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## Domestic Money Monitoring System

# DMMS USER MANUAL

# User Guide

| Central Bank of Egypt  Domestic Money Monitoring System | Visit CBE web site to retrieve a User Guide Copy  http://cbe.org.eg/public/DMMS_UserGuide.pdf |
|---|---|

## USER MANUAL
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## 1.  SYSTEM OVERVIEW

Domestic Money Monitoring System "DMMS" is an online-automated web based system providing efficient, secure and accurate flow of data from the market to CBE, as well as enhancing the level of analysis achieved by generating a variety of diverse Business reports. DMMS Contains 3Sub-systems: **Funds, Interbank and Interest Rates**.

## 2.  SYSTEM SUMMARY

- The System is managing Input and Output Reports of Funds, Interbank and Interest Rates. Each of those will be managed separately.
- Banks must adhere to the time and frequency of sending the Input Reports.
- The Uploaded Input report must be exactly similar to the designed template executed specially for DMMS and described in the Instruction Manual
- The DMMS Processes are triggered by 3 time parameters:
  - **1- Opened Business Day**:
    - ➢ **FUNDS** and **INTEREST RATES**: Once CBE opens a business day for funds and/or Interest rates, banks Reporters / Reviewers are allowed to start uploading / confirming the input report files, only for the opened sub-system and till Cut-off time.
    - ➢ **INTERBANK:** Once CBE opens a business day for Interbank, banks Reporters can start uploading the input file while Bank Reviewers are not allowed to Confirm/ reject the file before the _fulfillment of the  2 following conditions_ :
      - **A.** All banks have successfully uploaded their Interbank Input report files.
      - **B.** The Cut-off time is exceeded.

  - **2- Cut-Off time**:
    - ➢ At Cut-off time, the reporting process is terminated and **DMMS** will not accept any Input File upload/Replace but the Confirmation Process will still be open for banks reviewers to confirm / Reject the uploaded files for all opened sub-systems till business day closure.

  - **3- Closed Business Day**:
    - ➢ Once the business day is closed for a specific Sub-system, it can not be accessed by banks.

### 2.1.  User Access Levels

To ensure the accuracy of data sent to CBE, it is mandatory to report via 2 levels:
- **1- Bank Reporter**          : **DMMS** profile enabling Banks users to upload / Replace
                                 The input report file on the **DMMS**.
- **2- Bank Reviewer**          : **DMMS** profile enabling Banks users to confirm / Reject
                                 The uploaded input report file.

A third user inside the Bank will be responsible of assigning the above privileges to the bank's users on each subsystem while complying with CBE rules and procedures:

3- **Bank Administrator** : **DMMS** profile enabling Banks users to assign/Remove users (already registered on the **DMMS** (by CBE-operators) to/from the above mentioned access levels. *(Review process in 2.2)*

## 2.2. User Creation and assigning access levels Process

- Banks must provide CBE with all the employees' names and usernames (minimum 3 users, One for each access level) required having access to the **DMMS** by filling the "**DMMS-User Creation**" template. The required template can be downloaded from http://cbe.org.eg/public/DMMS_UserCreationtemplate.pdf

- **CBE-DMMS OPERATOR** will create the required usernames for each bank according to the received templates.

- Each **BANK ADMINISTRATOR** will assign each user to a role on a specific subsystem (Bank Reporter-Subsystem or Bank Reviewer-Subsystem) while complying with CBE announced rules and procedures.

## 2.3. Contingencies and Alternate Modes of Operation

If any Technical or communication problem occurs disabling the bank reporter from using the system to report the file, CBE information technology technical support could be contacted for help through:

To get CBE Information Technology technical support, please follow the following contacts:

Fax.         +202  25976020
Tel.         +202  27701444
Email        cbe-ITsupport@cbe.org.eg

If the Problem still exist due to any outstanding factors, CBE-Operator must be contacted, early enough before cut-off time, to get permission to send a soft copy of the input report file (according to the announced structured formats into the DMMS-technical instruction manual) by e-mail using the following contacts:

Tel.         +202  2770-1616
Email        cbe-DMUsupport@cbe.org.eg

Pls. follow the latest announced procedures always from CBE regarding technical support (a soft copy can be retrieved from the internet URL http://cbe.org.eg/public/DMMS_UserGuide.pdf ).

### 2.4. Reporting Business Cycle Overview:

➢ **Open Business Day**
Once a subsystem (FUNDS, INTEREST RATES, INTERBANK) status on the DMMS is **OPEN** *(as illustrated in 3.1)*, the reporting process will start.

➢ **Reporting Process – UPLOADING/REPLACING**

Bank reporter uploads the Input Report file for the opened sub-system (Using the Upload / Replace File Function) as per the record description described in the Technical Instruction Manual delivered to banks *(Templates are available in Appendix 5.C)*. This can be done till Cut-off time.

One of the following 2 scenarios will occur while uploading the file:
   ✓ *File is rejected* by the system: Bank reporter check the error message, make the required corrections and Upload the Input file again.
   ✓ *File is accepted* by the system and successfully uploaded.

Bank Reporters are allowed to upload/replace the input file as long as time didn't exceed Cut-off time, no matter what the file status is. *(Valid, Not Valid, Accepted, Rejected)*

➢ **Reporting  Process – CONFIRMING**

**For FUNDS and INTEREST RATES Sub-systems ONLY**:
Once the file is successfully uploaded, Bank Reviewer reviews and Confirm or Reject the Input file uploaded by the Bank Reporter Using the **Confirm/Reject File** Function. This function can still be done after cut-off time and till the business day is closed.

   ✓ If the input File is confirmed, File is sent to CBE.
   ✓ If the Input File is Rejected, Bank reporter will replace the Input file with a new one using the **Replace File** Function as long as Cut-off time is not exceeded.

**For INTERBANK Sub-system:**
Bank Reviewers review and confirm or Reject the Input file uploaded by the Bank Reporter Using the **Confirm/Reject File** Function after *fulfillment of the following 2 conditions:*
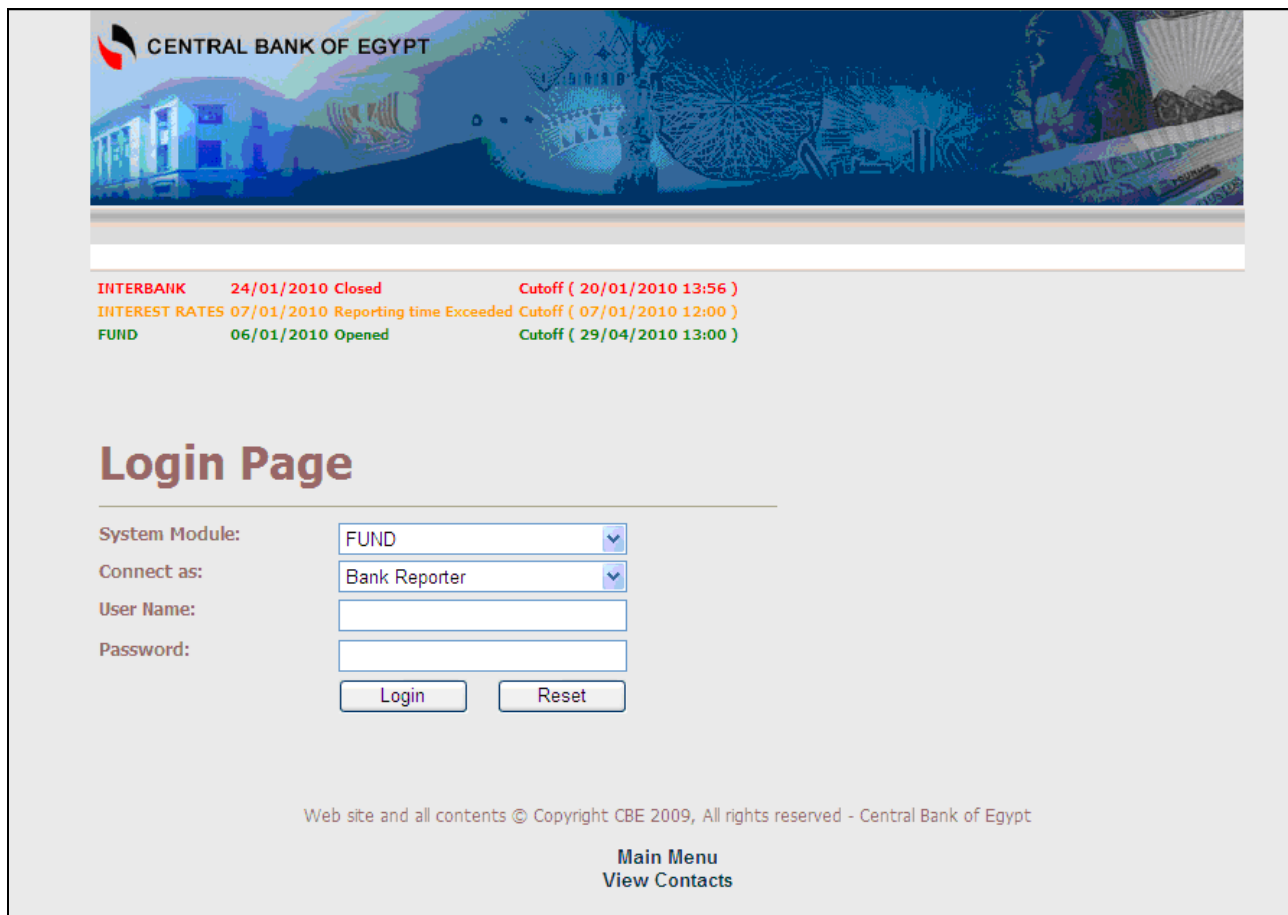
   **A.** All banks have successfully uploaded their Interbank Input report files.
   **B.** The Cut-off time is exceeded.

