Test Plan & Results Document

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# Introduction

*Provide an introduction to testing at a high level. You must discuss briefly:*

* *What the testing will cover*
* *What is/are the most important / crucial component(s) to test*
* *Mention testing goals and criteria your team has set* 
  + *(e.g.) what proportion of the tests need to be successful before the test stage is considered complete.*

# Types & Approaches of Testing

*Describe what kinds of tests in appropriate sections. E.g. unit testing, integration testing, etc. , and why.*

*Also list out the time planned for testing.*

*Describe team member responsibilities for testing.*

# Test Plan

*In this section, you are to:*

* *list the functional requirements which you will be testing against (ex. those identified using user stories).*
* *describe the tests and test data you will be using for unit tests and why this selection of tests and test data ensures unit testing will be complete for each function*
* *describe the tests you will be using for system testing (ex. integration, stress, acceptance testing etc.) and why these are necessary*
* *link each of these tests against a functional requirement if possible, if not possible suggest the benefit gained for the user or system by this test*
* *for each of these you should list when and or how often the test should be run*

# Test Cases and Results

*This section will list out all the test cases and results. We have provided an example of how this could look like below.*

*{*

*Example:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Test Case:* | *Test invalid postal code* | | | |
| *Description:* | *This test case tests to check that the form rejects invalid postal codes as defined* | | | |
| *Step* | *Description* | *Expected Result* | *Pass/Fail* | *Remarks* |
| *1* | *Start the application by clicking on the green flag* | *The application initializes with a blank screen and prompts the user with a question "Please enter the postal code" and waits for an input* | *Pass* |  |
| *2* | *Type in the test data based on test data set B1* | *The application should show the text being typed in the input box as the user is typing* | *Pass* |  |
| *3* | *Click the blue tick, or hit enter* | *The application should show an error stating that "The input was invalid"* | *Pass* |  |
|  |  |  |  |  |
| *Test Data Set B1* | |  |  |  |
| *1* | *"" - blank input* |  | *Pass* |  |
| *2* | *" " - single space* |  | *Pass* |  |
| *3* | *999* |  | *Pass* |  |
| *4* | *10000* |  | *Pass* |  |
| *5* | *1* |  | *Pass* |  |
| *6* | *-1* |  | *Pass* |  |
| *7* | *abcd* |  | *Pass* |  |
| *8* | *@$* |  | *Pass* |  |

*Source: Tian Goh and Peter O’Donnell, FIT1040 S1 2014, test case and test data revision guide*

*Note that:*

* *There should be separate test cases for each test data set;* 
  + *for the purpose of this unit it is acceptable to have a test data set to go with any test case, provided the* ***expected output is the same*** *and it’s* ***clear what each item of test data is testing for****.*

*}*

# Conclusion

*You should also provide a conclusion, summarizing:*

* *have your testing goals/criteria been met?*
* *talk about some key results from your tests*
* *argue for when further testing may be necessary*