**SERGIO ESTEBAN FORERO PINZÓN**

**TALLER 2 PSP 2**

**PSP1 Project Plan Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Sergio Esteban Forero Pinzón | Date | 25/02/2015 |
| Program | PSP2 Regla de Simpson | Program # | 5 |
| Instructor | Daniel Benavides | Language | Java |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Summary*** | ***Plan*** | | |  | ***Actual*** | | |  | ***To Date*** | | |
| ***Size/Hour*** | 120 | | |  | 147 | | |  | 267 | | |
|  |  | | |  |  | | |  |  | | |
| **Program Size** | ***Plan*** | | |  | **Actual** | | |  | **To Date** | | |
| Base (B) | 20 | | |  | 15 | | |  |  | | |
|  | ***(Measured)*** | | |  | (Measured) | | |  |  | | |
| Deleted (D) | ***0*** | | |  | 10 | | |  |  | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Modified (M) | ***10*** | | |  | 7 | | |  |  | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Added (A) | ***85*** | | |  | 113 | | |  |  | | |
|  | ***(A+M − M)*** | | |  | (T − B + D − R) | | |  |  | | |
| Reused (R) | ***0*** | | |  | 0 | | |  | 0 | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Added and Modified (A+M) | ***95*** | | |  | 128 | | |  | 223 | | |
|  | ***(Projected)*** | | |  | (A + M) | | |  |  | | |
| Total Size (T) | ***95*** | | |  | 130 | | |  | 225 | | |
|  | ***(A+M + B − M − D + R)*** | | |  | (Measured) | | |  |  | | |
| Total New Reusable | 105 | | |  | 142 | | |  | 140 | | |
|  |  | | |  |  | | |  |  | | |
| ***Estimated Proxy Size (E)*** | 150 | | |  |  | | |  |  | | |
|  |  | | |  |  | | |  |  | | |
| **Time in Phase (min.)** | **Plan** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 35 | | |  | 151 | | |  | 7,2% |
| Design |  |  | 30 | | |  | 128 | | |  | 6,1% |
| Code |  |  | 315 | | |  | 1101 | | |  | 52,5% |
| Compile |  |  | 17 | | |  | 88 | | |  | 4,2% |
| Test |  |  | 35 | | |  | 140 | | |  | 6,6% |
| Postmortem |  |  | 215 | | |  | 487 | | |  | 23,2% |
| Total |  |  | 647 | | |  | 2095 | | |  | 100% |
|  |  |  |  | | |  |  | | |  |  |
| **Defects Injected** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 0 | | |  | 0 | | |  | 0% |
| Design |  |  | 1 | | |  | 2 | | |  | 10,5% |
| Code |  |  | 2 | | |  | 6 | | |  | 31,5% |
| Compile |  |  | 0 | | |  | 3 | | |  | 15,7% |
| Test |  |  | 1 | | |  | 8 | | |  | 42,1% |
| Total Development |  |  | 4 | | |  | 19 | | |  | 100% |
|  |  |  |  | | |  |  | | |  |  |
| **Defects Removed** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 0 | | |  | 0 | | |  | 0% |
| Design |  |  | 1 | | |  | 2 | | |  | 10,5% |
| Code |  |  | 2 | | |  | 6 | | |  | 31,5% |
| Compile |  |  | 0 | | |  | 3 | | |  | 15,7% |
| Test |  |  | 1 | | |  | 8 | | |  | 42,1% |
| Total Development |  |  | 4 | | |  | 19 | | |  | 100% |
| After Development |  |  |  | | |  |  | | |  |  |

Time Recording Log

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta**  **Time** | **Comments** |
| PSP1 | Planning | 12:00 pm 22/02/2015 | 35 | 1:40 | 5 |  |
| PSP1 | Design | 2:30 | 30 | 3:00 | 0 |  |
| PSP1 | Code | 3:00 | 143 | 5:23 | 0 |  |
| PSP1 | Compile | 5:23 | 17 | 5:40 | 0 |  |
| PSP1 | Code | 6:12 | 172 | 9:15 | 15 |  |
| PSP1 | test | 9:15 | 35 | 9:50 | 0 |  |
| PSP1 | Posmorten | 11:00  24/02/2015 | 140 | 1:25 am | 5 |  |
| PSP1 | Posmorten | 11:00  25/02/2015 | 75 | 12:15 | 0 |  |

