

CS MINI PROJECT FARMHOUSE

Team No: 14

Members:

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Program Synopsis

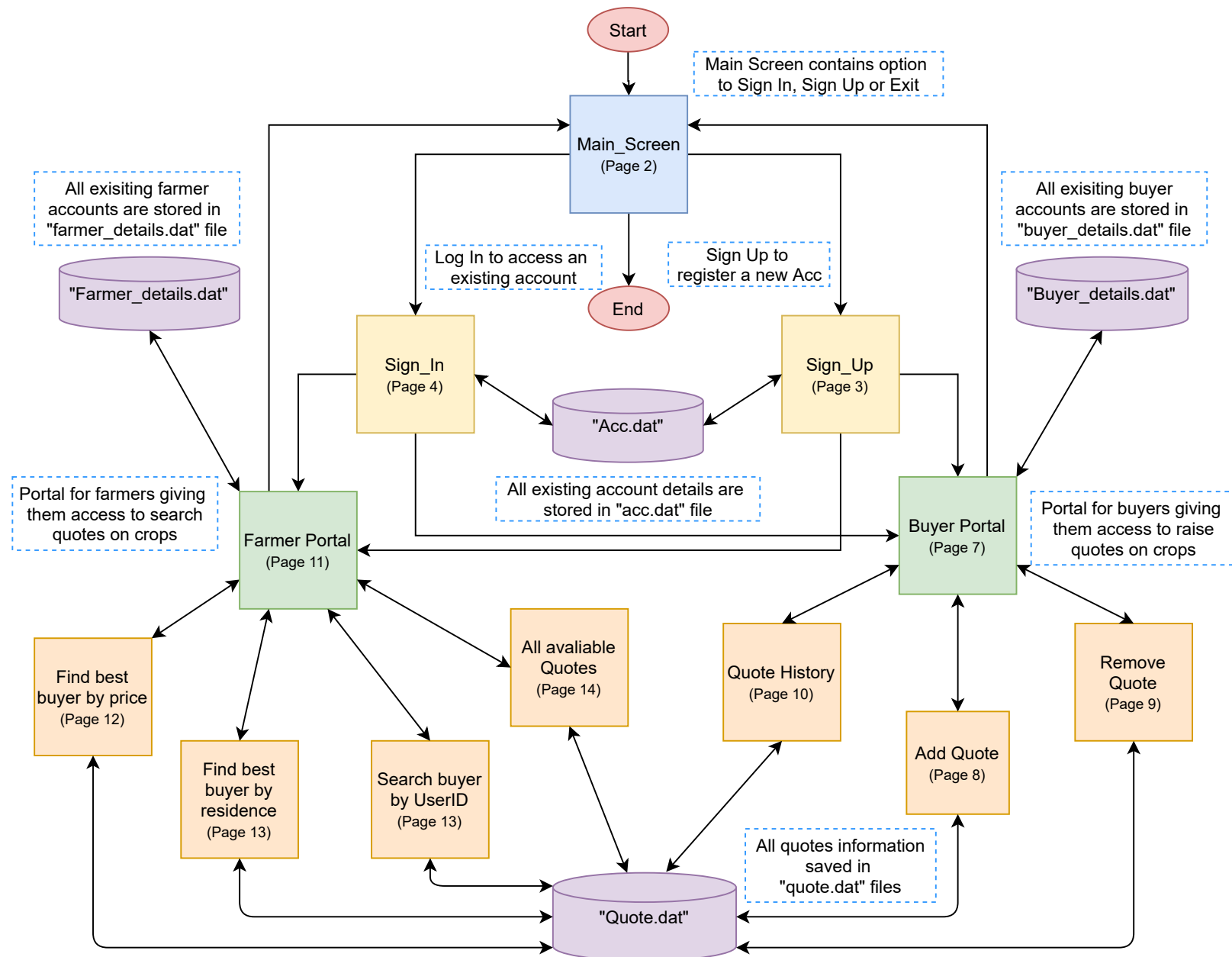
Farm-House is a user friendly program application that allows a quick and easy communication and transfer of information between a farmer and the buyer. Farm-House allows different users to choose which category they belong to (Farmer or Buyer) and provides them with appropriate options to make their interface as simple as possible.

