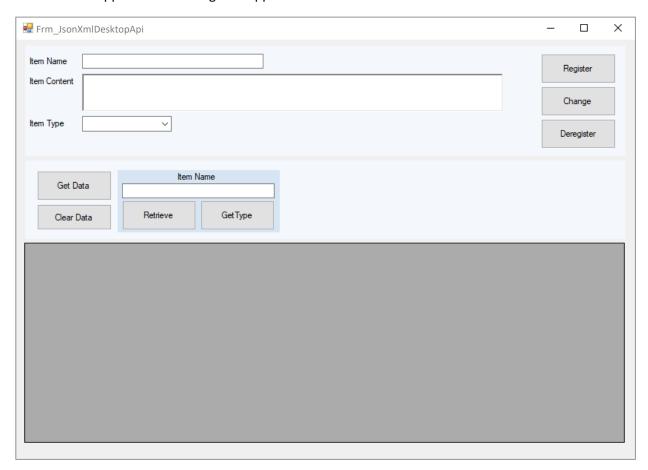
### **Application Software Documentation**

**Faisal Rahman** 

Architectural design of Application is using Web API as backend and API based Desktop Application as Front End. Programming language used is C#, and the saved and to be saved data is using in memory data class collection retained in Web API. Application is intended to record multi purpose data which can be saved in JSON String or XML String format. The tittle of this JSON String / XML String data is represented by Item Name Field, while JSON String / XML String data it self is saved in Item Content field. Item Type field is the info which shows whether that saved data is in JSON String or in XML String.

The first time application showing is as appeared as below.



Functionalities of above application are,

1. Get Data

Get data button is used to get all data in displayed table

2. Clear Data

Clear data button is used to clear all data in displayed table

3. Retrieve

Retrieve button is used to get single Item Name

4. Get Type

Get Type button to get Item Type, type of single item whether JSON Text or XML Text

5. Register

Register button is used to save record

6. Change

Change button is used to change the record

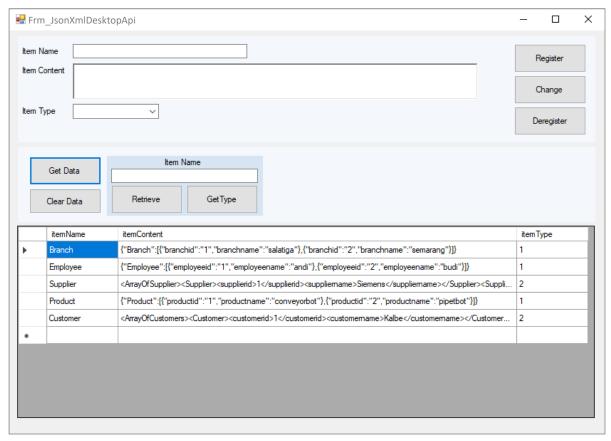
7. Deregister

Deregister button is purposed for deleting record

The following are some captures and brief explanation of above functionalites,

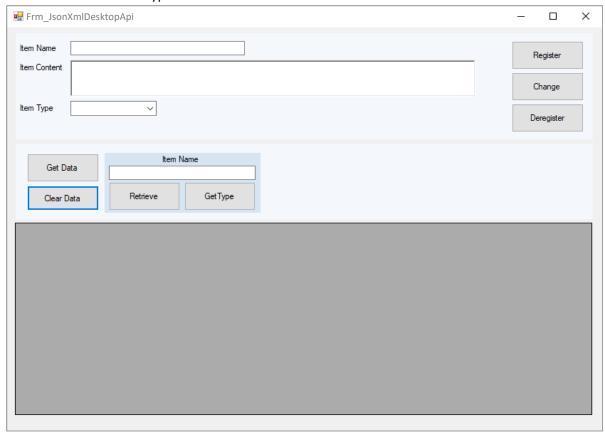
### 1. Get Data

When Get Data button is clicked, data will be displayed on available table. For testing purposes some data displayed below are data which are harcoded as sample.



