**TSPi Strategy Form - Form STRAT**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | |  | | | Date | | | | 2/4/12 | | | |
| Team | | That “One” Team | | | Instructor | | | | Dr. Garfield | | | |
| Part/Level | |  | | | Cycle | | | | 1 | | | |
|  | |  | | | | |  | | | |  | | |
|  |  | | **Cycle LOC** | | | | | **Cycle Hours** | | | | |
| **Ref.** | **Functions** | | **1** | **2** | | **3** | | **1** | | **2** | | **3** |
| 1 | Display given route information | |  |  | |  | |  | |  | |  |
| 1.1 | Select starting airport | | 50 |  | |  | | 5 | |  | |  |
| 1.2 | Select ending airport | | 50 |  | |  | | 5 | |  | |  |
| 1.3 | Display in GUI | | 50 |  | |  | | 5 | |  | |  |
|  |  | |  |  | |  | |  | |  | |  |
| 2 | Functional Needs | |  |  | |  | |  | |  | |  |
| 2.1 | Initialize ARP for particular | |  |  | |  | |  | |  | |  |
| 2.2 | Cancel all routes | |  |  | |  | |  | |  | |  |
| 2.3 | Open for particular | |  |  | |  | |  | |  | |  |
| 2.4 | Add route to ARP | |  |  | |  | |  | |  | |  |
| 2.5 | Output path that takes least air time | |  |  | |  | |  | |  | |  |
| 2.5.1 | Total travel time (inc. layovers) | |  |  | |  | |  | |  | |  |
| 2.5.2 | Cost | |  |  | |  | |  | |  | |  |
| 2.6 | Output path that costs least | |  |  | |  | |  | |  | |  |
| 2.6.1 | Total travel time | |  |  | |  | |  | |  | |  |
| 2.6.2 | Cost | |  |  | |  | |  | |  | |  |
| 2.7 | Output paths that use airlines most | |  |  | |  | |  | |  | |  |
| 2.7.1 | Total travel time | |  |  | |  | |  | |  | |  |
| 2.7.2 | Cost | |  |  | |  | |  | |  | |  |
| 2.8 | Output list in network | |  |  | |  | |  | |  | |  |
| 2.9 | Output a list that can be revealed from current | | 30 |  | |  | |  | |  | |  |
| 2.10 | Output a list of lines service given a.p. | | 40 |  | |  | |  | |  | |  |
| 2.11 | Output air route info for all routes | | 40 |  | |  | |  | |  | |  |
| 2.12 | Air route info servicing a given airport | |  |  | |  | |  | |  | |  |
| 2.13 | Air route info for a given route | |  |  | |  | |  | |  | |  |
| 2.14 | Appropriate user interface | |  |  | |  | |  | |  | |  |
|  |  | |  |  | |  | |  | |  | |  |
| 3.1 | Good exception handling. No crashes | |  |  | |  | |  | |  | |  |
| 3.2 | Development using TSP | |  |  | |  | |  | |  | |  |
| 3.3 | Reference Manual | |  |  | |  | |  | |  | |  |
| 3.4 | Standard language | |  |  | |  | |  | |  | |  |
| 3.5 | Portable | |  |  | |  | |  | |  | |  |
| 3.6 | Easy to maintain | |  |  | |  | |  | |  | |  |
|  |  | |  |  | |  | |  | |  | |  |
|  |  | |  |  | |  | |  | |  | |  |
| **Totals** |  | | 260 |  | |  | | 15 | |  | |  |