## 3. GETTING STARTED

The DMMS can be accessed using the following URL:
**http://DMMS.extra.cbeapplications.biz/DMMS/loginpage.aspx**

### 3.1. Logging On



1- Select the System Module: Fund, Interbank or Interest rates from "System Module" field.
2- Select your role on the chosen module: Bank Reviewer, Bank Reporter or Bank Administrator in the "Connect as" field.
3- Enter your username (Previously sent to CBE) in the "username" field.
4- Enter Your Password in the "Password" field.
5- Select the System module: Fund, Interbank or Interest rate from "System Module" field.
6- Select your role on the chosen module: Bank Reviewer, Bank Reporter or Bank Administrator in the "Connect as" field.
7- Press "Log-in"

➢ **Note that each subsystem's status will be displayed in the upper left labels on all pages as follows:**
**Open:** the mentioned module is open for the respective day. You can upload and Review Input file.
**Closed:** the mentioned module is closed and can not be accessed by banks.
**Reporting Time exceeded:** The mentioned module is still open but cut-off time is exceeded. No upload will be allowed but Bank's Reviewers can confirm the file.
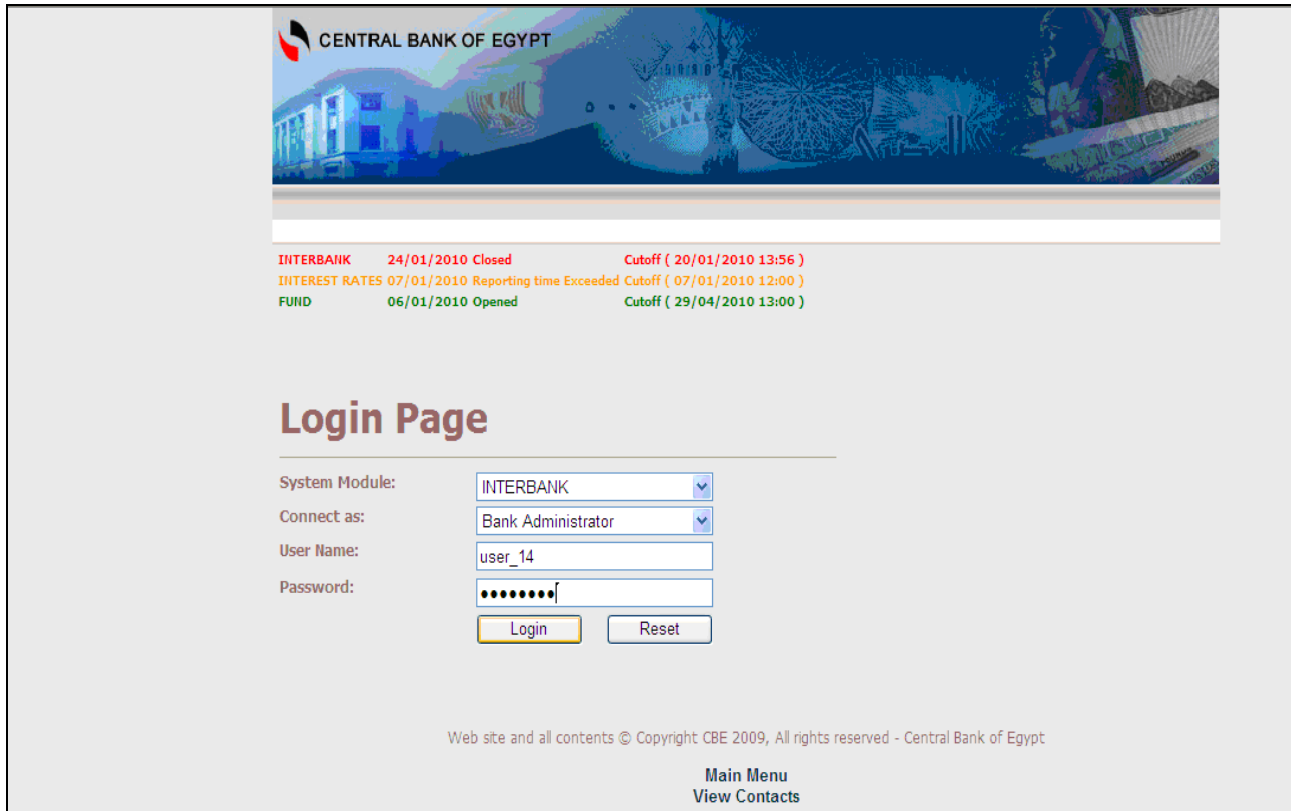
### 3.2. Logging on for the first time
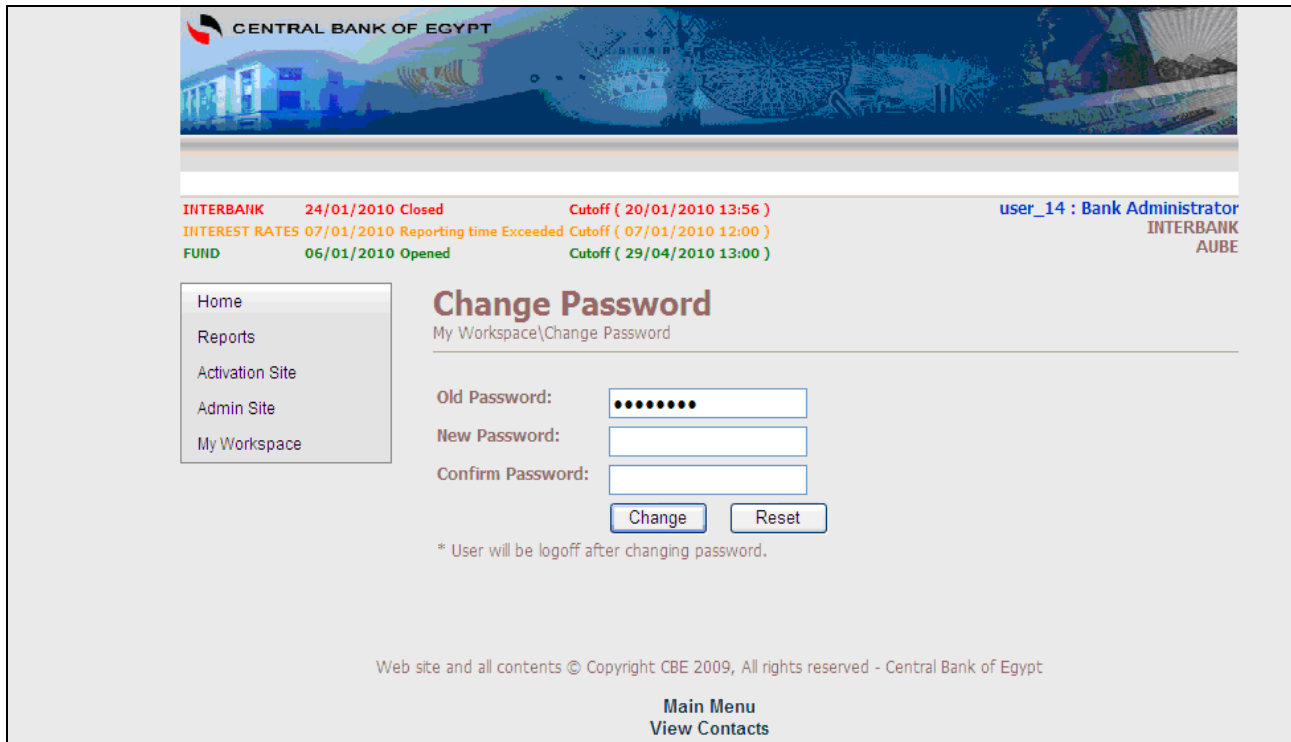
If this is your first time on the DMMS, you will be required to change the preset automatic password as follows:



1- Select the System Module: Fund, Interbank or Interest rates from "System Module" field.

2- Select your role on the chosen module: Bank Reviewer, Bank Reporter or Bank Administrator in the "Connect as" field.

3- Enter your username (Previously sent to CBE) in the "username" field.

4- A preset password will automatically appear in the "Password" field.

5- Press "Log-in"

You will be automatically redirected to the following 'Change Password' page:

6- The preset password will automatically appear in "Old Password" field.
7- Enter Your New Password in "New Password" field following CBE's complexity Standards.

Password length should be at least 8 Characters, and must contain at least:
- 1 Digit (from 0 to 9)
- 1 UPPER CASE Letter (from A to Z)
- 1 LOWER CASE Letter (from A to Z)
- 1 Symbol  : | \ > <  ! @ # $ % ^ & *  (  )){ } /  ?(

8- Re-enter your new password in "Confirm Password" field.
9- Press "Change".