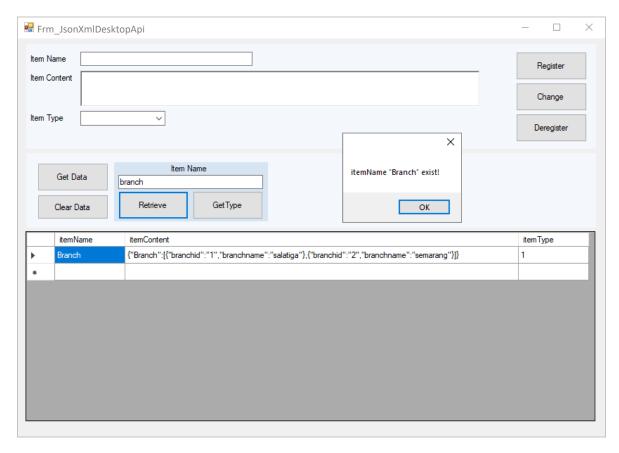
#### Clear Data

When Clear Data button is clicked, data displayed on available table will be cleared. Item Name, Item Content and Item Type fileds will also be cleared.

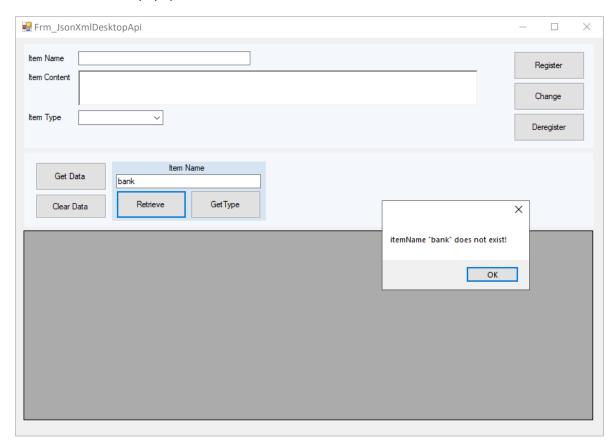


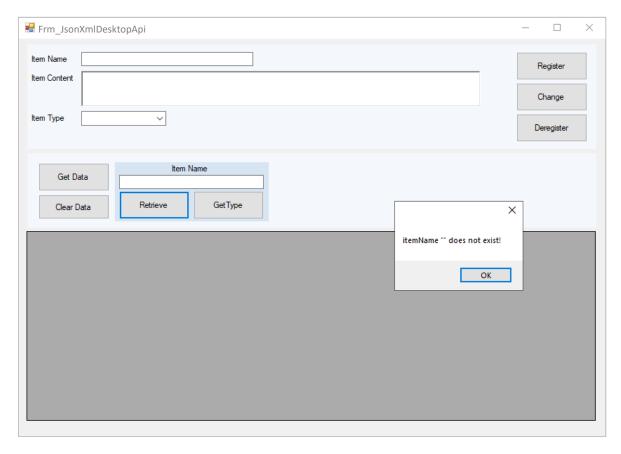
## 3. Retrieve

When Retrieve button is clicked, single record will appear if the Item Name Text Box above Retrieve button is matched with Item Name available on data set. Pop up will also appear telling that the matched Item Name exist.



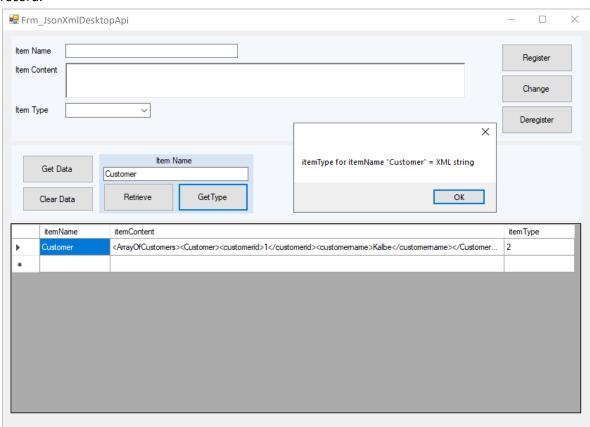
If not matched, then popup info will tell vice versa.



