

Postmortem Menú Maestros

30/03/2017

0.1

|  |  |
| --- | --- |
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# I.- Forma PSP Project Plan Summary.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
| **PSP3 Project Plan Summary - Program 10A** | | | | | | | | |
|  |  |  |  |  |  |  |  |  |
| Student | 24400073-Brenda Robles Antonio | |  |  |  | Date |  | **########** |
| Program | Multiple Regression | |  |  |  | Program# |  | 10A |
| Instructor | PEBM | |  |  |  | Language |  | C |
|  |  |  |  |  |  |  |  |  |
|  |  | **Plan** |  | **Actual** |  | **To Date** |  | **To Date%** |
| **Summary** | |  |  |  |  |  |  |  |
| LOC/Hour | | 41.51 |  | 9.98 |  | 25.77 |  |  |
| Planned Time | | 95 |  |  |  | 1402 |  |  |
| Actual Time | |  |  | 186 |  | 1706 |  |  |
| CPI (Planned/Actual Time) | | |  |  |  | 0.82 |  |  |
| % Reused | | 0.0 |  | 0.0 |  | 0.0 |  |  |
| % New Reused | | 0.0 |  | 0.0 |  | 0.0 |  |  |
| Test Defects/KLOC | | 2.92 |  | 0.00 |  | 2.67 |  |  |
| Total Defects/KLOC | | 26.24 |  | 96.77 |  | 32.09 |  |  |
| Yield % |  | 88.9 |  | 100.0 |  | 91.7 |  |  |
| % Appraisal COQ | | 7.2 |  | 9.5 |  | 7.7 |  |  |
| % Failure COQ | | 5.7 |  | 0.8 |  | 4.6 |  |  |
| COQ A/F Ratio | | 1.28 |  | 11.53 |  | 1.67 |  |  |
|  |  |  |  |  |  |  |  |  |
| **Program Size (LOC)** | | |  |  |  |  |  |  |
| Base(B) |  | **5** |  | **0** |  |  |  |  |
| Deleted(D) | | **0** |  | **0** |  |  |  |  |
| Modified(M) | | **0** |  | **0** |  |  |  |  |
| Added(A) |  | 66 |  | 31 |  |  |  |  |
| Reused(R) | | **0** |  | **0** |  | 0 |  |  |
| Total N&C (N) | | **66** |  | 31 |  | 374 |  |  |
| Total LOC(T) | | 71 |  | **31** |  | 726 |  |  |
| Total New Reused | | **0** |  | **0** |  | 0 |  |  |
| Total Object LOC(E) | | **21.62** |  | **31** |  | 345 |  |  |
| UPI (70%) | | **119** |  |  |  |  |  |  |
| LPI (70%) | | **13** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Time in Phase (min.)** | | |  |  |  |  |  |  |
| Planning | | 19 |  | 36 |  | 175 |  | 20.1 |
| ***High-level Design*** | | 0 |  | 34 |  | 34 |  | 3.9 |
| ***HLDR*** |  | 0 |  | 13 |  | 13 |  | 1.4 |
| Design |  | 31 |  | 44 |  | 267 |  | 30.7 |
| Design Review | | 3 |  | 10 |  | 34 |  | 3.9 |
| Code |  | 19 |  | 24 |  | 164 |  | 18.9 |
| Code Review | | 4 |  | 7 |  | 33 |  | 3.8 |
| Compile |  | 0 |  | 0 |  | 3 |  | 0.4 |
| Test |  | 5 |  | 1 |  | 37 |  | 4.3 |
| Postmortem | | 13 |  | 16 |  | 110 |  | 12.6 |
