G51FSE Assessed Lab 4

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| **The Assemblers with Flip-Flops** |  | 09/03/2018 |

# 3. Test Plans

This section of the software specification document highlights the details of the system through the use of Unified Modelling Language and prototypes.

We have added some additional columns to the bug table. These are notes and a description for the changes are given in this paragrah.We have decided to have additional columns in the test table so we can provide more detail about the tests carried out. This will increase the traceability of the tests and make the changes easier to see. Firstly, we added **a Test ID** so that we can have a unique id for each test carried out. This will make it easier to refer back to the tests later on in the document. In addition to this, we added a column for prerequisite which will store detail about what other functions need to be performed before this test is carried out. Next, we included a column for the **actual output**. This is necessary so that we can compare if the expected output matches the actual output. If it doesn’t, a reason must be provided as to why and most likely there is an error/flow in the program. In addition to this, we added a column called ‘**test created by’**. This will hold the name of the person who created the tests and carried it out. This will increase accountability. Next, we added a column called ‘**pass or fail’**. This will make it easier to see the number of tests that has passed without the person having to read the details of each individual test. We then created a column which will store the **date** that the test has been carried out on. This will make it easier to see which version of a test is the latest if a test had been carried out multiple times. Finally, we added a column for **notes** which can be used to store additional details about the tests that does not fall into any other category. For example, if a test has failed, the notes could include a description as to why the test has failed.

Project Class

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| Test ID | Function Name | Test Aim | Pre-Requisites | Inputs | Expected Output(s) | Actual Output | Test Created By | Source: Spec or code inspection | Pass / Fail | Date (Completed by) | Notes |
| 201 | CompanyProject | Checks if default constructor sets up correctly with array lists initialised | New Project Object | N/A | 1 (Int)  1 (Int) “New Project” (String)  True (Boolean)  0 (Int)  0 (Int) | 1 (Int)  1 (Int) “New Project” (String)  True (Boolean)  1 (Int)  1 (Int) | Justin Ng | Specification Document – Class Document | FAIL | 27.04.2018 |  |
| 202 | CompanyProject | Checks if main constructor sets up correctly with title passed as a parameter | New Project Object | N/A | 2 (Int)  2 (Int) “New Project” (String)  True (Boolean)  0 (Int)  0 (Int) | 2 (Int)  2 (Int) “TestOneTitle” (String)  True (Boolean)  1 (Int)  1 (Int) | Justin Ng | Specification Document – Class Document | FAIL | 30.04.2018 |  |
| 203.1 | getPID | Checks if the correct project ID is returned when a project is 1st created | New Project Object | N/A | 1 (Int) | 1 (Int) | Justin Ng | Specification Document – Class Document | PASS | 25.04.2018 |  |
| 203.2 | getPID | Checks if the project ID increments correctly with the addition of a new project | New Project Object(s) | N/A | 3 (Int) | 3 (Int) | Justin Ng | Specification Document – Class Document | PASS | 27.04.2018 |  |
| 204 | getPTitle | Checks if the correct project Title is returned when a project is 1st created | New Project Object | N/A | “New Project” (String) | “New Project” (String) | Justin Ng | Specification Document – Class Document | PASS | 25.04.2018 |  |
| 205.1 | setPTitle | Checks if it is possible to set a project title which is less than 10 characters long | New Project Object | “12345678” (String) | “New Project” (String) | “New Project” (String) | Justin Ng | Specification Document – Class Document | PASS | 25.04.2018 |  |
| 205.2 | setPTitle | Checks if it is possible to set a project title which is more than 10 characters long | New Project Object | “123456789000” (String) | “123456789000” (String) | “123456789000” (String) | Justin Ng | Specification Document – Class Document | PASS | 25.04.2018 |  |
| 206.1 | isContact | Checks if specified contact exists in project | New Project Object | “test@gmail.com" (String) | False (Boolean) | False (Boolean) | Justin Ng | Specification Document – Class Document | PASS | 25.04.2018 |  |
| 206.2 | isContact | Should add new contact then check if it can be read back | New Project Object | “test@gmail.com" (String) | True (Boolean) | True (Boolean) | Justin Ng | Specification Document – Class Document | PASS | 25.04.2018 |  |
| 207 | addContact | Should be able to add two new contacts and use isContact to check if they exist in the Array List | New Project Object | “raiu9s@gmail.com" (String) & “q39ikdft@outlook.com” (String) | True (Boolean) & True (Boolean) | True (Boolean) & True (Boolean) | Justin Ng | Specification Document – Class Document | PASS | 25.04.2018 |  |

Change Log

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Change ID | GIT Commit ID | Bug ID | Description of Change | Files Changed | Date Received | Date Changed | Initiator By (Who Changed) | Change Checked By | Notes |
|  |  |  |  |  |  |  |  |  |  |
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Bug Fix List

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| **Problem ID** | **Problem Description** | **Line of code** | **Test ID (if created)** | **Change ID** | **Proposed Fix** | **Priority**  **High, Med, Low** | **Date Problem identified** | **Fixed? (Yes/No)** | **Date Problem fixed** | **Who identified/fixed the test?** | **Does the bugged code relate to other functions?** | **Notes** |
| **1** | Limit of 7 emails in the new ArrayList object. This seems like a small amount for a project that will likely have a lot of back and forth communication. | CompanyProject, 8 |  |  | Increase the value to something more feasible | Med | 09/03 |  |  | Christian(Identified) |  |  |
| **2** | No error thrown if email invalid in Company Project Class | CompanyProject, 58 |  |  | Return an error if email is invalid | Low | 09/03 |  |  | Justin (Identified) |  | Print error message necessary? |
| **4** | No validation on validity of project title - should be minimum of 10 chars | CompanyEmailsystem, 110 |  |  | Return an error if the title is not valid | Med | 09/03 |  |  | Christian |  |  |
| **7** |  |  |  |  |  |  |  |  |  |  |  |  |