

**Software Testing and Verification
Midterm Presentation**

DAILY NOTE

每日筆記/日誌

指導老師：劉建宏 老師



第1組

Member

111C72008 蘇柏緯

111598027 童柏鈞

111598044 曹慶宥

111598059 林家同

111598066 許哲維

Date

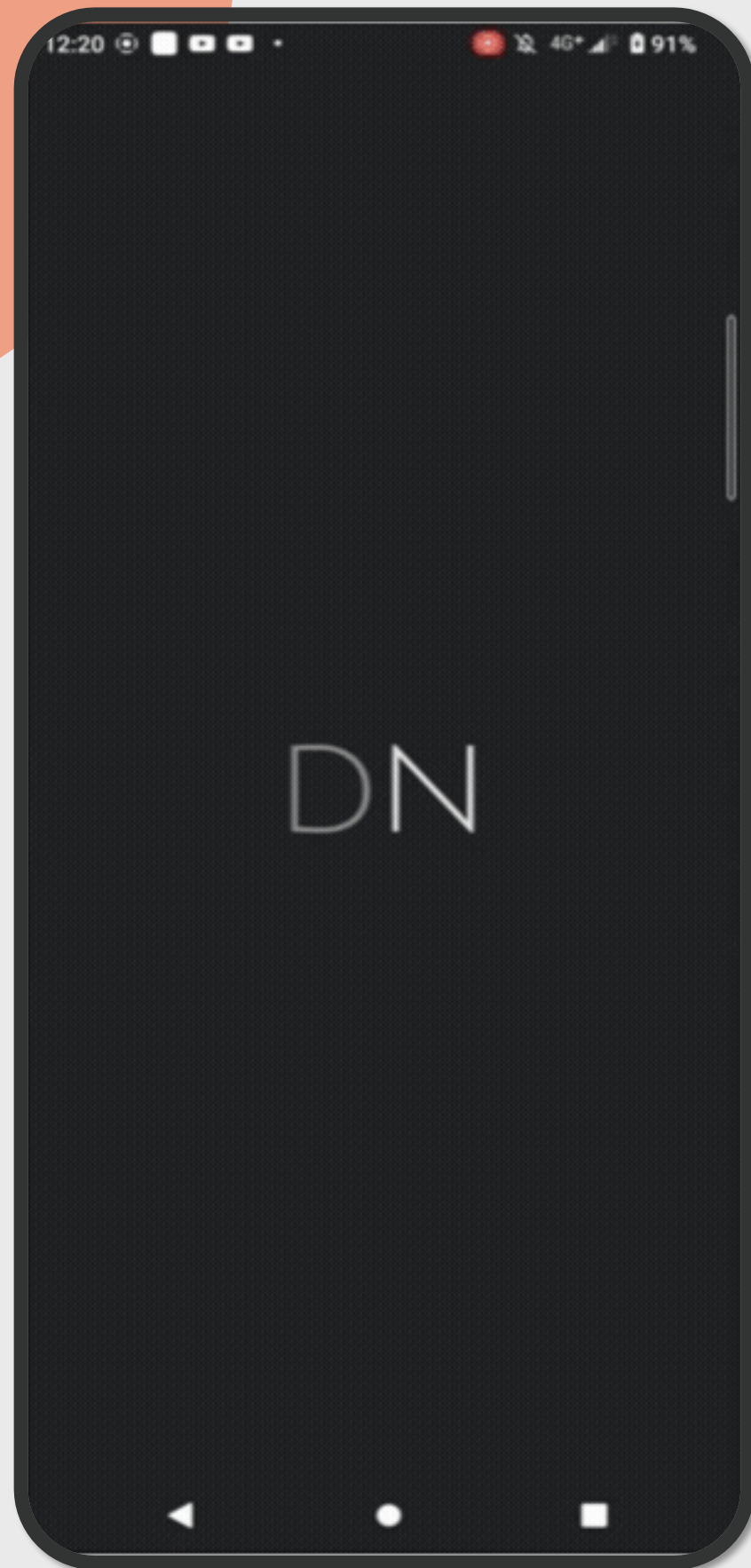
2023/06/21





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Introduction

「DAILY NOTE - 每日筆記/日誌」是一款方便易用的日記應用程式，可以讓用戶輕鬆記錄自己的日常生活、情緒和想法。主要特色如下：

- 簡單快速的記錄
- 在書寫時添加圖片
- 支援多種外觀(字體、背景)
- 在日曆中查看所有筆記

Test Criteria



1. 所有 Test Case 達 85% 以上通過
2. Priority 1 & 2 的測試需全部通過
3. 在測試期間不能因為測試腳本而有閃退、無回應等缺失