| Total |  | **95** |  | 186 |  | 871 |  | 100.0 |
| UPI (70%) | | **166** |  |  |  |  |  |  |
| LPI (70%) | | **25** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **PSP3 Project Plan Summary - Program 10A (Continued)** | | | | | | | | |
|  |  |  |  |  |  |  |  |  |
| Student | 24400073-Brenda Robles Antonio | |  |  |  | Date |  | **########** |
| Program | Multiple Regression | |  |  |  | Program# |  | 10A |
| Instructor | PEBM | |  |  |  | Language |  | C |
|  |  |  |  |  |  |  |  |  |
|  |  | **Plan** |  | **Actual** |  | **To Date** |  | **To Date%** |
| **Defects Injected** | |  |  |  |  |  |  |  |
| Planning | | 0.6 |  | 3 |  | 6 |  | 50.0 |
| ***High-level Design*** | | 0.0 |  | 0 |  | 0 |  | 0.0 |
| ***HLDR*** |  | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Design |  | 0.2 |  | 0 |  | 1 |  | 8.3 |
| Design Review | | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Code |  | 1.0 |  | 0 |  | 5 |  | 41.7 |
| Code Review | | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Compile |  | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Test |  | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Total Development | | 1.7 |  | 3 |  | 12 |  | 100.0 |
|  |  |  |  |  |  |  |  |  |
| **Defects Removed** | |  |  |  |  |  |  |  |
| Planning | | 0.4 |  | 3 |  | 5 |  | 41.7 |
| ***High-level Design*** | | 0.0 |  | 0 |  | 0 |  | 0.0 |
| ***HLDR*** |  | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Design |  | 0.2 |  | 0 |  | 1 |  | 8.3 |
| Design Review | | 0.2 |  | 0 |  | 1 |  | 8.3 |
| Code |  | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Code Review | | 0.8 |  | 0 |  | 4 |  | 33.3 |
| Compile |  | 0.0 |  | 0 |  | 0 |  | 0.0 |
| Test |  | 0.2 |  | 0 |  | 1 |  | 8.3 |
| Total Development | | 1.7 |  | 3 |  | 12 |  | 100.0 |
| After Development | | |  | **0** |  | **0** |  |  |
|  |  |  |  |  |  |  |  |  |
| **Defect Removal Efficiency** | | |  |  |  |  |  |  |
| Def/Hr - HLDR | | 0.00 |  | 0.00 |  | 0.00 |  |  |
| Def/Hr - DLDR | | 3.48 |  | 0.00 |  | 1.76 |  |  |
| Def/Hr - CDR | | 12.91 |  | 0.00 |  | 7.28 |  |  |
| Def/Hr - Compile | | 0.00 |  | 0.00 |  | 0.00 |  |  |
| Def/Hr - Test | | 2.31 |  | 0.00 |  | 1.61 |  |  |
| DRL(HLDR/UT) | | 0.00 |  | 0.00 |  | 0.00 |  |  |
| DRL(DLDR/UT) | | 1.51 |  | 0.00 |  | 1.09 |  |  |
| DRL(CDR/UT) | | 5.58 |  | 0.00 |  | 4.52 |  |  |
| DRL(Compile/UT) | | 0.00 |  | 0.00 |  | 0.00 |  |  |
|  |  |  |  |  |  |  |  |  |