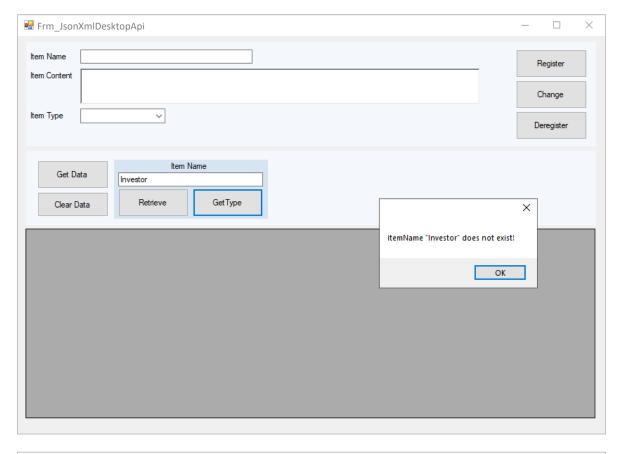


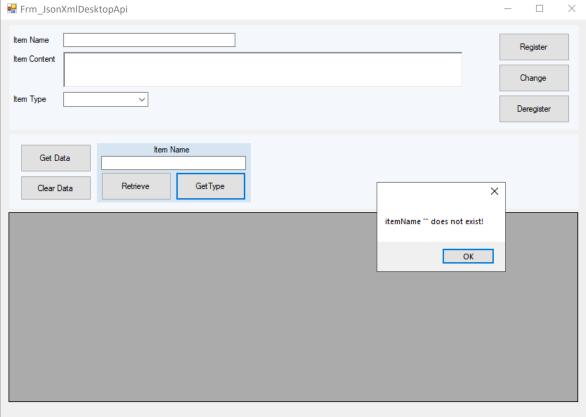
### 4. Get Type

When Get Type button is clicked, single record will appear if the Item Name Text Box above Retrieve button is matched with Item Name available on data set. Pop up will also appear telling that the matched Item Type for chosen Item Name is JSON string or XML string based on existed record.



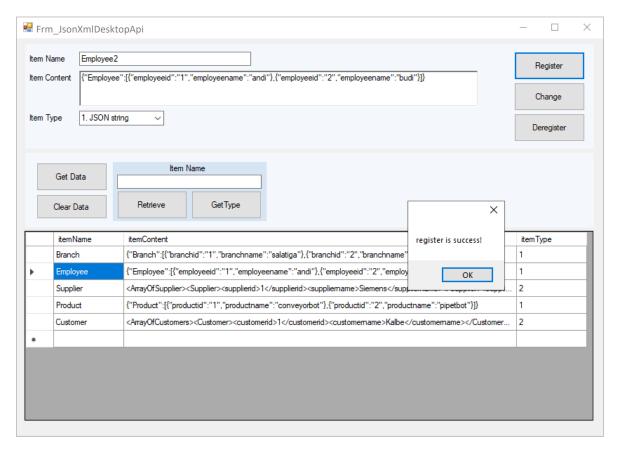
If not matched, then popup info will tell vice versa.