Program Structure

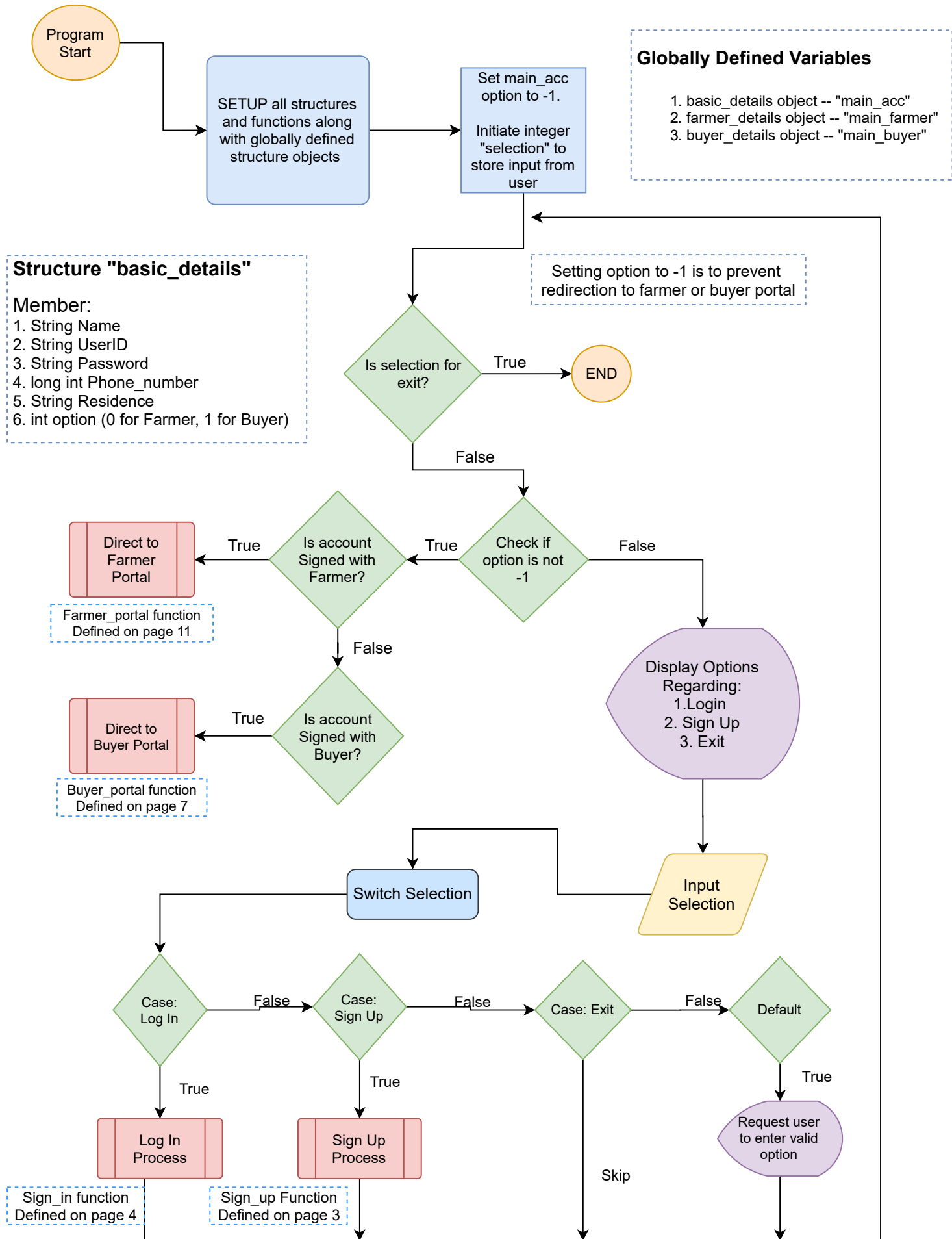
Farm-House uses 4 structures:

1. "basic_details" - for storing UserID and Password of an acc as well as other details
2. "farmer_details" - for storing farmer related information of the account
3. "buyer_details" - for storing buyer related information of the account
4. "buyer_quotes" - for storing information on each quote issued by a buyer on the application