**TSPi Issue Tracking Log - Form ITL**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | | | |  | | | | | | | Date | | | |  | | |
| Team | | | |  | | | | | | | Instructor | | | |  | | |
| Part/Level | | | |  | | | | | | | Cycle | | | |  | | |
|  | | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
| 3/10 |  | R | | |  | 1 |  | M |  |  | |  |  |  | |  |
| Description: | | | Attendance/Participation: not showing or not communicating we won’t be there | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
| 3/10 |  | I | | |  | 2 |  | H |  | Brian | |  | 3/25 |  | |  |
| Description: | | | Keep files in one location. This will help resolve versioning issues down the road. | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
| 3/10 |  | I | | |  | 3 |  | H |  | Brian | |  | 3/15 |  | |  |
| Description: | | | Add comments. None of our code has any comments whatsoever | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
| 3/10 |  | R | | |  | 4 |  | M |  |  | |  | 3/25 |  | |  |
| Description: | | | Deadlines- we need to start making hard deadlines. This will be crucial as we start to have | | | | | | | | | | | | | |
| modules depend upon other modules. | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
| 3/10 |  | R | | |  | 5 |  | L |  | Craig | |  | 3/15 |  | |  |
| Description: | | | Time has not been documented correctly in the WEEK logs | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
| 3/10 |  | R | | |  | 6 |  | M |  | Brittany | |  | 3/27 |  | |  |
| Description: | | | Design document is quite out of date with all the changes that have been made | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
|  |  |  | | |  |  |  |  |  |  | |  |  |  | |  |
| Description: | | |  | | | | | | | | | | | | | |
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| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
|  |  |  | | |  |  |  |  |  |  | |  |  |  | |  |
| Description: | | |  | | | | | | | | | | | | | |
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|  | | | | | | | | | | | | | | | | |
| Date |  | Risk/Issue | | |  | Number |  | Priority |  | Owner | |  | FU Date |  | | Resolved |
|  |  |  | | |  |  |  |  |  |  | |  |  |  | |  |
| Description: | | |  | | | | | | | | | | | | | |
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**TSPi Plan Summary - Form SUMP**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | Muraad Khan | | | Date | | | | | | Feb 6th | |
| Team | That One Team | | | Instructor | | | | | | Dr. Garfield | |
| Part/Level |  | | | Cycle | | | | | | 1 | |
| **Product Size** | | | **Plan** | | | |  | **Actual** | | | |
| Requirements pages (SRS) | | | 12 | | | |  | 7 | | | |
| Other text pages | | | 10 | | | |  | 24 | | | |
| High-level design pages (SDS) | | | 15 | | | |  | 8 | | | |
| Detailed design lines | | | 200 | | | |  | 32 | | | |
| Base LOC (B) (measured) | | |  | | | |  |  | | | |
| Deleted LOC (D) | | |  | | | |  |  | | | |
|  | | | (Estimated) | | | |  | (Counted) | | | |
| Modified LOC (M) | | |  | | | |  |  | | | |
|  | | | (Estimated) | | | |  | (Counted) | | | |
| Added LOC (A) | | | 500 | | | |  | 140 | | | |
|  | | | (N-M) | | | |  | (T-B+D-R) | | | |
| Reused LOC (R) | | |  | | | |  |  | | | |
|  | | | (Estimated) | | | |  | (Counted) | | | |
| Total New & Changed LOC (N) | | | 500 | | | |  | 140 | | | |
|  | | | (Estimated) | | | |  | (A+M) | | | |
| Total LOC (T) | | | 500 | | | |  | 140 | | | |
|  | | | (N+B-M-D+R) | | | |  | (Measured) | | | |
| Total New Reuse LOC | | |  | | | |  |  | | | |
| Estimated Object LOC (E) | | |  | | | |  |  | | | |
| Upper Prediction Interval (70%) | | |  | | | |  |  | | | |
| Lower Prediction Interval (70%) | | |  | | | |  |  | | | |
| **Time in Phase (hours)** | | **Plan** | | |  | **Actual** | | |  | | **Actual %** |
| Management and miscellaneous | | 100 | | |  | 12 | | |  | | 12% |
| Launch and strategy | | 10 | | |  | 5 | | |  | | 50% |
| Planning | | 40 | | |  | 10 | | |  | | 25% |
| Requirements | | 30 | | |  | 5 | | |  | | 16.6% |
| System test plan | |  | | |  |  | | |  | |  |
| Requirements inspection | | 6 | | |  | 1 | | |  | | 16.6% |
| High-level design | | 15 | | |  | 3 | | |  | | 20% |
| Integration test plan | | 4 | | |  |  | | |  | |  |
| High-level design inspection | | 8 | | |  | 1 | | |  | | 12.5% |
| Implementation planning | |  | | |  |  | | |  | |  |
| Detailed design | | 20 | | |  | 2 | | |  | | 10% |
| Detailed design review | | 5 | | |  | 1 | | |  | | 20% |
| Test development | | 2 | | |  |  | | |  | |  |
| Detailed design inspection | | 20 | | |  | 1 | | |  | | 5% |
| Code | | 20 | | |  |  | | |  | |  |
| Code review | | 5 | | |  |  | | |  | |  |
| Compile | | 1 | | |  |  | | |  | |  |
| Code inspection | | 1 | | |  |  | | |  | |  |
| Unit test | | 2 | | |  |  | | |  | |  |
| Build and integration | | 4 | | |  |  | | |  | |  |
| System test | | 3 | | |  |  | | |  | |  |
| Documentation | | 10 | | |  |  | | |  | |  |
| Postmortem | | 10 | | |  |  | | |  | |  |
| Total | | 316 | | |  |  | | |  | |  |
| Total Time UPI (70%) | |  | | |  |  | | |  | |  |
| Total Time LPI (70%) | |  | | |  |  | | |  | |  |