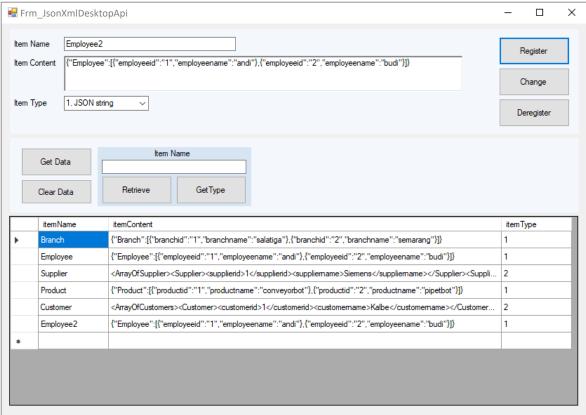




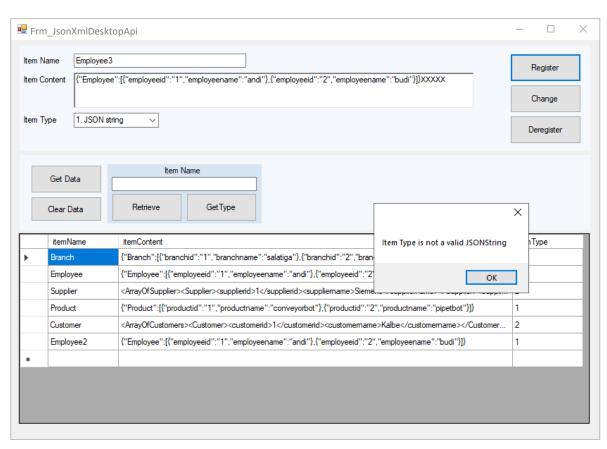
# 5. Register

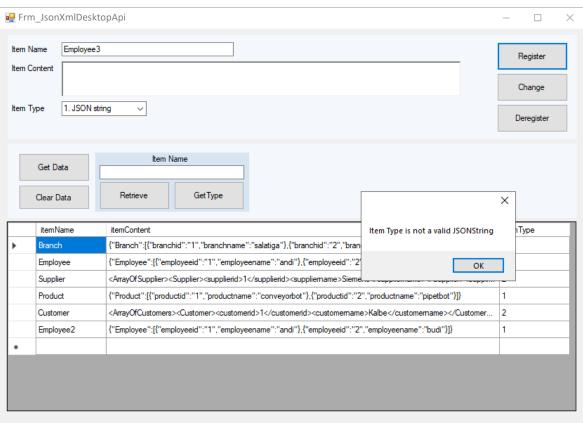
When Register button is clicked, data which has been typed on Item Name, Item Content and Item Type fields will be saved.

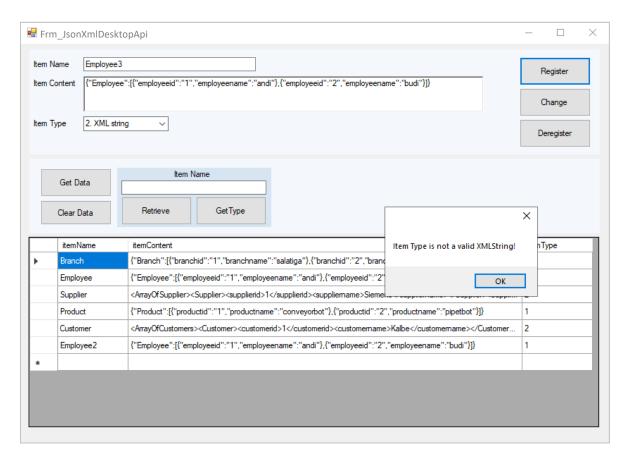




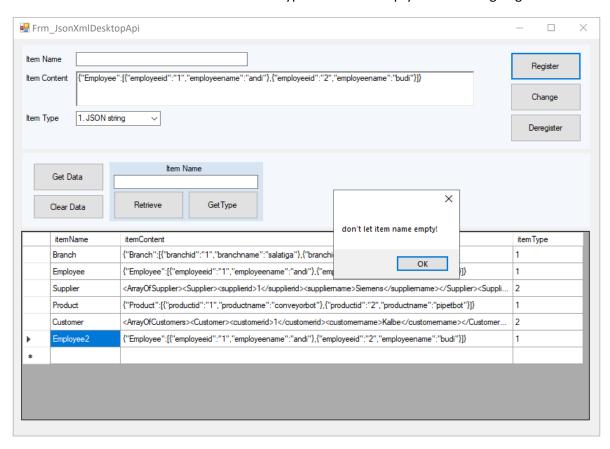
Validation is made to filter unsuitable Item Content field and its JSON/XML content type represented by Item Type field.

