

Logic Specification Template

20/03/2017

0.3

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**Control De Versiones**

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| --- | --- | --- | --- | --- |
| Nombre Del Archivo | Versión | Fecha | Autor | Comentarios |
| Csoft-Diseño\_Logic\_Specification\_Template\_Alta-De-Planes-200317.docx | 0.1 | 20/03/17 | GVV | Creación Del Documento |
| Csoft-Diseño\_Logic\_Specification\_Template\_Alta-De-Planes-200317.docx | 0.2 | 26/03/17 | GVV | Modificación del Diseño considerando ya las inserciones en la base de datos. |
| Csoft-Diseño\_Logic\_Specification\_Template\_Alta-De-Planes-200317.docx | 0.3 | 29/03/17 | GVV | Corrección del formato y de errores ortográficos |
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**Table C72 Logic Specification Template**

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| Student | Guillermo Vivaldo Vazquez | Date | 26/03/2017 |
| Program | Alta De Planes | Program # |  |
| Instructor | Patricia Eréndira Benavides Muratalla | Language | C |
| Object |  | Function |  |

INCLUDES:

#include <stdio.h>

#include<stdlib.h>  
#include<cstdlib>

#include<string.h>

#include “sqlite3.h”

TYPE DEFINITIONS:

|  |  |
| --- | --- |
| **Declaration:** | void query\_planes() |
| **Reference:** | Functional template |
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| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | char \*sql |
|  | char \*err |
|  | int rc |
|  | const char\* data = "Datos Planes" |
|  | asigna a sql=”SELECT \* FROM PLANES WHERE Id\_Pl =’”\id\_plan”’);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, (void\*)data, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |
|  | data = "Con las siguientes materias"; |
|  | asigna a sql=”SELECT \* FROM POSEE WHERE Id\_Plan =’”\id\_plan”’);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, (void\*)data, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |

TYPE DEFINITIONS:

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| --- | --- |
| **Declaration:** | Alta\_planes() |
| **Reference:** | Functional template |
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| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | string id\_plan |
|  | string nombre |
|  | string fecha |
|  | Int num\_semestes |
| Int | Int num\_materias, i=0, j=0; |
|  | int status=1 |
|  | mientras status != 0 |
|  | imprime menu para pedir datos al usuario |
|  | lee id\_plan |
|  | lee nombre |
|  | lee fecha |
|  | lee num\_semestres |
|  | se imprimen los datos leídos y se preguntan si son     correctos 0)si 1)no |
|  | leer num\_semestres |
|  | Hacer mientras i<=num\_semestres |
| impr | Imprimir ¿Cuántas materias se le asiganara al semestre i? |
|  | Leer num\_materias |
|  | Hacer mientras j<=num\_materias |
|  | se llama a la función insert\_mtr\_plan(id\_plan,         id\_materia, semestre) |
|  | se llama a la función query\_maestros() y se muestra los datos introducidos. |

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| **Declaration:** | Alta\_materias |
| **Reference:** | Functional template |
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| Logic reference numbers | Program logic, in pseudocode |
| 1 | char \*sql |
|  | char \*err |
|  | int rc |
|  | asigna a sql=”INSERT INTO MATERIAS (Id\_Materia, Nombre) “ \ “VALUES (‘“ \id\_materia \ ”’,’” \ nombre \ ”’);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, 0, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |

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| **Declaration:** | Asignación\_materia() |
| **Reference:** | Functional template |
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| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | char \*sql |
|  | char \*err |
|  | asigna a sql=”INSERT INTO POSEE (ID\_Plan, ID\_Materia, Semestre) “ \ “VALUES (‘“ \ id\_plan ”’,’” \ id\_materia ”’,’” \ semestre “‘);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, 0, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |

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| --- | --- |
| **Declaration:** | Int\_callback () |
| **Reference:** | Functional template |
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| Logic reference numbers | Program logic, in pseudocode |
| 1 | int i |
|  | imprime en pantalla con printf( "%s:\n ", (const char\*)data); |
|  | para i=0 mientras i<argc en i++ |
|  | printf("%s = %s\n", azColName[i], argv[i] ? argv[i] : "NULL"); |
|  | printf(”\n”); |
|  | return 0; |

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| **Declaration:** | Int\_main () |
| **Reference:** | Functional template |
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| **Logic reference numbers** | **Program logic, in pseudocode** |
| 1 | INICIO |
| 2 | Alta\_planes(); |
| 3 | System(“pause”); |
| 4 | Return 0; |
| 5 | FIN |