**TSPi Plan Summary - Form SUMP (continued)**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Muraad Khan | Date | Feb 6th ‘13 |
| Team | That One Team | Instructor | Dr. Garfield |
| Part/Level |  | Cycle | 1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Defects Injected** | **Plan** |  | **Actual** |  | **Actual %** |
| Strategy and Planning |  |  |  |  |  |
| Requirements | 8 |  |  |  |  |
| System test plan |  |  |  |  |  |
| Requirements inspection |  |  |  |  |  |
| High-level design | 5 |  |  |  |  |
| Integration test plan |  |  |  |  |  |
| High-level design inspection |  |  |  |  |  |
| Detailed design | 20 |  |  |  |  |
| Detailed design review |  |  |  |  |  |
| Test development |  |  |  |  |  |
| Detailed design inspection |  |  |  |  |  |
| Code | 30 |  |  |  |  |
| Code review |  |  |  |  |  |
| Compile | 5 |  |  |  |  |
| Code inspection |  |  |  |  |  |
| Unit Test |  |  |  |  |  |
| Build and integration |  |  |  |  |  |
| System test |  |  |  |  |  |
| Total Development | 68 |  |  |  |  |
| **Defects Removed** | **Plan** |  | **Actual** |  | **Actual %** |
| Strategy and Planning |  |  |  |  |  |
| Requirements |  |  |  |  |  |
| System test plan |  |  |  |  |  |
| Requirements inspection | 8 |  |  |  |  |
| High-level design |  |  |  |  |  |
| Integration test plan |  |  |  |  |  |
| High-level design inspection | 5 |  |  |  |  |
| Detailed design |  |  |  |  |  |
| Detailed design review | 20 |  |  |  |  |
| Test development |  |  |  |  |  |
| Detailed design inspection |  |  |  |  |  |
| Code |  |  |  |  |  |
| Code review | 30 |  |  |  |  |
| Compile | 5 |  |  |  |  |
| Code inspection |  |  |  |  |  |
| Unit Test |  |  |  |  |  |
| Build and integration |  |  |  |  |  |
| System test |  |  |  |  |  |
| Total Development | 68 |  |  |  |  |