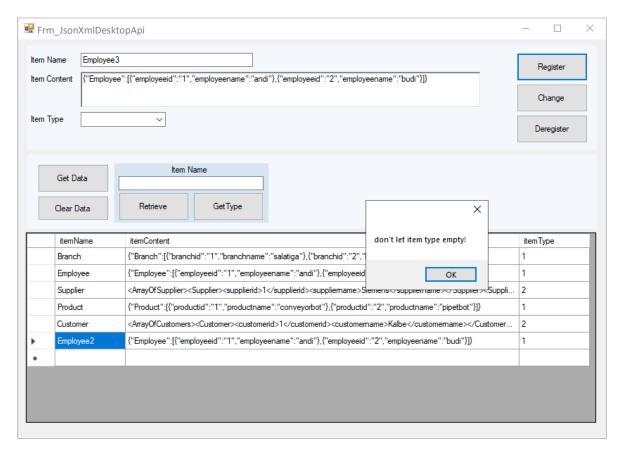






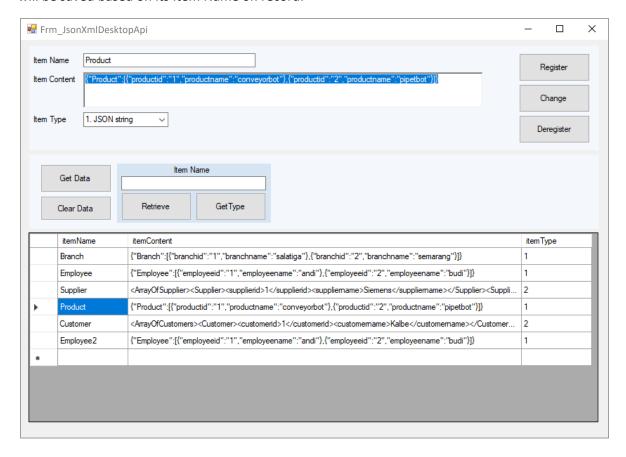
Validation is also made if Item Name or Item Type text box is empty when clicking Register button.

