Defendr Testing Policy

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1 Testing mission

To provide a testing methodology to effectively error free software product within the given time and cost constraint that fulfills the specified requirements as well as provide quality risk management information.

2 Test phases

Phase	Owner	Objective	Key areas of testing
Unit	Development	• Detect errors in units • Reduce risk of unit failures during run time	• Functionality • Recourse utilisation
Integration	Development	• Detect defects in unit interfaces • Reduce risk data-flow failures	• Functionality • Performance • Interoperability • Compatibility
Acceptance	Software client (Advance)	• Ensures business criteria are met • Demonstrates that system works as intended in real world environment. • Detects problems and risks in user workflows.	• Pre-agreed acceptance criteria • Functionality in context of normal usage

Figure 1: Testing phases

The use of the various test phases (also known as levels) is to promote the mitigation of quality risk as soon as possible and to the highest possible extent. The table above describes the various test phases.

3 Evaluation of testing

We will evaluate the quality and efficiency of our testing at each stage in development life cycle including the transition to the live product. Testing will be measured in various methods including the monitoring of the live system as well as the quality of the system at each stage as well as formal and informal reviews of our current testing strategy at our weakly team meetings.

4 Approach to testing improvement

We will constantly be reviewing the effectiveness and quality of our testing as it will directly contribute to the quality of the software system. We will then improve on our current methods as we explore new avenues and discover new and better ways of doing things.

5 Testing technology

At this stage we are using custom built unit tests in python

6 Testing process

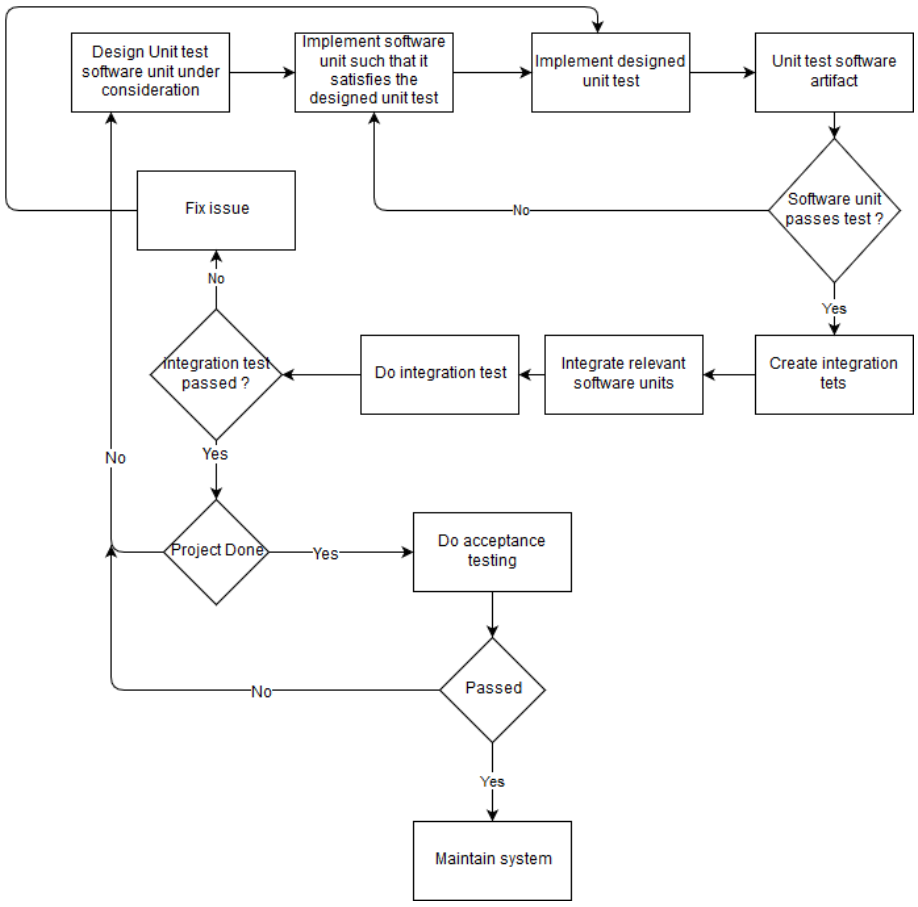

Figure 2: Testing process