# II.- Time Recording Log.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Fase | Fecha | Inicio | Fin | Delta | Comentarios |
| Plan | 03/24/17 | 12:14:25 | 12:50:46 | 36.4 | Terminé planeación |
| HLD | 03/24/17 | 12:15:12 | 12:49:26 | 34.2 | Terminé HLD |
| HLDR | 03/24/17 | 12:16:05 | 12:28:38 | 12.6 | Terminé HLDR |
| DLD | 03/24/17 | 12:16:39 | 13:00:42 | 44.1 | Terminé DLD |
| DLDR | 03/24/17 | 12:17:35 | 12:27:59 | 10.4 | Terminé DLDR |
| Code | 03/24/17 | 12:18:53 | 12:43:14 | 24.4 | Terminé codificación |
| CR | 03/24/17 | 12:21:32 | 12:28:49 | 7.3 | Terminé CR |
| Compile | 03/24/17 | 12:22:28 | 12:22:36 | 0.1 | Terminé compilación |
| Test | 03/24/17 | 12:33:27 | 12:34:51 | 1.4 | Terminé pruebas |
| PM | 03/24/17 | 14:12:41 | 14:28:15 | 15.6 | Terminé PM |

# III.- Defect Recording Log.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 10 | Requerimientos Menú Maestros | Planeación | Planeación | 0:02:00 | Error al declarar los requerimientos del módulo | 6 |
| 10 | Requerimientos Menú Maestros | Planeación | Planeación | 0:02:00 | Error al declarar las pruebas del módulo | 6 |
| 10 | Requerimientos Menú Maestros | Planeación | Planeación | 0:01:00 | Error de ortografía | 6 |
| 120 | Plan de pruebas | Ciclo 1 | Ciclo 1 | 0:00:30 | Error en el título | 7 |
| 120 | Plan de pruebas | Ciclo 1 | Ciclo 1 | 0:00:30 | Error en título control de versiones | 7 |
| 120 | Plan de pruebas | Ciclo 1 | Ciclo 1 | 0:00:30 | Error en índice | 7 |
| 10 | Planning Menú Maestros | Planeación | PM | 0:00:30 | Error en formato del nombre | 8 |
| 10 | Planning Menú Maestros | Planeación | PM | 0:00:30 | Falta de ortografía | 8 |
| 10 | Requerimientos Menú Maestros | Planeación | PM | 0:00:30 | Falta de ortografía | 8 |
| 10 | Functional Specification Template Menú Maestros | Diseño | PM | 0:00:30 | Error en el formato del nombre | 8 |
| 10 | Functional Specification Template Menú Maestros | Diseño | PM | 0:00:30 | Error en el tamaño de letra | 8 |
| 10 | Functional Specification Template Menú Maestros | Diseño | PM | 0:00:30 | Falta de ortografía | 8 |
| 10 | Logic Specification Template Maestros | Diseño | PM | 0:00:30 | Falta de ortografía en el nombre | 8 |
| 10 | Logic Specification Template Maestros | Diseño | PM | 0:00:30 | Error en la fecha | 8 |
| 10 | Operational Template Maestros | Diseño | PM | 0:00:30 | Error en el formato del nombre | 8 |
| 10 | Operational Template Maestros | Diseño | PM | 0:00:30 | Error en el tamaño de letra | 8 |
| 10 | State Specification Template Maestros | Diseño | PM | 0:00:30 | Falta de ortografía en el nombre | 8 |
| 10 | Revisión de Diseño Menú Maestros | DLDR | PM | 0:00:30 | Falta de ortografía en el nombre | 8 |
| 10 | Revisión de Diseño Menú Maestros | DLDR | PM | 0:00:30 | Error en el formato del nombre | 8 |
| 10 | HLD | HLD | PM | 0:00:30 | Falta de ortografía en el nombre | 8 |
| 10 | HLD | HLD | PM | 0:00:30 | Error en el formato del nombre | 8 |
| 10 | HLD | HLD | PM | 0:00:30 | Falta de ortografía | 8 |
| 10 | HLDR | HLDR | PM | 0:00:30 | Error en el formato del nombre | 8 |
| 10 | HLDR | HLDR | PM | 0:00:30 | Falta de ortografía en el nombre | 8 |
| 10 | Codificación | Codificación | PM | 0:00:30 | Falta de ortografía en el nombre | 8 |
| 10 | Revisión de Codificación Menú Maestros | CR | PM | 0:00:30 | Error de formato del documento | 8 |
| 10 | Revisión de Codificación Menú Maestros | CR | PM | 0:00:30 | Error de formato del documento | 8 |
| 10 | Compilación | Compilación | PM | 0:00:30 | Falta de ortografía en el nombre | 8 |
| 10 | Compilación | Compilación | PM | 0:00:30 | Falta de ortografía en la carpeta | 8 |
| 10 | Pruebas Menú Maestros | Pruebas | Pruebas | 0:00:30 | Error de formato en el nombre | 8 |
| 10 | Pruebas Menú Maestros | Pruebas | Pruebas | 0:00:30 | Error de formato | 8 |
| 10 | Pruebas Menú Maestros | Pruebas | Pruebas | 0:00:30 | Error de formato | 8 |