Program Overview Design and Index



Function-Wise Flowchart



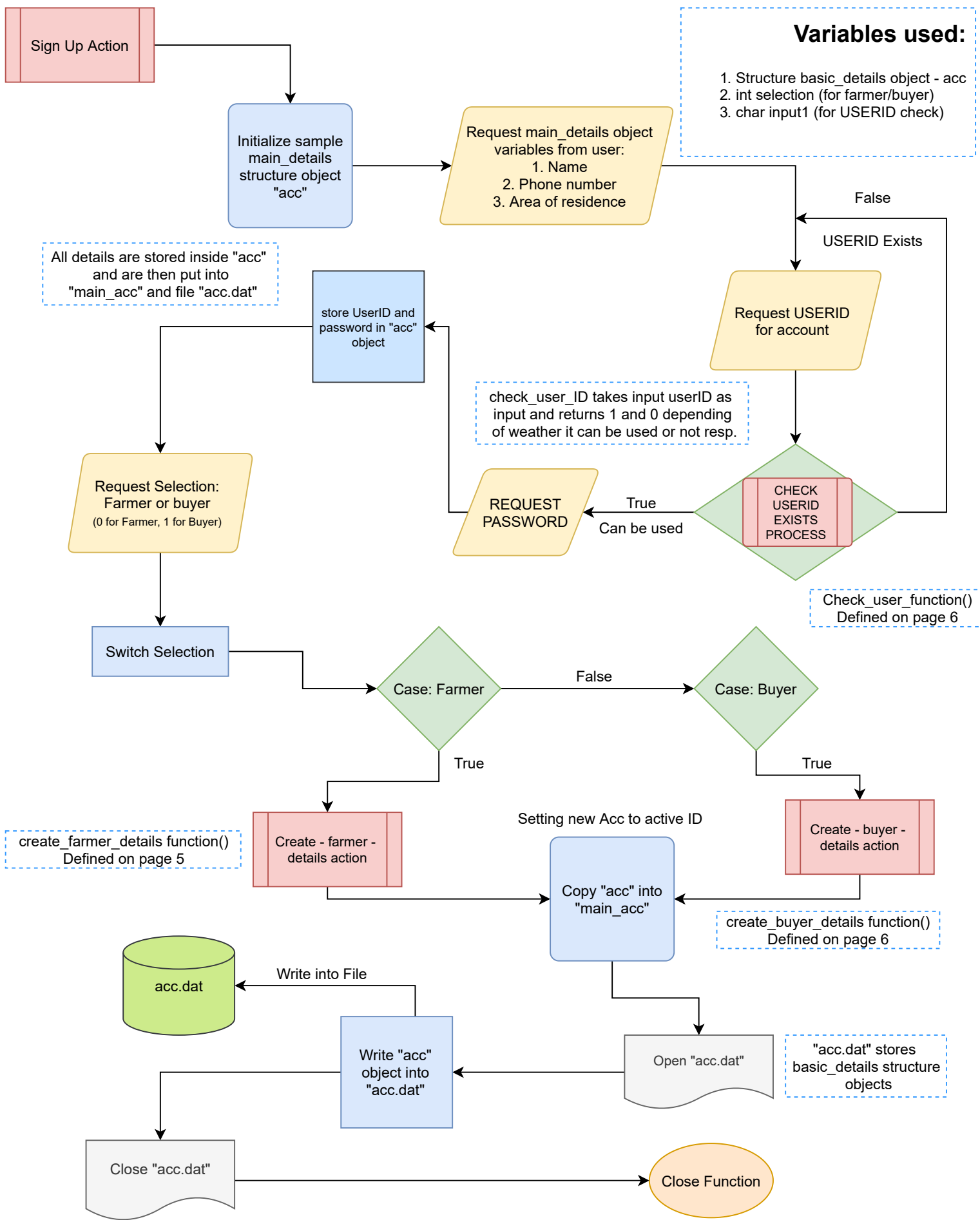
SIGN UP FUNCTION