Size Estimating Template

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | | |  | Added | |
|  |  |  | |  |  | |  |  | | |  |  | |
| Sumatoria de x |  | 15 | |  | 0 | |  | 0 | | |  | 15 | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
| Total | B | | 15 | D | | 0 | M | | 0 | **BA** | | | 15 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
| Sumatoria de x |  | 15 | |  | 0 | |  | 0 | |  | 0 | |
| Total |  | | 15 |  | | 0 |  | | 0 |  | | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| View |  |  |  | 4 |  | 20 | |  | 80 |  | 80 |  | 4 |
| Controller |  |  |  | 6 |  | 15 | |  | 90 |  | 90 |  | 6 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
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|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Total |  |  |  |  |  |  | PA | | 170 |  | 170 |  |  |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PROBE Calculation Worksheet (Added and Modified) |  | Size |  | Time |
| Added size (A): A = BA+PA |  | 185 |  |  |
| Estimated Proxy Size (E): E = BA+PA+M |  | 185 |  |  |
| PROBE estimating basis used: (A, B, C, or D) |  | 4C |  | 4C |
| Correlation: (R2) |  | 1 |  | 1 |
| Regression Parameters: β0 Size and Time |  | 0 |  | 0 |
| Regression Parameters: β1 Size and Time |  | 1,13 |  | 1,2 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E |  | 168,5 |  |  |
| Estimated Total Size (T): T = P + B - D - M + R |  | 179,5 |  |  |
| Estimated Total New Reusable (NR): sum of \* items |  | 0 |  |  |
| Estimated Total Development Time: Time = β0time + β1time\*E |  |  |  | 222 |
| Prediction Range: Range |  |  |  |  |
| Upper Prediction Interval: UPI = P + Range |  |  |  |  |
| Lower Prediction Interval: LPI = P - Range |  |  |  |  |
| Prediction Interval Percent: |  |  |  |  |

**Resultados Esperados:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | | **Expected Value** | **Actual Value** |
| ***x*** | ***dof*** | ***p*** |  |
| 0 to x= 1.1 | 9 | 0.35006 | 0.350058 |
| 0 to x= 1.1812 | 10 | 0.36757 | 0.367573 |
| 0 to x= 2.750 | 30 | 0.49500 | 0.494996 |

**Design Review CheckList**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Completitud | * Verificar que el diseño cubra todos los requerimientos * Verificar que esten todas las enradas y salidas * Verificar la visibilidad de las clases | Si  Si  Si |  |  |  |
| Dependencias | * Verificar dependencias * Verificar accesibilidad a servicios externos | Si  No |  |  |  |
| Orientado a objetos | * Clases con responsabilidades unicas * Bajo acoplamiento * Alta cohesion | Si  No  No |  |  |  |
| Especificación | * Cada metodo documentado * Comentarios de licencias | Si  No |  |  |  |
| Pruebas Unitarias | * Cada clase tiene una clase de pruebas | No |  |  |  |

**Code Review CheckList**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Completitud | * Verificar que el codigo cubra todo el diseño | Si |  |  |  |
| Inicializacion | * Verificar la inicializacion de variables * Verificar que toda clase tenga un constructor * Verificar el inicio y fin de todo ciclo | Si  No  Si |  |  |  |
| Llamados | * Verificar las entradas y salidas de los metodos | Si |  |  |  |
| Manejo de Excepciones | * Todas las excepciones son capturadas * Todos los metodos con Throws * No hay excepciones genericas | Si  No  No |  |  |  |
| Identación | * Respetar estandar de codificación | Si |  |  |  |
| Sentencias logicas | * Verificar operadores logicos | Si |  |  |  |