# IV.- Diseño.

# Functional Specification Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Student** | | | Brenda Robles Antonio | | **Date** | 12/03/17 |
| **Program** | | | Menú Maestros | | **Program #** | N/A |
| **Instructor** | | | PEBM | | **Language** | C |
|  | | | | | | |
| **Class Name** | | void Menu\_maestros() | | | | |
| **Parent Class** | | N/A | | | | |
|  | | | | | | |
| **Attributes** | | | | | | |
|  | **Declaration** | | | **Description** | | |
|  | Int opcion | | | Corresponde a la opción que el usuario eligirá. | | |
|  | | | | | | |
| **Items** | | | | | | |
|  | **Declaration** | | | **Description** | | |
|  | Alta\_Maestros() | | | Presenta el vínculo a la alta de maestros | | |
|  | Baja\_Maestros() | | | Presenta el vínculo a la baja de maestros | | |
|  | Modificaciones\_Maestros() | | | Presenta el vínculo a la modificación de maestros | | |
|  | printf() | | | Para imprimir directamente en la interfaz de usuario. | | |
|  | scanf() | | | Para leer datos de la interfaz de usuario. | | |

# Logic Specification Template

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student | Brenda Robles Antonio | | Date | 12/03/17 |
| Program | Menú maestros | | Program # | N/A |
| Instructor | PEBM | | Language | C |
| Object | N/A | | Function | Menu\_Maestros() |
| **INCLUDES:**  **TYPE DEFINITIONS:**  **Declaration:** | | #include <cstdio>  Using namespace std; | | |
|  | |  | | |

|  |  |
| --- | --- |
| **Reference:** |  |

|  |  |
| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | Imprime el menú maestros con todas sus opciones |
|  | Leer la opción del usuario |
|  | En caso de que sea 1 |
|  | Va a la función Alta\_Maestros() |
|  | En caso de que sea 2 |
|  | Va a la función Baja\_Maestros() |
|  | En caso de que sea 3 |
|  | Va a la función Modificaciones\_Maestros() |
|  | En caso de que sea 4 |
|  | Termina la función rompe el ciclo |
|  | Fin. |

