**PSP1.1 Project Plan Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 15/02/2015 |
| Program | Program4 | Program # | 4 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Summary** | **Plan** | | |  | **Actual** | | |  | **To Date** | | |
| Size/Hour | 265/3 | | |  | 246/2.3 | | |  | 246/2.3 | | |
| ***Planned Time*** | 180 | | |  |  | | |  | 180 | | |
| ***Actual Time*** |  | | |  | 140 | | |  | 140 | | |
| ***CPI (Cost-Performance Index)*** | | | |  |  | | |  | 180/140=1.3 | | |
|  |  | | |  |  | | |  | (Planned/Actual) | | |
| ***% Reused*** | 8.7 | | |  | 10.6 | | |  | 10.6 | | |
| ***% New Reusable*** | 15.6 | | |  | 7.4 | | |  | 7.4 | | |
|  |  | | |  |  | | |  |  | | |
| **Program Size** | **Plan** | | |  | **Actual** | | |  | **To Date** | | |
| Base (B) | 98 | | |  | 98 | | |  |  | | |
|  | (Measured) | | |  | (Measured) | | |  |  | | |
| Deleted (D) | 4 | | |  | 5 | | |  |  | | |
|  | (Estimated) | | |  | (Counted) | | |  |  | | |
| Modified (M) | 15 | | |  | 11 | | |  |  | | |
|  | (Estimated) | | |  | (Counted) | | |  |  | | |
| Added (A) | 177 | | |  | 127 | | |  |  | | |
|  | (A+M − M) | | |  | (T − B + D − R) | | |  |  | | |
| Reused (R) | 26 | | |  | 26 | | |  | 0+26=26 | | |
|  | (Estimated) | | |  | (Counted) | | |  |  | | |
| Added and Modified (A+M) | 192 | | |  | 257 | | |  | 495+257=752 | | |
|  | (Projected) | | |  | (A + M) | | |  |  | | |
| Total Size (T) | 297 | | |  | 246 | | |  | 511+246=757 | | |
|  | (A+M + B − M − D + R) | | |  | (Measured) | | |  |  | | |
| Total New Reusable | 30 | | |  | 19 | | |  | 0+19=19 | | |
|  |  | | |  |  | | |  |  | | |
| Estimated Proxy Size (E) | 297 | | |  |  | | |  |  | | |
|  |  | | |  |  | | |  |  | | |
| **Time in Phase (min.)** | **Plan** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning | 8.6 |  | 20 | | |  | 33+20=53 | | |  | 6.4 |
| Design | 7.6 |  | 16 | | |  | 29+16=45 | | |  | 5.4 |
| Code | 114.5 |  | 57 | | |  | 438+57=  495 | | |  | 59.7 |
| Compile | 0 |  | 0 | | |  | 0+0=0 | | |  | 0 |
| Test | 16.7 |  | 10 | | |  | 64+10=74 | | |  | 9 |
| Postmortem | 32.6 |  | 37 | | |  | 125+37=  162 | | |  | 19.5 |
| Total | 180 |  | 140 | | |  | 829 | | |  | 100 |
|  |  | | |  |  | | |  |  | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Defects Injected** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 0 | | |  | 0+0=0 | | |  | 0 |
| Design |  |  | 0 | | |  | 3+0=3 | | |  | 18.75 |
| Code |  |  | 1 | | |  | 9+1=10 | | |  | 62.6 |
| Compile |  |  | 0 | | |  | 0+0=0 | | |  | 0 |
| Test |  |  | 1 | | |  | 2+1=3 | | |  | 18.75 |
| Total Development |  |  | 2 | | |  | 16 | | |  | 100 |
|  |  | | |  |  | | |  |  | | |
| **Defects Removed** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 0 | | |  | 0+0=0 | | |  | 0 |
| Design |  |  | 0 | | |  | 0+0=0 | | |  | 0 |
| Code |  |  | 1 | | |  | 12+1=13 | | |  | 81.25 |
| Compile |  |  | 0 | | |  | 0+0=0 | | |  | 0 |
| Test |  |  | 1 | | |  | 2+1=3 | | |  | 18.75 |
| Total Development |  |  | 2 | | |  | 16 | | |  | 100 |
| After Development |  |  | 0 | | |  | 0 | | |  |  |

• En rojo lo que viene del programa anterior.