### 3.3. System Menu

Once you're logged in, the following home page will appear.
The Functions Menu on the left side will change depending on the user's credentials on the **DMMS**.
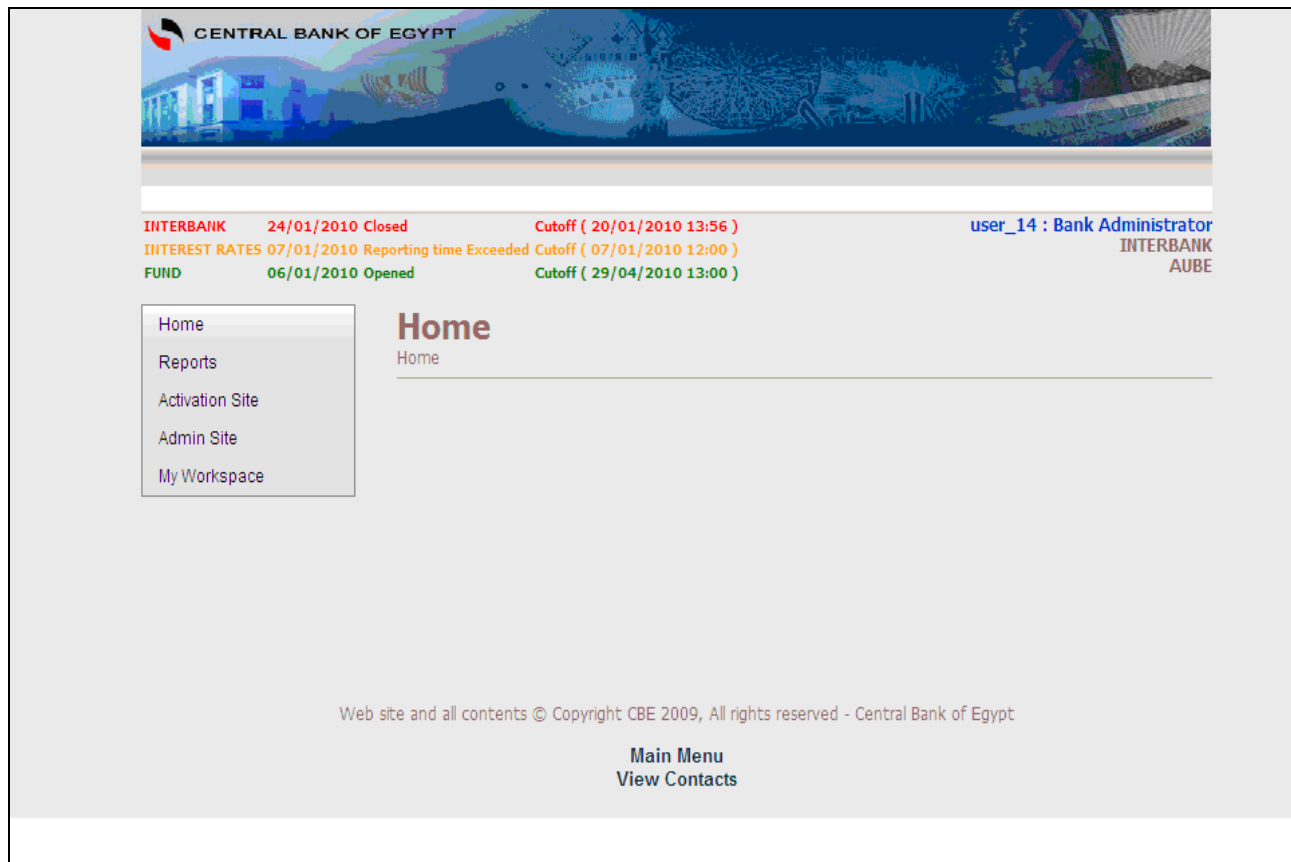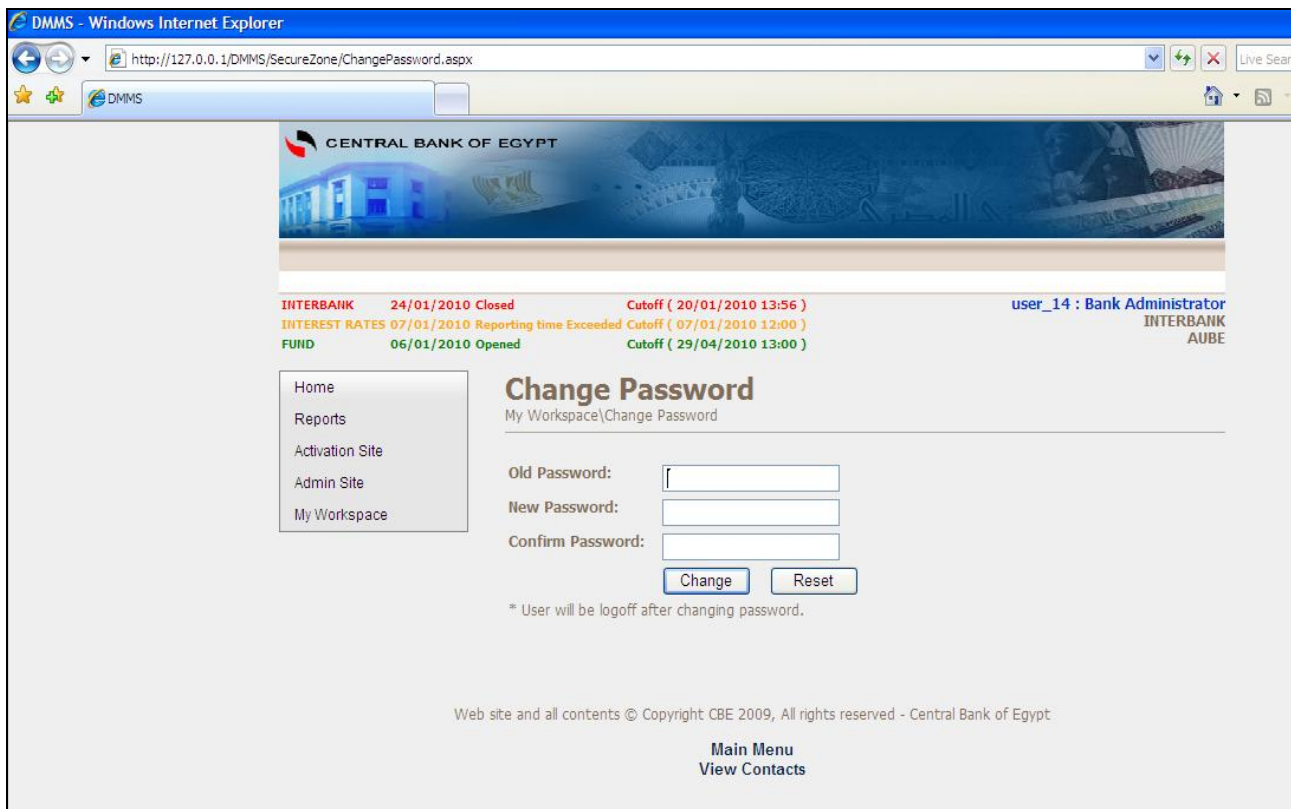
### 3.4. Changing Password

1- Logon to the DMMS using your system credentials.
2- From the Menu select 'My Workspace' → 'Change Password'.



The Following Screen will appear:

3- Enter your old Password in the "Old Password" field.

4- Enter Your New Password in the "New Password" field following CBE's password complexity Standard.

    <u>Password length should be at least 8 Characters, and must contain at least:</u>

    - 1 Digit (from 0 to 9)
    - 1 UPPER CASE Letter (from A to Z)
    - 1 LOWER CASE Letter (from A to Z)
    - 1 Symbol   : | \ > < ! @ # $ % ^ & * ( )){ } / ?(

5- Re-enter your new password in the "Confirm Password" field.
6- Press "Change"

You'll be automatically redirected to the 'Log in' page to log in with your new Password.

### 3.5. Exit System (Log off)

To SECURLY exit the System, from the Menu select 'My Workspace' → 'Log off'
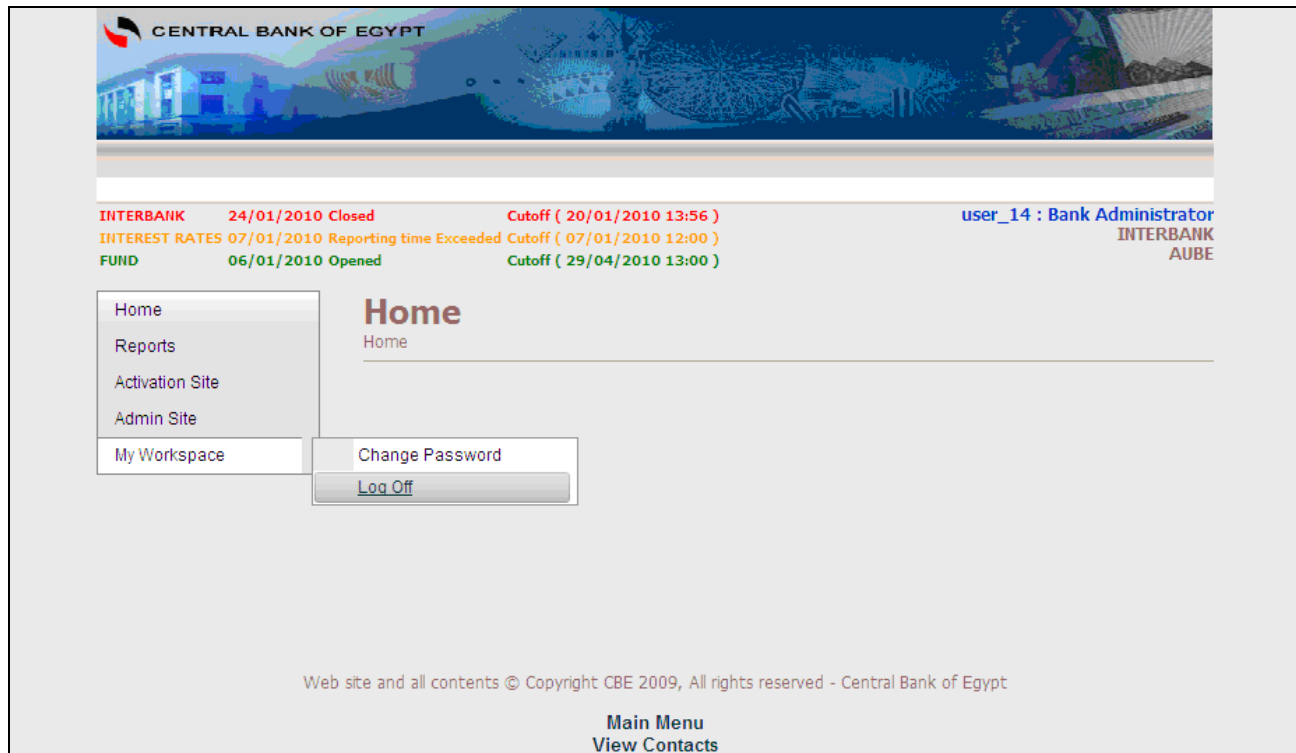
## 4. USING THE DMMS (ONLINE)

The system functions' menu that appears for each user depends on the role chosen for Login. Each user can view only the permitted functions.