# Operational Specification Template

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | Brenda Robles Antonio | **Date** | 12/03/17 |
| **Program** | Menu principal | **Program #** | N/A |
| **Instructor** | PEBM | **Language** | C |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Scenario Number** | **1** | **User Objective** | Seleccione ir al alta de maestros | |
| **Scenario Objective** | | Pasos para ir al alta de maestros | | |
| **Source** | **Step** | **Action** | | **Comments** |
| Usuario | 1 | Abrir el programa. | |  |
| Programa | 2 | Desplegar el menú Maestros | | Dando las opciones del menú. |
| Usuario | 3 | Ver el menú maestros | | Revisar las opciones posibles |
| Usuario | 4 | Introducir opción deseada 1 | | Elegir entre las opciones posibles |
| Programa | 5 | Leer opción del usuario | | Verificar que sea válida |
| Programa | 6 | Mandar al alta de maestros | | Dirige a la función de alta de maestros |
| Usuario | 7 | Ver pantalla de alta de maestros | | Presentar lo del módulo alta de maestros |
|  |  |  | |  |
|  |  |  | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Scenario Number** | **2** | **User Objective** | Seleccione ir a la baja de maestros | |
| **Scenario Objective** | | Pasos para ver la baja de maestros | | |
| **Source** | **Step** | **Action** | | **Comments** |
| Usuario | 1 | Abrir el programa. | |  |
| Programa | 2 | Desplegar el menú Maestros | | Dando las opciones del menú. |
| Usuario | 3 | Ver el menú maestros | | Revisar las opciones posibles |
| Usuario | 4 | Introducir opción deseada 2 | | Elegir entre las opciones posibles |
| Programa | 5 | Leer opción del usuario | | Verificar que sea válida |
| Programa | 6 | Mandar a la baja de maestros | | Dirige a la función de baja de maestros |
| Usuario | 7 | Ver pantalla de baja de maestros | | Presentar lo del módulo baja de maestros |
|  |  |  | |  |
|  |  |  | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Scenario Number** | **3** | **User Objective** | Seleccione ir a la modificación de maestros | |
| **Scenario Objective** | | Pasos para ver la modificación de maestros | | |
| **Source** | **Step** | **Action** | | **Comments** |
| Usuario | 1 | Abrir el programa. | |  |
| Programa | 2 | Desplegar el menú Maestros | | Dando las opciones del menú. |
| Usuario | 3 | Ver el menú maestros | | Revisar las opciones posibles |
| Usuario | 4 | Introducir opción deseada 3 | | Elegir entre las opciones posibles |
| Programa | 5 | Leer opción del usuario | | Verificar que sea válida |
| Programa | 6 | Mandar a la modificación de maestros | | Dirige a la función de modificación de maestros |
| Usuario | 7 | Ver pantalla de modificación de maestros | | Presentar lo del módulo modificación de maestros |
|  |  |  | |  |
|  |  |  | |  |

# State Specification Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Student | | Brenda Robles Antonio | | | Date | | 12/03/2017 |
| Program | | Menú Maestros | | | Program # | | N/A |
| Instructor | | PEBM | | | Language | | C |
|  | | |  | | | | |
| Menú principal | | | | | | | |
| **State Name** | | | | **Description** | | | |
| Inicio | | | | Inicia el programa. | | | |
| Alta maestros | | | | Se presentará el alta de maestros | | | |
| Baja maestros | | | | Se presentará la baja de maestros | | | |
| Modificaciones maestros | | | | Se presentará la modificación de maestros | | | |
| Salir | | | | Regresa al menú principal | | | |
|  | | | |  | | | |
| **Function/Parameter** | | | | **Description** | | | |
| printf() | | | | Imprime datos en la pantalla | | | |
| scanf() | | | | Lee datos de la pantalla | | | |
| opción | | | | opción que elegirá el usuario | | | |
| Menu\_Alumno() | | | | Presenta el alta de maestros | | | |
| Menu\_Maestros() | | | | Presenta la baja de maestros | | | |
| Menu\_Planes() | | | | Presenta la modificación de maestros | | | |
|  | | | |  | | | |
| **States/Next States** | | | | **Transition Condition** | | **Action** | |
| Inicio | | | |  | |  | |
|  | Menú maestros | | | True | | printf()-imprime el menu  scanf()- lee opción | |
| Menú principal | | | |  | |  | |
|  | Alta maestros | | | opción=1 | | Alta\_Maestros() | |
|  | Baja maestros | | | opción=2 | | Baja\_Maestros() | |
|  | Modificación maestros | | | opción=3 | | Modificaciones\_Maestros() | |
|  | Salir | | | opción=4 | | Fin. | |