**TSPi Schedule Planning Template - Form SCHEDULE**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | |  | | | | | Date | | | 2/10/13 | |
| Team | | That One Team | | | | | Instructor | | | Garfield | |
| Part/Level | |  | | | | | Cycle | | | 1 | |
|  | | | | | | | | | | | |
|  |  | | **Plan** | | | **Actual** | | | | | |
| **Week**  **No.** | **Date** | | **Direct**  **Hours** | **Cumulative**  **Hours** | **Cumulative**  **Planned**  **Value** | **Team**  **Hours** | | **Cumulative**  **Hours** | **Week**  **Earned Value** | | **Cumulative**  **Earned Value** |
| 0 | 1/28/13 | | 10 | 10 | 3.16 |  | |  |  | |  |
| 1 | 2/1/13 | | 25 | 35 | 11.1 |  | |  |  | |  |
| 2 | 2/8/13 | | 25 | 60 | 18.9 |  | |  |  | |  |
| 3 | 2/15/13 | | 35 | 95 | 30.0 |  | |  |  | |  |
| 4 | 2/22/13 | | 35 | 130 | 41.1 |  | |  |  | |  |
| 5 | 3/1/13 | | 30 | 160 | 50.6 |  | |  |  | |  |
| 6 | 3/8/13 | | 25 | 185 | 58.5 |  | |  |  | |  |
| 7 | 3/22/13 | | 45 | 230 | 72.7 |  | |  |  | |  |
| 8 | 3/29/13 | | 45 | 275 | 87.0 |  | |  |  | |  |
| 9 | 4/5/13 | | 20 | 295 | 93.4 |  | |  |  | |  |
| 10 | 4/12/13 | | 21 | 316 | 100 |  | |  |  | |  |
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**TSPi Inspection Report - Form INS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | | The one team | | | | | | | | | | | | Date | | | | | | | 03/12/2013 | | | |
| Team | | The one team | | | | | | | | | | | | Instructor | | | | | | | Dr. Garfield | | | |
| Part/Level | | Quality manager | | | | | | | | | | | | Cycle | | | | | | | 1 | | | |
| Moderator | |  | | | | | | | | | Owner | | | Brian Powell | | | | | | | | | | |
|  | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Engineer Data** | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Name** | | | | | | | **Defects[[1]](#footnote-1)** | | | | | | **Preparation Data** | | | | | | | | | | **Est.** | |
|  | | | | | | | **Major** | | **Minor** | | | | **Size** | | | | **Time** | | | **Rate** | | | **Yield** | |
| Craig Wilkerson | | | | | | | 1 | |  | | | | 218loc | | | | 45mins | | | 10% | | | 15mins | |
| Brian Powell | | | | | | |  | | 2 | | | | 384loc | | | | 65mins | | | 18% | | | 25mins | |
| Brittany Rompa | | | | | | | 1 | |  | | | | 223loc | | | | 55mins | | | 11% | | | 10mins | |
|  | | | | | | |  | |  | | | |  | | | |  | | |  | | |  | |
|  | | | | | | |  | |  | | | |  | | | |  | | |  | | |  | |
| **Totals:** | | | | | | |  | |  | | | |  | | | |  | | |  | | |  | |
|  | | | | | | | | | | | | | | | | | | | | | | | | |
| **Defect Data** | | | |  | | | | | | | | | | | | | | | | | | | | |
| **No** | **Defect Description** | | | | | **Defects** | | | **Engineers (finding major defects)** | | | | | | | | | | | | | | | |
|  |  | | | | | **Maj** | | **Min** | Craig Wilkerson | | | Brian Powell | | | | Brittany Rompa | | |  | | **A** | | | **B** |
| 1 | GUI had a problem in which the coding error was stated to be in the inherent code of the system. Unsure of how to fix such a thing it was abandoned, and a new approach was successful. | | | | | 1 | |  |  | | |  | | | |  | | |  | |  | | | 1 |
| 2 | System cannot find specified file | | | | |  | | 2 |  | | |  | | | |  | | |  | | 1 | | |  |
| 3 | Use of wrong text file name/location | | | | | 1 | |  |  | | |  | | | |  | | |  | |  | | | 1 |
|  |  | | | | |  | |  |  | | |  | | | |  | | |  | |  | | |  |
| **Totals** | | | | | |  | |  |  | | |  | | | |  | | |  | |  | | |  |
| **Unique Defects** | | | | | |  | | |  | | |  | | | |  | | |  | |  | | |  |
|  | |  | | | | | | | | | | | | | | | | | | | | | | |
| **Inspection Summary** | | |  | | **Product Size:** | | | | | 1130 | | | | | **Size Measure:** | | | | | | | LOC | | |
| **Total defects for A:** | | | 2 | | **Total defects for B:** | | | | | | | | | | 2 | | | **C (# common):** | | | | | | 2 |
| **Total Defects (AB/C):** | | | 2 | | **Number Found (A+B-C):** | | | | | | | | | | 2 | | | **Number Left:** | | | | | | 0 |
| **Meeting Time:** | | | 5h | | **Total Inspection Hours:** | | | | | | | | | | 3.5 | | | **Overall Rate:** | | | | | | 70% |