### 4.1. USER ENVIRONMENT REQUIREMENTS

- PC with OS Windows XP-SP3 at least, with updated Antivirus agent and connected to CBE Internal/Extranet trusted network.
- MS-Internet explorer Web Browser (version7 at least) to access the DMMS.
- Ms Excel2003 and Acrobat Reader applications.

**N.B.** Input files uploaded by banks MUST be in excel format, using MS-Office 2003 ONLY, and following the latest record description provided by CBE that can be found on URL: http://cbe.org.eg/public/DMMS_instructionmanual.pdf

### 4.2. SYSTEM BUSINESS FUNCTION- ROLE MATRIX

| Role | Supported Functions |
|---|---|
| **Bank Reporter** | ➢ Upload file<br>➢ Replace file<br>➢ Review 'file status' and system maintenance reports |
| **Bank Reviewer** | ➢ Confirm/Reject<br>➢ Review 'file status' and system maintenance reports |
| **Bank Administrator** | ➢ Assign users to user groups<br>➢ Activate / Deactivate assigned user groups.<br>➢ Review system maintenance reports |

### 4.2.1. Upload file
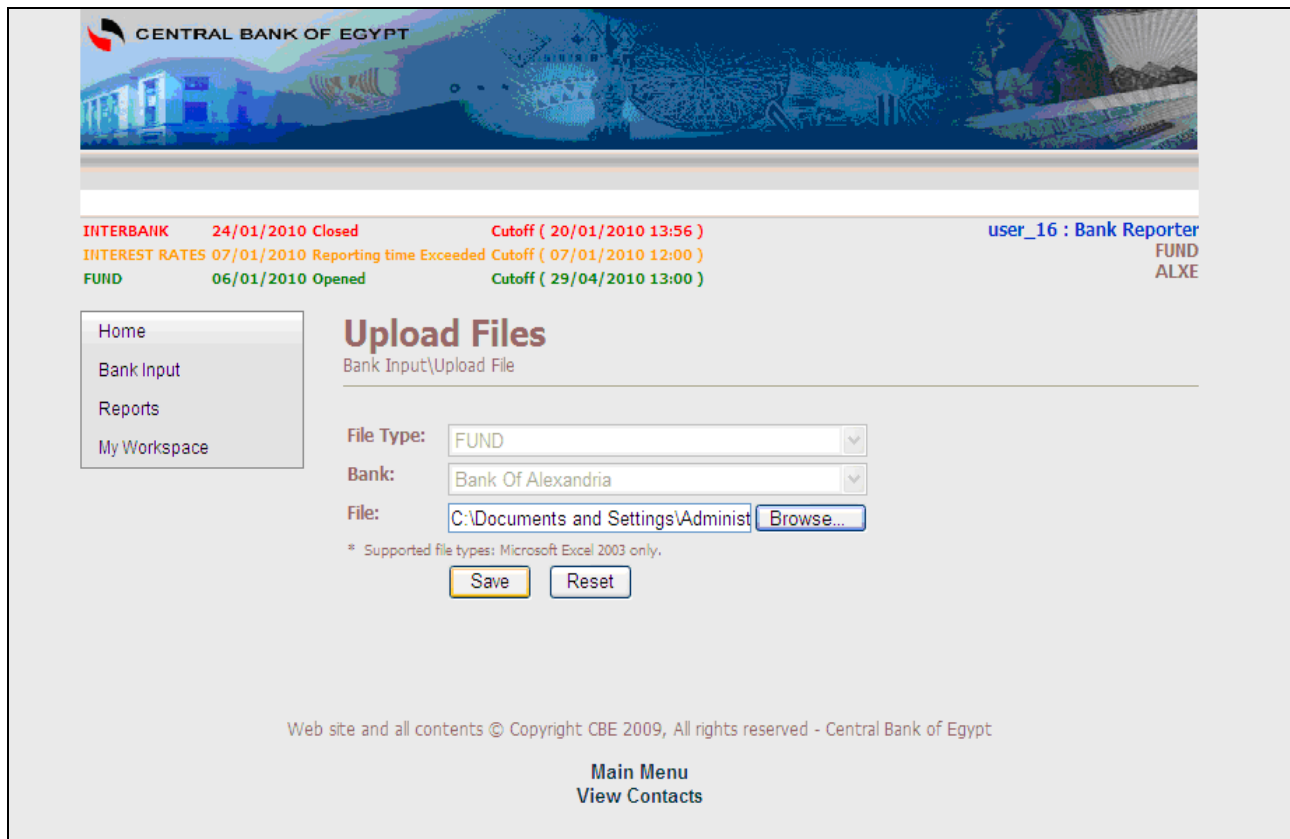
This function allows Bank Reporter to upload the required report file. This must be done before Cut-off time.

***How To?***
1- Logon to the DMMS as "Bank Reporter "using your system credentials.
2- From the Menu select 'Bank Input' → 'Upload File'.



The Following Screen will appear:

3- The File Type (Funds, Interbank or Interest Rates) will automatically appear in the "File type" field depending on the system module chosen for log in.

4- Your Bank Name will automatically appear in the "Bank Field".

5- Press the Browse Button to locate and select your file.

6- Press "**Save**".

    6.A    If the File is rejected as shown below, follow the corrective actions displayed in the Error message. (Error messages description can be found in Appendix A-9)

    6.B    If the file successfully met the **FIRST SET** of system validations criteria, it will be accepted by the system and the message "*Data Successfully uploaded*" will appear as shown in the following screen:

7- Check the **"File Status Report"** described in 4.2.4.1 to ensure that the file is valid**.**

   ➢ To replace a successfully uploaded file **before the bank reviewer Action**; the Bank reporter can still use the same "**Upload**" Function described in 4.2.1.

   ➢ To replace a successfully uploaded file **after the bank reviewer has confirmed / rejected** the file, bank reporter must use the "**Replace**" function as described in 4.2.2.