Used to Add a new account to the database

Sign_Up

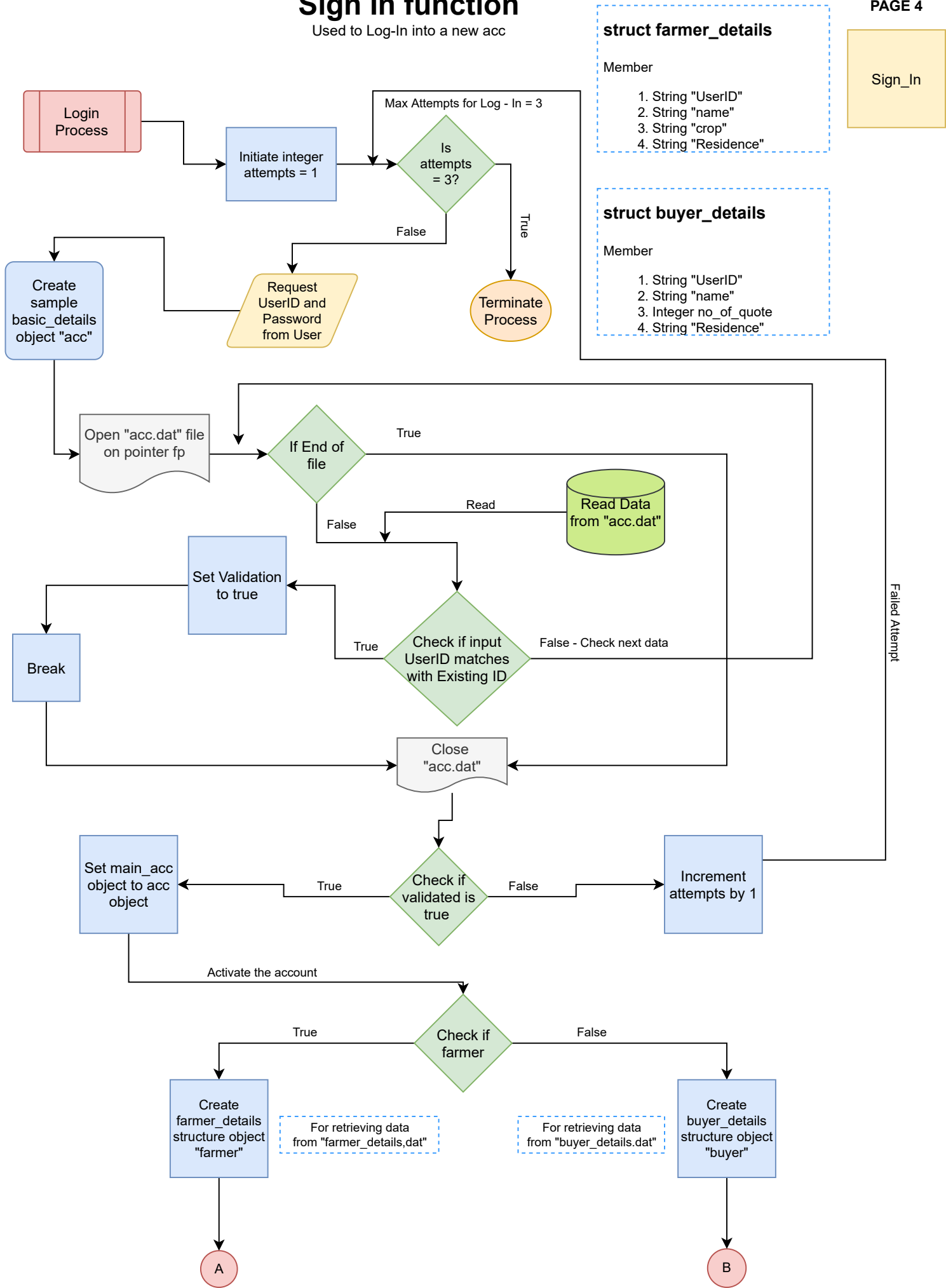
Variables used:

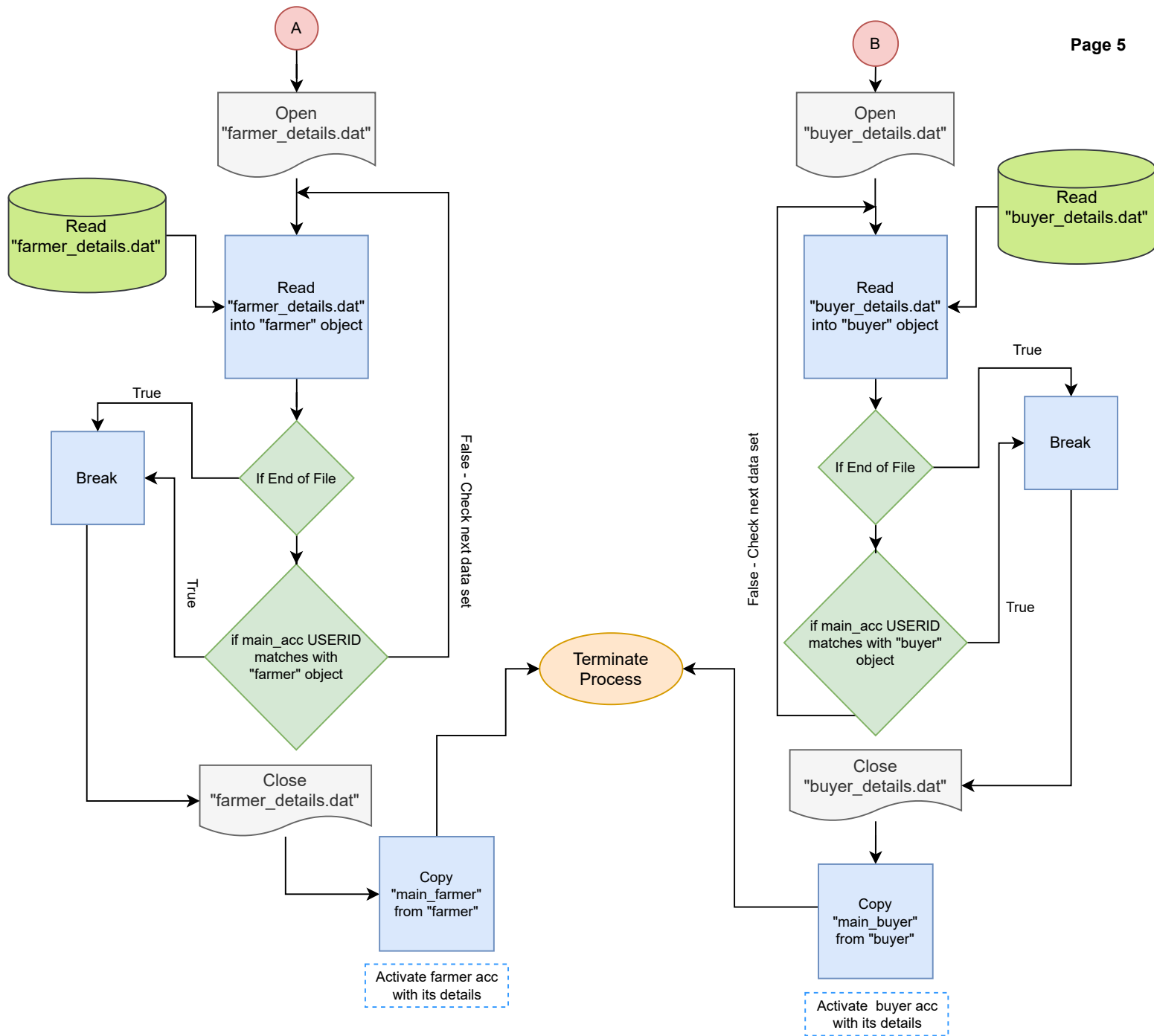
1. Structure basic_details object - acc
2. int selection (for farmer/buyer)
3. char input1 (for USERID check)



