***Process Name: Test driven development (Junit perspective)***

Purpose: To design write and Designing writing, executing test before writing any code.

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| **Entry Criteria**  1.Reviewd/Approved Product Backlog( I1) | **Controls**   1. Black Box Test techniques (T1) 2. Test Design Template (T1) 3. WB Test Techniques | **Exit Criteria**   1. Product code fully tested. 2. Test Coverage has-been achieved |
| **Inputs**   1. (Prioritize) User story/ Acc Criteria(T1) | **Tasks**   1. **Design Black-Box tests( I1)** 2. **Design/Write Product Skeleton (I1 , O1)** 3. **Design/Write Test Code (O2, O1)** 4. **Test Coverage** 5. **Execute Tests to fail against skeleton(O2)** 6. **Write Product Code ( Method )** 7. **Re exceute test against product code (T5)** 8. **If all test pass then finished else repeat steps 5 & 6 until all test pass (T5)** 9. **Design White-Box Tests** 10. **Test Coverage** 11. **Execute WB Tests against BB Tested Product Code** 12. **If all test pass then finished else repeat steps 8 & 9 until all test pass** | **Outputs**   1. List of designed tests (T1) 2. Product Skeleton (T2) 3. Failed Tests Report (T4) 4. Initial Product code produc éd (T5) 5. Test Report (T6, T7 ) 6. Tested Product Code (T6, T7) 7. List of designed white box tests ( T8) |
| **Metrics**   1. **Test Coverage (BB / WB)** 2. **Number of Tests Designed** 3. **Time** | **Roles**   1. **Software developer (T1-T7)** | **Issues** |