**TSPi Quality Plan: Form SUMQ**

Name **基于android家谱树的设计与实现** Date  **2016/05/18**

Team  **Team 8**  Instructor  **张笑燕**

Part/Level  Cycle  **1**

|  |  |  |
| --- | --- | --- |
| **Summary Rates** | **Plan** | **Actual** |
| LOC/hour | 50.00 | 53.33 |
| % Reuse (% of total LOC) | 15.38 | 9.38 |
| % New Reuse (% of N&C LOC) | 24.00 | 19.81 |
| **Percent Defect-Free (PDF)** |  |  |
| In compile | 100% | 93.33% |
| In unit test | 100% | 86.66% |
| In build and integration | 100% | 85.71% |
| In system test | 95% | 90.00% |
| **Defect/page** |  |  |
| Requirements inspection | 0.67 | 0.53 |
| HLD inspection | 0.55 | 0.09 |
| **Defects/KLOC** |  |  |
| Code review | 1.50 | 2.19 |
| Compile | 1.00 | 1.56 |
| Code inspection | 0.25 | 0.63 |
| Unit test | 0.25 | 0.31 |
| Build and integration | 0.00 | 0.00 |
| System test | 0.50 | 0.63 |
| Total development | 10.75 | 15.63 |
| **Defects Ratios** |  |  |
| Code review/Compile | 1.50 | 1.40 |
| **Development time ratios (%)** |  |  |
| Requirements inspection/Requirements | 13.33 | 21.05 |
| HLD inspection/HLD | 20.00 | 38.89 |
| DLD/code | 40 | 43.33 |
| Code review/code | 10.00 | 3.33 |
| **A/FR** | 1.15 | 0.33 |
| **Review rates** |  |  |
| Code LOC/hour | 80 | 53.33 |
| **Defect-injection Rates (Defects/Hr.)** |  |  |
| Requirements | 0.27 | 0.21 |
| HLD | 0.25 | 0.50 |
| DLD | 0.15 | 0.12 |
| Code | 0.20 | 0.23 |
| Compile | 0 | 0 |
| Unit test | 0 | 0 |
| Build and integration | 0.67 | 0.33 |
| System test | 0 | 0 |
| **Defect-removal Rates (Defects/Hr.)** |  |  |
| Requirements inspection | 5.00 | 2.50 |
| HLD inspection | 2.75 | 1.71 |
| DLD inspection | 1.00 | 1.20 |
| Code review | 1.20 | 3.50 |
| Compile | 0.80 | 0.50 |
| Code inspection | 0.10 | 0.50 |
| Unit test | 0.33 | 0.33 |
| Build and integration | 0 | 0 |
| System test | 0.40 | 0.40 |
| **Phase Yields** |  |  |
| Requirements inspection | 90.91 | 100 |
| HLD inspection | 91.67 | 70.59 |
| Code review | 60.00 | 50.00 |
| Compile | 40.00 | 35.71 |
| Code inspection | 10.00 | 14.29 |
| Unit test | 10.00 | 7.14 |
| Build and integration | 20.00 | 7.14 |
| System test | 16.67 | 13.33 |
| **Process Yields** |  |  |
| % before compile | 85.37 | 81.63 |
| % before unit test | 95.12 | 91.84 |
| % before build and integration | 100.00 | 97.96 |
| % before system test | 95.35 | 96.00 |
| % before system delivery | 100.00 | 100.00 |