# Graduation Project

# C Graduation Project

Your mission is to implement **IMT Bank System** according to the following requirments. To Pass this Project a group of test cases must be passed.

This project consist of 2 main features
**1- Admin Window.**
**2- Client Window.**

## Bank Account  Bank Account must include those information

- **Full Name.**
  You must enter at least first four names ex: Mohamed Salah Hamed Mahrous
- **Full Address.**
ex: 6 Hussien Wassef, From El-Dokki st, Giza.
- **National ID.**
You must enter National ID which consist of 14 digit Number  ex: 29805070100179
- **Age**
ex: 25
- **Bank Account ID**
Bank Account ID must be generated automatically(10 digit) ex: 1000000000
- **Guardian**
In case of user is less than 21 he must have a guardian
- **Guardian National ID.**
You must enter National ID which consist of 14 digit Number  ex: 29805070100179
- **Account Status.**
By default Account Status is **Active**, but it can be also **(Restricted or Closed)**
Note: If account is Restricted or Closed you can't perform any action on it
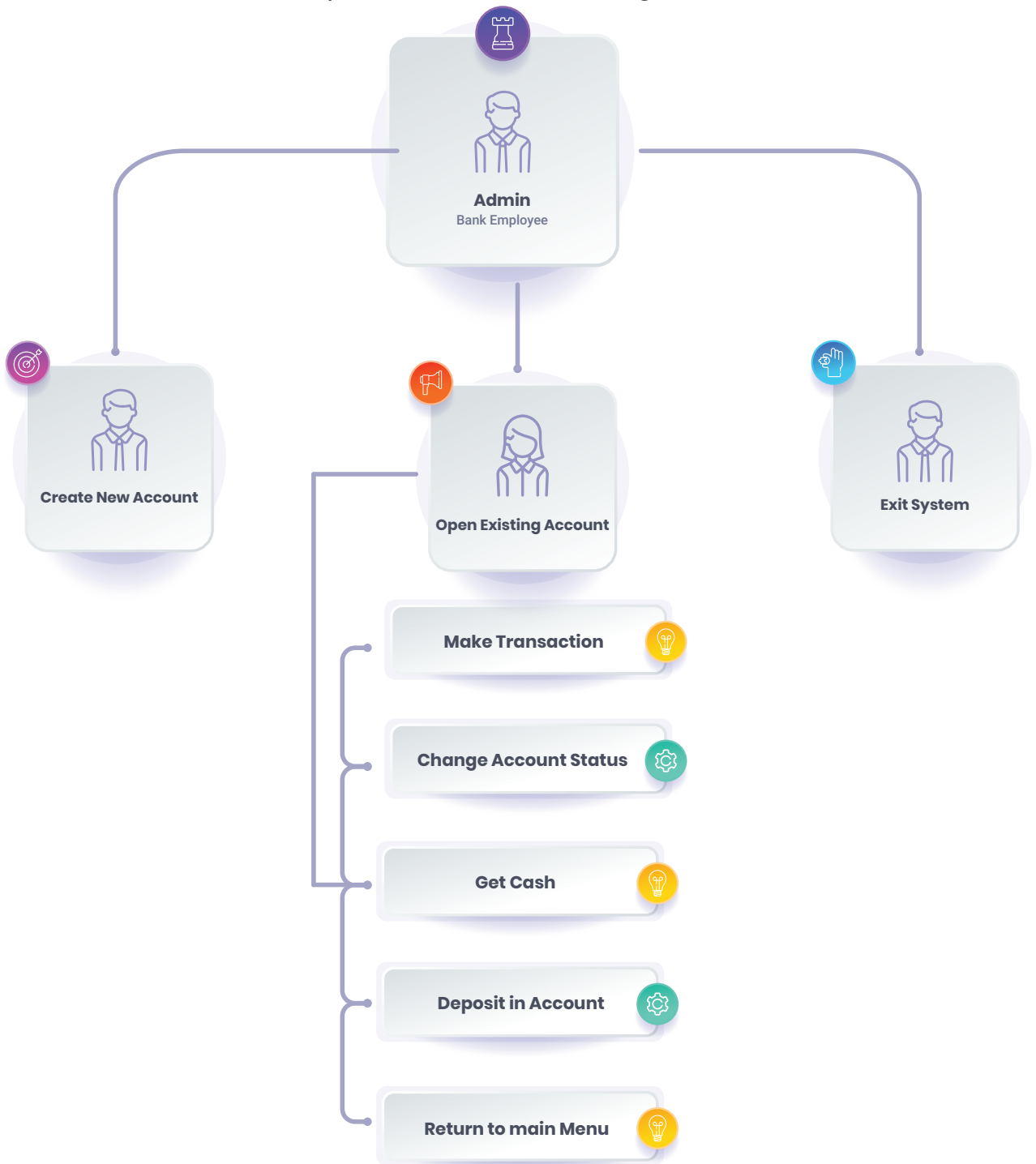- **Balance.**
ex: 75000
- **Password.**
Random Password will be generated for each account during creation of it.

## Admin Window

To Enter this Window, Admin must use correct Username and Password.
In this window Admin can perform the following actions:

**Admin**
Bank Employee

**Create New Account**

**Open Existing Account**

**Exit System**

**Make Transaction**

**Change Account Status**

**Get Cash**

**Deposit in Account**

**Return to main Menu**

# Admin Window

From the previous illustration, you can figure out that the admin window consists of 3 main features:

1- **Create New Account**
In this Feature you will be asked to enter the following parameters
- Full Name
- Full Address
- Age
- National ID
- Guardian National ID
(If Age < 21 you will be asked automatically for Guardian National ID)
- Balance
**Note that (Password, and Bank account ID will be generated automatically)**
**Note also that the account status will be active once it is created.**

2- **Open Existing Account**
In this Feature you will be asked to enter Client Bank Account ID then choose between the following features:
- **Make Transaction**
In this feature you will be asked to enter the Bank Account ID you want to transfer money to. Then you will be asked to enter amount of money to transfer it to the this account.
You have to make sure that the amount of money is less than your client's balance or the transaction won't be completed.
You have to make sure that both accounts are Active.