Test Report Template

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 15/02/2015 |
| Program | Program4 | Program # | 4 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

|  |  |
| --- | --- |
| Test Name/Number | testDatos1/001 |
| Test Objective | Verificar el cálculo adecuado de los rangos del PROBE |
|  |  |
|  |  |
| Test Description | Comprobar que de acuerdo a los datos de entrada se esté calculando |
|  | correctamente los rangos del PROBE |
|  |  |
| Test Conditions | Lista de entrada: {(18,3), (18,3), (25,3), (31,3), (37,3), (82,5), (82,4), (87,4) |
|  | (89,4), (230,10), (85,3), (87,3), (558,10)} |
|  |  |
| Expected Results | VS = 4,3953 |
|  | S = 8,5081 |
|  | M = 16,4696 |
|  | L = 31,8811 |
|  | VL = 61,7137 |
|  |  |
| Actual Results | VS = 4,3953 |
|  | S = 8,5081 |
|  | M = 16,4696 |
|  | L = 31,8811 |
|  | VL = 61,7137 |
|  |  |
| Test Name/Number | testDatos2/002 |
| Test Objective | Verificar el cálculo adecuado de los rangos del PROBE |
|  |  |
| Test Description | Comprobar que de acuerdo a los datos de entrada se esté calculando |
|  | correctamente los rangos del PROBE |
|  |  |
| Test Conditions | Lista de entrada: {(7,1), (12,1), (10,1), (12,1), (10,1), (12,1), (12,1), (12,1) |
|  | (12,1), (8,1), (8,1), (8,1), (20,1), (14,1), (18,1), (12,1)} |
|  |  |
| Expected Results | VS = 6,3375 |
|  | S = 8,4393 |
|  | M = 11,2381 |
|  | L = 14,965 |
|  | VL = 19,928 |
|  |  |
| Actual Results | VS = 6,3375 |
|  | S = 8,4393 |
|  | M = 11,2381 |
|  | L = 14,965 |
|  | VL = 19,928 |
|  |  |

**PSP Process Improvement Proposal (PIP)**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 15/02/2015 |
| Program | Program4 | Program # | 4 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

|  |
| --- |
| **Problem Description** |
| Briefly describe the problems that you encountered. |
|  |
| Es complicado contar las lineas tanto eliminadas como modificadas cuanto tomamos un segmento de |
| código como base para el desarrollo de otra aplicación. |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
| **Proposal Description** |
| Briefly describe the process improvements that you propose. |
|  |
| Para mejorar y facilitar el conteo de las lineas de código eliminadas o modificadas, emplear herramientas |
| que me permitan comparar automaticamente los archivos (Archivo base vs Archivo nuevo). |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
| **Other Notes and Comments** |
| Note any other comments or observations that describe your experiences or improvement ideas. |
|  |
| Realizar mejores comentarios y métodos genericos, que me permitan identificar de manera agil |
| que elementos puedo reusar en los nuevos desarrollos. |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