**Important Notes:**

✱ A successfully uploaded Input report doesn't mean that it's valid. Bank Reporter **MUST** check the **"File Status Report"** to ensure that the File is Valid.
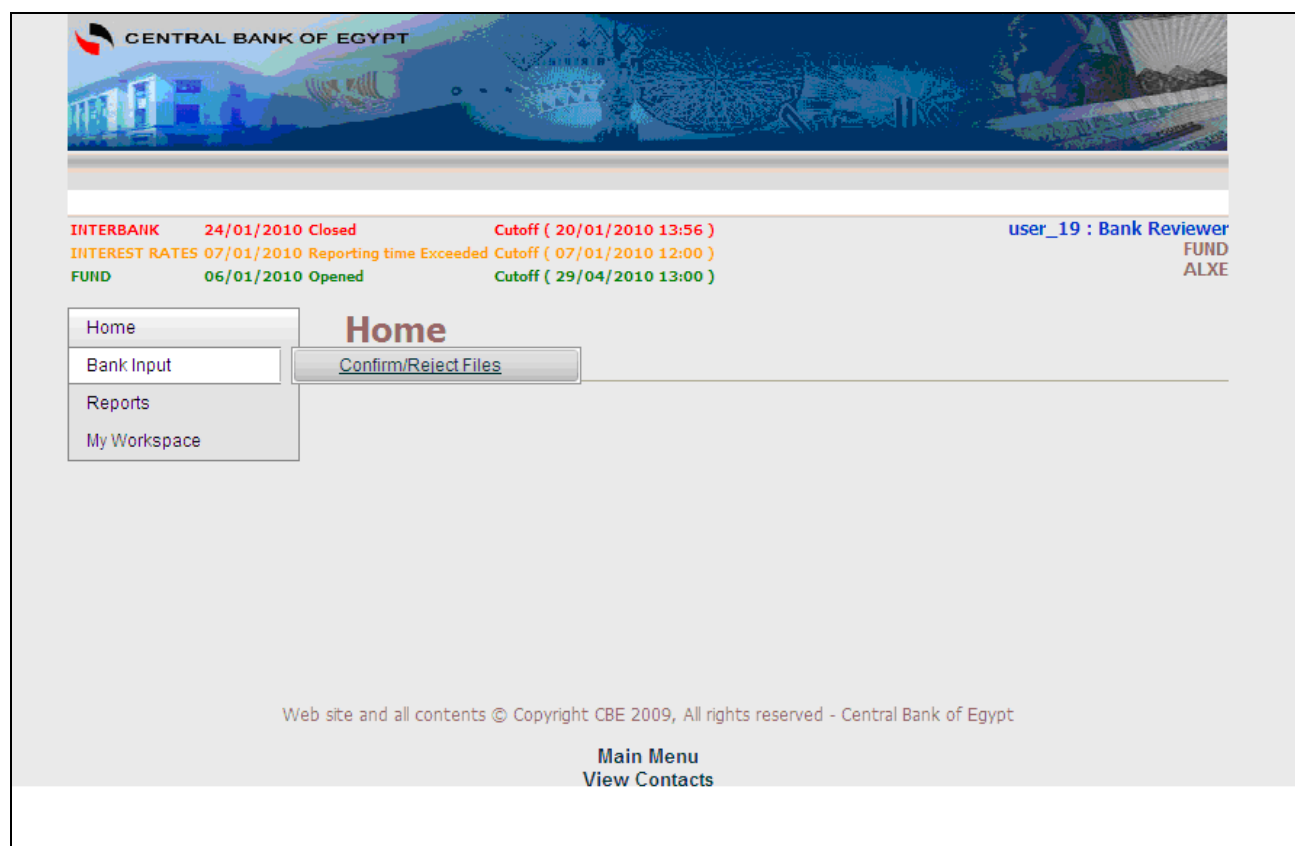
✱ A file with status "Not Valid" that is not valid in the **"File Status Report"** means that it didn't meet the second set of system validations *(described in Appendix A-9)* and can't be Accepted OR Rejected by Bank Reviewer.
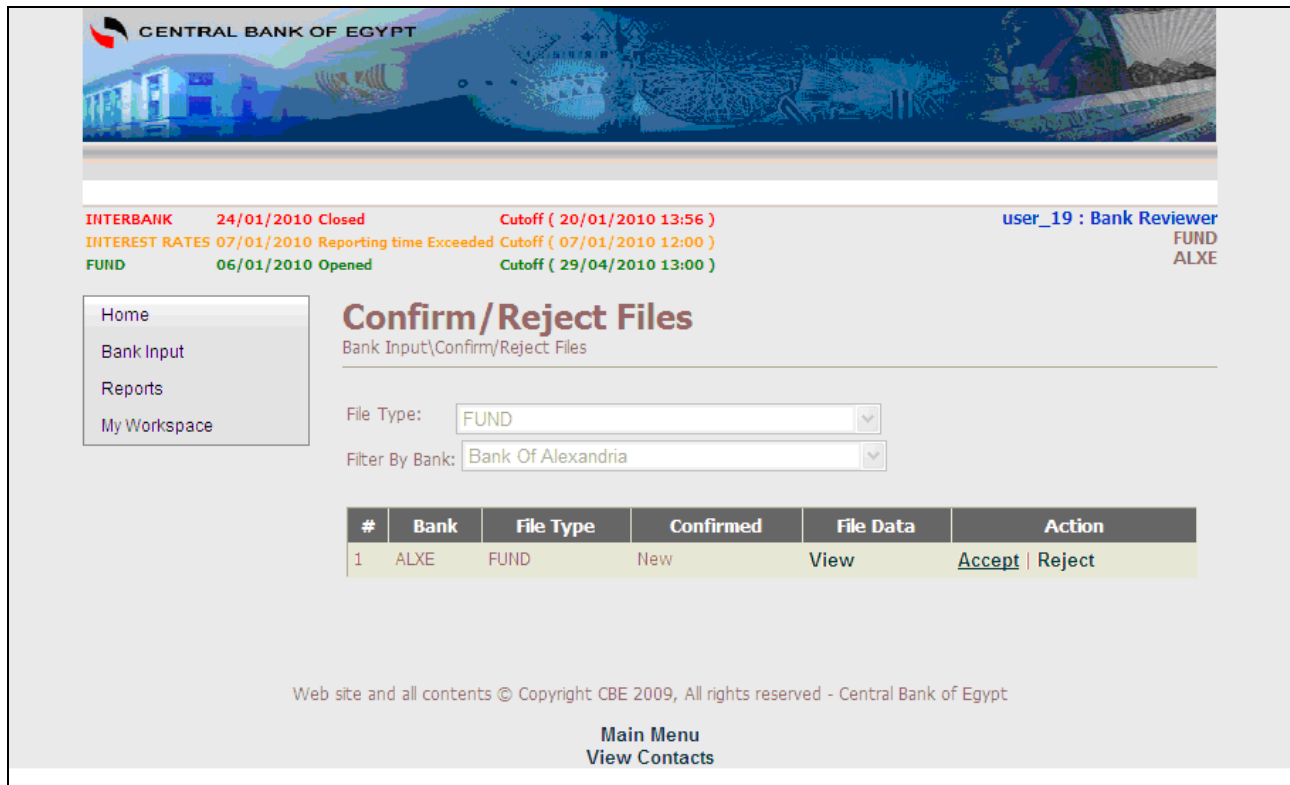
### 4.2.2. Replace file
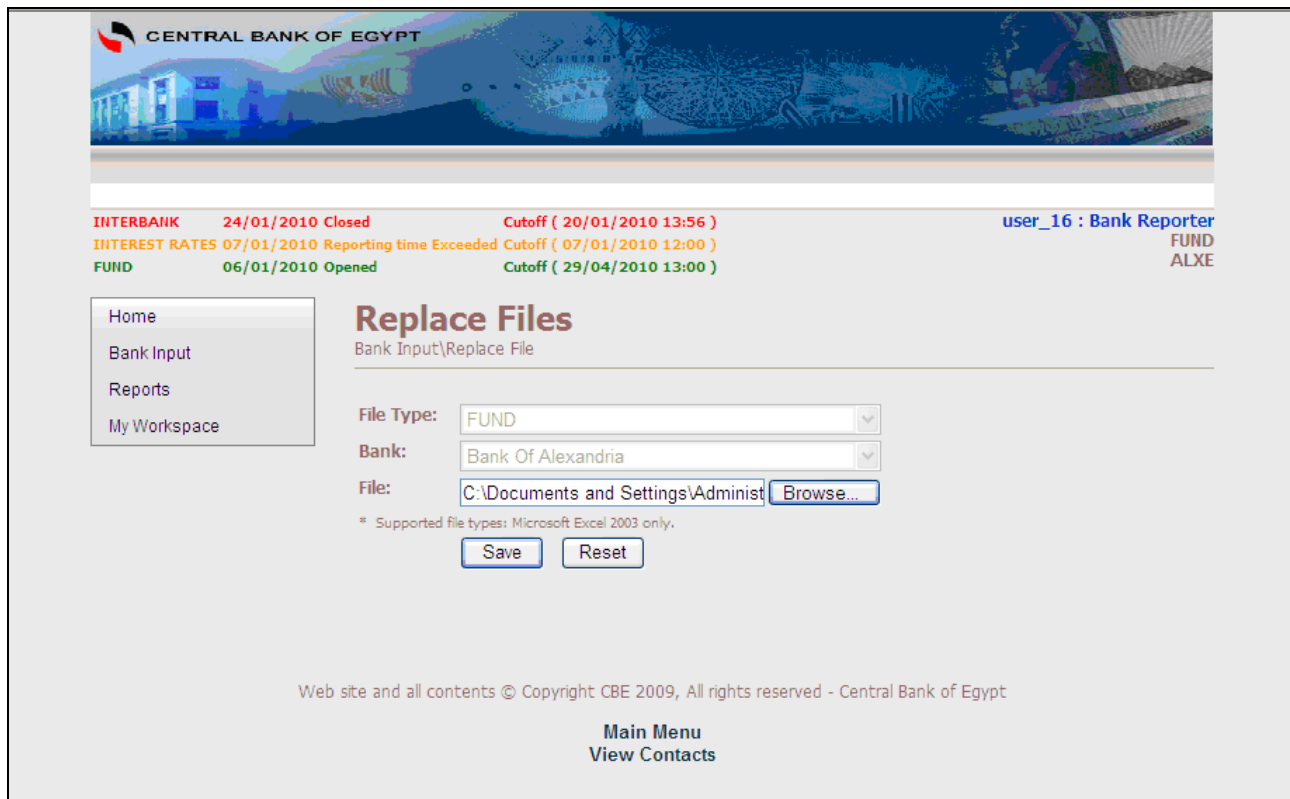
This function allows Bank Reporter to replace a successfully uploaded file after it's been confirmed / Rejected by Bank Reviewer.

***How To?***
1- Logon to the DMMS as "Bank Reporter "using your system credentials.
2- From the Menu select 'Bank Input' → 'Replace Files'.



The Following Screen will appear:

3-  The File Type (Funds, Interbank or Interest Rates) will automatically appear in the "File type" Field depending on the system module chosen for log in.

4-  Your Bank Name will automatically appear in the "Bank" Field.

5-  Press the Browse Button to locate and select your file.

6-  Press "**Save**".

   6.A If the File is rejected, follow the corrective actions displayed in the Error message. (Error messages description can be found in Appendix A-9)

   6.B If the file successfully met the **FIRST SET** of system validations criteria, it will be accepted by the system and the message "*Data Successfully uploaded*" will appear as displayed in page 16.

7-  Check the **"File Status Report"** described in 4.2.4.1 to ensure that the file is valid**.**

**Important Notes:**

*   A successfully uploaded Input report doesn't mean that it's valid. Bank Reporter **MUST** check the **"File Status Report"** to ensure that the File is Valid.

     ✱   A file with status "Not Valid" that is not valid in the **"File Status Report"** means that it didn't meet the second set of system validations *(described in Appendix A-9)* and can't be Accepted OR Rejected by Bank Reviewer.

### 4.2.3.  Confirm/Reject file

This function allows Bank Reviewer to accept / reject the successfully uploaded input file.