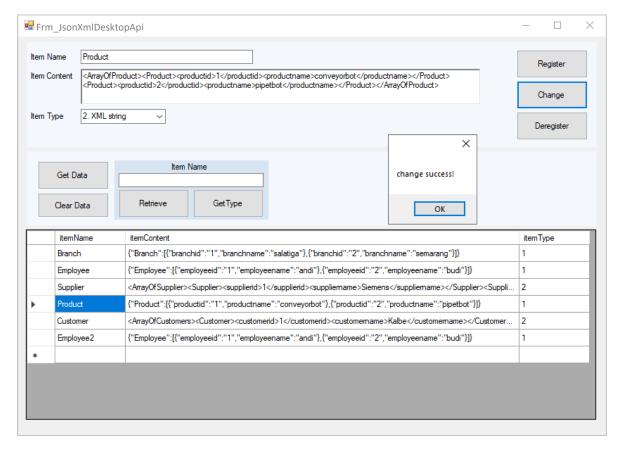


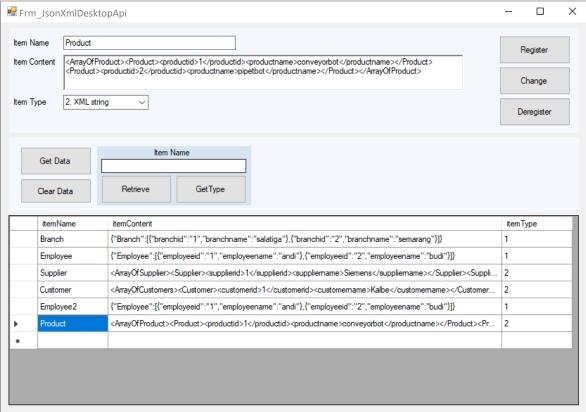


#### 6. Change

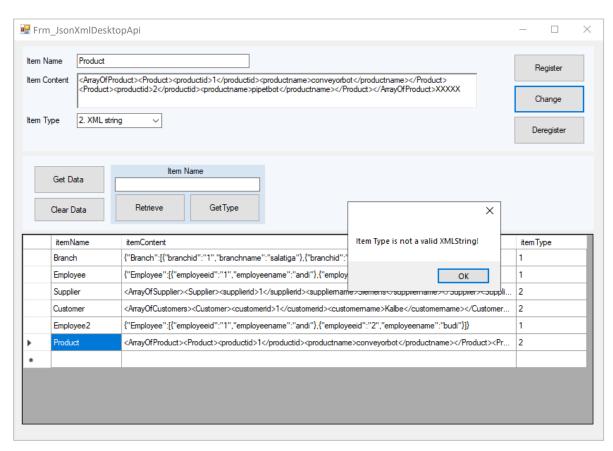
When Change button is clicked, data available on Item Name, Item Content and Item Type fields will be saved based on its Item Name on record.

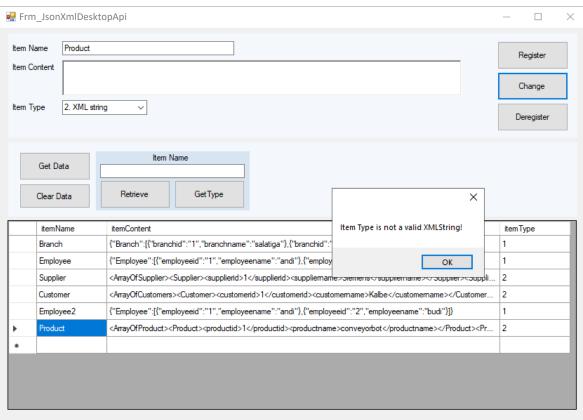


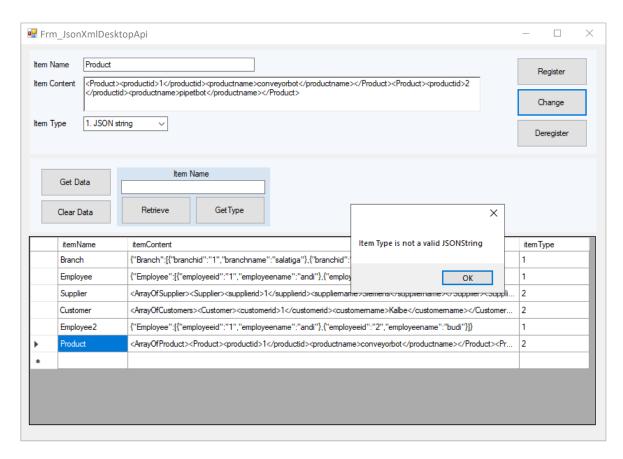




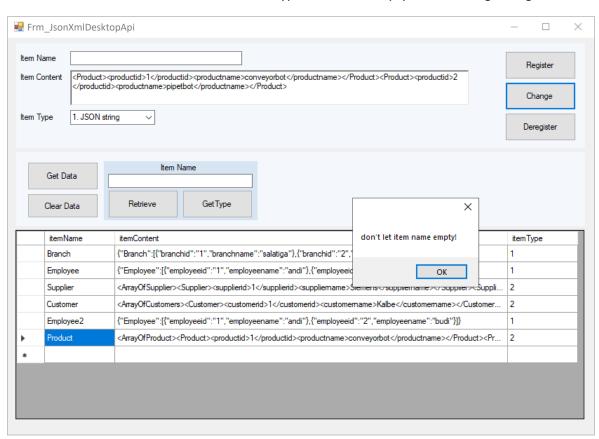
Validation is made to filter unsuitable Item Content field and its JSON/XML content type represented by Item Type field.