Sign In function

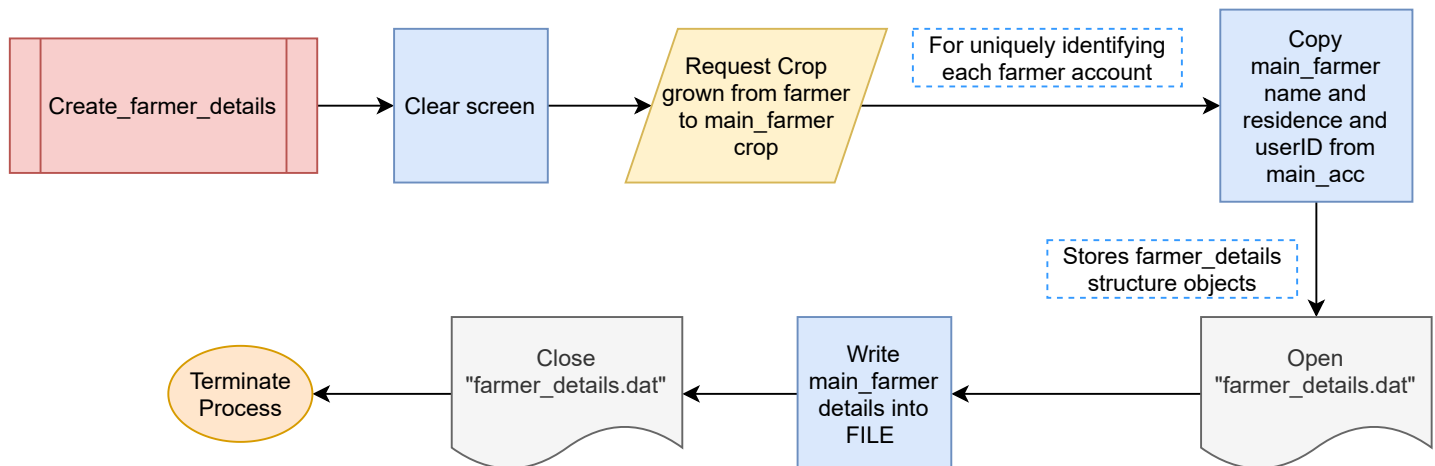
Used to Log-In into a new acc





Create_farmer_details

Creates farmer details entry in file and sets to active account

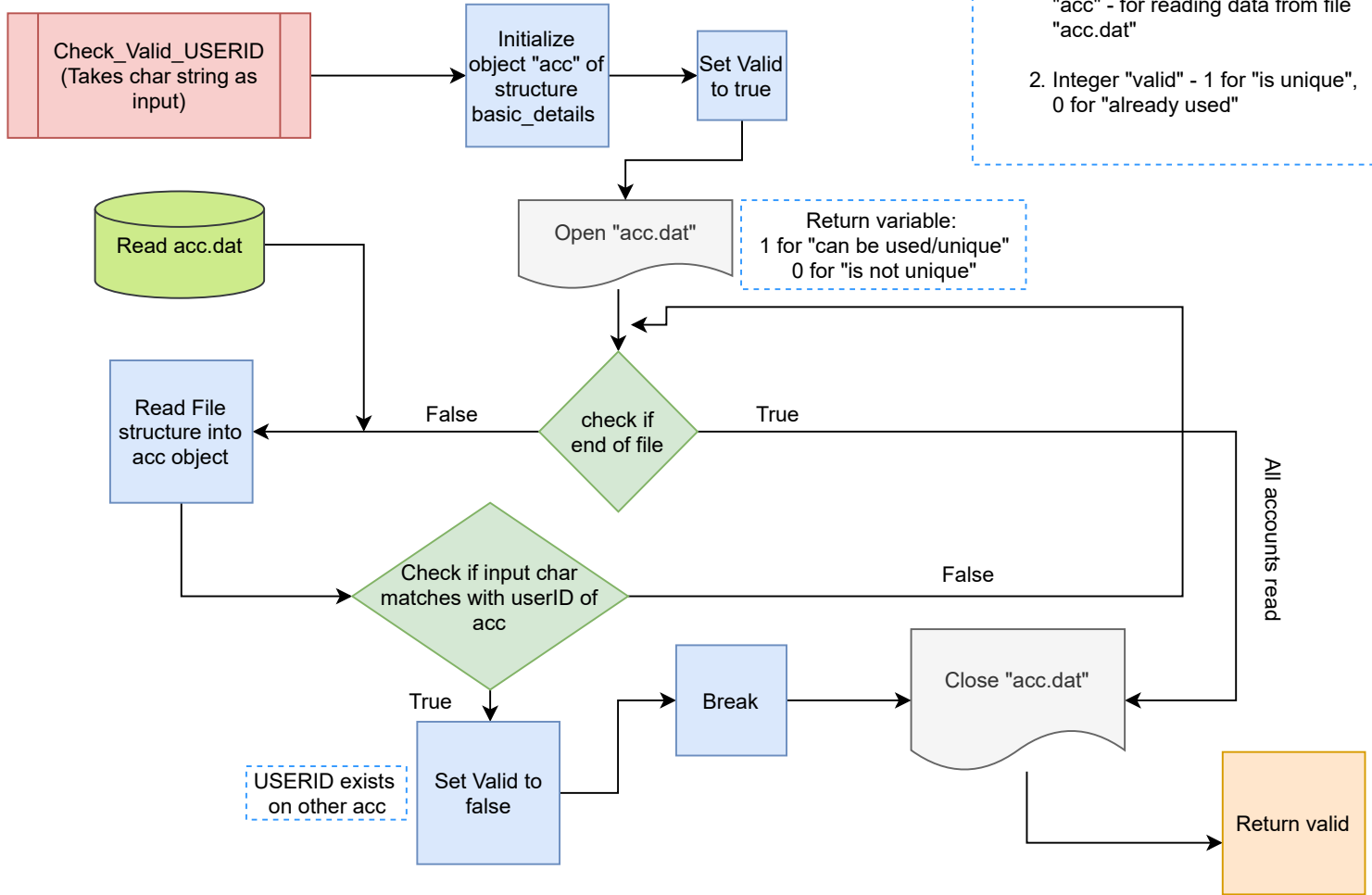


check_valid_userID

Used to check if the string the function is called is unique compared to other IDs