# V.- Design CheckList.

**PSP2 Design Review Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Brenda Robles Antonio | Date | 22/03/2017 |
| Program | Menú maestros | Program # | N/A |
| Instructor | PEBM | Language | C |

|  |  |
| --- | --- |
| Purpose | To guide you in conducting an effective design review |
| General | - Review the entire program for each checklist category; do not attempt to review for more than one category at a time!  - As you complete each review step, check off that item in the box at the right.  - Complete the checklist for one program or program unit before reviewing the next. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Complete | Verify that the design covers all of the applicable requirements.  - All specified outputs are produced.  - All needed inputs are furnished.  - All required includes are stated. | MB  X  X  X | B | R | M |
| External Limits | Where the design assumes or relies upon external limits, determine if behavior is correct at nominal values, at limits, and beyond limits. |  |  |  |  |
| Logic | - Verify that program sequencing is proper.  Stacks, lists, and so on are in the proper order.  Recursion unwinds properly.  - Verify that all loops are properly initiated, incremented, and terminated.  - Examine each conditional statement and verify all cases. | X        X | X |  |  |
| Internal Limits | Where the design assumes or relies upon internal limits, determine if behavior is correct at nominal values, at limits, and beyond limits. |  |  |  |  |
| Special Cases | - Check all special cases.  - Ensure proper operation with empty, full, minimum, maximum, negative, and ero values for all variables.  - Protect against out-of-limits, overflow, and underflow conditions.  - Ensure “impossible” conditions are absolutely impossible.  - Handle all possible incorrect or error conditions. | X  X    X  X  X |  |  |  |
| Functional Use | - Verify that all functions, procedures, or methods are fully understood and properly used.  - Verify that all externally referenced abstractions are precisely defined. | X    X |  |  |  |
| System Considerations | - Verify that the program does not cause system limits to be exceeded.  - Verify that all security-sensitive data are from trusted sources.  - Verify that all safety conditions conform to the safety specifications. | X    X    X |  |  |  |
| Names | Verify that  - all special names are clear, defined, and authenticated  - the scopes of all variables and parameters are self-evident or defined  - all named items are used within their declared scopes |  | X  X  X |  |  |
| Standards | Ensure that the design conforms to all applicable design standards. | X |  |  |  |

# VI.- Programa Fuente.

/\*=========================================================\*/

/\*Autor: Brenda Robles Antonio \*/

/\*Componente: Menú Maestros \*/

/\*Fecha: 22/03/2017 \*/

/\*Descripción: Codificación que muestra el menú maestros\*/

/\*Versión: 0.1 \*/

/\*=========================================================\*/

/\*==========================================================\*/

/\* El programa contiene lo siguiente: \*/

/\* void menu\_maestros() \*/

/\* int main() \*/

/\*==========================================================\*/

#include <iostream>

#include <cstdio>

#include <cstdlib>

/\*\*\*Esta función se encarga de presentar el menú principal y redireccionar a la opcion que el usuario eligio\*\*\*/

void menu\_maestros()

{

char opcion;

do

{

system("cls");

printf(" °----------------------------------------------------------°\n");

printf(" | ============== Sistema Acad%cmico =============== |\n",138);

printf(" °----------------------------------------------------------°\n");

printf(" °----------------------------------------------------------°\n");

printf(" ! Introduce la seleccion de men%c: !\n\n",163);

printf(" ! 1) Alta Maestros !\n\n");

printf(" ! 2) Baja Maestros !\n\n");

printf(" ! 3) Modificaciones Maestros !\n\n");

printf(" ! 4) Volver al men%c principal !\n\n",163);

printf(" °----------------------------------------------------------°\n");

printf(" Opci%cn .-",162);

scanf("%c",&opcion);

switch(opcion)

{

case '1':

{

printf("Selecci%cn alta de maestros\n",162);

system("pause");

//alta\_maestros();

break;

}

case '2':

{

printf("Selecci%cn baja maestros\n",162);

system("pause");

//baja\_maestros();

break;

}

case '3':

{

printf("Selecci%cn modificiaciones maestros\n",162);

system("pause");

//modificaciones\_maestros();

break;

}

case '4':

{

printf("Regresando al men%c principal...\n",163);

system("pause");

break;

}

default:

{

printf("Opci%cn incorrecta...\n",162);

system("pause");

break;

}

}

}

while(opcion!='4');

}

int main()

{

menu\_maestros();

return 0;

