**PSP1 Project Plan Summary**

**Student** Angela Edith Suárez Torres **Date** 07 de Febrero de 2015

**Program** Probe Estimación **Program #** 3

**Instructor** Luis Daniel Benavides Navarro **Language** JAVA

|  |  |  |  |
| --- | --- | --- | --- |
| **Summary** | **Plan** | **Actual** | **To Date** |
| **Size/Hour** |  | 0.0214 | 0.0082 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Program size** | **Plan** | **Actual** | **To Date** |
| **Base (B)** |  | 0 | 0 |
| **Deleted (D)** |  | 0 | 0 |
| **Modified (M)** | 200 | 0 | 0 |
| **Added (A)** | 200 | 347 | 540 |
| **Reused (R)** |  | 0 | 0 |
| **Added and Modified (A+M)** | 200 | 347 | 30 |
| **Total Size (T)** | 200 | 347 | 540 |
| **Total New Reusable** | 0 | 0 | 0 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time in Phase(min)** | **Plan** | **Actual** | **To Date** | **To Date %** |
| Planning |  | 20 | 46 | 4.1 |
| Design |  | 15 | 33 | 3.3 |
| Code |  | 270 | 594 | 55 |
| Compile |  | 0 | 0 | 0 |
| Test |  | 10 | 20 | 1.8 |
| Postmortem |  | 190 | 393 | 36 |
| Total | 300 | 505 | 1086 | 100 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Defects Injected** | **Actual** | **To Date** | **To Date %** |
| Planning |  |  |  |
| Design |  |  |  |
| Code | 2 | 12 | 100 |
| Compile |  |  |  |
| Test |  |  |  |
| Postmortem |  |  |  |
| Total | 2 | 12 | 100 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Defects Removed** | **Actual** | **To Date** | **To Date %** |
| Planning |  |  |  |
| Design |  |  |  |
| Code |  |  |  |
| Compile |  |  |  |
| Test | 2 | 12 | 100 |
| Postmortem |  |  |  |
| Total | 2 | 12 | 100 |
|  |  |  |  |

**Diseño Conceptual**

Controlador

Mundo

RegresionControlador

App

Calculo

Regresion

Presentación

PaintingText

PaintingWeb

**Tamaño de las partes**

|  |  |
| --- | --- |
| **CATEGORÍA A** | **CÁLCULO** |
| **CATEGORÍA B** | **PRESENTACIÓN** |

**CATEGORÍA C CONTROLLER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLA TAMAÑO RELATIVO CATEGORÍA A** |  |  |  | **Range** |
|  |  |  |  |  |
| **OBJECT NAME** | **Items** | **Object LOC** | **LOC per Item** |  |
| CalculoPromedio | 6 | 36 | 6 | VS |
|  |  |  |  |  |
| Contador | 9 | 128 | 14 | S |
|  |  |  |  |  |
| **TABLA TAMAÑO RELATIVO CATEGORÍA B** |  |  |  |  |
|  |  |  |  |  |
| **OBJECT NAME** | **Items** | **Object LOC** | **LOC per Item** |  |
| PaintingWeb | 2 | 37 | 14 | S |
| PaintingText | 1 | 23 | 23 | L |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLA TAMAÑO RELATIVO CATEGORÍA C** |  |  |  | **Range** |
|  |  |  |  |  |
| **OBJECT NAME** | **Items** | **Object LOC** | **LOC per Item** |  |
| App | 1 | 56 | 56 | VL |
|  |  |  |  |  |
|  |  |  |  |  |