Size Estimating Template

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 15/02/2015 |
| Program | Program4 | Program # | 4 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |
| Size Measure |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | | |  | Added | |
| Data.java |  | 26 | |  | 2 | |  | 1 | | |  | 0 | |
| PrincipalPROBE.java |  | 72 | |  | 2 | |  | 14 | | |  | 12 | |
| AppTest.java |  | 0 | |  | 0 | |  | 0 | | |  | 50 | |
| HallarValores.java |  | 0 | |  | 0 | |  | 0 | | |  | 115 | |
| Total | B | | 98 | D | | 4 | M | | 15 | **BA** | | | 177 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
| Data.java |  | 26 | |  | 0 | |  | 1 | |  | 0 | |
| PrincipalPROBE.java |  | 72 | |  | 5 | |  | 10 | |  | 8 | |
| AppTest.java |  | 0 | |  | 0 | |  | 0 | |  | 37 | |
| HallarValores.java |  | 0 | |  | 0 | |  | 0 | |  | 98 | |
| Total |  | | 98 |  | | 5 |  | | 11 |  | | 143 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| AppTest.java |  | Test |  | 2 |  | S | |  | 50 |  | 2 |  | 37 |
| HallarValores.java |  | Calc. |  | 8 |  | L | |  | 115 |  | 98 |  | 11 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Total |  |  |  |  |  |  | PA | | 165 |  | 100 |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | Estimated |  | Actual |
| Reused Parts | |  | Size |  | Size |
| Data.java | |  | 26 |  | 26 |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
| Total | R | | 26 |  | 26 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PROBE Calculation Worksheet (Added and Modified) |  | Size |  | Time |
| Added size (A): A = BA+PA |  | 117+165= 282 |  |  |
| Estimated Proxy Size (E): E = BA+PA+M |  | 282+15=  297 |  |  |
| PROBE estimating basis used: (A, B, C, or D) |  | C |  |  |
| Correlation: (R2) |  |  |  |  |
| Regression Parameters: β0 Size and Time |  | 0 |  | 0h |
| Regression Parameters: β1 Size and Time |  | 0.6 |  | 1.3 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E |  | 178.2 |  |  |
| Estimated Total Size (T): T = P + B - D - M + R |  | 283.2 |  |  |
| Estimated Total New Reusable (NR): sum of \* items |  | 0 |  |  |
| Estimated Total Development Time: Time = β0time + β1time\*E |  |  |  | 386.1min |
| Prediction Range: Range |  |  |  |  |
| Upper Prediction Interval: UPI = P + Range |  |  |  |  |
| Lower Prediction Interval: LPI = P - Range |  |  |  |  |
| Prediction Interval Percent: |  |  |  |  |

PSP Time Recording Log

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 15/02/2015 |
| Program | Program4 | Program # | 4 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta**  **Time** | **Comments** |
|  | Planing | 15/02/2015  08:56 am |  | 15/02/2015  09:16 am | 20 |  |
|  | Design | 15/02/2015  09:51 am |  | 15/02/2015  10:07 am | 16 |  |
|  | Code | 15/02/2015  10:38 am | 20 | 15/02/2015  11:55 am | 57 |  |
|  | Test | 15/02/2015  02:26 pm | 7 | 15/02/2015  02:43 pm | 10 |  |
|  | PostMortem | 15/02/2015  02:45 pm |  | 15/02/2015  3:22 pm | 37 |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

PSP Defect Recording Log

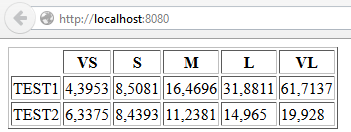
|  |  |
| --- | --- |
| Defect Types |  |
| 10 Documentation | 60 Checking |
| 20 Syntax | 70 Data |
| 30 Build, Package | 80 Function |
| 40 Assignment | 90 System |
| 50 Interface | 100 Environment |

|  |  |  |  |
| --- | --- | --- | --- |
| Student | José Javier Virviescas Toledo | Date | 15/02/2015 |
| Program | Program4 | Program # | 4 |
| Instructor | Luis Daniel Benavides Navarro | Language | JAVA |

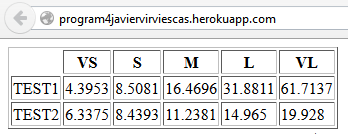
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| Program4 |  | | 15/02/2015 |  | 1 |  | 80 |  | Code |  | Code |  | 1 |  |  |
| Description: | | | Se estaban intercambiando los resultados de Very Small y Small al mostrarlos en pantalla | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| Program4 |  | | 15/02/2015 |  | 2 |  | 20 |  | Test |  | Test |  | 1 |  |  |
| Description: | | | Se estaba creando incorrectamente el Decimal format, al querer que el ultimo decimal | | | | | | | | | | | | | |
| siempre fuera 0. | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |

**Test Results**

Prueba local



Prueba Heroku



Pruebas unitarias