Features to be Tested

Feature	Description
Note Created	建立筆記內容，並選擇是否插入圖片、時間、編輯標籤等等。
Note Updated	編輯筆記內容，包括文字、圖片、更換標籤等等。
Note Deleted	刪除筆記內容(文字、整篇日記)。
Note Sorted	排序已編輯的日記。
Image Show	顯示已加入筆記的圖片。
Setting Skin	設定筆記背景與字體。
Setting Image	設定插入筆記之圖片大小。

Features to be Tested

Feature	Description
Setting Lock	設定筆記密碼鎖。
Setting First Day of Week	設定一週的起始日。
Story Language Only	限定今日故事的語言。
Story Copy or Save	複製今日故事的內容或保存故事。

Test Approach

我們使用Input Space Partition(ISP)以及 User Scenarios來設計測試。



All Test Cases

Test Case ID	Feature	Description	Priority
TC-01	Note Created	輸入內容(文字)並建立筆記	1
TC-02	Note Created	輸入內容按取消並跳出警告	2
TC-03	Note Created	輸入內容、插入圖片、時間並建立筆記	1
TC-04	Note Created	插入圖片並建立筆記	1
TC-05	Note Created	插入時間並建立筆記	3
TC-06	Note Created	輸入內容、插入圖片、編輯標籤並建立筆記	2
TC-07	Note Updated	更新筆記的文字內容	1
TC-08	Note Updated	替換筆記的圖片	1
TC-09	Note Updated	編輯筆記的標籤	2
TC-10	Note Deleted	刪除筆記的文字內容	1
TC-11	Note Deleted	刪除整篇日記	1

All Test Cases

Test Case ID	Feature	Description	Priority
TC-12	Note Sorted	由新到舊排序已編輯的日記	2
TC-13	Note Sorted	由舊到新排序已編輯的日記	2
TC-14	Image Show	顯示所有插入筆記的圖片	2
TC-15	Image Show	按日期區間顯示所有插入筆記的圖片	3
TC-16	Image Show	按標籤顯示所有插入筆記的圖片	3
TC-17	Setting Skin	設定背景與文字	2
TC-18	Setting Skin	設定背景	3
TC-19	Setting Skin	設定文字	3
TC-20	Setting Lock	設定密碼鎖	1
TC-21	Setting First Day of Week	設定一週起始日	3

All Test Cases

Test Case ID	Feature	Description	Priority
TC-22	Story Language Only	於今日故事不勾選限定語言	3
TC-23	Story Language Only	於今日故事勾選限定語言	3
TC-24	Story Copy or Save	複製今日故事的內容	2
TC-25	Story Copy or Save	保存今日故事的內容	2

[ID]Name	[TC-01]Note Created (Insert Text)	Infeasible TRs	None
Characteristic ID	C1	Revised TRs (ECC)	None
Characteristic Description	C1: input content	Test Cases (ECC)	T1: {“”, expected result: invalid}, T2: {“Test#123”, expected result: valid}, T3: {“😱”, expected result: valid}, T4: {“ㄨ”, expected result: valid}, T5: {“a...(省略)...aa”, expected result: valid}, T6: {“https://www.ntut.edu.tw/”, expected result: valid} T7: {“<u>Hello World ! </u>”, expected result: valid}
Partitions (Blocks)	C1:{none, 一般字元, 表情符號, 特殊字元, 長字串, URL, 程式碼}		
Test Requirements (ECC)	{none}, {一般字元}, {表情符號}, {特殊字元}, {長字串}, {URL}, {程式碼}	Memo (ECC)	T1 covers {none}, T2 covers {一般字元}, T3 covers {表情符號}, T4 covers {特殊字元}, T5 covers {長字串}, T6 covers {URL}, T7 covers {程式碼}

```

# #TC01
def test_CreateNote():
    driver = webdriver.Remote(appium_server_url, capabilities) #建立一個driver
    driver.implicitly_wait(5)
    inputtext = ["", "test", "😱😱😱 ", "㊦3o#N", "a"*10000, "https://www.google.com.tw/", "<u>士萱:謝謝你</u>"]
    result=[]
    for i in inputtext:
        el1 = driver.find_element(by=AppiumBy.XPATH,
                                   value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout
        el1.click()
        el2 = driver.find_element(by=AppiumBy.CLASS_NAME, value="android.widget.EditText")
        el2.send_keys(i) #送出測試文字
        el3 = driver.find_element(by=AppiumBy.XPATH,
                                   value="//android.view.View[@content-desc=\"checkmark_alt\"]/android.wid
        el3.click() #點擊確認勾
        el4 = driver.find_element(by=AppiumBy.XPATH,
                                   value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout
        text = el4.get_attribute('text')
        if text == "No notes":
            result.append("")
        else:
            result.append(text)
    assert inputtext == result