**TSPi Test Log - Form LOGTEST**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | | |  | | | | | | Date | | | |  | |
| Team | | |  | | | | | | Instructor | | | |  | |
| Part/Level | | |  | | | | | | Cycle | | | |  | |
|  | | |  | | | | | | |  | |  | |
| Date | Test | Product | | Start | Stop | Interruption  Time | Delta  Time | Problems | | | Comments | | | | |
| 3/10 | 1 | ARP | | 14:00 | 15:00 | 0 | 60 | 2 | | | Search results not right. Loop won’t iterate | | | | |
|  |  |  | |  |  |  |  |  | | |  | | | | |
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**Defect Types**

**10 Documentation 60 Checking**

**20 Syntax 70 Data**

**30 Build, Package 80 Function**

**40 Assignment 90 System**

**50 Interface 100 Environment**

**TSPi Defect Recording Log – Form LOGD**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | | | |  | | | | | | | Date | | |  | |
| Team | | | | That One Team | | | | | | | Instructor | | | Dr. Garfield | |
| Part/Level | | | |  | | | | | | | Cycle | | |  | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/1 |  | 1 | | |  | 90 |  | Code |  | Code | |  | 4 hrs |  | X |
| Description: | | | GUI had a problem in which the coding error was stated to be in the inherent code of the | | | | | | | | | | | | |
| system. Unsure of how to fix such a thing it was abandoned and a new approach was successful. | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/3 |  | 2 | | |  | 20 |  | Compile |  | Code | |  | 30 min |  | X |
| Description: | | | Use of wrong text file name/location | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/3 |  | 3 | | |  | 20 |  | Compile |  | Code | |  | 30 min |  | X |
| Description: | | | System cannot find specified file. | | | | | | | | | | | | |
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| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/3 |  | 4 | | |  | 20 |  | Compile |  | Code | |  | 30 min |  | X |
| Description: | | | System cannot find specified file. | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/3 |  | 5 | | |  | 20 |  | Compile |  | Code | |  | 15 min |  | X |
| Description: | | | Could not count tokens (tokenizer). | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/10 |  | 6 | | |  | 80 |  | Code |  | Code | |  | 10 |  | X |
| Description: | | | Loop was not iterating because loop control variables were incorrect | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/10 |  | 7 | | |  | 60 |  | Code |  | Code | |  | 15 |  | X |
| Description: | | | System was not displaying correct search results. Cause of bad hard coded values. | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| Date |  | Number | | |  | Type |  | Inject |  | Remove | |  | Fix Time |  | Fix Defect |
| 3/10 |  | 8 | | |  | 60 |  | Code |  | Code | |  | 30 min |  | X |
| Description: | | | The routes were not being generated properly. Result of bad loop control value | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |

**TSPi Example Task Planning Template - Form TASK**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Muraad Khan | Date | Feb 6th ‘13 |
| Team | That One Team | Instructor | Dr.Garfield |
| Part/Level |  | Cycle | 1 |