***How to?***
1-   Logon to the DMMS as 'Bank Reviewer' using your system credentials.
2-   From the Menu select 'Bank Input' → 'Confirm / Reject File'.
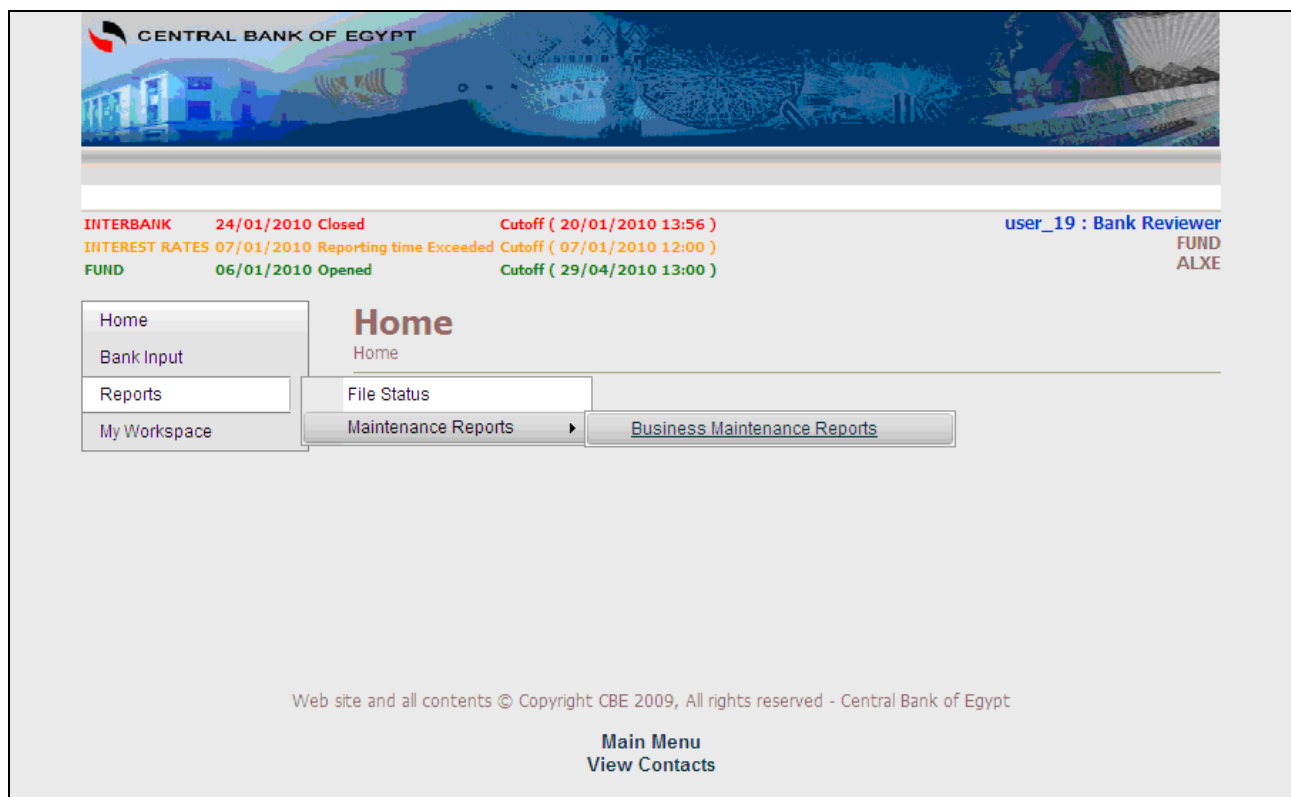


The Following Screen will appear:

3- The File Type (Funds, Interbank or Interest Rates) will automatically appear in the File type Field depending on the system module chosen for log in.

4- Your Bank Name will automatically appear in the Bank Field.

5- Press "Save".

6- The chosen file will appear in the table as shown above.

The table contains the following data:

1. **#**: Serial number.
2. **Bank**: Your bank abbreviation.
3. **File Type**: Funds, Interest Rates or Interbank.
4. **Confirmed:** The confirmation status as follows:
   a. ***New:*** File is successfully uploaded and waiting for Bank Reviewer Action.
   b. ***Yes:*** File is confirmed by Bank Reviewer.
   c. ***No:*** File is rejected by Bank Reviewer.
5. **File Data:** To review the uploaded input file, Press the "**View**" button and the file will be displayed.
6. **Action: To accept / reject the uploaded file.**
   a. Press "**Accept**" to send the uploaded input file to CBE.
   b. Press "**Reject**" to refuse the uploaded input file and allow your Bank Reporter to replace it.

Once Bank reviewer accept / reject the uploaded file, the confirmation status will change from "***New***" to "***Yes***" if accepted, as illustrated in the following screen, or "***NO***" if rejected.

**Important Note:**
To ensure the accuracy of data sent to CBE, the bank reporter who uploaded a file cannot review it.

### 4.2.4. Review "File Status" and "Maintenance Reports"

#### 1.1..1. *File Status Report*

This Report displays the status of Uploaded Input Reports for each Subsystem and a description of the errors if the file is rejected by the system.

***How to?***
1- Logon to the DMMS as 'Bank Reporter' or 'Bank Reviewer' using your system credentials.
2- From the Menu select 'Reports' → 'File Status'.



The following screen will appear:

3- The File Type (Funds, Interbank or Interest Rates) will automatically appear in the File type Field depending on the system module chosen for log in.

4- Your Bank Name will automatically appear in the Bank Field.

5- All the Input reports of the required module will appear in the table as shown above.
The table contains the following data:
1- **Bank**: Your bank abbreviation.
2- **File Type**: Funds, Interest Rates or Interbank.
3- **Deleted**: shows if the file was deleted and replaced as follows:
 a. **New:** File is active.
 b. **Yes:** File has been deleted and replaced.
  ➢ *A crossed out line shows that this file has been successfully replaced.*
4- **Valid:** Shows if the file was accepted by the system
 a. **Yes:** the file is successfully uploaded and met the system validations
 b. **No:** the file didn't meet the system validations and is rejected by the system
5- **Confirmed:** The confirmation status as follows:
 a. **New:** File is successfully uploaded and waiting for Bank Reviewer Action.
 b. **Yes:** File is confirmed by Bank Reviewer.
 c. **No:** File is rejected by Bank Reviewer.
6- **Error Log:** displays the errors in the uploaded file rejected by the system. *(Appendix A-9)*
7- **Entry time:** Time and date of file uploading
8- **View:** To view the input file, Press the "**View**" button and the file will be displayed.
9- **Total** no. of Valid and confirmed files.

### *1.1..2.* <u>*Business Maintenance Reports*</u>

These Reports are used to view the DMMS Static data (Names, Codes, IDs,…).

***How to?***
1- Logon to the DMMS as 'Bank Reporter' or 'Bank Reviewer' using your system credentials.
2- From the Menu select 'Reports' → 'Maintenance Reports'→ 'Business Maintenance Reports'.



A list of available reports will be displayed as shown in the following screen:

**Example:**

**Currency Maintenance Report**



| Currency ID | Currency Name |
|---|---|
| 1 | EGP |
| 2 | USD |

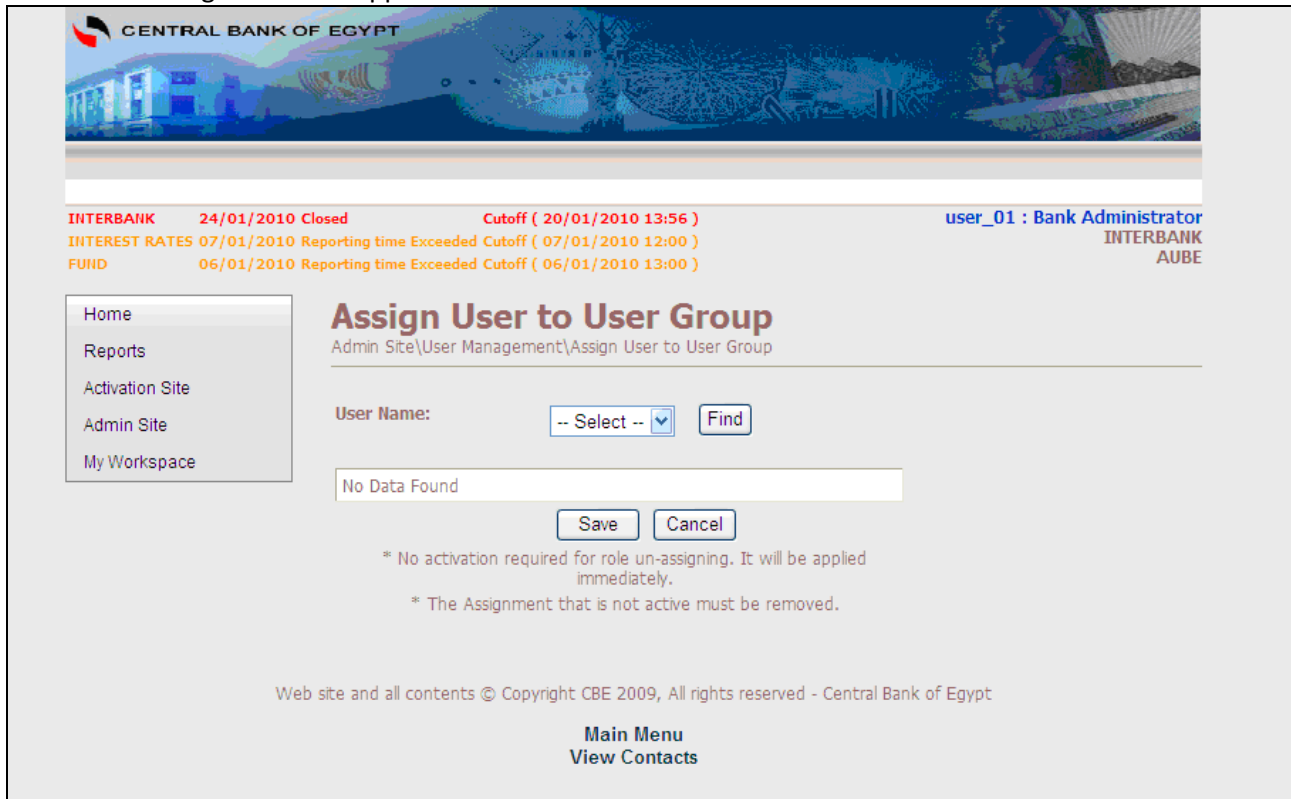### 4.2.5. Assign user to user group (Assign to Access levels)

This function allows bank administrator to assign each user (previously created on the **DMMS** by CBE operator) to a user group *(Bank Reporter / Bank Reviewer)* for each subsystem *(Funds, Interbank, Interest Rates)*.

***How to?***
1- Logon to the DMMS-Specific subsystem as "Bank Administrator "using your system credentials.
2- From the Menu select 'Admin Site' → 'User Management' → 'Assign User to User Group'.

The following screen will appear:



3- From the combo box select the user name you want to assign to a group (Access level), or use the "**Find**" function to search for users with different search criteria as described later.

4- In the 'Assign' column, Put a check mark in the check box next to the group you want to assign to the selected user either Bank Reporter_IB  or  Bank Reviewer_IB. This assignment will be on the subsystem chosen by Bank Admin to log in (In this case Interbank).