}

# VII.- Code CheckList.

# Revisión codificación

**Code Review Checklist**

|  |  |  |  |
| --- | --- | --- | --- |
| Student | Brenda Robles Antonio | Date | 22/03/17 |
| Program | Menú Principal | Program # | N/A |
| Instructor | PEBM | Language | C |

|  |  |
| --- | --- |
| Purpose | To guide you in conducting an effective code review |
| General | - Review the entire program for each checklist category; do not attempt to review for more than one category at a time!  - As you complete each review step, check off that item in the box at the right.  - Complete the checklist for one program or program unit before reviewing the next. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Complete | Verify that the code covers all of the design. | MB | B | R | M |
| Includes | Verify that the includes are complete. | X |  |  |  |
| Initialization | Check variable and parameter initialization.  - at program initiation  - at start of every loop  - at class/function/procedure entry | X  X  X |  |  |  |
| Calls | Check function call formats.  - pointers  - parameters  - use of ‘&’ | X  X  X |  |  |  |
| Names | Check name spelling and use.  - Is it consistent?  - Is it within the declared scope?  - Do all structures and classes use ‘.’ reference? | X  X  X |  |  |  |
| Strings | Check that all strings are  - identified by pointers  - terminated by NULL | X  X |  |  |  |
| Pointers | Check that all  - pointers are initialized NULL  - pointers are deleted only after new  - new pointers are always deleted after use | X  X  X |  |  |  |
| Output Format | Check the output format.  - Line stepping is proper.  - Spacing is proper. | X  X |  |  |  |
| () Pairs | Ensure that () are proper and matched. |  |  |  |  |
| Logic Operators | - Verify the proper use of ==, =, ||, and so on.  - Check every logic function for (). | X  X |  |  |  |
| Line-by-line check | Check every line of code for  - instruction syntax  - proper punctuation |  | X  X |  |  |
| Standards | Ensure that the code conforms to the coding standards. |  |  |  |  |
| File Open and Close | Verify that all files are  - properly declared  - opened  - closed | X  X  X |  |  |  |

# VIII.- Reporte de resultados.

El template está vacío dado que no se especificaron pruebas para éste módulo.

|  |  |
| --- | --- |
| Nombre de la Prueba |  |
| Caso de Uso |  |
| Objetivo de la Prueba |  |
| Descripción de la Prueba |  |
| Test |  |
| Resultados Esperados |  |
| Capturas de pantalla |  |
| Estado caso de prueba |  |
| Errores obtenidos |  |
| Responsable de prueba |  |
| Comentarios |  |

# IX.- PIP

|  |  |  |
| --- | --- | --- |
| Menú Maestros | | |
| No. PIP | Descripción del Problema | Descripción de la propuesta. |
| 01 | Mala organización en mis tiempos, asigno un día y hora para hacer la actividad y no lo cumplo. | Asignar días y horas más reales de acuerdo a los días que se ven reflejados en mi logT como más productivos. |
|  |  |  |
| Nombre Módulo | | |
| No. PIP | Descripción del Problema | Descripción de la propuesta. |