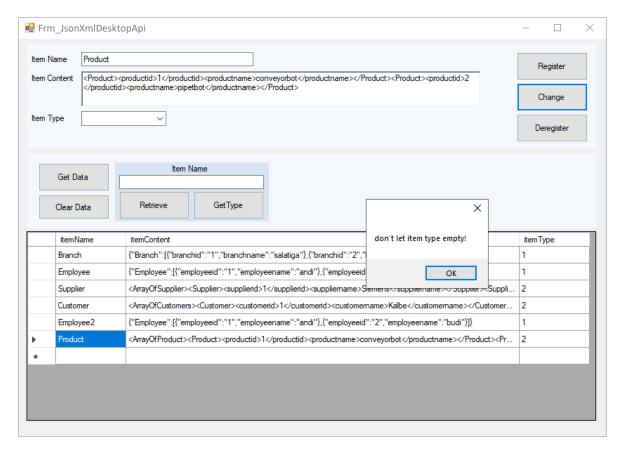




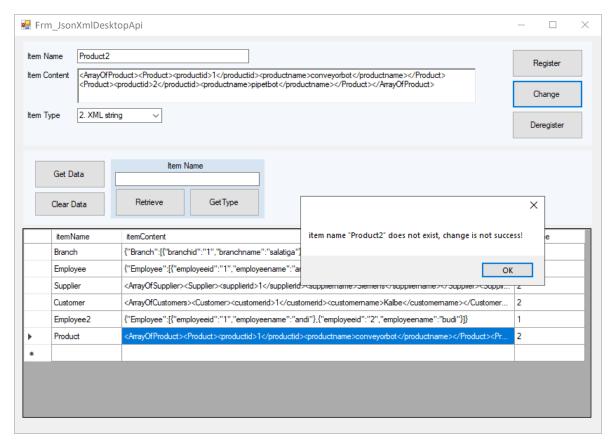


Validation is also made if Item Name or Item Type text box is empty when clicking Change button.



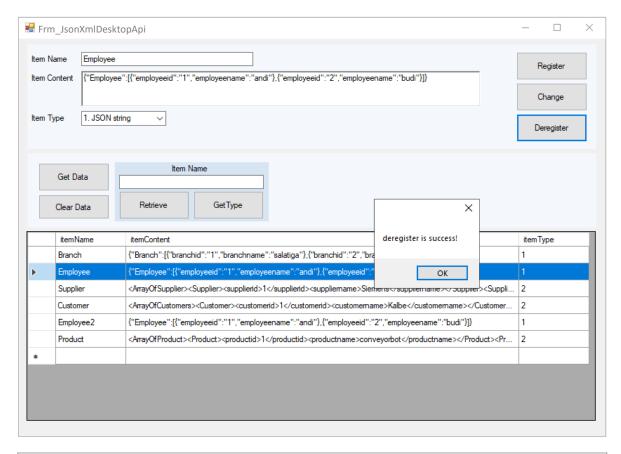


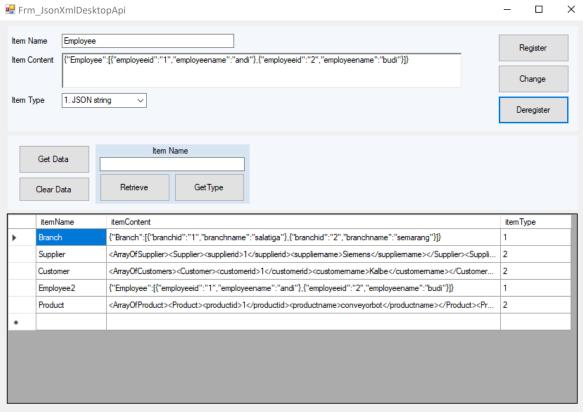
Another validation is Item Name not exist in data set will never be saved when clicking Change button.



## 7. Deregister

When Deregister button is clicked, chosen single data available will be deleted from record.





Validation is made when Item Name to be deleted does not exist in dataset.

