**PSP1 Project Plan Summary**

**Student** Angela Edith Suárez Torres **Date** 15 de Febrero de 2015

**Program** psp1\_1 **Program #** 4

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Summary** | **Plan** | **Actual** | **To Date** |
| **Size/Hour** | 200 | 138 | 215,11 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Program size** | **Plan** | **Actual** | **To Date** |
| **Base (B)** | 57 | 12 | 12 |
| **Deleted (D)** | 25 | 47 | 47 |
| **Modified (M)** | 10 | 30 | 30 |
| **Added (A)** | 10 | 39 | 39 |
| **Reused (R)** | 10 | 12 | 12 |
| **Added and Modified (A+M)** | 20 | 69 | 69 |
| **Total Size (T)** | 52 | 16 | 16 |
| **Total New Reusable** | 52 | 12 | 12 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time in Phase(min)** | **Plan** | **Actual** | **To Date** | **To Date %** |
| Planning | 5 | 10 | 56 | 4,41 |
| Design | 5 | 5 | 38 | 2,99 |
| Code | 20 | 29 | 623 | 49,13 |
| Compile | 0 | 0 | 0 | 0 |
| Test | 5 | 18 | 38 | 2,99 |
| Postmortem | 25 | 120 | 513 | 40,45 |
| Total | 60 | 182 | 1268 | 99,97 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Defects Injected** | **Actual** | **To Date** | **To Date %** |
| Planning |  |  |  |
| Design |  |  |  |
| Code | 1 | 13 | 100 |
| Compile |  |  |  |
| Test |  |  |  |
| Postmortem |  |  |  |
| Total | 1 | 13 | 100 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Defects Removed** | **Actual** | **To Date** | **To Date %** |
| Planning |  |  |  |
| Design |  |  |  |
| Code |  |  |  |
| Compile |  |  |  |
| Test | 1 | 13 | 100 |
| Postmortem |  |  |  |
| Total | 1 | 13 | 100 |
|  |  |  |  |

**Diseño Conceptual**

Controlador

Mundo

SizeController

App

Calculo

Medida

Presentación

PaintingText

PaintingWeb

**Tamaño de las partes**

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

**CATEGORÍA C CONTROLLER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLA TAMAÑO RELATIVO CATEGORÍA A** |  |  |  | **Range(Sin cálculo)** |
|  |  |  |  |  |
| **OBJECT NAME** | **Items** | **Object LOC** | **LOC per Item** |  |
| CalculoPromedio | 6 | 36 | 6 | VS |
| Calculo | 8 | 59 | 7 | VS |
| Contador | 9 | 128 | 14 | S |
|  |  |  |  |  |
| **TABLA TAMAÑO RELATIVO CATEGORÍA B** |  |  |  |  |
|  |  |  |  |  |
| **OBJECT NAME** | **Items** | **Object LOC** | **LOC per Item** |  |
| PaintingWeb\_0\_1 | 2 | 37 | 14 | S |
| PaintingText\_0\_1 | 1 | 23 | 23 | L |
| PaintingWeb\_1 | 3 | 58 | 19 | M |
| PaintingText\_1 | 1 | 12 | 12 | M |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLA TAMAÑO RELATIVO CATEGORÍA C** |  |  |  | **Range** |
|  |  |  |  |  |
| **OBJECT NAME** | **Items** | **Object LOC** | **LOC per Item** |  |
| App0\_1 | 1 | 56 | 56 | VL |
| App1\_0 | 1 | 47 | 47 | L |
| RegresionControlador | 3 | 57 | 19 | M |