```

[ID]Name	[TC	e)	Infeasible TRs	None
Characteristic ID	C1		Revised TRs (ECC)	None
Characteristic Description	C1		Test Cases (ECC)	T1: {png格式圖片, expected result: valid}, T2: {jpg格式圖片, expected result: valid}, T3: {tif格式圖片, expected result: invalid}, T4: {gif格式圖片, expected result: valid}, T5: {bmp格式圖片, expected result: valid}, T6: {psd格式圖片, expected result: invalid}, T7: {dng格式圖片, expected result: valid}, T8: {webbp格式圖片, expected result: valid}
Partitions (Blocks)	C1 ng,	.d		
Test Requirements (ECC)	{.tif {.ps	p},	Memo (ECC)	T1 covers {png}, T2 covers {jpg}, T3 covers {tiff}, T4 covers {gif}, T5 covers {bmp}, T6 covers {psd}, T7 covers: {dng}, T8 covers {webp}

DN

User Scenario



Tasks

- 建立日記
- 新增文字
- 新增時間
- 新增圖片
- 儲存日記

```
# #TC03
def test_SelectPhotoAddTimeAddTextCreateNote():
    driver = webdriver.Remote(appium_server_url, capabilities) #建立一個driver
    driver.implicitly_wait(5)
    el1 = driver.find_element(by=AppiumBy.XPATH, value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.TextView")
    el1.click()
    el2 = driver.find_element(by=AppiumBy.CLASS_NAME, value="android.widget.EditText")
    el2.send_keys("test") #送出測試文字
    el3 = driver.find_element(by=AppiumBy.XPATH, value="//android.view.View[@content-desc=\"clock\"]/android.widget.TextView")
    el3.click() #點擊新增時間
    el4 = driver.find_element(by=AppiumBy.XPATH, value="//android.view.View[@content-desc=\"camera\"]/android.widget.TextView")
    el4.click() #點擊新增圖片
    el5 = driver.find_element(by=AppiumBy.XPATH, value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.TextView")
    el5.click() #選擇圖片
    el6 = driver.find_element(by=AppiumBy.XPATH, value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.TextView")
    el6.click() #按叉叉
    el7 = driver.find_element(by=AppiumBy.XPATH, value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.TextView")
    el7.click() #點擊label按鈕
    el8 = driver.find_element(by=AppiumBy.XPATH, value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.TextView")
    el8.click() #選紅色label
    el9 = driver.find_element(by=AppiumBy.XPATH, value="//android.view.View[@content-desc=\"checkmark_alt\"]/android.widget.TextView")
    el9.click() #打勾
    el_check_photo = driver.find_element(by=AppiumBy.XPATH, value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.TextView")
    pho_val = el_check_photo.get_attribute('text')
    el_check_text = driver.find_element(by=AppiumBy.XPATH, value="/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.TextView")
    text = el_check_text.get_attribute('text')
    assert pho_val != ''
    assert text != ''
```

