PSP Time Recording Log

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Castillo | Date | 21 Febrero |
| Program | PSP 20 | Program # | 5 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- | --- |
| **Project** | **Phase** | **Start Date and Time** | **Int. Time** | **Stop Date and Time** | **Delta**  **Time** | **Comments** |
| PSP2 | Analisis | 9:00 p. m. 20/02/2015 | 10 | 9:40 p. m. 20/02/2015 | 30 | Analisis del documento |
| PSP2 | Análisis | 8:57 a. m. 21/02/2015 continua | 5 | 9:23 a. m. 21/02/2015 | 21 | Analisis del documento |
| PSP2 | Análisis | 9:47 a. m. 21/02/2015 | 50 | 11:24 a. m. 21/02/2015 | 47 | Análisis del documento |
| PSP2 | Diseño | 9:23 a. m. 21/02/2015 | 9 | 9:47 a. m. 21/02/2015 | 15 | Diseño de la solución |
| PSP2 | Desarrollo | 11:24 a. m. 21/02/2015 | 5 | 12:50 p. m. 21/02/2015 | 81 | Desarrollo de la solución |
| PSP2 | Pruebas | 12:50 p. m. 21/02/2015 | 3 | 1:18 p. m. 21/02/2015 | 25 | Pruebas y despliegue en Heroku |
| PSP2 | Postmortem | 1:18 p. m. 21/02/2015 | 3 | 2:08 p. m. 21/02/2015 | 47 | Postmortem |
| PSP2 | Postmoirtem | 2:26 p. m. 21/02/2015 | 2 | 2:52 p. m. 21/02/2015 | 24 | Post Mortem |
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**Example PSP2 Project Plan Summary**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo Prada | Date | Febrero 21 2015 |
| Program |  | Program # | 5 |
| Instructor |  | Language | Java |

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| --- | --- | --- | --- | --- | --- |
| % Reuse | 0 |  | 0 |  | 5 |
| % New Reusable | 0 |  | 0 |  | 0 |
| ***Test Defects/KLOC or equivalent*** | 10 |  | 10 |  | 10 |
| ***Total Defects/KLOC or equivalent*** | 10 |  | 10 |  | 10 |
| ***Yield %*** | 100 |  | 100 |  | 100 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Summary*** | | ***Plan*** | | | |  | | ***Actual*** | | | |  | | ***To Date*** | | | |
| ***Size/Hour*** | | 0.88 | | | |  | | 1 | | | |  | |  | | | |
|  | |  | | | |  | |  | | | |  | |  | | | |
| **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) | | ***115*** | | | |  | | 81 | | | |  | |  | | | |
|  | | ***(A+M − M)*** | | | |  | | (T − B + D − R) | | | |  | |  | | | |
| Reused (R) | | ***0*** | | | |  | | 0 | | | |  | | 147 | | | |
|  | | ***(Estimated)*** | | | |  | | (Counted) | | | |  | |  | | | |
| Added and Modified (A+M) | | ***115*** | | | |  | | 81 | | | |  | | 575 | | | |
|  | | ***(Projected)*** | | | |  | | (A + M) | | | |  | |  | | | |
| Total Size (T) | | ***115*** | | | |  | | 81 | | | |  | | 742 | | | |
|  | | ***(A+M + B − M − D + R)*** | | | |  | | (Measured) | | | |  | |  | | | |
| Total New Reusable | | 0 | | | |  | | 29 | | | |  | | 41 | | | |
|  | |  | | | |  | |  | | | |  | |  | | | |
| ***Estimated Proxy Size (E)*** | | 115 | | | |  | |  | | | |  | |  | | | |
|  | |  | | | |  | |  | | | |  | |  | | | |
| **Time in Phase (min.)** | | **Plan** |  | **Actual** | | | | |  | **To Date** | | | | |  | **To Date %** | |
| Planning | | 40 |  | 98 | | | | |  | 287 | | | | |  | 17 | |
| Design | | 6 |  | 15 | | | | |  | 45 | | | | |  | 2 | |
| Code | | 130 |  | 81 | | | | |  | 674 | | | | |  | 42 | |
| Compile | | 0 |  | 0 | | | | |  | 0 | | | | |  | 0 | |
| Test | | 52 |  | 25 | | | | |  | 267 | | | | |  | 16 | |
| Postmortem | | 58 |  | 71 | | | | |  | 329 | | | | |  | 21 | |
| Total | | 290 |  | 290 | | | | |  | 1602 | | | | |  | 100 | |
|  | |  |  |  | | | | |  |  | | | | |  |  | |
| **Defects Injected** | |  |  | **Actual** | | | | |  | **To Date** | | | | |  | **To Date %** | |
| Planning | |  |  | 0 | | | | |  | 0 | | | | |  | 0 | |
| Design | |  |  | 0 | | | | |  | 9 | | | | |  | 47 | |
| Code | |  |  | 2 | | | | |  | 10 | | | | |  | 53 | |
| Compile | |  |  | 0 | | | | |  | 0 | | | | |  | 0 | |
| Test | |  |  | 0 | | | | |  | 0 | | | | |  | 0 | |
| Total Development | |  |  | 2 | | | | |  | 19 | | | | |  | 100 | |
|  | |  |  |  | | | | |  |  | | | | |  |  | |
| **Defects Removed** | |  |  | **Actual** | | | | |  | **To Date** | | | | |  | **To Date %** | |
| Planning | |  |  | 0 | | | | |  | 0 | | | | |  | 0 | |
| Design | |  |  | 0 | | | | |  | 0 | | | | |  | 0 | |
| Code | |  |  | 0 | | | | |  | 9 | | | | |  | 47 | |
| Compile | |  |  | 0 | | | | |  | 0 | | | | |  | 0 | |
| Test | |  |  | 2 | | | | |  | 10 | | | | |  | 53 | |
| Total Development | |  |  | 2 | | | | |  | 19 | | | | |  | 100 | |
| After Development | |  |  | 0 | | | | |  | 0 | | | | |  |  | |
| ***Defect Removal Efficiency*** | | ***Plan*** | | | |  | | ***Actual*** | | | |  | | ***To Date*** | | | |
| ***Defects/Hour − Design Review*** | | 0 | | | |  | | 4 | | | |  | | 4 | | | |
| ***Defects/Hour − Code Review*** | | 0 | | | |  | | 3 | | | |  | | 3 | | | |
| ***Defects/Hour − Compile*** | | 0 | | | |  | | 0 | | | |  | | 0 | | | |
| ***Defects/Hour − Test*** | | 0 | | | |  | | 5 | | | |  | | 5 | | | |
| ***DRL (DLDR/UT)*** | |  | | | |  | |  | | | |  | |  | | | |
| ***DRL (Code Review/UT)*** | |  | | | |  | |  | | | |  | |  | | | |
| ***DRL (Compile/UT)*** | |  | | | |  | |  | | | |  | |  | | | |