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| **Task** | | | | **Plan Hours** | | | | | | | **Plan Size/Value** | | | | | **Actual** | | |
| **Phase** | **Part** | **Task Name** | **# Engineers** | **Team Leader** | **Development Manager** | **Planning Manager** | **Qual./Proc. Manager** | **Support Manager** | **Total Team Hours** | **Cumulative**  **Hours** | **Size Units** | **Size** | **Week No.** | **Planned Value** | **Cumulative**  **PV** | **Hours** | **Cumulative Hours** | **Week No.** |
| St |  | Launch- Start | 5 | 2 | 2 | 2 | 2 | 2 | 10 | 10 | Pages | 3 | 1 |  |  |  |  | 1 |
| Mg |  | Meeting- Misc | 5 | 3 | 3 | 3 | 3 | 3 | 15 | 25 | Pages | 5 | 2 |  |  |  |  |  |
| Pl |  | Plan Task & Schedule | 5 | 8 | 8 | 8 | 8 | 8 | 40 | 65 |  |  | 3 |  |  |  |  |  |
| Mg |  | Meeting Misc | 5 | 2 | 2 | 2 | 2 | 2 | 10 | 75 |  |  | 4 |  |  |  |  |  |
| Rq |  | Review Need Statement | 5 | 2 | 2 | 2 | 2 | 2 | 10 | 85 |  |  | 5 |  |  |  |  |  |
|  |  | Produce SRS | 5 | 5 | 5 | 4 | 4 | 4 | 22 | 107 |  |  | 6 |  |  |  |  |  |
|  |  | Req. Inspection | 5 | 1 | 2 | 1 | 1 | 1 | 6 | 113 |  |  | 7 |  |  |  |  |  |
| Hd |  | High Level Design | 5 | 3 | 4 | 3 | 4 | 3 | 17 | 130 |  |  | 8 |  |  |  |  |  |
|  |  | Integration Plan | 5 | 1 | 1 | 1 | 1 | 1 | 5 | 135 |  |  | 9 |  |  |  |  |  |
|  |  | HLD Inspection | 5 | 2 | 2 | 1 | 1 | 2 | 8 | 143 |  |  | 10 |  |  |  |  |  |
| Mg |  | Meeting & Misc | 5 | 5 | 5 | 5 | 5 | 5 | 25 | 168 |  |  | 11 |  |  |  |  |  |
| Dd |  | Detail Design | 5 | 5 | 5 | 5 | 4 | 4 | 23 | 191 |  |  | 12 |  |  |  |  |  |
|  |  | Design Review | 5 | 1 | 0.5 | 0.5 | 2 | 2 | 6 | 197 |  |  | 13 |  |  |  |  |  |
| Co |  | Coding | 5 | 5 | 7 | 5 | 5 | 5 | 27 | 224 |  |  | 14 |  |  |  |  |  |
| T |  | Testing | 5 | 6 | 7 | 6 | 7 | 6 | 32 | 256 |  |  |  |  |  |  |  |  |
| Pm |  | Post Mortem | 5 | 2 | 2 | 2 | 2 | 2 | 10 | 266 |  |  |  |  |  |  |  |  |
| Mg |  | Meeting & Misc | 5 | 10 | 10 | 10 | 10 | 10 | 50 | 316 |  |  |  |  |  |  |  |  |
|  |  |  |  | 63 | 67.5 | 60.5 | 63 | 62 | 316 |  |  |  |  |  |  |  |  |  |

