

# Lab5 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 Robot Framework with Selenium library

## 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 Robot Framework with selenium library perform the test.

## 1.6 Test approaches

No.	Activity Name	Plan hours	Schedule Date
1	Learn Robot Framework	3	2023/06/01
2	Design test cases for the selected feature	2	2023/06/02
3	Implement test cases and Lab Report	2	2023/06/03

## 2 Test Design

Test Case ID	Corresponding Scenario (or Use Case)	Descriptions of the Scenario (or Use Case)	Pre-conditions or Pre-Test Setup	Test Steps or Actions taken by User (When)	Input Data (for Performing the Actions)	Expected results and Acceptance Criteria to be Verified (Then)	Post Test-Down (or Restoring Procedures)	Comments
TC-001	test_CreateUser	select user info	1. User is logged in	1. Click on the user icon in the top right corner	\$password="@123456789"	ConfirmNewPassword.	1. Close the chrome browser	None
TC-002	test_CreatePost	1. Enter the post title and content	2. User is logged in	2. Enter the post title and content	\$title="(null, BLANK, SPACE)"	unexpected error messages	1. Close the chrome browser	None
TC-003	test_EditPost	1. Edit the post	2. User is logged in	3. Select the status of post using \$status	\$status="(null, BLANK, SPACE)"	Any incorrect input will be	1. Close the chrome browser	None
TC-004	test_SearchPost	1. Search the post	2. User is logged in	4. Enter the search keyword	\$keyword="(null, BLANK, SPACE)"	A post is Search with correct title	1. Close the chrome browser	None
TC-005	test_CreateComment	1. Add a comment to the post	2. User is logged in	5. Select the status of comment	\$comment="(null, BLANK, SPACE)"	Any incorrect input will be	1. Close the chrome browser	None
TC-006	test_DeleteComment	1. Delete a comment	2. User is logged in	6. Click the delete button	\$comment="(null, BLANK, SPACE)"	A comment is Deleted	1. Close the chrome browser	None
TC-007	test_CreateCategory	1. Create a category	2. User is logged in	7. Open the chrome driver 2. Go to Login page using URL=\$url3. Login a \$username="(null, BLANK, SPACE)"	\$url3="(null, BLANK, SPACE)"	Any incorrect input will be	1. Close the chrome browser	None
TC-008	test_DeleteCategory	1. Delete a category	2. User is logged in	8. Click the delete button	\$url3="(null, BLANK, SPACE)"	A category is Deleted	1. Close the chrome browser	None
TC-009	test_DeletePost	1. Delete a post	2. User is logged in	9. Click the delete button	\$url3="(null, BLANK, SPACE)"	A post is Deleted	1. Close the chrome browser	None

The details of the design at Lab05 report

## 3 Keyword Design

```

*** Keywords ***
#登入操作
Load in Interactive Console
Login
    Open Browser    http://127.0.0.1:3000/keystone/signin    chrome
    Input Text      name=email        tbj@keystonejs.com
    Input Text      name=password     @123456789
    Click Button    class=css-2960tt

#切换到post页面
Load in Interactive Console
Post
    Click Link      link=Posts

#切换到comment页面
Load in Interactive Console
Comment
    Click Link      link=Comments

#切换到category页面
Load in Interactive Console
Categories
    Click Link      link=Categories

#切换到user页面
Load in Interactive Console
Users
    Click Link      link=Users

```

## 4 Test Implementation

Test Case ID	Test Case Name	Source Test Code
TC-002	test_createpost	<pre> Run Using Robot Framework Command test_createpost single wait until keyword succeeds in 300ms Post wait until keyword succeeds in 300ms Click Button class=css-6d20qg input text class=css-6d4033 testing click button //button//text() = 'create' wait until keyword succeeds in 300ms Click Element //input[@class='select-arrow icon'] wait until keyword succeeds in 300ms Click Element class=select-menu-inner wait until keyword succeeds in 300ms Click Element xpath=//input[@type='text']/div/main/div/div/div[1]/form/div[1]/div/div[4]/div/ select from id=select-menu-0_1fp input text //input[@type='text']/p testing unselect from select from id=select-menu-1_1fp input text //input[@type='text']/p testing unselect from click button class=css-2960tt \${result} wait until keyword succeeds in 200ms Get Text class=css-clpou should contain \${result} \${URL_TEXT} close browser </pre>