5- Press **Save**.

6- In the 'Active' column, the status of the newly assigned role will change to **New** (as shown)

7- Bank Admin must activate the assignment as described in 4.2.6    to allow the user to work with the new role.

**N.B.** Both Bank Reviewer and Bank Reporter privileges can be assigned to the same user, but a single user can not perform both Uploading and reviewing actions to the same input file report.

➢ To search for users with different search criteria, Bank Admin can use the "Find" function by pressing "**Find**" in the 'Assign users to user group' page.

The following screen will appear:
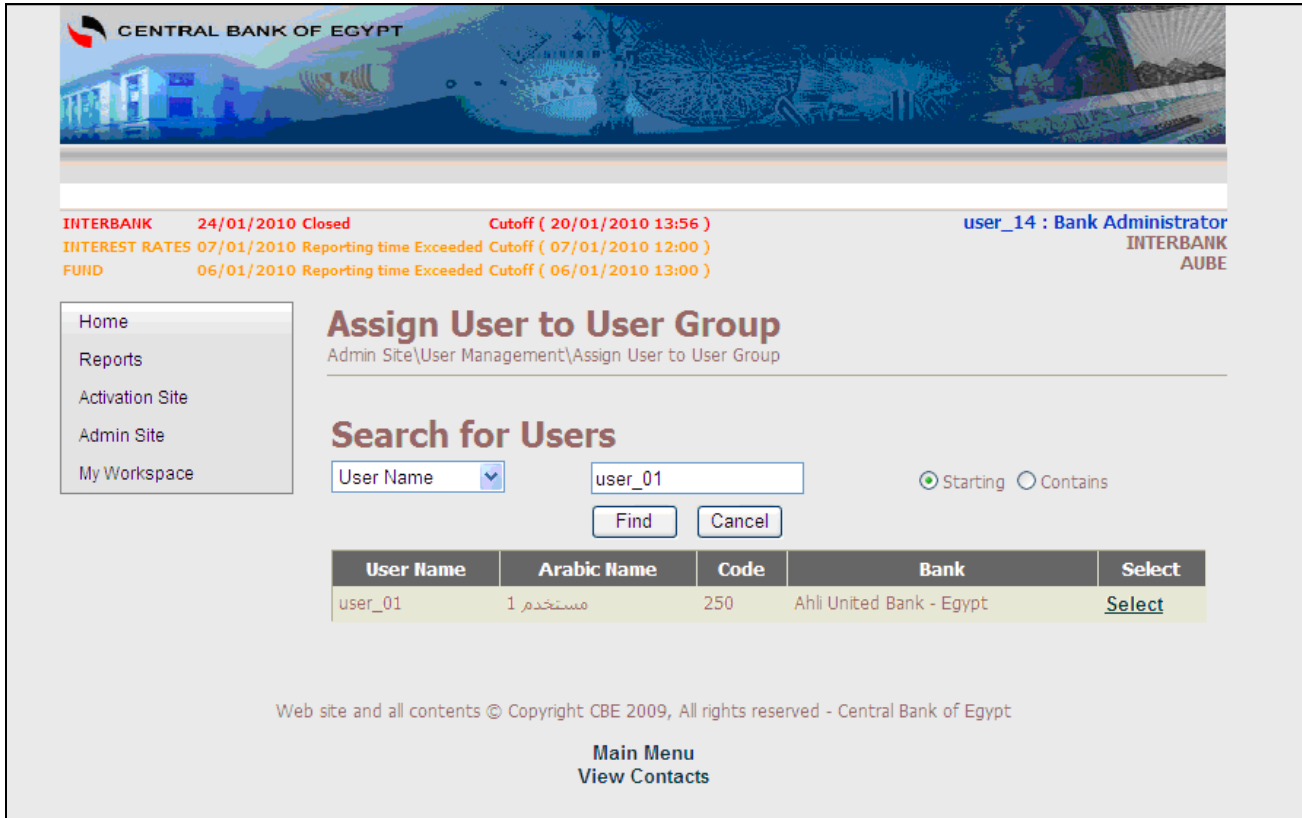


3- From the combo box, select the required search criteria.
4- In the empty field, enter the respective name or Code to show the required list of users.
5- Press "**Find**"

The following table will appear showing a list of the required users and their details:

6- Press select, to select the user you want to assign to a group.
7- Follow the same steps described in 4.2.5

### 4.2.6. Activate the assigned group to users
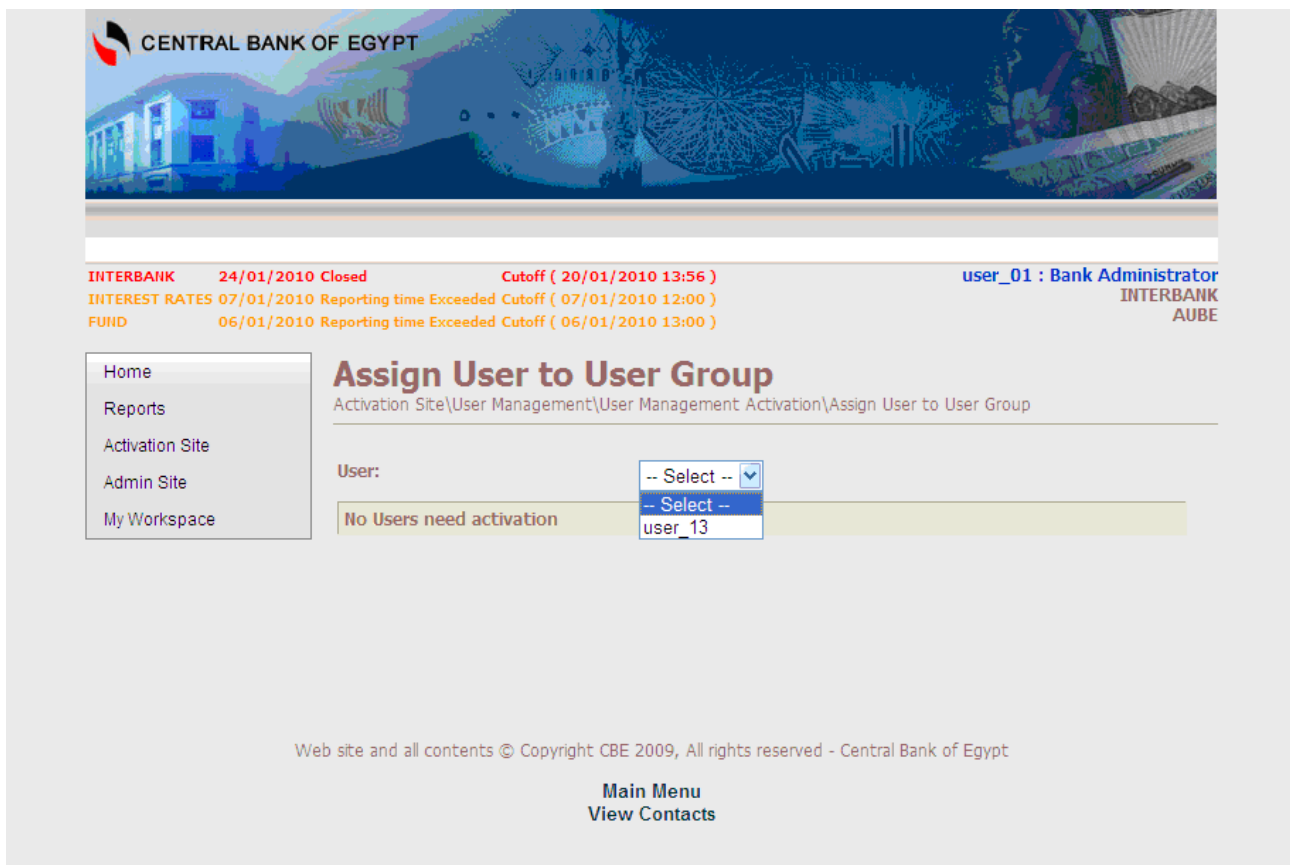
This function allows Bank administrator to activate the assigned group to users.
Any assigned role must be activated by bank admin to allow user to use it.

*How to?*
1- Logon to the DMMS as "Bank Admin "using your system credentials.
2- From the Menu select 'Admin Site' → 'User Management Activation' → 'Assign User to User Group'



The following screen will appear:

2.  From the combo box select the required user. Only users with assigned roles waiting to be activated will appear in this list.
3.  The following table will appear:

The table shows:
1. The group of Functions.
2. The Assignment status:
   ⇒ **New**: assigned and waiting to be activated.
   ⇒ **No**: Not assigned.
   ⇒ **Yes**: Assigned and active.
3. The Action required:
   ⇒ **Activate:** to activate New assignments.

