**SERGIO ESTEBAN FORERO PINZÓN**

**TALLER 3 PSP 1**

**PSP1 Project Plan Summary**

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| --- | --- | --- | --- |
| Student | Sergio Esteban Forero Pinzón | Date | 11/02/2015 |
| Program | PSP1 regresión lineal | Program # | 3 |
| Instructor | Daniel Benavides | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Summary*** | ***Plan*** | | |  | ***Actual*** | | |  | ***To Date*** | | |
| ***Size/Hour*** | 50 | | |  | 47 | | |  | 47 | | |
|  |  | | |  |  | | |  |  | | |
| **Program Size** | ***Plan*** | | |  | **Actual** | | |  | **To Date** | | |
| Base (B) | 15 | | |  | 15 | | |  |  | | |
|  | ***(Measured)*** | | |  | (Measured) | | |  |  | | |
| Deleted (D) | ***0*** | | |  | 5 | | |  |  | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Modified (M) | ***15*** | | |  | 25 | | |  |  | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Added (A) | ***185*** | | |  | 200 | | |  |  | | |
|  | ***(A+M − M)*** | | |  | (T − B + D − R) | | |  |  | | |
| Reused (R) | ***0*** | | |  | 0 | | |  | 0 | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Added and Modified (A+M) | ***200*** | | |  | 220 | | |  | 220 | | |
|  | ***(Projected)*** | | |  | (A + M) | | |  |  | | |
| Total Size (T) | ***215*** | | |  | 235 | | |  | 235 | | |
|  | ***(A+M + B − M − D + R)*** | | |  | (Measured) | | |  |  | | |
| Total New Reusable | 0 | | |  | 0 | | |  | 0 | | |
|  |  | | |  |  | | |  |  | | |
| ***Estimated Proxy Size (E)*** | 215 | | |  |  | | |  |  | | |
|  |  | | |  |  | | |  |  | | |
| **Time in Phase (min.)** | **Plan** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 50 | | |  | 86 | | |  | 8,9% |
| Design |  |  | 30 | | |  | 73 | | |  | 7,6% |
| Code |  |  | 220 | | |  | 546 | | |  | 56,9% |
| Compile |  |  | 30 | | |  | 61 | | |  | 6,3% |
| Test |  |  | 30 | | |  | 60 | | |  | 6,2% |
| Postmortem |  |  | 80 | | |  | 132 | | |  | 13,7% |
| Total | 400 |  | 440 | | |  | 958 | | |  | 100% |
|  |  |  |  | | |  |  | | |  |  |
| **Defects Injected** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  |  | | |  |  | | |  |  |
| Design |  |  | 1 | | |  | 1 | | |  | 6,6% |
| Code |  |  |  | | |  | 4 | | |  | 26,6% |
| Compile |  |  | 2 | | |  | 3 | | |  | 20% |
| Test |  |  | 1 | | |  | 7 | | |  | 46,6% |
| Total Development |  |  | 4 | | |  | 15 | | |  | 100% |
|  |  |  |  | | |  |  | | |  |  |
| **Defects Removed** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  |  | | |  |  | | |  |  |
| Design |  |  | 1 | | |  | 1 | | |  | 6,6% |
| Code |  |  |  | | |  | 4 | | |  | 26,6% |
| Compile |  |  | 2 | | |  | 3 | | |  | 20% |
| Test |  |  | 1 | | |  | 7 | | |  | 46,6% |
| Total Development |  |  | 4 | | |  | 15 | | |  | 100% |
| After Development |  |  | 0 | | |  | 0 | | |  |  |

Time Recording Log

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta**  **Time** | **Comments** |
| PSP1 | Planning | 10:00 9/02/2015 | 50 | 11:00 | 10 |  |
| PSP1 | Design | 11:00 | 30 | 11:35 | 5 |  |
| PSP1 | Code | 11:35 | 160 | 2:15 | 10 |  |
| PSP1 | Compile | 10:00  10/02/2015 | 30 | 10:30 | 0 |  |
| PSP1 | Code | 10:30 | 60 | 11:30 | 0 |  |
| PSP1 | test | 11:30 | 30 | 12:00 | 0 |  |
| PSP1 | Posmorten | 12:00 | 80 | 1:30 | 10 |  |

Size Estimating Template

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | | |  | Added | |
|  |  |  | |  |  | |  |  | | |  |  | |
| Calcular media |  | 15 | |  | 0 | |  | 0 | | |  | 15 | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
| Total | B | | 15 | D | | 0 | M | | 0 | **BA** | | | 15 |

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|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
| Calcular Media |  | 15 | |  | 0 | |  | 0 | |  | 0 | |
| Total |  | | 15 |  | | 0 |  | | 0 |  | | 0 |

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|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Dto |  |  |  | 1 |  | 30 | |  | 30 |  | 30 |  | 1 |
| View |  |  |  | 4 |  | 17 | |  | 70 |  | 70 |  | 4 |
| Controller |  |  |  | 9 |  | 18 | |  | 160 |  | 160 |  | 9 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
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| Total |  |  |  |  |  |  | PA | | 260 |  | 260 |  |  |

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| --- | --- | --- | --- | --- | --- |
|  | |  | Estimated |  | Actual |
| Reused Parts | |  | Size |  | Size |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
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|  | |  |  |  |  |
| Total | R | | 0 |  | 0 |

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| PROBE Calculation Worksheet (Added and Modified) |  | Size |  | Time |
| Added size (A): A = BA+PA |  | 275 |  |  |
| Estimated Proxy Size (E): E = BA+PA+M |  | 275 |  |  |
| PROBE estimating basis used: (A, B, C, or D) |  | 235 |  |  |
| Correlation: (R2) |  | 0,9 |  | 440 |
| Regression Parameters: β0 Size and Time |  | 30,75 |  | 440 |
| Regression Parameters: β1 Size and Time |  | 2.5 |  | 220 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E |  | 90,95 |  |  |
| Estimated Total Size (T): T = P + B - D - M + R |  | 235 |  |  |
| Estimated Total New Reusable (NR): sum of \* items |  | 14 |  |  |
| Estimated Total Development Time: Time = β0time + β1time\*E |  |  |  | 959 |
| Prediction Range: Range |  |  |  |  |
| Upper Prediction Interval: UPI = P + Range |  | 90,95 |  | 30 |
| Lower Prediction Interval: LPI = P - Range |  | 90,95 |  | 546 |
| Prediction Interval Percent: |  |  |  |  |

|  |  |
| --- | --- |
| Expected  results |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test** | **Expected Values** | | | | | **Actual Values** | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| Test 1 | -22.55 | 1.7279 | 0.9545 | 0.9111 | 644.429 | -22,55 | 1,72 | 0,95 | 0,911 | 644 |
| Test 2 | -4.039 | 0.1681 | 0.9333 | .8711 | 60.858 | -4.03 | 0.168 | 0.93 | 0.871 | 60.858 |
| Test 3 | -23.92 | 1.43097 | .9631 | .9276 | 528.4294 | -23.92 | 1.43097 | 0.9631 | 0.9276 | 528.4294 |
| Test 4 | -4.604 | 0.140164 | .9480 | .8988 | 49.4994 | -4.60 | 0.14016 | 0.948 | 0.898 | 49.499 |