**TSPi Development Time Summary - Form SUMT**

**Plan \_\_\_\_ Assembly \_X\_\_\_ Actual \_\_\_\_**

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| Name | | | | |  | | | | | | | | | | | | | | Date | | | | |  | | | | |
| Team | | | | |  | | | | | | | | | | | | | | Instructor | | | | |  | | | | |
| Part/Level | | | | |  | | | | | | | | | | | | | | Cycle | | | | |  | | | | |
|  | | | | |  | | | | | | | | | | | | | |  | | | | |  | | | | |
| **Phase**  **Parts** |  | **Strategy and Planning** |  | | **Requirements** |  | **System Test Plan** |  | **Requirements Inspection** |  | **High-level Design** |  | **Integration Test Plan** |  | **HLD Inspection** |  | **Detailed Design** | |  | **Detailed Design Review** |  | **Test Development** | |  | **Detailed Design Inspection** |  | **Code** | |  | **Code Review** |  | **Compile** |  | **Code Inspection** |  | **Unit Test** |  | **Build and Integration** |  | **System Test** |  | **Postmortem** |
| FileInput |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  | **1.5** | |  | **0.5** |  |  |  |  |  |  |  |  |  |  |  |  |
| GUI |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  | **1** | |  | **1** |  |  |  |  |  |  |  |  |  |  |  |  |
| SRS |  | **2.5** |  | | **5.8** |  |  |  | **1.5** |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SDS |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  | **3.5** | |  | **1** |  |  | |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SearchAl |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  | 7 | |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Total** |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**TSPi Size Summary - Form SUMS**

**Plan \_\_\_\_ Assembly \_\_X\_\_\_ Actual \_\_\_\_\_\_**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name | |  | | | | | | | | | Date | | | | | |  | | | |
| Team | |  | | | | | | | | | Instructor | | | | | |  | | | |
| Part/Level | |  | | | | | | | | | Cycle | | | | | | 1 | | | |
| **Product or Part Names and/or Numbers**  **Component** | |  | **Size Measure** |  | **Base** |  | **Deleted** |  | **Modified** | |  | **Added** |  | **Reused** |  | **New and Changed** |  | **Total** |  | **Total New Reuse** |
| SRS | |  | Text Pages |  |  |  |  |  |  | |  | 12 |  |  |  | 12 |  | 12 |  |  |
| HLD | |  | HLD Pages |  |  |  |  |  |  | |  | 20 |  |  |  | 20 |  | 20 |  |  |
| Main | |  | DLD Lines |  |  |  |  |  |  | |  | 45 |  |  |  | 45 |  | 45 |  |  |
|  | |  | LOC |  |  |  |  |  |  | |  | 200 |  |  |  | 200 |  | 200 |  |  |
|  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |
| LOC | |  | DLD Lines |  |  |  |  |  |  | |  | 15 |  |  |  | 15 |  | 15 |  |  |
|  | |  | LOC |  |  |  |  |  |  | |  | 10 |  |  |  | 10 |  | 10 |  |  |
|  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |
| Compare | |  | DLD Lines |  |  |  |  |  |  | |  | 125 |  |  |  | 125 |  | 125 |  |  |
|  | |  | LOC |  |  |  |  |  |  | |  | 520 |  |  |  | 520 |  | 520 |  |  |
|  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |
| Indent | |  | DLD Lines |  |  |  |  |  |  | |  | 150 |  |  |  | 150 |  | 150 |  |  |
|  | |  | LOC |  |  |  |  |  |  | |  | 200 |  |  |  | 200 |  | 200 |  |  |
|  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |
| Output | |  | DLD Lines |  |  |  |  |  |  | |  | 50 |  |  |  | 50 |  | 50 |  |  |
|  | |  | LOC |  |  |  |  |  |  | |  | 135 |  |  |  | 135 |  | 135 |  |  |
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| **Totals** | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |
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**TSPi Quality Plan - Form SUMQ**