Size Estimating Template

-Muy Grande:24.45861525431191

-Grande:12.953372440971016

-Medio:6.86015360435939

-Pequeño:3.633162536618708

-Muy Pequeño:1.9241362189181346

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| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo Prada | Date | 21 Feb 2015 |
| Program | PSP 2.0 | Program # | 5 |
| Instructor |  | Language | Java |
| Size Measure |  |  |  |

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

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

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|  |  | Estimated | | | | | | | |  | Actual | | |
| Parts Additions |  | Type |  | Items |  | Rel. Size | |  | Size\* |  | Size\* |  | Items |
| VistaConsola |  | Vista |  | 1 |  | M | |  | 10 |  | 8 |  | 1 |
| Vista Web |  | Vista |  | 1 |  | L | |  | 15 |  | 9 |  | 1 |
| ControladorWeb |  | Contro |  | 2 |  | M | |  | 20 |  | 20 |  | 2 |
| ControladorConsola |  | Contro |  | 1 |  | M | |  | 10 |  | 7 |  | 1 |
| CalculosMatematicos |  | Matem |  | 3 |  | M | |  | 30\* |  | 29\* |  | 3 |
| MetodoProbe |  | Logica |  | 1 |  | VL | |  | 30 |  | 8 |  | 1 |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |
| Total |  |  |  |  |  |  | PA | | 115 |  | 81 |  |  |

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

**(continued)**

Size Estimating Template (continued)

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| --- | --- | --- | --- |
| Student | Gabriel Castillo | Program | PSP2.0 |

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| PROBE Calculation Worksheet (Added and Modified) |  | Size |  | Time |
| Added size (A): A = BA+PA |  | 115 |  |  |
| Estimated Proxy Size (E): E = BA+PA+M |  | 115 |  |  |
| PROBE estimating basis used: (A, B, C, or D) |  | C |  | C |
| Correlation: (R2) |  | 0.035 |  | 0.26 |
| Regression Parameters: β0 Size and Time |  | 0 |  | 0 |
| Regression Parameters: β1 Size and Time |  | 0.704 |  | 1.17 |
| Projected Added and Modified Size (P): P = β0size + β1size\*E |  | 80.96 |  |  |
| Estimated Total Size (T): T = P + B - D - M + R |  | 80.96 |  |  |
| Estimated Total New Reusable (NR): sum of \* items |  | 3 |  |  |
| Estimated Total Development Time: Time = β0time + β1time\*E |  |  |  | 134 |
| 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 correspondiente al documento entregado en psp2.0 |
|  |  |
| Test Conditions | Son 3 grupos de datos. Cada grupo contiene x y dof y debe arrojar el resultado encontrado en la tabla. |
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|  |  |
| Expected Results | Los resultados esperados corresponden al valor encontrado en la tabla que suministra el ejercicio. |
|  |  |
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|  |  |
| Actual Results | Los resultados arrojados fueron satisfactorios, estos se pueden consultar en la siguiente URL. http://psp20-gabriel.herokuapp.com/ |
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| --- | --- | --- | --- |
| **Test** | | **Expected Value** | **Actual Value** |
| ***x*** | ***dof*** | ***p*** |  |
| 0 to x= 1.1 | 9 | 0.35006 | 0.3500589042865573 |
| 0 to x= 1.1812 | 10 | 0.36757 | 0.36757369564406384 |
| 0 to x= 2.750 | 30 | 0.49500 | 0.4949969400285226 |

