Lab 4 Report

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Date: 2021/06/05

1 Test Plan

1.1 Scope

對 KeystoneJS 網 站 的功能進行測試,並通過基於網站功能所設計出的測試案例。

測試工具::

- Google Chrome 瀏覽器
- Selenium with Python,
- Pycharm
- Python Unittest

1.2 Features to be tested

根據分析 KeystoneJS 上的功能,列出了以下 8 個 Features 來涵蓋所有相關 Features 以進行測試。

TC-001	TestCreateAPost : Create a post on the Admin UI page
TC-002	TestEditAPost: Edit a post on the Admin UI page
TC-003	${\tt testDeleteAPost:} \textbf{Delete a post on the Admin UI page}$
TC-004	${\tt testCreateAComment:Create\ a\ comment\ on\ Admin\ UI\ page}$
TC-005	testEditAComment: Edit a comment on Admin UI page
TC-006	testDeleteAComment : Delete a post on the Admin UI page
TC-007	TestCreateACategory : Create a category on Admin UI page

TC-008 testCreateAEnquiryonContactPage : Create an enquiry on the "Contact" page

1.3 Success criteria of completing the test

(1) 測試須達到到 100%的通過率。

1.4 Test approaches

根據網站的功能,使用Each choice Criterion和Basis Path Coverage設計測試案例。

1.5 Testing tasks

No.	Activity Name	Plan hours	Schedule Date
1	測試環境架設	2	6/3
2	熟悉 KeystoneJS 功能,	1	6/4
3	設計測試案例	5	6/4
4	測試案例實作	10	6/5
5	撰寫測試報告	3	6/5
6	完成 Lab4 報告	3	6/5

2 Test Design

Test Design如同Excel

3 Test Implementation

因程式碼過長,只擷取部分程式碼,全部的測試實作程式碼放置於 Geoproject/LabReport/Lab4/testCode 內

No.	Test method	Source test code
	testCreateANewPost	<pre>def test_create_a_post_by_ECC_TC001_T2(self):</pre>
		<pre>posts_page_button = self.driver.find_element_by_xpath("//a[normalize-space()='Posts']") posts_page_button.click()</pre>
		<pre>create_post_button = self.driver.find_element_by_xpath("//button[@data-e2e-list-create- button='no-results']") create_post_button.click() input_post_title = self.driver.find_element_by_xpath("//input[@class='css-foh633']") input_post_title.send_keys("Wakanda forever")</pre>
		<pre>create_button = self.driver.find_element_by_xpath("//button[normalize- space()='Create']") create_button.click()</pre>
1		<pre>self.driver.switch_to.frame(self.driver.find_element_by_xpath("//*[co ntains(@id,'keystone-html-0_ifr')]")) content_brief = self.driver.find_element_by_xpath("//*[contains(@class,'mce-content-body')]") content_brief.send_keys("Spider man")</pre>
		self.driver.switch_to.default_content()
		<pre>save_post_button = self.driver.find_element_by_xpath("//button[@data-button='update']") save_post_button.click()</pre>
		<pre>success_prompt = self.driver.find_element_by_xpath("//div[@data- alert-type='success']") self.assertTrue("Your changes have been saved successfully" in success_prompt.get_attribute('innerHTML').strip())</pre>
		<pre>post_list_page_button = self.driver.find_element_by_xpath("//a[contains(@class,'css- dmf4a8')]") post_list_page_button.click()</pre>
		<pre>new_post_link = self.driver.find_element_by_xpath("//a[contains(@class,'ItemListval ue')]") self.assertEquals("Wakanda forever", new_post_link.get_attribute('innerHTML').strip()</pre>

2

testCreateAComment

```
for element in PUBLISHED DATE.split(' '):
    self.assertTrue(element in comment column item list[4].text)
self.assertEquals(STATE, comment column item list[5].text)
```

	me[contains(@id,'keystone-html')]"))
	<pre>content = self.driver.find_element_by_xpath("//*[contains(@class,'mce-content-</pre>
	body')] ")
	<pre>self.assertEquals(CONTENT, content.text)</pre>
	self.driver.switch_to.default_content()

```
def test_edit_a_comment_by_ECC_TC005_T3(self):
      testEditAComment
3
                                                                                    8
```

```
time.sleep(1)
self.driver.refresh()
PUBLISHED DATE =
save_button = self.driver.find_element_by_xpath("//*[@data-
```

```
AUTHOR, comment_column_item_list[2].text)
AUTHOR, select item list in comment edit page[0].text)
```

4 Test Results

TC-001TestCreateAPost

```
collecting ... collected 6 items
 TestCreateAPost.py::TestCreateAPost::test_create_a_post_by_BPC_TC001_alternative_pa
 TestCreateAPost.py::TestCreateAPost::test_create_a_post_by_BPC_TC001_happy_path_cho
 TestCreateAPost.py::TestCreateAPost::test_create_a_post_by_ECC_TC001_T1
 TestCreateAPost.py::TestCreateAPost::test_create_a_post_by_ECC_TC001_T2
 TestCreateAPost.py::TestCreateAPost::test_create_a_post_by_ECC_TC001_T3
 TestCreateAPost.py::TestCreateAPost::test_create_a_post_by_ECC_TC001_T4
 Process finished with exit code 0
 PASSED [ 16%]PASSED [ 33%]PASSED [ 50%]PASSED [ 66%]PASSED [ 83%]PASSED [100%]
TC-002TestEditAPost
collecting ... collected 7 items
TestEditAPost.py::TestEditAPost::test_edit_a_post_by_ECC_P1
TestEditAPost.py::TestEditAPost::test_edit_a_post_by_ECC_P2
TestEditAPost.py::TestEditAPost::test_edit_a_post_by_ECC_P3
TestEditAPost.py::TestEditAPost::test_edit_a_post_by_ECC_TC002_T1
TestEditAPost.py::TestEditAPost::test_edit_a_post_by_ECC_TC002_T2
TestEditAPost.py::TestEditAPost::test_edit_a_post_by_ECC_TC002_T3
TestEditAPost.py::TestEditAPost::test_edit_a_post_by_ECC_TC002_T4
Process finished with exit code 0
PASSED
           [ 14%]PASSED
                           [ 28%]2022-06-05
PASSED
           [ 42%]PASSED [ 57%]PASSED [ 71%]PASSED [ 85%]PASSED [100%]
```

TC-003testDeleteAPost

TC-004testCreateAComment

TC-005 testEditAComment

TC-006testDeleteAComment

TC-007TestCreateACategory

TC-008testCreateAEnquiryonContactPage

5 Summary

在Lab4中,每個Testcase都使用了Each choice criterion和Basic Path Coverage來設計測試。且執行並通過全部的測試Selenium程式碼。這次的Lab4 花比較多時間在於熟習Selenium以及環境安裝,並透過實作程式碼更熟悉ISP和 Graph的測試方法。