**Program Specification 9.1: Query Database for 9: Schedule Shift (LIBRARY)**

Module\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: Query Database

Purpose: This module simply queries the database for shift entries.

Programmer:

Date due: 13/03/2020

Languages:

* PHP
* SQL

Events:

|  |  |  |  |
| --- | --- | --- | --- |
| Input Name | Type | Used by | Notes |
| Database Connection | SQL | 9.1, 9.2, 9.3 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Output Name | Type | Used by | Notes |
| Query Object | PHP, SQL | 9.2 |  |

Pseudocode:

tryConn(){

$conn = new [mysql connector]($EdenbridgeServer, $dbAccessAccount, $password)

If ($conn->connect\_error){

Die(“Connection failed”

}  
}

prepStatement($statementType){ // For Process 9, this will be cShift for variable

switch{

case cWorker // Create Worker

{ Define statement for creating worker form}

Case uWorker // Update Worker

{ Define statement for updating worker form}

Case cShift // Create Shift

{ Define statement for creating shift form}

If ($\_POST[‘recShift’] == true){

{ Define statement for recurring shift entry}

}

Case uShift // Update Shifts

{ Define statement for updating shifts}

Case uRec // Update Recurring

{ Define statement for updating recurring shift form}

Case cDep // Create Department

{ Define statement for create department form}

Case uDep // Update Department

{ Define statement for update department form}

Case sDep // Select Departments

{ Define statement for select department form}

Case sWorker // Select Department

{ Define statement for select worker form}

Case sShift // Select Shift

{ Define statement for select shift form}

Case sRec // Select Recurring Shift

{ Define statement for select recurring shift form}

// This is repeated for rest of case statements

}

executeStatement($case, $\_variables\_$){

$sqlStatement = bind\_statement(“s”, $\_variables\_$);

$sqlStatement->execute();

}

**Program Specification 9.2: Make Shift for 9: Create Shift**

Module\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: Make Shift

Purpose: Creates the statement to schedule a shift.

Programmer:

Date due: 13/03/20

Languages:

* PHP
* SQL
* HTML

Events:

|  |  |  |  |
| --- | --- | --- | --- |
| Input Name | Type | Used by | Notes |
| Query Object | PHP, SQL | 9.2 |  |
| Shift Details | SQL | 9.2 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Output Name | Type | Used by | Notes |
| Prepared Statement | SQL, PHP | 9.3 |  |

Pseudocode:

$shiftStartTime = $row[‘shift\_sched\_start’]; // This is repeated for all variables returned by the form

prepareStatement(cShift);

Other:

**Program Specification 9.3: Commit to Database for 9: Create Shift**

Module\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: Commit Shift Info

Purpose: Commits the new shift to database.

Programmer:

Date due: 13/03/20

Languages:

* PHP
* SQL

Events:

|  |  |  |  |
| --- | --- | --- | --- |
| Input Name | Type | Used by | Notes |
| Prepared Statement | PHP, SQL | 9.3 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Output Name | Type | Used by | Notes |
| SQL Statement | SQL | Database |  |

Pseudocode:

executeStatement($prepStatement);

Other: