
Request	```{ "title": "Case #42. Licenses", "contentFormat": "html", "content": "Post with tags. Case #42. One with too long title. If title will be longer then 100 characters, then the first few words from a content should be taken as a title", "publishStatus":"draft", "license":"all-rights-reserved" }```	
Variations	put test case number instead of <number_of_a_case> in request body => title filed no other variations **11.1.x Valid license types are**: "all-rights-reserved", "cc-40-by", "cc-40-by-sa", "cc-40-by-nd", "cc-40-by-nc", "cc-40-by-nc-nd", "cc-40-by-nc-sa", "cc-40-zero", "public-domain" **11.2 Invalid license**: "GNU"	
Data sample #	**12. Notification settings**	

Data Samples
On this page you can find the description of common preconditions section for all the cases from a Test Plan
Also page contains samples of data refered from test cases on Test Plan page

Request	`{`
	  `"title": "Case #42. NOtification settings",`
	  `"contentFormat": "html",`
	  `"content": "Post with tags. Case #42. One with too long title. If title will be longer then 100 characters, then the first few words from a content should be taken as a title",`
	  `"license":"all-rights-reserved" ,`
	  `"notifyFollowers":true`
	
	`}`	

Variations	put test case number instead of <number_of_a_case> in request body => title filed **12.1 OFF notifications:** "notifyFollowers":false	
Data sample #	**13. XSS**	

Request	`{`
	  `"title": "Case #42. XSS",`
	  `"contentFormat": "html",`
	  `"content": "Post with tags. Case #42. One with too long title. If title will be longer then 100 characters, then the first few words from a content should be taken as a title`
	`<script>alert('Hello, it's XSS here!')</script>",`
	  `"publishStatus":"draft",`
	  `"license":"all-rights-reserved" ,`
	  `"notifyFollowers":true`
	
	`}`	

Variations	put test case number instead of <number_of_a_case> in request body => title filed	
Data sample #	**14. Invalid data format**	

Data Samples
On this page you can find the description of common preconditions section for all the cases from a Test Plan
Also page contains samples of data refered from test cases on Test Plan page

Request	```
	{
	  "title": 42,
	  "contentFormat": "html",
	  "content": "Case 'Invalid data format'. One with too long title. If title will be longer then 100 characters, then the first few words from a content should be taken as a title",
	  "publishStatus":"draft",
	  "license":"all-rights-reserved" ,
	  "notifyFollowers":true
	}
	``	

Variations	put test case number instead of <number_of_a_case> in request body => title filed **variations:** **14.1** "contentFormat": 42 **14.2** "content":42 **14.3** "publishStatus":42 **14.4** "license": 42 **14.5** "notifyFollowers":42	

Issues & Bugs

	Issue # 1	**When publication limit reached, there is no clear notification that posts keep creating with a draft status**	
	Priority	Medium	
	Steps	1. Send POST /post with a data sample 1 20 times a row	
	Expected	At some point when number of posts reached, reponse code 429 - Too Many Requests, together with error about too much reqests, I've expected the information about created post. As post was created, but only with draft status	
	Defect	there is no information about the created post, only the error message	
	Comments	I didn't find a way to increase the number of public post per day easily. On thier GitHub issues page that it is possible by getting emailing them https://github.com/Medium/medium-api-docs/issues/28	
	Issue # 2	**Correct values for post status should be listed in error message for POST /post when 'publicStatus' field contains incorrect value**	
	Priority	Medium	
	Steps	1. Send POST /post with a data sample 6	
	Expected	Together with error message, list of valid statuse shouldbe listed	

	Defect	{
		  "errors": [
		    {
		      "message": "Invalid publishStatus specified.",
		      "code": 2008
		    }
		  ]
		}
		There is no list of valid statuses	

	Comments		
	Issue # 3	**API documentation says 3 tags is max number of tags for post, though it is possible to create post with up to 5 tags**	
	Priority	Medium	
	Steps	1. Send POST /post with a data sample 8.2	
	Expected	In created post there should be only 3 tags from a list	
	Defect	There is 5 tags in created post	
	Comments	This is an issue in API documentation here https://github.com/Medium/medium-api-docs	
	Issue # 4	**Titles more then 100 long are not replaced with an autogenerated title, which is an issue for SEO**	
	Priority	**High**	
	Steps	1. Send POST /post with a data sample 10	
	Expected	1. **Response code:** 201 Created 2. Title is autogenerated from a first words of a content	
	Defect	Post has been created with a 147 characters long title. No validation errors, no autogenerated title. Seems this is API documentation issue, or API bug	
	Comments		