Size Estimating Template

**Student** Angela Edith Suárez Torres **Date** 07 de Febrero de 2015

**Program** Probe Estimación **Program #** 3

**Instructor** Luis Daniel Benavides Navarro **Language** JAVA

|  |  |
| --- | --- |
| Size Measure |  |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
| 0 |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
| Total |  | | 0 |  | | 0 |  | | 0 |  | | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
| App |  | Controller |  | 1 |  | M | |  | 40 |  | 47 |  | 1 |
| RegresionControlador |  | Controller |  | 3 |  | S | |  | 30 |  | 57 |  | 3 |
| Calculo |  | Calculo |  | 5 |  | L | |  | 50 |  | 59 |  | 8 |
| Regresion |  | Calculo |  | 6 |  | VL | |  | 60 |  | 114 |  | 30 |
| PaintingText |  | Presentación |  | 2 |  | S | |  | 15 |  | 12 |  | 1 |
| PaintingWeb |  | Presentación |  | 2 |  | S | |  | 15 |  | 58 |  | 4 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Total |  |  |  |  |  |  | PA | | 210 |  | 347 |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | Estimated | |  | Actual | |
| Reused Parts | |  | Size | |  | Size | |
| 0 | |  | 0 | |  | 0 | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
| Total | R | |  | |  |  | |
| PROBE Calculation Worksheet (Added and Modified) | | |  | | Size |  | | Time |
|  | | |  | |  |  | |  |
| Added size (A): A = BA+PA | | |  | | 210 |  | |  |
| Estimated Proxy Size (E): E = BA+PA+M | | |  | | 210 |  | |  |
| PROBE estimating basis used: (A, B, C, or D) | | |  | | C |  | | C |
| Correlation: (R2) | | |  | |  |  | |  |
| Regression Parameters: β0 Size and Time | | |  | | 0 |  | | 0 |
| Regression Parameters: β1 Size and Time | | |  | | 1,735 |  | | 1,683 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E | | |  | | 364,35 |  | |  |
| Estimated Total Size (T): T = P + B - D - M + R | | |  | | 364,35 |  | |  |
| Estimated Total New Reusable (NR): sum of \* items | | |  | | 47 |  | |  |
| Estimated Total Development Time: Time = β0time + β1time\*E | | |  | |  |  | | 1,683 |
| Prediction Range: Range | | |  | | 300 |  | |  |
| Upper Prediction Interval: UPI = P + Range | | |  | | 664.35 |  | |  |
| Lower Prediction Interval: LPI = P - Range | | |  | | 64.35 |  | |  |
| Prediction Interval Percent: | | |  | | 80% |  | |  |

**Historical size and time data (estimated and actual)**

PSP0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time in Phase(min)** | **Plan** | **Actual** | **To Date** | **To Date %** |
| Planning |  | 7 | 7 | 8.4 |
| Design |  | 8 | 8 | 9.5 |
| Code |  | 39 | 39 | 46.3 |
| Compile |  |  |  |  |
| Test |  | 7 | 7 | 8.4 |
| Postmortem |  | 23 | 23 | 27.4 |
| Total | 180 | 84 | 84 | 100 |

**Total Size (T) PSP0 : 92**

PSP0.1

|  |  |  |  |
| --- | --- | --- | --- |
| **Program size** | **Plan** | **Actual** | **To Date** |
| **Base (B)** |  | 0 | 0 |
| **Deleted (D)** |  | 0 | 0 |
| **Modified (M)** | 100 | 0 | 0 |
| **Added (A)** | 100 | 101 | 100 |
| **Reused (R)** |  | 0 | 0 |
| **Added and Modified (A+M)** |  | 101 | 100 |
| **Total Size (T)** | 200 | 101 | 100 |
| **Total New Reusable** | 0 | 101 | 100 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time in Phase(min)** | **Plan** | **Actual** | **To Date** | **To Date %** |
| Planning |  | 19 | 26 | 4.4 |
| Design |  | 15 | 23 | 3.9 |
| Code |  | 285 | 324 | 54.3 |
| Compile |  | 0 | 0 | 0 |
| Test |  | 13 | 20 | 3.4 |
| Postmortem |  | 180 | 203 | 34.0 |
| Total | 300 | 512 | 596 | 100 |

Tiempo total de desarrollo: 363

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta Time** | **Comments** |
| Psp1 | Planning | 07/02/2015 08:00 |  | 07/02/2015 08:20 | 20 |  |
|  | Design | 07/02/2015 08:20 |  | 07/02/2015 08:30 | 10 |  |
|  | Code | 08/02/2015 09:00 | 1850 | 11/02/2015 10:30 | 260 | Int. diferentes actividades |
|  | Comp | - |  | - |  | - |
|  | Test | 11/02/2015 10:30 |  | 11/02/2015 10:36 | 6 | Error en cálculo aplicado |
|  | Code | 11/02/2015 10:36 |  | 11/02/2015 10:38 | 2 | Solución error B0. |
|  | Test | 11/02/2015 10:38 |  | 11/02/2015 10:42 | 4 | Test Servlet |
|  | Code | 11/02/2015 10:42 |  | 11/02/2015 10:50 | 8 | Solución error presentación resultado |

|  |
| --- |
| **Time Recording Log** |
| **Student** Angela Edith Suárez Torres **Date** 07 de Febrero de 2015 |
| **Program** Probe Estimación **Program # 3** |
| **Instructor** Luis Daniel Benavides Navarro **Language** Java |

**PSP Defect Recording Log**

Tiempo acumulado de desarrollo: 633

**Student** Angela Edith Suárez Torres **Date** 07 de Febrero de 2015

**Program** Probe Estimación **Program #** 3

**Instructor** Luis Daniel Benavides Navarro **Language** Java

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Date** | **Number** | **Type** | **Inject** | **Remove** | **Fix Time** | **Fix Ref.** |
| Psp1 | 11-02-15 | 1 | 80 | CODE | TEST | 2 |  |

Description

Salida : Resultado incorrecto de cálculo..