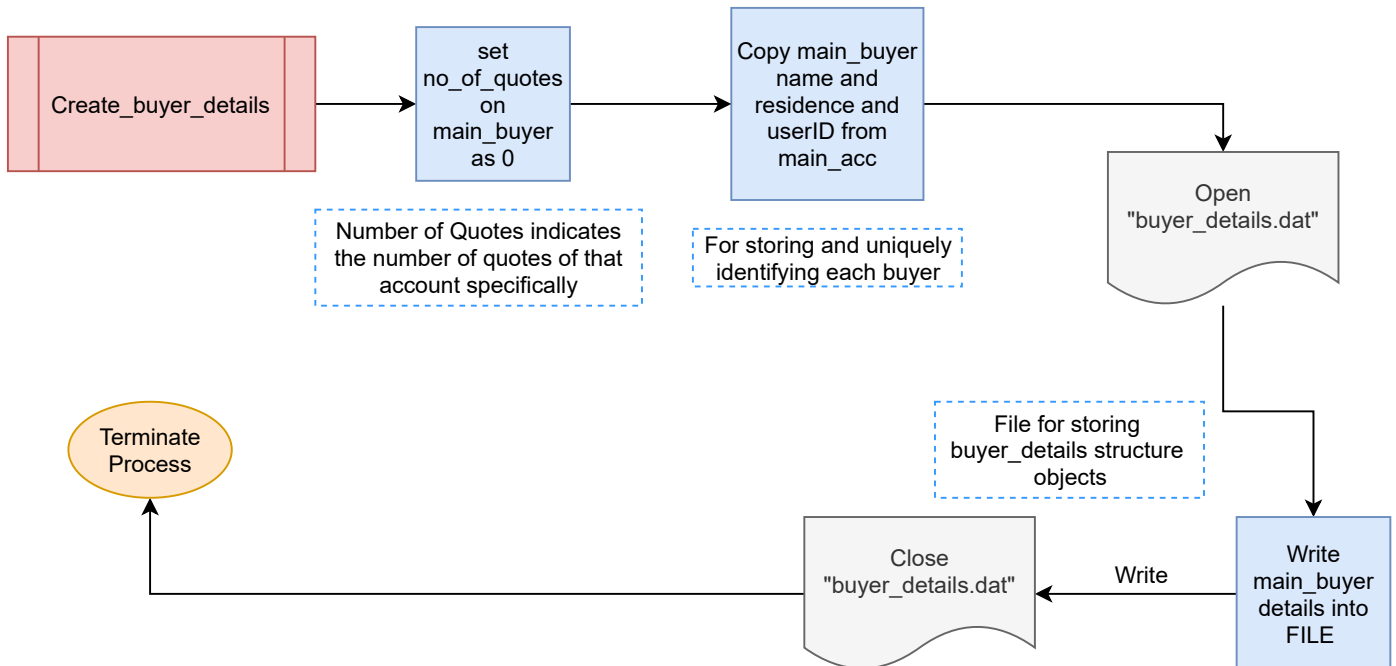
Variables used

1. Basic_details structure object "acc" - for reading data from file "acc.dat"
2. Integer "valid" - 1 for "is unique", 0 for "already used"



create_buyer_details

Creates new buyer account and makes it active.



