PSP Time Recording Log

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo | Date | 14 Febrero |
| Program | PSP 11 | Program # | 4 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta**  **Time** | **Comments** |
| PSP11 | Análisis | 13/Feb 9.27 | 0 | 13/Feb 10.26 | 59 | Lectura y análisis de problema |
|  | Diseño | 13/Feb 10.26 | 0 | 13/Feb 10.41 | 15 | Diseño de clases de la solución |
|  | Desarrollo | 8:11 a. m. 14/02/2015 | 15 | 10:30 a. m. 14/02/2015 | 134 | Desarrollo de la solución |
|  | Pruebas | 10:30 a. m. 14/02/2015 | 3 | 11:03 a. m. 14/02/2015 | 30 | Pruebas y despliegue |
|  | Postmortem | 11:03 a. m. 14/02/2015 | 5 | 12:44 p. m. 14/02/2015 | 95 | Terminación del documento |
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**Example PSP1 Project Plan Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo Prada | Date | Febrero 13 2015 |
| Program |  | Program # | 4 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Summary*** | ***Plan*** | | |  | ***Actual*** | | |  | ***To Date*** | | |
| ***Size/Hour*** | 0,82 | | |  | 0.92 | | |  |  | | |
|  |  | | |  |  | | |  |  | | |
| **Program Size** | ***Plan*** | | |  | **Actual** | | |  | **To Date** | | |
| Base (B) | 0 | | |  | 0 | | |  |  | | |
|  | ***(Measured)*** | | |  | (Measured) | | |  |  | | |
| Deleted (D) | ***0*** | | |  | 0 | | |  |  | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Modified (M) | ***0*** | | |  | 0 | | |  |  | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Added (A) | ***95*** | | |  | 129 | | |  |  | | |
|  | ***(A+M − M)*** | | |  | (T − B + D − R) | | |  |  | | |
| Reused (R) | ***115*** | | |  | 130 | | |  | 147 | | |
|  | ***(Estimated)*** | | |  | (Counted) | | |  |  | | |
| Added and Modified (A+M) | ***95*** | | |  | 103 | | |  | 494 | | |
|  | ***(Projected)*** | | |  | (A + M) | | |  |  | | |
| Total Size (T) | ***210*** | | |  | 233 | | |  | 661 | | |
|  | ***(A+M + B − M − D + R)*** | | |  | (Measured) | | |  |  | | |
| Total New Reusable | 0 | | |  | 0 | | |  | 12 | | |
|  |  | | |  |  | | |  |  | | |
| ***Estimated Proxy Size (E)*** | 95 | | |  |  | | |  |  | | |
|  |  | | |  |  | | |  |  | | |
| **Time in Phase (min.)** | **Plan** |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning | 11 |  | 59 | | |  | 189 | | |  | 14 |
| Design | 1 |  | 15 | | |  | 30 | | |  | 2 |
| Code | 40 |  | 134 | | |  | 593 | | |  | 45 |
| Compile | 0 |  | 0 | | |  | 0 | | |  | 0 |
| Test | 18 |  | 30 | | |  | 242 | | |  | 18 |
| Postmortem | 15 |  | 95 | | |  | 258 | | |  | 20 |
| Total | 115 |  | 333 | | |  | 1312 | | |  | 100 |
|  |  |  |  | | |  |  | | |  |  |
| **Defects Injected** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 0 | | |  | 0 | | |  | 0 |
| Design |  |  | 4 | | |  | 9 | | |  | 52 |
| Code |  |  | 0 | | |  | 0 | | |  | 0 |
| Compile |  |  | 3 | | |  | 8 | | |  | 48 |
| Test |  |  | 0 | | |  | 0 | | |  | 0 |
| Total Development |  |  | 7 | | |  | 17 | | |  | 100 |
|  |  |  |  | | |  |  | | |  |  |
| **Defects Removed** |  |  | **Actual** | | |  | **To Date** | | |  | **To Date %** |
| Planning |  |  | 0 | | |  | 0 | | |  | 0 |
| Design |  |  | 0 | | |  | 0 | | |  | 0 |
| Code |  |  | 4 | | |  | 9 | | |  | 52 |
| Compile |  |  | 0 | | |  | 0 | | |  | 0 |
| Test |  |  | 3 | | |  | 8 | | |  | 48 |
| Total Development |  |  | 7 | | |  | 17 | | |  | 100 |
| After Development |  |  | 0 | | |  | 0 | | |  |  |