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Date** | **Number** | **Type** | **Inject** | **Remove** | **Fix Time** | **Fix Ref.** |
| Psp1 | 11-02-15 | 2 | 80 | CODE | TEST | 8 |  |

Description

Salida : NullPointerException. Especificación errada de propiedad name en página de presentación de resultado

Test Report Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Program Number** | **Estimated Proxy Size** | **Plan Added and Modified size** | | **Actual Added and Modified Size** | | **Actual Development Hours** | | |
| 1 | 80 | 50 | | 92 | | 1 | | |
| 2 | 200 | 200 | | 101 | | 4 | | |
|  | | **Tabla 1** | | | |  | |  | | |
|  | |  | | | |  | |  | | |
|  | |  | | | |  | |  | | |
| **Time Recording Log** | | | | | | | | |
| **Student** Angela Edith Suárez Torres **Date** 07 de Febrero de 2015 | | | | | | | | |
| **Program** Probe Estimación **Program # 3** | | | | | | | | |
| **Instructor** Luis Daniel Benavides Navarro **Language** Java | | | | | | | | |

|  |  |
| --- | --- |
| Test Name/Number | 1 |
| Test Objective | Calculate the regression parameters and correlation coefficients between estimated proxy size and actual added and modified size in Table 1. Calculate plan added and modified size given an estimated proxy size of = 386. |
|  |  |
| Test Description | Calculate the regression parameters and correlation coefficients between estimated proxy size and actual added and modified size in Table 1 |
|  |  |
|  |  |
|  |  |
|  |  |
| Test Conditions | Table 1 |
|  |  |
|  |  |
|  |  |
|  |  |
| Expected Results | El sistema muestra en pantalla los valores B0,B1,rxyr2 y yk  correctamente |
|  |  |
|  |  |
|  |  |
| Actual Results | B0 = 86.0 |
|  | B1 = 0,075 |
|  | rxy=1 |
|  | r2 =1  yk =114.95 |
|  |  |
| Test Name/Number | 2 |
| Test Objective | Calculate the regression parameters and correlation coefficients between estimated proxy size and actual development time in Table 1. Calculate time estimate given an estimated proxy size of = 386. |
|  |  |
| Test Description | Calculate the regression parameters and correlation coefficients between estimated proxy size and actual development time in Table 1 |
|  |  |
|  |  |
|  |  |
|  |  |
| Test Conditions |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Expected Results | El sistema muestra en pantalla los valores B0,B1,rxyr2 y yk correctamente |
|  |  |
|  |  |
|  | B0 = -1 |
| Actual Results | B1 = 0,025 |
|  | rxy=1 |
|  | r2 =1  yk =8,65 |
|  |  |
|  |  |
| Test Name/Number | 3 |
| Test Objective | Calculate the regression parameters and correlation coefficients between plan added and modified size and actual added and modified size in Table 1. Calculate plan added and modified size given an estimated proxy size of  = 386. |
|  |  |
| Test Description | Calculate the regression parameters and correlation coefficients between plan added and modified size and actual added and modified size in Table 1 |
|  |  |
|  |  |
|  |  |
|  |  |
| Test Conditions |  |
|  |  |
|  |  |
|  |  |
|  | El sistema muestra en pantalla los valores B0,B1,rxyr2 y yk correctamente |
| Expected Results |  |
|  |  |
|  |  |
|  |  |
| Actual Results | B0 = 89.0 |
|  | B1 = 0.06 |
|  | rxy=1 |
|  | r2 =1  yk =112.16 |
|  |  |
| Test Name/Number | 4 |
| Test Objective | Calculate the regression parameters and correlation coefficients between plan added and modified size and actual development time in Table 1. Calculate time estimate given an estimated proxy size of = 386 |
|  |  |
| Test Description | Calculate the regression parameters and correlation coefficients between plan added and modified size and actual development time in Table 1 |
|  |  |
|  |  |
|  |  |
|  |  |
| Test Conditions |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Expected Results | El sistema muestra en pantalla los valores B0,B1,rxyr2 y yk correctamente |
|  |  |
|  |  |
|  | B0 = 0.0 |
| Actual Results | B1 = 0.02 |
|  | rxy=1 |
|  | r2 =1  yk =7,72 |
|  |  |
|  |  |
|  |  |