**Program Specification for UOM (Unit of Measurement**

Objective : To create, Edit, Delete and Undelete for Unit of Measurement (UOM)

Usage : UOM is used for procurement, inventory , issues incl. sales and return.

Table Name : UOM\_Master

Table Structure :

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | UOM\_Code | Alphanumeric | 10 | Auto generated/Manual |
| 2 | UOM\_Description | Varchar | 50 | Min 5 Characters |
| 3 | UOM\_Abbreviation | Alphanumeric | 10 | Not Null |
| 4 | UOM\_Precission | Alphanumeric | 1 | Mandatory |
| 5 | UOM\_Key | Alphanumeric | 10 | Auto generated |
| 6 | Delete Flag | Logical | 1 |  |

*Code(M) :* This field is mandatory . This code shall be auto generated if the user selected Auto generation in Document Master else the user can enter the document no. if UOM\_Code is auto generated the no shall be generated from last no of the last record of UOM\_Master along with suffix or prefix given in Document Master for UOM\_Master. This code shall be generated at the time of saving. Incase of manual the user can enter any code he/she wishes.

For example : if the last record of UOM\_Master shows UOM\_Code =’UM0000001901’ then the no shall generate as ’UM0000001902’ .

*Description :* This field is mandatory. User can enter a meaningful description which shall be maximum 50 characters . Only Alphabets are allowed. For example “Kilogram”, “Milli Litre” , Kiloliter etc

*Abbreviation:* This field is Mandatory. Here the user can enter a meaningful abbreviation of the Unit Description “ For example for Kilogram the abbreviation is “Kg.” , for Kiloliter the abbreviation is “Kltr” etc. Mostly this field is used for display and printing purpose.

*Precision :* This filed is mandatory. This field is used for declaring how many digits after decimal points. For example for Kg the decimal points may be required 3 digits like 3.250 Kg, for bottle, box may be no decimal points I,e 1, 40 , 50 etc. Hence the precision will be 0 .

*Key :* This field is an internal key which shall be an serial no. This field shall not be available in the form and used only internally and updated in table. However this will be referred for all purpose. Hence this field is playing as a primary key for all purposes.

The form shall have a upper menu item which shall be available at the top of the form. The menu items shall be

1. Back
2. Create a record
3. Edit
4. Delete
5. Undelete
6. Refresh
7. Save
8. Update

Display of menu items : As when the user select Unit of Measurement from left panel menu , all the header menu buttons shall be displayed and wait for the user to choose one button.

Functionality of menu items

Back : This button shall be always enabled during the data entry in the form. If the user clicks this button the following popup shall display

Quitting this form , you will loose data what you have entered .Do you want to save ?

OK

Cancel

On Button Click Ok : The record will be saved after validation of all fields it means if all entries over and validated then only record will be saved and go back to main menu.

On Button click Cancel : The screen will be cleared all data and go back to main menu.

On select Create a Record menu : the header menu will be changed and only the following buttons will be displayed

1. Back
2. Create a Record
3. Save
4. Refresh

And UOM form will be displayed and cursor shall be appear at Code , if the selection is manual in document master else it will be appear in Description.

On select edit menu : the header menu will be changed and only the following buttons will be displayed

1. Back
2. Edit
3. update
4. Refresh

And the cursor will wait at Select UOM in drop down menu where the delete Flag =”False”. Once the select the UOM system will fetch the record from the table and appear in form and open for editing. User can change the code also. During any change the validation shall be carried as usual for all the fields and once user clicks update , the record will be saved along with changes.

On select delete menu : the header menu will be changed and only the following buttons will be displayed

1. Back
2. delete
3. update
4. Refresh

And the cursor will wait at Select UOM in drop down menu where the delete flag = “False”. Once the select the UOM system will fetch the record from the table and appear in form and open for viewing (user can not edit here). Once the record is viewed by the user , he/she can click update in menu. Once user clicks update system shall update the Delete flag by True.

On select Undelete menu : the header menu will be changed and only the following buttons will be displayed

1. Back
2. Undelete
3. update
4. Refresh

And a grid with all records where delete flag = “True” shall be shown along with a check box. User can select the records to be undeleted by clicking the check box and then clck the update button. Once user clicks update button, system shall update the delete flag as “ False”

Validation :

1. UOM Code :

In case of manual

* it should be mandatory
* It should not have any special characters
* In between there should not be any space
* Minimum one character
* Maximum 10 Characters

In case of Auto generation

* Read document Master and check whether any prefix or prefix has been entered by user for UOM master
* If Prefix is available generate the code as “<prefix>+<Last no + 1 of the last record of UOM> for example if the prefix is UM and the last no of UOM is 00000056 the no to be generated for the current record is UM00000057 when the user click save button.

1. Description
   1. it should be mandatory
   2. It should not have any special characters
   3. Minimum three character
   4. Maximum 50 Characters
2. Abbreviation
   1. it should be mandatory
   2. It should not have any special characters
   3. In between there should not be any space
   4. Minimum two character
   5. Maximum 10 Characters
3. Precision
   1. it should be mandatory
   2. It should be numeric
   3. Maximum 1 Character

Flow Chart – Create Record

Start

No

No

No

No

Yes

Yes

Yes

Yes

Yes

Yes

Refresh Data

Insert a Record

Error Message

Is Valid ?

Error Message

Enter Precision

Is Valid ?

Enter Abbreviation

Error Message

Is Valid ?

Enter Description

Error Message

Is Valid ?

Enter Code

Is UOM manual ?

Is Create Record ?

Select a button

Flow Chart Edit Record

Start

Is Edit ?

Select a button

Yes

Select UOM

Modify Description

Refresh Data

Update the Record

Error Message

Error Message

Modify Precision

Modify Abbreviation

Error Message

No

No

Yes

Yes

No

Is Valid ?

Yes

Is Valid ?

Is Valid ?