Size Estimating Template

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

**Program** psp1\_1 **Program #** 4

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

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | | |  | Added | |
| RegresionControlador |  | 57 | |  | 25 | |  | 10 | | |  | 10 | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
| Total | B | | 57 | D | | 25 | M | | 10 | **BA** | | | 10 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
| RegresionControlador |  | 12 | |  | 47 | |  | 30 | |  | 39 | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
| Total |  | | 12 |  | | 47 |  | | 30 |  | | 39 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
| App |  | Controller |  | 1 |  | L | |  | 40 |  | 42 |  | 1 |
| SizeController |  | Controller |  | 3 |  | L | |  | 50 |  | 69 |  | 3 |
| Calculo |  | Calculo |  | 2 |  | L | |  | 50 |  | 57 |  | 8 |
| Medida |  | Calculo |  | 6 |  | M | |  | 20 |  | 21 |  | 10 |
| PaintingText |  | Presentación |  | 2 |  | S | |  | 15 |  | 14 |  | 1 |
| PaintingWeb |  | Presentación |  | 2 |  | S | |  | 15 |  | 29 |  | 2 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Total |  |  |  |  |  |  | PA | | 190 |  | 232 |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | Estimated | |  | Actual | |
| Reused Parts | |  | Size | |  | Size | |
| RegresionControlador | |  | 10 | |  | 12 | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
| Total | R | | 10 | |  | 12 | |
| PROBE Calculation Worksheet (Added and Modified) | | |  | | Size |  | | Time |
|  | | |  | |  |  | |  |
| Added size (A): A = BA+PA | | |  | | 200 |  | |  |
| 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 | | |  | | 3,45 |  | | 1,45 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E | | |  | | 724,5 |  | |  |
| Estimated Total Size (T): T = P + B - D - M + R | | |  | | 701 |  | |  |
| Estimated Total New Reusable (NR): sum of \* items | | |  | | 12 |  | |  |
| Estimated Total Development Time: Time = β0time + β1time\*E | | |  | |  |  | | 304,5 |
| Prediction Range: Range | | |  | |  |  | |  |
| Upper Prediction Interval: UPI = P + Range | | |  | |  |  | |  |
| Lower Prediction Interval: LPI = P - Range | | |  | |  |  | |  |
| Prediction Interval Percent: | | |  | |  |  | |  |

**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**

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

PSP1.0

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |

**Tiempo total de desarrollo: 957**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta Time** | **Comments** |
| Psp1\_1 | Planning | 15/02/2015 09:00 |  | 15/02/2015 09:10 | 10 |  |
|  | Design | 15/02/2015 09:10 |  | 15/02/2015 09:15 | 5 |  |
|  | Code | 15/02/2015 09:16 |  | 15/02/2015 09:45 | 29 |  |
|  | Comp | - |  | - |  | - |
|  | Test | 15/02/2015 09:46 |  | 15/02/2015 09:57 | 11 | Error en cálculo aplicado |
|  | Code | 15/02/2015 09:58 |  | 15/02/2015 10:02 | 2 | Solución error . |
|  | Test | 15/02/2015 10:03 |  | 15/02/2015 10:10 | 7 | Test Servlet |

|  |
| --- |
| **Time Recording Log** |
| **Student** Angela Edith Suárez Torres **Date** 15 de Febrero de 2015 |
| **Program** Psp1\_1 **Program # 4** |
| **Instructor** Luis Daniel Benavides Navarro **Language** Java |

**PSP Defect Recording Log**

**Student** Angela Edith Suárez Torres **Date** 15 de Febrero de 2015

**Program** Psp1\_1 **Program #** 4

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Date** | **Number** | **Type** | **Inject** | **Remove** | **Fix Time** | **Fix Ref.** |
| Psp1\_1 | 15-02-15 | 1 | 80 | CODE | TEST | 2 |  |

Description

Salida : Resultado incorrecto de cálculo. Uso del valor de varianza para calcular VS y S.

Test Report Template

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  |  |  | |
|  | | | |
| **Student** Angela Edith Suárez Torres **Date** 15 de Febrero de 2015 | | | |
| **Program** Psp1\_1 **Program # 4** | | | |
| **Instructor** Luis Daniel Benavides Navarro **Language** Java | | | |

|  |  |
| --- | --- |
| Test Name/Number | 1 |
| Test Objective | Calcular el valor de punto medio para los rangos de:  VS  S  M  L  VL |
|  |  |
| Test Description | Listar en el archivo **valores.txt,** ubicadoen la ruta **src\main\resources,** de forma vertical, el promedio de líneas de código por cada método dentro de cada clasificación realizada. |
|  |  |
|  |  |
|  |  |
|  | El archivo debe cargarse con los datos solicitados. |
| Test Conditions | Los valores ingresados en el archivo deben ser válidos |
|  |  |
|  |  |
|  |  |
|  |  |
| Expected Results | El sistema presenta en base al cálculo realizado con el promedio, la varianza y la desviación los valores para cada size. |
|  |  |
|  |  |
|  |  |
| Actual Results | VERY SMALL es 4,07 LOC  SMALL es 8,35 LOC  MEDIUM es 17,12 LOC  LARGE es 35,09 LOC  VERY LARGE es 71,96 LOC |