# X.- Size Estimating Template

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |
| **Size Estimating Template** | | | | | | | | | | |
| Student | Brenda Robles Antonio | | | | | |  | Date |  | 21/11/2016 |
| Instructor | PEBM | | | | | |  | Program# |  | 10A |
|  |  |  |  |  |  |  |  |  |  |  |
| **BASE PROGRAM LOC** |  |  |  |  |  |  |  | ESTIMATE |  | ACTUAL |
| BASE SIZE (B) => |  |  |  |  |  |  |  | **5** |  | **0** |
| LOC DELETED (D) => |  |  |  |  |  |  |  | **0** |  | **0** |
| LOC MODIFIED (M) => |  |  |  |  |  |  |  | **0** |  | **0** |
| **OBJECT LOC** |  |  |  |  |  |  |  |  |  |  |
| BASE ADDITIONS: |  | TYPE |  | METHODS |  | REL. SIZE |  | LOC |  | LOC |
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| (BA) subtotal from page 2 |  |  |  |  |  |  |  | 0.0 |  | 0 |
| TOTAL BASE ADDITIONS (BA) |  |  |  |  |  |  |  | 0.0 |  | 0 |
| NEW OBJECTS: |  | TYPE |  | METHODS |  | REL. SIZE |  | LOC | **\*** | LOC |
| **Menu\_Maestros()** |  | **I/O** |  | **1** |  | **VL** |  | **21.6** |  | **28** |
| **int\_main** |  | **I/O** |  | **1** |  | **VS** |  |  |  | **3** |
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| (NO) subtotal from page 2 |  |  |  |  |  |  |  | 0.0 |  | 0 |
| TOTAL NEW OBJECTS (NO) |  |  |  |  |  |  |  | 21.6 |  | 31 |
| **REUSED OBJECTS** |  |  |  |  |  |  |  | LOC |  | LOC |
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| (R) subtotal from page 2 |  |  |  |  |  |  |  | 0.0 |  | 0 |
| REUSED TOTAL (R) |  |  |  |  |  |  |  | 0.0 |  | 0 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Size |  | Time |
| Estimated Object LOC: |  |  |  | E = BA+NO+M | | |  | 21.62 |  |  |
| Regression Parameter: |  |  |  | *B*0 |  |  |  | 58.62 |  | 68.10 |
| Regression Parameter: |  |  |  | *B*1 |  |  |  | 0.34 |  | 1.26 |
| Estimated New and Changed LOC: | |  |  | N = *B*0 +  *B*1` \* E | | |  | 65.9 |  |  |
| Estimated Total LOC: |  |  |  | T = N + B - D - M + R | | |  | 70.9 |  |  |
| Estimated Total New Reuse (sum of \* LOC): | | | | |  |  |  | 0 |  |  |
| Estimated Total Developent Time: |  |  |  | Time = *B*0 +  *B*1` \* E | | | |  |  | 95.3 |
| Prediction Range: |  |  |  | Range |  |  |  | 53.2 |  | 70.6 |
| Upper Prediction Interval: |  |  |  | UPI = N + Range | | |  | 119.1 |  | 165.9 |
| Lower Prediction Interval: |  |  |  | LPI = N - Range | | |  | 12.7 |  | 24.7 |
| Prediction Interval Percent |  |  |  |  |  |  |  | 70% |  | 70% |
| Method Selected |  |  |  |  |  |  |  | B |  | B |
| R^2 |  |  |  |  |  |  |  | 0.10 |  | 0.45 |
|  |  |  |  |  |  |  |  |  |  |  |
| **Size Estimating Template (continued)** | | | | | | | | | | |
| Student | Brenda Robles Antonio | | | | | |  | Date |  | 21/11/2016 |
| Instructor | Jorge R. Aguilar Cisneros | | | | | |  | Program# |  | 10A |
|  |  |  |  |  |  |  |  |  |  |  |
| **OBJECT LOC** |  |  |  |  |  |  |  | ESTIMATE |  | ACTUAL |
| BASE ADDITIONS: |  | TYPE |  | METHODS |  | REL. SIZE |  | LOC |  | LOC |
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| SUBTOTAL BASE ADDITIONS (BA) => | | |  |  |  |  |  | 0.0 |  | 0 |
| NEW OBJECTS: |  | TYPE |  | METHODS |  | REL. SIZE |  | LOC | \* | LOC |
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| SUBTOTAL NEW OBJECTS (NO) => | | |  |  |  |  |  | 0.0 |  | 0 |
| **REUSED OBJECTS** |  |  |  |  |  |  |  | LOC |  | LOC |
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| SUBTOTAL REUSED (R) => |  |  |  |  |  |  |  | 0.0 |  | 0 |

# XI.- Task and Schedule