Testing Tools



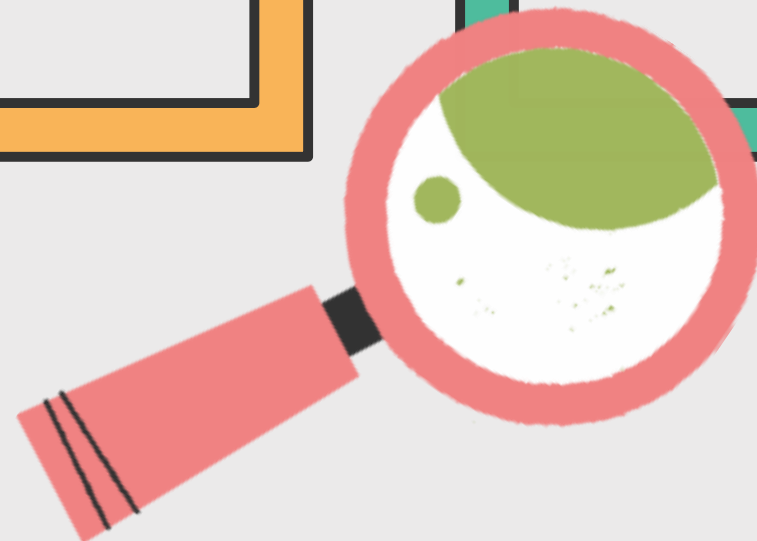
appium



pytest



Robot Framework



Live Demo Clips



#受限於硬體效能僅能以此方式錄影！



Pass / Fail Recommendation

```
testing.py::test_DontSaveCreateNote
testing.py::test_CancleCreateNote
testing.py::test_SelectPhotoAddTimeAddTextCreateNote
testing.py::test_DeleteNote
testing.py::test_SelectPhotoCreateNote
testing.py::test_AddTimeCreateNote
testing.py::test_AddLabelCreateNote
c:\users\t1075\appdata\local\programs\python\python37\lib\site-packages\appium\webdriver\webdriver.py:240: DeprecationWarning: desired_capabilities has been deprecated, please pass in an Options object with options kwarg
options=options,

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 8 passed, 8 warnings in 299.18s (0:04:59) =====
```

```
testing.py::test_StroyLanguageOnly
testing.py::test_StroyLanguageNotOnly
c:\users\t1075\appdata\local\programs\python\python37\lib\site-packages\appium\webdriver\webdriver.py:240: DeprecationWarning
: desired_capabilities has been deprecated, please pass in an Options object with options kwarg
options=options,

testing.py::test_StroyLanguageOnly
testing.py::test_StroyLanguageNotOnly
c:\users\t1075\appdata\local\programs\python\python37\lib\site-packages\appium\webdriver\common\touch_action.py:45: Deprecati
onWarning: [Deprecated] 'TouchAction' action is deprecated. Please use W3C actions instead.
"[Deprecated] 'TouchAction' action is deprecated. Please use W3C actions instead.", DeprecationWarning

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 2 passed, 4 warnings in 58.08s =====
```

```
testing.py::test_StroyCopy
testing.py::test_StroySave
c:\users\t1075\appdata\local\programs\python\python37\lib\site-packages\appium\webdriver\common\touch_action.py:45: Deprecati
onWarning: [Deprecated] 'TouchAction' action is deprecated. Please use W3C actions instead.
"[Deprecated] 'TouchAction' action is deprecated. Please use W3C actions instead.", DeprecationWarning

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 2 passed, 4 warnings in 86.96s (0:01:26) =====
```

```
testing.py::test_settingSkinAndSize
testing.py::test_settingSkin
testing.py::test_settingSize
c:\users\t1075\appdata\local\programs\python\python37\lib\site-packages\appium\webdriver\webdriver.py:240: DeprecationWarning
: desired_capabilities has been deprecated, please pass in an Options object with options kwarg
options=options,

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 5 passed, 5 warnings in 142.44s (0:02:22) =====
```

```
===== warnings summary =====
testing.py::test_ShowImageByTag
testing.py::test_SetFirstDayOfWeek
c:\users\t1075\appdata\local\programs\python\python37\lib\site-packages\appium\webdriver\webdriver.py:240: DeprecationWarning
: desired_capabilities has been deprecated, please pass in an Options object with options kwarg
options=options,

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 2 passed, 2 warnings in 50.80s =====
```

```
===== warnings summary =====
testing.py::test_NewToOld
testing.py::test_UpdateNote
testing.py::test_ChangeLabelCreateNote
c:\users\t1075\appdata\local\programs\python\python37\lib\site-packages\appium\webdriver\webdriver.py:240: DeprecationWarning
: desired_capabilities has been deprecated, please pass in an Options object with options kwarg
options=options,

-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
===== 3 passed, 3 warnings in 69.72s (0:01:09) =====
```

Pass / Fail Recommendation

Tests Report

Generated
20230620 10:21:31 UTC+08:00
31 seconds ago

Summary Information

Status:	All tests passed
Start Time:	20230620 10:19:11.608
End Time:	20230620 10:21:30.841
Elapsed Time:	00:02:19.233
Log File:	log.html

Test Statistics

Total Statistics	Total	Pass	Fail	Skip	Elapsed	Pass / Fail / Skip
All Tests	3	3	0	0	00:02:19	<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
Tests	3	3	0	0	00:02:19	<div></div>
Tests . Testnote	3	3	0	0	00:02:19	<div></div>

Test Details

LOG

All	Tags	Suites	Search
Status: 3 tests total, 3 passed, 0 failed, 0 skipped			
Total Time: 00:02:19.007			

Name	Documentation	Tags	Status	Message	Elapsed	Start / End
Tests . Testnote . test_CancleCreateNote			PASS		00:00:49.281	20230620 10:20:41.533 20230620 10:21:30.814
Tests . Testnote . test_CreateNote			PASS		00:00:47.089	20230620 10:19:11.798 20230620 10:19:58.887
Tests . Testnote . test_DontSaveCreateNote			PASS		00:00:42.637	20230620 10:19:58.894 20230620 10:20:41.531

Responsibilities



蘇柏瑋	20%
童柏鈞	20%
曹慶宥	20%
林家同	20%
許哲維	20%

THANKS!