Resultado arrojado en la consola

Prueba

--->X:1.1

--->DOF:9.0

--->Resultado (p):0.3500589042865573

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Prueba

--->X:1.1812

--->DOF:10.0

--->Resultado (p):0.36757369564406384

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Prueba

--->X:2.75

--->DOF:30.0

--->Resultado (p):0.4949969400285226

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PSP Process Improvement Proposal (PIP)

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| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo PRada | Date | Feb 21 2015 |
| Program |  | Program # | 5 |
| Instructor |  | Language | Java |

|  |
| --- |
| Problem Description |
| Briefly describe the problems that you encountered. |
| Siguen existiendo problemas para calcular el método PROBE ya que los cálculos no me dan exactamente. |
| Además la mayor cantidad invertida de tiempo es entendiendo las formulas y terminando el documento. |
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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. |
| Mejoré bastante en el diseño ya que es la primera vez que no cometo errores en esta fase. |
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PSP Defect Recording Log

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

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| --- | --- | --- | --- |
| Student | Gabriel Castillo | Date | Febrero 21 |
| Program | PSP 2 | Program # | 5 |
| Instructor |  | Language | Java |

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| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP 2 |  | | 21 Feb |  | 1 |  | 60 |  | Code. |  | Test |  | 1 |  |  |
| Description: | | | error al calcular el multiplicador de la regla Simpson | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Project |  | | Date |  | Number |  | Type |  | Inject |  | Remove |  | Fix Time |  | Fix Ref. |
| PSP2 |  | | 21 Feb |  | 2 |  | 60 |  | Code. |  | Test |  | 1 |  |  |
| Description: | | | Error en los valores de pruebas cargados | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
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**Design Review Checklist**

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| --- | --- | --- | --- |
| Student | Gabriel Castillo Prada | Date | 21 Febrero |
| Program | PSP 2 | Program # |  |
| Instructor |  | Language |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 |
| Completitud | * Validar que todo lo solicitado este en el programa * Validar que las salidas que se piden esten programadas * Validar que estén las entradas solciitadas | X | x | x | x | x | x |
| Ambientes | * Validar que se muestren en los diferentes ambientes (Web, Consola) | X | x | x | x | x | x |
| Logica y Objetos | * Validar que la reutilización de código * Validar que los objetos diseñados cumplan con el nivel de acceso determinado * Validar que cada clase tenga métodos que deban corresponder a la misma | X | x | x | x | x | x |
| Casos especiales | * Validar condiciones poco posibles | X | x | x | x | x | x |
| Consideraciones de sistema | * Validar que no haya un uso inapropiado de los recursos del sistema * Validar la seguridad por medio de los tipos de datos | X | x | x | x | x | x |
| Names | * Validar que los nombres de clases y metodos sean apropiados con la funcionalidad que se espera de ellos | X | x | x | x | x | x |
| Patrones | Validar cuando sea possible, usar algún patrón | X | x | x | x | x | x |

1. Vista Web
2. Vista Consola
3. Controlador Web
4. Controlador Consola
5. Calculos Matematicos
6. Metodo Probe

**Code Review Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Gabriel Alberto Castillo Prada | Date | 21 febrer |
| Program | PSP2 | Program # | 5 |
| Instructor |  | Language | Java |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 |
| Completitud | Validar que el codigo cumpla toda la funcionalidad | X | x | x | x | x | x |
| Imports | Validar que los includes y paquetes se encuentren | X | x | x | x | x | x |
| Initialization | * Validar que todos los objetos puedan llegar inicializados * Controlar posibles NUllPointerException * No retornar valores nulos | X | x | x | x | x | x |
| Nombres | * Validar que los nombres sean consistentes con su funcionalidad * Validar que las varibales comiencen en minúscula * Validar que los métodos comiencen en mayuscula | X | x | x | x | x | x |
| Salidas | * Validar que las salidas sean amigables * Validar la ortografía de las salidas * Validar que las salidas muestren la información requerida | X | x | x | x | x | x |
| Exception | * Validar las excepciones que sean especificas * Controlar las excecpiones en la mayor parte de momentos | X | x | x | x | x | x |

1. Vista Web
2. Vista Consola
3. Controlador Web
4. Controlador Consola
5. Calculos Matematicos
6. Metodo Probe