**Software Testing and Verification**

**Software Test Plan**

**My Diary**

|  |  |  |
| --- | --- | --- |
| Name | ID | E-mail |
| 鍾承翰 | 106598024 | cmf15bsw@gmail.com |
| 李柏霖 | 106598038 | morris12345678987654321@gmail.com |
| 楊子冊 | 106598054 | tzutse.yang@gmail.com |
| 吳彥銘 | 106598060 | 40143109wu@gmail.com |

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1. **Test Plan Identifier**

本計畫將測試Google Play 上的Android App：My Diary

1. **Introduction and References**
   1. **Introduction**

撰寫自動化測試腳本，測試My diary主要的基本功能，並產生測試結果報表，以評估My diary基本功能是否正常運作。

* 1. **References**

Android application : [My diary](https://play.google.com/store/apps/details?id=com.kiminonawa.mydiary)

1. **Test Items**

This project is just trying to create the app - "My Diary" in "your name." on Android.

1. **Features to Be Tested**

|  |  |
| --- | --- |
| Feature to Test | Test Description |
| CRUD for topics | 分別測試三種主題(聯絡人、備忘錄、日記)的基本操作：Create, Read, Update and Delete。 |
| CRUD for contact | 測試聯絡人的基本操作：Create, Read, Update and Delete。 |
| CRUD for memo | 測試備忘錄的基本操作：Create, Read, Update and Delete。 |
| CRUD for diary | 測試日記的基本操作：Create, Read, Update and Delete。 |
| Clear the content | 測試能否清除已填日記內容。 |
| Modify the user name | 測試能否修改使用者名稱。 |
| Set the security lock | 測試該App的應用程式鎖。 |
| Remove the security lock | 測試能否移除該App的應用程式鎖。 |
| Import the file | 測試能否匯入檔案。 |
| Export the file | 測試能否匯出檔案。 |
| Present calendar | 測試點選日期時能否出現相對應的日曆。 |

1. **Features Not to Be Tested**

|  |  |  |
| --- | --- | --- |
| Feature not to Test | Test Description | Reason |
| Add location in diary | 測試該行動裝置位置是否正確。 | 無法確認定位功能是否正確。 |
| Basis theme | 測試該App的變更主題顏色功能是否正常。 | 無法確認顏色是否變更為選擇的顏色。 |
| Take photo in diary | 測試拍照功能是否正常。 | 無法確認顯示圖片與拍照圖片一致。 |
| Add photo in diary | 測試載入圖片功能是否正常。 | 無法確認載入圖片與顯示圖片一致。 |

1. **Test Approach**
   1. **Test Tool**
2. Appium 1.6.4
3. Robot Framework with python 3.6
4. AppiumLibrary 1.3.2
5. UIAutomator 3.0.0
   1. **Test Criteria**

需測試所有測試情境。

1. **Item Pass/Fail Criteria**

將Bug分成四個層次：

1. Critical: Error that make the program can't run.
2. High: Important functional can be completed, but bad output when good data is input.
3. Medium: Important functional can be completed and good output when good data is input, but bad output when bad data is input.
4. Low: Function is working, but there is some little bit problem UI problem, like wrong color, wrong text font.

測試通過條件：Critical & High bug 0個，不限制其他次要bug數量。

1. **Test Deliverables**
2. Test plan specification
3. Test design specification
4. Test case specification
5. Test script
6. Test result
7. **Testing Tasks**
8. 準備測試計畫書
9. 準備測試環境
10. 設計測試案例
11. 設計自動化測試腳本
12. 執行測試和評估測試結果
13. 撰寫測試結果報告
14. **Environment Needs**

|  |  |
| --- | --- |
| System | Windows 10 |
| JDK7 |
| Maven project(Test script) | Robot Framework : python的v 3.6 |
| Appium v1.6.4 |
| Device | Android (7.0, 6.0, 5.0) |
| Test Server | Appium v1.6.4 |

1. **Role and Responsibilities**

|  |  |
| --- | --- |
| Job | Team Members |
| 文件撰寫 | 鍾承翰、李柏霖、楊子冊、吳彥銘 |
| 測試案例設計 | 鍾承翰、李柏霖、楊子冊、吳彥銘 |
| 測試腳本撰寫 | 鍾承翰、李柏霖、楊子冊、吳彥銘 |

1. **Staffing and Training**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Time | Event | Team Members |
| 2018/5/1 | 17:00 - 18:30 | To familiar with "My diary" | 鍾承翰、李柏霖、楊子冊、吳彥銘 |
| 2018/5/5 | 13:50 - 15:00 | Robot Framework | 鍾承翰、李柏霖、楊子冊、吳彥銘 |

1. **Schedule and Milestones**

|  |  |
| --- | --- |
| Date | Description |
| 2018/5/5 | Software Test Plan |
| 2018/5/5 | TCS,TDS |
| 2018/5/8、9 | midterm presentation |

1. **Risks and contingencies**

**None.**

1. **Approvals**

|  |  |  |
| --- | --- | --- |
| Team Members | Date | Hours |
| 鍾承翰、李柏霖、楊子冊、吳彥銘 | 2018/5/1 | 2.5 hr |
| 鍾承翰、李柏霖、楊子冊、吳彥銘 | 2018/5/5 | 6 hr |