Size Estimating Template

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo Prada | Date | 13 Feb 2015 |
| Program | PSP 1 | Program # | 4 |
| Instructor |  | Language | Java |
| Size Measure |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | | |  | Added | |
| MetodoProbe |  | 0 | |  | 0 | |  | 0 | | |  | 20 | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
|  |  |  | |  |  | |  |  | | |  |  | |
| Total | B | | 0 | D | | 0 | M | | 0 | **BA** | | | 20 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Actual | | | | | | | | | | |
| Base Parts |  | Base | |  | Deleted | |  | Modified | |  | Added | |
| MetodoProbe |  | 0 | |  | 0 | |  | 0 | |  | 12 | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
|  |  |  | |  |  | |  |  | |  |  | |
| Total |  | | 0 |  | | 0 |  | | 0 |  | | 12 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
| VistaConsola |  | Vista |  | 1 |  | M | |  | 15 |  | 15 |  | 1 |
| Vista Web |  | Vista |  | 1 |  | M | |  | 10 |  | 16 |  | 1 |
| ControladorWeb |  | Contro |  | 2 |  | M | |  | 20 |  | 20 |  | 2 |
| ControladorConsola |  | Contro |  | 1 |  | M | |  | 10 |  | 8 |  | 1 |
| RangoTamano |  | Entida |  | 5 |  | VS | |  | 20 |  | 16 |  | 5 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Total |  |  |  |  |  |  | PA | | 75 |  | 75 |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | |  | Estimated |  | Actual |
| Reused Parts | |  | Size |  | Size |
| ResumenPrograma | |  | 19 |  | 19 |
| ResumenArchivo | |  | 18 |  | 18 |
| ContadorLineas | |  | 30 |  | 30 |
| ContadorClases | |  | 16 |  | 16 |
| CalculosCOnListas | |  | 32 |  | 32 |
| Archivos | |  |  |  | 15 |
|  | |  |  |  |  |
| Total | R | | 115 |  | 130 |

**(continued)**

Size Estimating Template (continued)

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo | Program | PSP1.1 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PROBE Calculation Worksheet (Added and Modified) |  | Size |  | Time |
| Added size (A): A = BA+PA |  | 95 |  |  |
| Estimated Proxy Size (E): E = BA+PA+M |  | 95 |  |  |
| PROBE estimating basis used: (A, B, C, or D) |  | C |  | C |
| Correlation: (R2) |  | 0.25 |  | 0.28 |
| Regression Parameters: β0 Size and Time |  | 0 |  | 0 |
| Regression Parameters: β1 Size and Time |  | 1.08 |  | 1.2 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E |  | 103 |  |  |
| Estimated Total Size (T): T = P + B - D - M + R |  | 218 |  |  |
| Estimated Total New Reusable (NR): sum of \* items |  | 0 |  |  |
| Estimated Total Development Time: Time = β0time + β1time\*E |  |  |  | 114 |
| Prediction Range: Range |  |  |  |  |
| Upper Prediction Interval: UPI = P + Range |  |  |  |  |
| Lower Prediction Interval: LPI = P - Range |  |  |  |  |
| Prediction Interval Percent: |  |  |  |  |

Test Report Template

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo | Date | Febero 7 |
| Program | PSP1 | Program # | 4 |
| Instructor |  | Language | Java |

|  |  |
| --- | --- |
| Test Name/Number | 1 / Misma prueba datos diferentes |
| Test Objective | Probar que los caculos de tamaños de programas sean validos |
|  |  |
| Test Description | Se ingresaran dos grupos de datos de números, estos datos contienen la información correspondiende al documento entrefado en psp1.1 |
|  |  |
| Test Conditions | Son dos grupos de datos.  Uno de los grupos corresponde a un lista de clases con el número de líneas de código y el número de métodos.  El otro grupo es un listado de capítulos, se utilizara la misma clase para realizar la prueba pero el numero de métodos se dejará en 1 para que no tenga que calcular el promedio de líneas por código. |
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|  |  |
| Expected Results | Los resultados esperados deben ser siempre los mismos de acuerdo a la tabla ingresada a continuación. |
|  |  |
|  |  |
|  |  |
| Actual Results | Los resultados arrojados fueron satisfactorios, estos se pueden consultar en la siguiente URL. http://psp11-gabriel.herokuapp.com/ |
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| --- | --- | --- |
| **Class Name** | **Class LOC** | **Number of Methods** |
| each\_char | 18 | 3 |
| string\_read | 18 | 3 |
| single\_character | 25 | 3 |
| each\_line | 31 | 3 |
| single\_char | 37 | 3 |
| string\_builder | 82 | 5 |
| string\_manager | 82 | 4 |
| list\_clump | 87 | 4 |
| list\_clip | 89 | 4 |
| string\_decrementer | 230 | 10 |
| c Char | 85 | 3 |
| Character | 87 | 3 |
| Converter | 558 | 10 |

