**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 | 30 |
| % Reuse (% of total LOC) | 0 | 0 |
| % New Reuse (% of N&C LOC) | 0 | 0 |
| **Percent Defect-Free (PDF)** |  |  |
| In compile | 100% | 93.33% |
| In unit test | 100% | 86.66% |
| In build and integration | 100% |  |
| In system test | 95% |  |
| **Defect/page** |  |  |
| Requirements inspection | 1 | 0.5 |
| HLD inspection | 2 | 1 |
| **Defects/KLOC** |  |  |
| Code review | 15 | 12 |
| Compile | 5 | 3 |
| Code inspection | 10 | 12 |
| Unit test | 0 | 2 |
| Build and integration | 8 |  |
| System test | 7 |  |
| Total development | 35 | 26 |
| **Defects Ratios** |  |  |
| Code review/Compile | 3 | 4 |
| **Development time ratios (%)** |  |  |
| Requirements inspection/Requirements | 30% | 25% |
| HLD inspection/HLD | 60% | 55% |
| DLD/code | 100% | 100% |
| Code review/code | 60% | 60% |
| **A/FR** | 1 |  |
| **Review rates** |  |  |
| Code LOC/hour | 150 | 130 |
| **Defect-injection Rates (Defects/Hr.)** |  |  |
| Requirements | 4 | 5 |
| HLD | 4 | 2 |
| DLD | - | - |
| Code | 4 | 3 |
| Compile | 1 | 0 |
| Unit test | 1 | 1 |
| Build and integration | 1 |  |
| System test | 2 |  |
| **Defect-removal Rates (Defects/Hr.)** |  |  |
| Requirements inspection | 4 | 3 |
| HLD inspection | 4 | 2 |
| DLD inspection | - | - |
| Code review | 4 | 4 |
| Compile | 1 | 0 |
| Code inspection | 1 | 1 |
| Unit test | 1 | 1 |
| Build and integration | 1 |  |
| System test | 1 |  |
| **Phase Yields** |  |  |
| Requirements inspection | 75% | 80% |
| HLD inspection | 80% | 100% |
| Code review | 90% | 95% |
| Compile | 90% | 90% |
| Code inspection | 90% | 90% |
| Unit test | 92% | 90% |
| Build and integration | 93% |  |
| System test | 95% |  |
| **Process Yields** |  |  |
| % before compile | 76.19% | 90% |
| % before unit test | 85.71% | 90.91% |
| % before build and integration | 90.48% |  |
| % before system test | 100% |  |
| % before system delivery | 100% |  |