4. Press "Activate" to activate the New role.
5. The status in the 'Assigned' column for the respective group will change to **YES**

### 4.2.7.  De-activate the assigned group to users
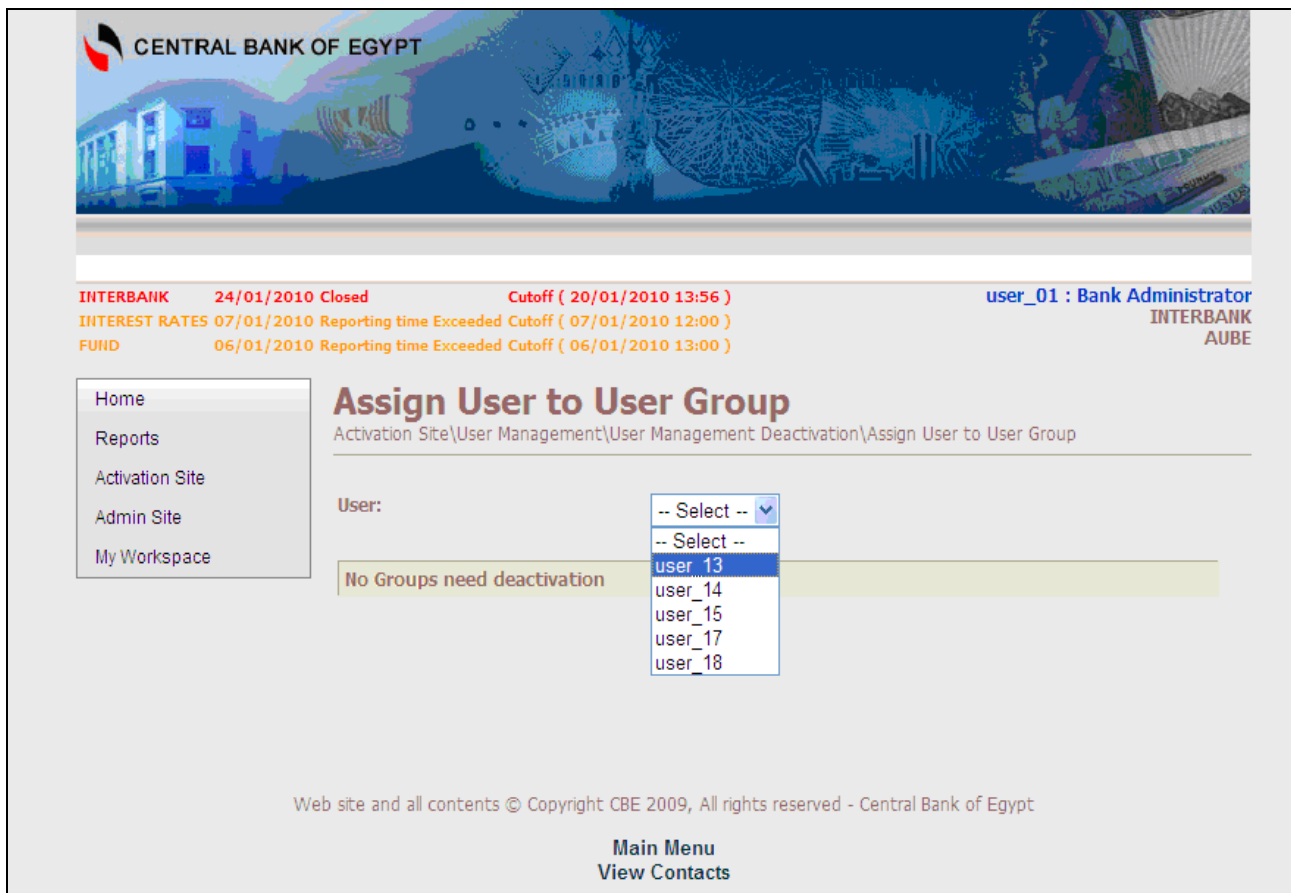
This function allows Bank administrator to de-activate the assigned group from users.
   i.e. Remove Users' privileges (Access Level) over a specific subsystem.

*How to?*
   1- Logon to the DMMS as "Bank Admin "using your system credentials.
   2- From the Menu select 'Admin Site' → 'User Management Deactivation' → 'Assign User to User Group'



The following screen will appear:

3-  From the combo box select the required user. Only users with assigned roles will appear in this list.
4-  The following table will appear:

The above table displays:

    1.  The group of Functions.

    2.  The Assignment status:

        ⟹ **No**: Not assigned.

        ⟹ **Yes**: Assigned and active.

    3.  The Action required:

        ⟹ **Deactivate:** to deactivate active assignments.

5- Press "**Deactivate**" to deactivate the assigned role.

6- The status in the 'Assigned' column for the respective group will change to **No** , Indicating that this user ('user_13' into our example) has no longer the mentioned privilege (Bank Reviewer into our example) over the above mentioned subsystem ('Interbank' in our example)

### 4.2.8.  Review System maintenance reports

These reports are viewed by "Bank Administrators" and allow them to view a list of the bank's users with their data and privileges on the **DMMS**.

***How to?***
1-  Logon to the DMMS as 'Bank Admin' using your system credentials.
2-  From the Menu select 'Reports' → 'Maintenance Reports'→ 'System Maintenance Reports'.



The following screen will appear:

The following is an example of each of the above reports:

**List of Bank Users**

## List of User Groups (Access Levels) members and their status

| Back |

| 1 / 2 | 100% |

**Print Date :** 11/04/2010   11:39 am

**User Name :** user_14

**Report ID :** DMMS_SEC_GROUP

**Page :** 1  of  2

Central Bank of Egypt

**Security Groups**

**Bank Name :** البنك الأهلي المتحد

**Group ID :** 8   Bank Reporter - IR

| Emp Code | Arabic Name | English Name | User Status | Expiry Date | Department Name |
|---|---|---|---|---|---|
| 250 | مستخدم13 | user_13 | ACTIVE | | Acounting |
| 250 | مستخدم15 | user_15 | ACTIVE | | Acounting |

**Count :** 2

**Group ID :** 9   Bank Reviewer - IR

| Emp Code | Arabic Name | English Name | User Status | Expiry Date | Department Name |
|---|---|---|---|---|---|
| 250 | مستخدم14 | user_14 | ACTIVE | | Acounting |
| 250 | مستخدم17 | user_17 | ACTIVE | | Acounting |
| 250 | مستخدم18 | user_18 | ACTIVE | | Acounting |

**Count :** 3

**Group ID :** 15   Bank Administrator

| Emp Code | Arabic Name | English Name | User Status | Expiry Date | Department Name |
|---|---|---|---|---|---|
| 250 | مستخدم14 | user_14 | ACTIVE | | Acounting |
| 250 | مستخدم1 | user_01 | ACTIVE | | Acounting |

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**Print Date :** 11/04/2010   11:39 am

**User Name :** user_14

**Report ID :** DMMS_Users_Assigned_groups

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Central Bank of Egypt

**Users' assigned groups**

### Ahli United Bank - Egypt

| User Name | Department | Emp Code | Arabic Name | English Name | Status | Expiration |
|---|---|---|---|---|---|---|
| user_01 | Acounting | 250 | مستخدم1 | user_01 | Active | |

| Asssigned groups | Status |
|---|---|
| Bank Administrator | Active |

| User Name | Department | Emp Code | Arabic Name | English Name | Status | Expiration |
|---|---|---|---|---|---|---|
| user_13 | Acounting | 250 | مستخدم13 | user_13 | Active | |

| Asssigned groups | Status |
|---|---|
| Bank Reporter - F | Active |
| Bank Reporter - IB | New |
| Bank Reporter - IR | Active |

| User Name | Department | Emp Code | Arabic Name | English Name | Status | Expiration |
|---|---|---|---|---|---|---|
| user_14 | Acounting | 250 | مستخدم14 | user_14 | Active | |

| Asssigned groups | Status |
|---|---|
| Bank Administrator | Active |
| Bank Reviewer - F | Active |
| Bank Reviewer - IR | Active |

**5. APPENDICES:**

5.A. System Static Data

The document attached is just a sample of System static data; the latest (updated) static data is available through the DMMS system itself – System Maintenance reports section.
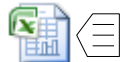
Sample of DMMS
static data.xls

5.B. Input files upload process-Error messages

| Error description | Displayed Error Message |
|---|---|
| **1- General Errors** | |
| Error in the report header, Cell A1 | Sheet summary and its header value are not identical |
| Business date in the report does not match the opened day on the system | Invalid Business Day |
| The Bank ID is not found **OR** not active | Invalid Bank ID |
| The currency ID is not found | Invalid CURRENCY ID ' |
| Number of digits after the decimal point exceeded the allowed no. for numeric values | Numeric / Fractional length exceeded. |
| Number of digits after the decimal point exceeded the allowed no. for percentage values | Percentage / Fractional length exceeded. |
| **2- Fund Module errors** | |
| The Fund ID is not found **OR** not active | Invalid Fund ID |
| The Investment Manager ID **OR** not active | Invalid Investment Manager ID |
| The Fund Type ID is not found **OR** not active | Invalid Fund Type ID |
| The Fund Sub Type ID is not found **OR** not active | Invalid Fund Sub-type ID' |
| Fund's current amount doesn't equal the total Asset Allocation **OR** Current amount doesn't equal Total Holdings. | 'FUND AMOUNT FAILED, ' |
| No of certificates must equal : previous no + new certificates – Redeemed certificates | 'FUND CERT FAILED, ' |
| Error in the Fund Data: Investment manager, Type, Sub-type,.. | Mismatching Fund Data |
| The specified yield is out of the accepted range. | ASSET TBONDS YIELD FAILED, ' 'ASSET CBONDS YIELD FAILED, ' 'ASSET TBILLS YIELD FAILED, ' … |
| Method of calculation must be HTM **OR** MTM **OR** empty. | Invalid Method Of Calculation. |
| **3- Interbank Module:** | |
| The Lender Bank ID is not found **OR** not active | Invalid Lender ID |
| The Borrower Bank ID is not found **OR** not active | Invalid Borrower ID |
| The Interbank data doesn't match the data received from the other bank. | 'INTERBANK DATA MISS MATCH, ' |
| Check that MATURITY_DATE = START_DATE + NUMBER_OF_DAYS | Invalid MATURITY Date |
| The Category ID is not found **OR** not active **OR** Incorrect | Invalid CATEGORY ID |
| The type of Deal must be 'N' **OR** 'R' | Invalid TYPE OF DEAL |
| **4- Interest Rates Module:** | |
| The type of Deal must be 'L' **OR** 'D' | Invalid TYPE OF DEAL |

5.C.    <u>Input reports Templates</u>

**5.C.1.    Funds Input file**

Fund Template
v001-28042010.xls

**5.C.2.    Interbank Input File**

Interbank Template
v001-28042010.xls

**5.C.3.    Interest Rates Input File**

Interest Rate
Template v001-28042