Table 1. LOC/Method Data

|  |  |
| --- | --- |
| **Chapter** | **Pages** |
| Preface | 7 |
| Chapter 1 | 12 |
| Chapter 2 | 10 |
| Chapter 3 | 12 |
| Chapter 4 | 10 |
| Chapter 5 | 12 |
| Chapter 6 | 12 |
| Chapter 7 | 12 |
| Chapter 8 | 12 |
| Chapter 9 | 8 |
| Appendix A | 8 |
| Appendix B | 8 |
| Appendix C | 20 |
| Appendix D | 14 |
| Appendix E | 18 |
| Appendix F | 12 |

Table 2. Pgs/Chapter

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **VS** | **S** | **M** | **L** | **VL** |
| **LOC/Method** | 4.3953 | 8.5081 | 16.4696 | 31.8811 | 61.7137 |
| **Pgs/Chapter** | 6.3375 | 8.4393 | 11.2381 | 14.9650 | 19.9280 |

Table 3. Expected Values

PSP Process Improvement Proposal (PIP)

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo PRada | Date | Feb 14 2015 |
| Program |  | Program # | 4 |
| Instructor |  | Language | Java |

|  |
| --- |
| Problem Description |
| Briefly describe the problems that you encountered. |
| Ya que domino un poco más los formularios de PSP la principal complicación es entender el método PROBE. |
|  |
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|  |
| Proposal Description |
| Briefly describe the process improvements that you propose. |
| Necesito leer un poco más sobre el método y preguntarle al profesor. |
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| Other Notes and Comments |
| Note any other comments or observations that describe your experiences or improvement ideas. |
| Mejoré bastante la estimación de las líneas de código, estuvieron muy acertadas, no así el tiempo ya que sigo teniendo varios desfases. |
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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 | Gabriel Castillo | Date | Febrero 14 |
| Program | PSP 1.1 | Program # | 4 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 1.1 |  | | 13 Feb |  | 1 |  | 100 |  | Desi. |  | Code |  | 5 |  |  |
| Description: | | | Error al no tenener en cuenta el constructor de los Rangos de Tamaño, se eliminaron los setters | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 1.1 |  | | 13 Feb |  | 2 |  | 100 |  | Desi. |  | Code |  | 5 |  |  |
| Description: | | | Error al no prever la propiedad “PromedioLineas” de la clase “ResumenArchivo” | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 1.1 |  | | 13 Feb |  | 3 |  | 100 |  | Desi. |  | Code |  | 5 |  |  |
| Description: | | | Falto agregar como componentes Base a la clase “Archivo” | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 1.1 |  | | 13 Feb |  | 4 |  | 100 |  | Desi. |  | Code |  | 5 |  |  |
| Description: | | | Fue necesario hacer una sobrecarga del método “CalcularTamano” | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 1.1 |  | | 14 Feb |  | 5 |  | 60 |  | Code. |  | Test |  | 3 |  |  |
| Description: | | | Error calculando la propiedad “PromedioLienas” de la clase “ResumenArchivo” | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 1.1 |  | | 14 Feb |  | 6 |  | 60 |  | Code. |  | Test |  | 1 |  |  |
| Description: | | | Error al aplicar la fórmula del tamaño para Muy Grandes y Muy Pequeños | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 1.1 |  | | 14 Feb |  | 7 |  | 60 |  | Code. |  | Test |  | 1 |  |  |
| Description: | | | Error al llamar el método que calculaba el anti logaritmo | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
|  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Description: | | |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
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