Lab Machine Interfacing steps and application instructions

**Overview:**

The existing version of Interfacing which we installed at BCL has to be improved to cater to new set of conditions. New refined version will have local settings for remote tests ( olive Database) for processing and parsing to all happen on local computer. Its only when the final data packet is ready its get transported out to olive Database system with appropriate machine and locations ID for it be identified accordingly.

This windows application will contain some setting tables which used in configuration of lab investigation, Machine info, Attribute info and local data base access to communicate with olive cliq database. Using these settings application will send some complied data to olive cliq database.

**Create tables which contain following fields**

**Table one:**id,Branch\_id, machine\_id,record\_duration(these two fields are input and user will add values from cliq database). Record duration will be in number. It’s a day’s, systemwill auto delete data from table 4 after x number of days.

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Branch\_id** | **Machine\_id** | **Record\_duration** |
| 1 | 290 | 5269 | 7 |

**Table two:**id,branch\_id,test\_id,test\_name(it can be more than one test performed on one machine. In this case user can add more than one test id. These test ids will defined by cliq database).

|  |  |  |  |
| --- | --- | --- | --- |
| **id** | **Branch\_id** | **Test\_id** | **Test\_name** |
| 1 | 290 | 58 | CBC |
| 2 | 290 | 73 | X Blood test |

**Table Three:**id,branch\_id,Test\_id, machine\_attribute\_code, cliq\_attribute\_code. (It’s a configuration to map machine attributes with cliq database attributes.) on win application a form needed which can store more this information in database.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **id** | **branch\_id** | **test\_id** | **machine\_attribute\_code** | **cliq\_attribute\_code** |
| 1 | 290 | 58 | rbc | 458 |
| 2 | 290 | 58 | wbc | 758 |
| 3 | 290 | 73 | uriea | 296 |

**Table Four:**branch\_id,machine\_id,order\_id,date\_time,att\_code\_results,status

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Branch\_id** | **Machine\_id** | **Order\_id** | **Date\_time** | **Att\_code\_result(json)** | **status** |
| 290 | 529 | 55698 | 2017-07-10 13:25:22 | [{56:25},{75:ABC},{589:3.65},{586:txt}] | N |
| 290 | 529 | 53684 | 2017-07-10 15:21:10 | [{56:25},{75:ABC},{589:3.65},{586:txt}] | N |
| 290 | 529 | 53657 | 2017-07-10 15:21:10 | [{56:25},{75:ABC},{589:3.65},{586:txt}] | N |

**Functional Process:**

**Step 1:**

When application will get data from machine like (order no, date\_time, machine code, result).Then application will compare machine code with table three. and create record with following data for example:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Branch\_id** | **Machine\_id** | **Order\_id** | **Date\_time** | **Att\_code\_result(json)** | **status** |
| 290 | 529 | 55698 | 2017-07-10 13:25:22 | [{56:25},{75:ABC},{589:3.65},{586:txt}] | N |
| 290 | 529 | 53684 | 2017-07-10 15:21:10 | [{56:25},{75:ABC},{589:3.65},{586:txt}] | N |
| 290 | 529 | 53657 | 2017-07-10 15:21:10 | [{56:25},{75:ABC},{589:3.65},{586:txt}] | N |

**Step 2:**

When data will insert in table 4 in above mentioned form then a system services will run to send data to cliq database. Application will call just a web service with this parameter and insert in cliqdatabase and if web service response will successful then application will update status with ‘Y’ in table four.

This process will help in case of internet distortion. Whenever internet connected previous data which was not posted due to internet disconnection will be post and no data will be lost.