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | Date |  |
| Team |  | Instructor |  |
| Part/Level |  | Cycle |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Summary Rates** | **Plan** |  | **Actual** |
| LOC/hour | 4.2 |  | 2.3 |
| % Reuse (% of total LOC) | 0 |  | 0 |
| % New Reuse (% of N&C LOC) | 0 |  | 0 |
| **Percent Defect Free (PDF)** |  |  |  |
| In compile | 65 |  | 20 |
| In unit test | 75 |  | 20 |
| In build and integration | 85 |  | 50 |
| In system test | 90 |  | 45 |
| **Defect/page** |  |  |  |
| Requirements inspection | 1.5 |  | 0 |
| HLD inspection | 1.0 |  | 0 |
| **Defects/KLOC** |  |  |  |
| DLD review | 30 |  | 40.6 |
| DLD inspection | 7 |  | 12.8 |
| Code review | 40 |  | 21.3 |
| Compile | 15 |  | 31.4 |
| Code inspection | 5 |  | 0 |
| Unit test | 3 |  | 19.8 |
| Build and integration | 1 |  | 4.1 |
| System test | 3 |  | 4.1 |
| Total development | 103 |  | 134.1 |
| **Defect Ratios** |  |  |  |
| Code review/Compile | 5 |  | 0.75 |
| DLD review/Unit test | 5 |  | 2.78 |
| **Development time ratios (%)** |  |  |  |
| Requirements inspection/Requirements | 20 |  | 8 |
| HLD inspection/HLD | 32 |  | 0 |
| DLD/code | 60 |  | 80 |
| DLD review/DLD | 60 |  | 28 |
| Code review/code | 70 |  | 85 |
| **A/FR** | 5 |  | 1.2 |
| **Review rates** |  |  |  |
| DLD lines/hour | 20 |  | 25 |
| Code LOC/hour | 50 |  | 80 |
| **Inspection rates** |  |  |  |
| Requirement pages/hour | 1.5 |  | 4.2 |
| HLD pages/hour | 1.5 |  | Inf. |
| DLD lines/hour | 10 |  | 40.2 |
| Code LOC/hour | 50 |  | 150 |
|  |  |  |  |

**(continued)**

**TSPi Quality Plan - Form SUMQ (continued)**

|  |  |  |  |
| --- | --- | --- | --- |
| Name |  | Date |  |
| Team |  | Instructor |  |
| Part/Level |  | Cycle |  |

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| **Defect-injection Rates (Defects/Hr.)** | **Plan** |  | **Actual** |
| Requirements | 0.20 |  | 0.00 |
| HLD | 0.20 |  | 0.00 |
| DLD | 1 |  | 1.59 |
| Code | 2.5 |  | 4.67 |
| Compile | 1 |  | 10.6 |
| Unit test | 0.25 |  | 0.30 |
| Build and integration | 0.20 |  | 0.00 |
| System test | 0.1 |  | 0.09 |
|  |  |  |  |
| **Defect-removal Rates (Defects/Hr.)** |  |  |  |
| Requirements inspection | 0.5 |  | 0.00 |
| HLD inspection | 0.5 |  | Inf. |
| DLD review | 1.1 |  | 4.92 |
| DLD inspection | 1.1 |  | 0.86 |
| Code review | 1.5 |  | 4.22 |
| Compile | 2.8 |  | 29.1 |
| Code inspection | 0.3 |  | 0.00 |
| Unit test | 0.3 |  | 0.95 |
| Build and integration | 0.2 |  | 2.96 |
| System test | 0.05 |  | 0.3 |
|  |  |  |  |
| **Phase Yields** |  |  |  |
| Requirements inspection | 60 |  | Inf. |
| HLD inspection | 60 |  | Inf. |
| DLD review | 60 |  | 55.7 |
| Test development | 30 |  | 32 |
| DLD inspection | 60 |  | 39 |
| Code review | 60 |  | 38 |
| Compile | 70 |  | 60.4 |
| Code inspection | 60 |  | 0.0 |
| Unit test | 85 |  | 41.6 |
| Build and integration | 60 |  | 45.8 |
| System test | 70 |  | 100.0 |
|  |  |  |  |
| **Process Yields** |  |  |  |
| % before compile | 70 |  | 89.5 |
| % before unit test | 85 |  | 90 |
| % before build and integration | 95 |  | 95.4 |
| % before system test | 95 |  | 98.9 |
| % before system delivery | 90 |  | 98 |

1. Major defects either change the program source code or would ultimately cause a source code change if not fixed in time; all other defects are considered minor. [↑](#footnote-ref-1)