### 4. Features:

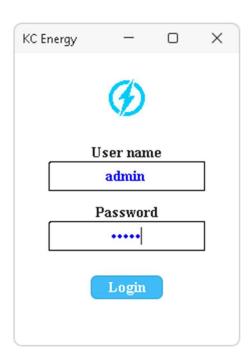
Feature	Implemented	Comments
Add new account	full	Could have unhandled errors
View/Modify customer info	full	Could have unhandled errors
Display account dash board	full	Could have unhandled errors
Generate invoice as pdf	full	Could have unhandled errors
Process new payment	full	Could have unhandled errors
Get an account by account#	full	Could have unhandled errors
Search for account	full	Could have unhandled errors
Delete account	full	Could have unhandled errors
Login window	full	Could have unhandled errors
Help Mode	full	Could have unhandled errors
Actions' status messages	full	Could have unhandled errors
Send Invoice Email	partial	Could have unhandled errors,
		customer email addresses are not
		saved in the database.

#### 5. This explains the main idea of the MainFrame class:

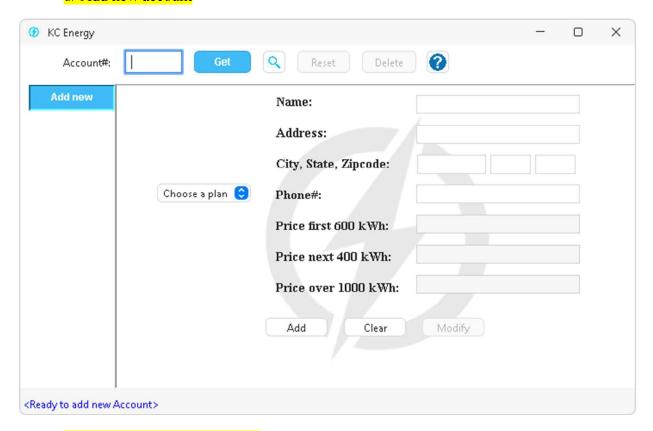
The main window of the program is constructed by a MainFrame class's object. It contains 4 main panels at north, south, west, and center of the window. The North and West panels will hold buttons and labels that provide all main functions such as adding new account, retrieving an account, viewing/ modifying account, showing dashboard, generate invoice, processing payment, etc. The South panel will hold labels serve as

responding messages for any time a main button or label is clicked. Example of message are: "Account# 1000 is retrieved successfully" or "Help mode is enabled" etc. The Center will hold main panels that corresponds to each main function. For example, an add-account panel is for the add-account function, a dashboard panel is for dashboard function etc. These panels are objects of user-defined classes that extends JPanel. These special panels had buttons, fields, and every thing needed to perform that function. At first, these panels are added to the Center panel, but are not visible. After an account is retrieved using GET or SEARCH, the account information get from the database will construct an account object of Accounts class. Then this account object is passed to each special panels using their public methods so that they can have information to display and perform needed functionalities on that account object. After a change is made. The program will execute SQL command using the new information to update the actual account in the database.

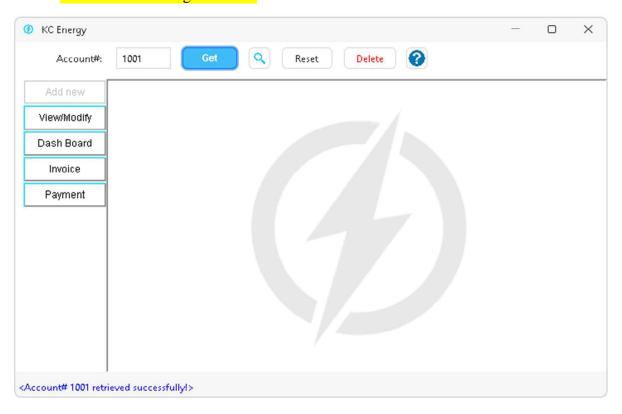
#### 6. a/ Login window:



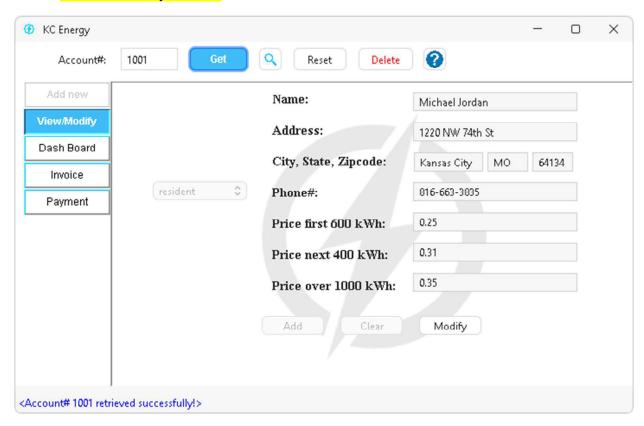
# b/ Add new account



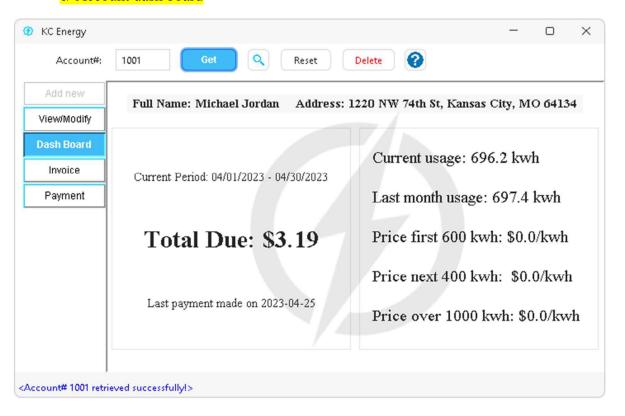
### c/ Get account using account #



### d/ View/ Modify account



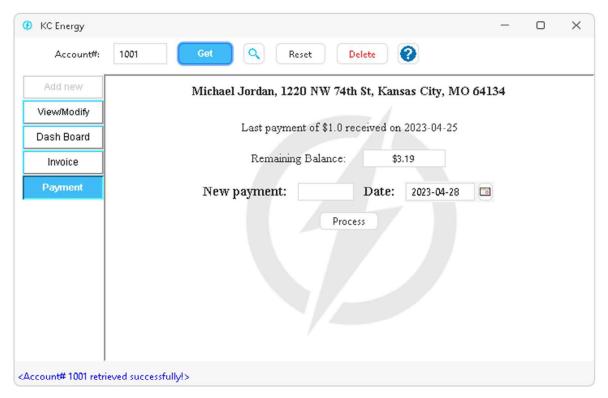
#### e/ Account dash board



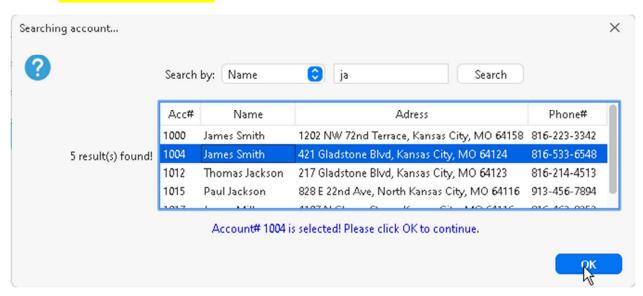
## f/ Generate invoice



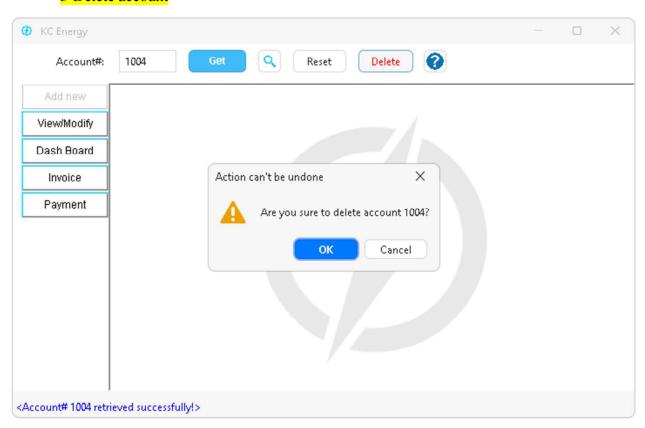
### g/ Process new payment



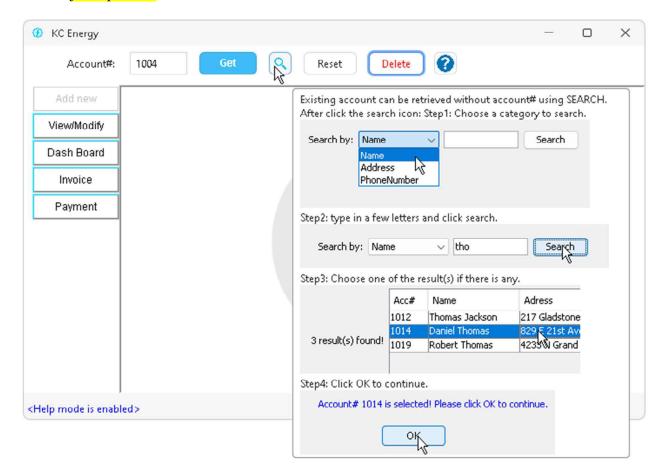
### h/ Search for an account



### i/ Delete account



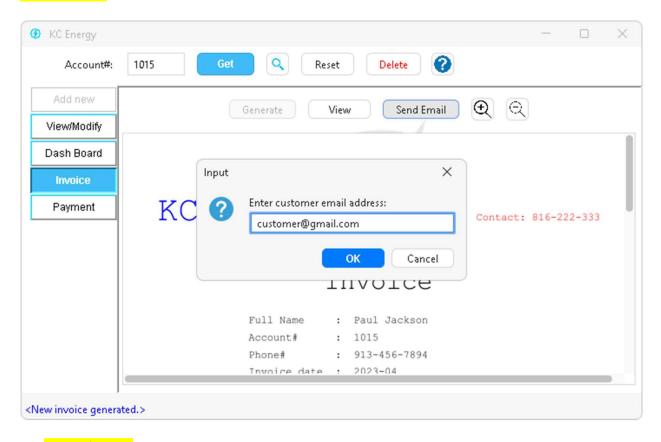
# j/ Help Mode



#### k/ Status messages:



#### l/ Send Email



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Toedter. JCalendar. <a href="https://toedter.com/jcalendar/">https://toedter.com/jcalendar/</a>