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

## 4 Test Result

```
=====
Lab05Test :: Lab05 RobotFrameWork test
=====
test_CreateUser
DevTools listening on ws://127.0.0.1:61589/devtools/browser/1b1cbd09-9e90-4253-bcf2-40c866c2358c
test_CreateUser                                     | PASS |
-----
test_CreatePost
DevTools listening on ws://127.0.0.1:61611/devtools/browser/18e244a6-221b-466f-ad56-1b6405dddc14
test_CreatePost                                     | PASS |
-----
test_EditPost
DevTools listening on ws://127.0.0.1:61633/devtools/browser/d545c96a-645e-4107-8f13-ae9b03625297
test_EditPost                                       | PASS |
-----
test_SearchPost
DevTools listening on ws://127.0.0.1:61655/devtools/browser/33a239b2-af9e-4863-9e04-34ca2b8a8b42
test_SearchPost                                     | PASS |
-----
test_CreateComment
DevTools listening on ws://127.0.0.1:61677/devtools/browser/c20b0519-b81d-497c-992e-746628f45e7c
test_CreateComment                                 | PASS |
-----
test_DeleteComment
DevTools listening on ws://127.0.0.1:61699/devtools/browser/81adf6e1-9f50-4e0b-8056-27171a9a8cad
test_DeleteComment                                 | PASS |
-----
test_CreateCategory
DevTools listening on ws://127.0.0.1:61718/devtools/browser/2e85136d-5c62-4957-8539-5a0741b9beb6
test_CreateCategory                                 | PASS |
-----
test_DeleteCategory
DevTools listening on ws://127.0.0.1:61740/devtools/browser/cd0d5bba-213c-4918-8eb2-0e81783ac5c6
test_DeleteCategory                                 | PASS |
-----
test_DeletePost
DevTools listening on ws://127.0.0.1:61758/devtools/browser/57cd23b0-1c01-4acc-bbb9-bd0de9cd1187
test_DeletePost                                     | PASS |
-----
Lab05Test :: Lab05 RobotFrameWork test                                     | PASS |
9 tests, 9 passed, 0 failed
=====
Output:  D:\碩士\軟體\Lab\lab05\test\output.xml
Log:      D:\碩士\軟體\Lab\lab05\test\log.html
Report:   D:\碩士\軟體\Lab\lab05\test\report.html
```

# Lab05Test Report

Generated  
20230603 01:19:50 UTC+08:00  
11 hours 26 minutes ago

## Summary Information

Status:	All tests passed
Documentation:	Lab05 RobotFrameWork test
Start Time:	20230603 01:19:10.277
End Time:	20230603 01:19:50.419
Elapsed Time:	00:00:40.142
Log File:	<a href="#">log.html</a>

## Test Statistics

Total Statistics	Total	Pass	Fail	Skip	Elapsed	Pass / Fail / Skip
All Tests	9	9	0	0	00:00:40	<div></div>
Statistics by Tag	Total	Pass	Fail	Skip	Elapsed	Pass / Fail / Skip
No Tags						<div></div>
Statistics by Suite	Total	Pass	Fail	Skip	Elapsed	Pass / Fail / Skip
Lab05Test	9	9	0	0	00:00:40	<div></div>

## Test Details

AllTagsSuitesSearch

Suite:

Test:

Include:

Exclude:

Search

Clear

Help

Lab05Test Log

Generated: 2023/08/01 19:50 JTC-08:00  
11 hours 28 minutes ago

Test Statistics

Total Statistics							
	Total	Pass	Fail	Skip	Elapsed	Pass / Fail / Skip	
All Tests	9	9	0	0	00:00:40	<div></div>	
Statistics by Tag							
No Tags	Total	Pass	Fail	Skip	Elapsed	Pass / Fail / Skip	
Statistics by Suite							
Lab05Test	Total	Pass	Fail	Skip	Elapsed	Pass / Fail / Skip	
	9	9	0	0	00:00:40	<div></div>	

Test Execution Log

- <span>SUCCESS</span> Lab05Test		00:00:40.142
Full Name: Lab05Test		
Documentation: Lab05 RobotFramework test		
Source: D:\02-40\9\Lab05Test\lab05test.robot		
Start / End / Elapsed: 2023/08/01 19:50:27 / 2023/08/01 19:50:41 / 00:00:14		
Status: 9 tests total, 9 passed, 0 failed, 0 skipped		
- <span>SUCCESS</span> test_CreateUser		00:00:05.160
- <span>SUCCESS</span> test_CreatePost		00:00:05.493
- <span>SUCCESS</span> test_EditPost		00:00:04.949
- <span>SUCCESS</span> test_SearchPost		00:00:04.172
- <span>SUCCESS</span> test_CreateComment		00:00:05.123
- <span>SUCCESS</span> test_DeleteComment		00:00:02.696
- <span>SUCCESS</span> test_CreateCategory		00:00:04.945
- <span>SUCCESS</span> test_DeleteCategory		00:00:02.683
- <span>SUCCESS</span> test_DeletePost		00:00:04.782