Lab4 Report

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1 Test Plan

1.1 Summary/Scope

The system to be tested for this lab is KeystoneJS, an open source framework for developing database-driven websites, applications and APIs in Node.js. KeystoneJS makes it easy to create sophisticated web sites and apps, and comes with a beautiful auto-generated Admin UI. require to test only 12 features. Design one or more test cases for the selected features, and design at least 9 test cases

1.2 Features to be tested

1.2.1 Create a post on the Admin UI page

1.2.2 Edit a post on the Admin UI page

1.2.3 Delete a post on the Admin UI page

1.2.4 Search posts by keyword on the Admin UI page

1.2.5 Create a comment on Admin UI page

1.2.6 Edit a comment on Admin UI page

1.2.7 Delete a comment on Admin UI page

1.2.8 Create a category on Admin UI page

1.2.9 Show posts of the specific category by pressing category name on the "Blog" page

1.2.10 Create an enquiry on the "Contact" page

1.2.11 Delete an enquiry on Admin UI page

1.2.12 Create a new user on Admin UI page (Name, Email, Phone, and Password must be set when creating the new user)

1.3 Success criteria of completing the test

All test cases designed for the selected features must pass.

1.4 Test environment and/or infrastructure

1.4.1 Windows

1.4.2 chrome

1.4.3 Python selenium 4.9.1

1.4.4 python3.10.7

1.5 Test approaches

1.5.1 Using ISP to design test cases for each feature to be tested.

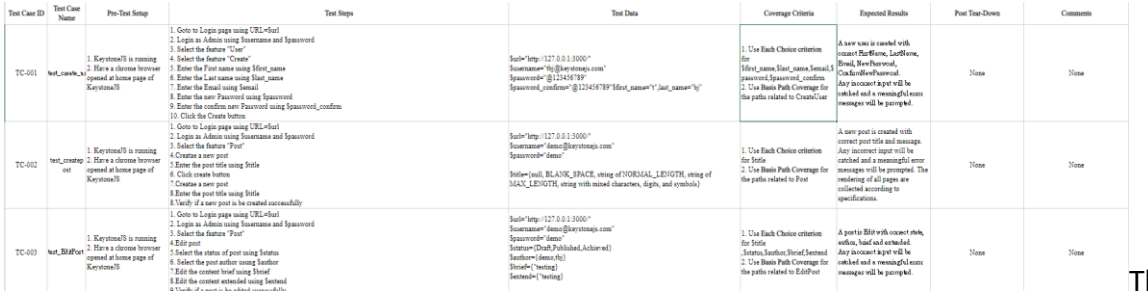
1.5.2 Using Basis Path Coverage.

1.5.3 Using python selenium and pytest perform the test.

1.6 Test approaches

No.	Activity Name	Plan hours	Schedule Date
1	Complete run KeystoneJS application on Docker.	0.5	2023/05/18
2	Learn Selenium with Python	1	2023/05/19
3	Design test cases for the selected feature	3	2023/05/20
4	Implement test cases and Lab Report	3	2023/05/22

2 Test Design



The details of the design are given below:

https://course.selab.ml/stv-gitlab/111598027/GeoProject/blob/master/LabReport/Lab4/Lab4_testcase1.xlsx

3 Test Implementation

Test Case ID	Test Case Name	Source Test Code
TC-002	test_createpost	

```python
def test_CreatePost():
    chrome.get("http://127.0.0.1:3000/keystone/signin")
    chrome.find_element(by=By.NAME, value="email").send_keys('demo@keystonejs.com')
    chrome.find_element(by=By.NAME, value="password").send_keys('demo')
    chrome.find_element(by=By.CLASS_NAME, value="css-2960tt").click()
    time.sleep(1)

    chrome.find_element(by=By.LINK_TEXT, value="Posts").click()
    time.sleep(1)

    chrome.find_element(by=By.CLASS_NAME, value="css-h629qq").click()
    time.sleep(1)
    chrome.find_element(by=By.NAME, value="name").send_keys("testing")
    chrome.find_element(by=By.CLASS_NAME, value="css-h629qq").click()
    #重新導向post頁面
    chrome.get('http://127.0.0.1:3000/keystone/posts')
    post_list = chrome.find_element(by=By.CLASS_NAME, value="Table").text
    assert 'testing' in post_list
    chrome.close()
```

The design of test cases specified in Section 2 was implemented using python selenium. The test scripts of 1 selected test case are given below and the others is in the gitlab.

4 Test Result

```
============================================= test session starts =============================================
platform win32 -- Python 3.10.7, pytest-7.3.1, pluggy-1.0.0
rootdir: D:\碩士\軟測\Lab\lab04
plugins: mock-3.10.0
collected 9 items

test.py
DevTools listening on ws://127.0.0.1:62671/devtools/browser/1fb28876-b20b-40db-b446-a1b719661a06

DevTools listening on ws://127.0.0.1:62698/devtools/browser/e78668a4-3c93-4104-8ded-28917d004439

DevTools listening on ws://127.0.0.1:62731/devtools/browser/f5393a30-8a84-4110-a4d4-f3d5b4b840f8
[2444:26044:0521/031725.308:ERROR:page_load_metrics_update_dispatcher.cc(178)] Invalid first_paint 0.457 s for first_image_paint 0.454 s
[2444:26044:0521/031725.475:ERROR:page_load_metrics_update_dispatcher.cc(178)] Invalid first_paint 0.457 s for first_image_paint 0.454 s
[2444:26044:0521/031725.496:ERROR:page_load_metrics_update_dispatcher.cc(178)] Invalid first_paint 0.457 s for first_image_paint 0.454 s
[2444:26044:0521/031725.550:ERROR:page_load_metrics_update_dispatcher.cc(178)] Invalid first_paint 0.457 s for first_image_paint 0.454 s
[2444:26044:0521/031725.865:ERROR:page_load_metrics_update_dispatcher.cc(178)] Invalid first_paint 0.457 s for first_image_paint 0.454 s
[2444:26044:0521/031726.171:ERROR:page_load_metrics_update_dispatcher.cc(178)] Invalid first_paint 0.457 s for first_image_paint 0.454 s

DevTools listening on ws://127.0.0.1:62763/devtools/browser/0e2dc309-4c9f-49de-a6c0-4003c9031540

DevTools listening on ws://127.0.0.1:62789/devtools/browser/f99e7900-350f-42ec-946c-29479a8e4cc8

DevTools listening on ws://127.0.0.1:62820/devtools/browser/91162b0e-d917-4d16-9b9e-89c39406b7cd

DevTools listening on ws://127.0.0.1:62848/devtools/browser/0f77b3cd-90f3-4697-95f7-25c6a27d6ecb

DevTools listening on ws://127.0.0.1:62874/devtools/browser/0ef6cd3d-e088-4db1-b219-a96d772cfe7d

DevTools listening on ws://127.0.0.1:62905/devtools/browser/7f8f3775-4036-4cee-894d-b446a681d710
                                                                                                    [100%]

============================================= 9 passed in 66.46s (0:01:06) ============================================
```