# Admin Window

**– Change Account Status**
In this feature you will be asked to enter the Bank Account Status, you want for this account
1– Set Account to Active State
2– Set Account to Restricted State
3– Set Account to Closed

**– Get Cash**
In this feature you will be asked to enter the cash amount you want from this account and it will be reduced from your account balance.
make sure the cash amount is less than the account balance before performing this feature.

**– Deposit in Account**
In this feature you will be asked to enter the cash amount you want to add to this account.
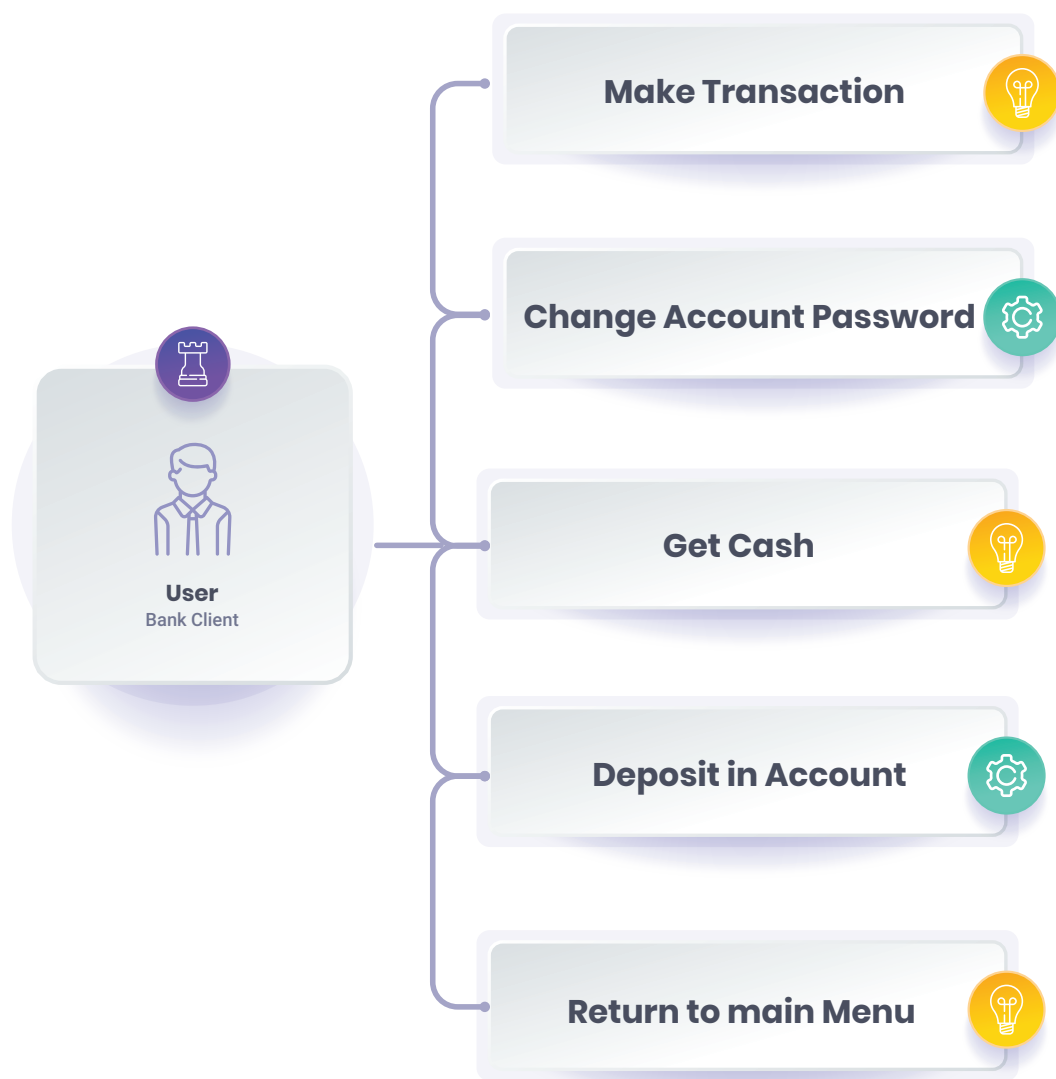
**– Return to main menu**
In this feature you will return to Admin Main Menu

**3– Exit the System**
In this Feature you Admin menu will be terminated.

# Client Window

To Enter this Window, Client must use correct Bank Account ID and Password.
In this window Client can perform the following actions:

**Make Transaction**

**Change Account Password**

**User**
Bank Client

**Get Cash**

**Deposit in Account**

**Return to main Menu**

## Client Window

**– Make Transaction**
In this feature you will be asked to enter the Bank Account ID you want to transfer money to. Then you will be asked to enter amount of money to transfer it to the this account.
You have to make sure that the amount of money is less than your client's balance or the transaction won't be completed.
If one Account is Restricted or Closed you won't be able to perform this transaction.

**– Change Account Password**
In this feature client will be able to change his password by entering old password then the new password

**– Get Cash**
In this feature you will be asked to enter the cash amount you want from this account and it will be reduced from your account balance.
make sure the cash amount is less than the account balance before performing this feature.

**– Deposit in Account**
In this feature you will be asked to enter the cash amount you want to add to this account

**– Return to main menu**
In this feature you will return to Admin Main Menu.

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# IMT School Wishes you all the best.
# GOOD LUCK