Buyer Portal

Displays Options for user if Buyer

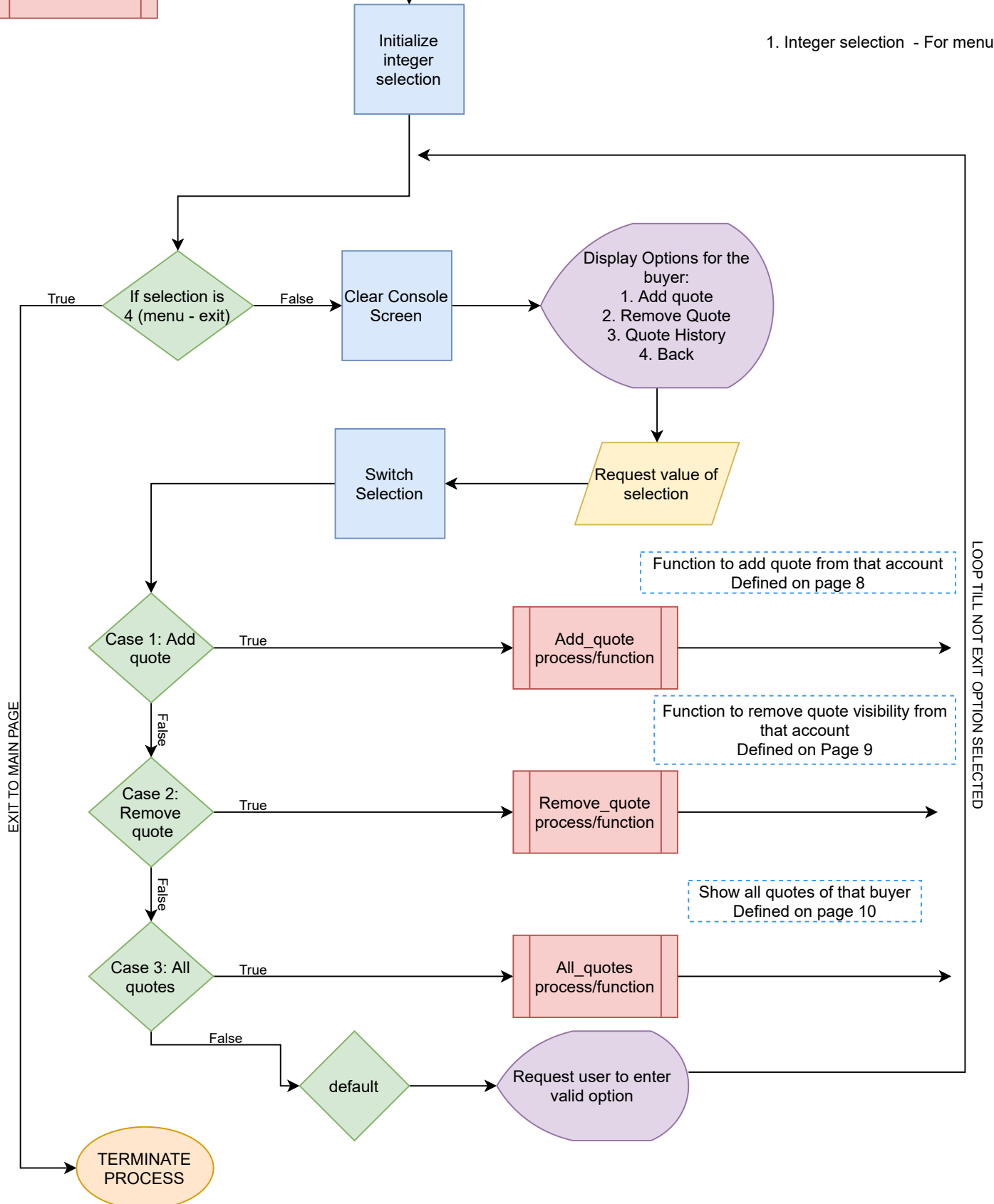
Buyer Portal

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Buyers_portal

Variables used

1. Integer selection - For menu input



Add_quote()

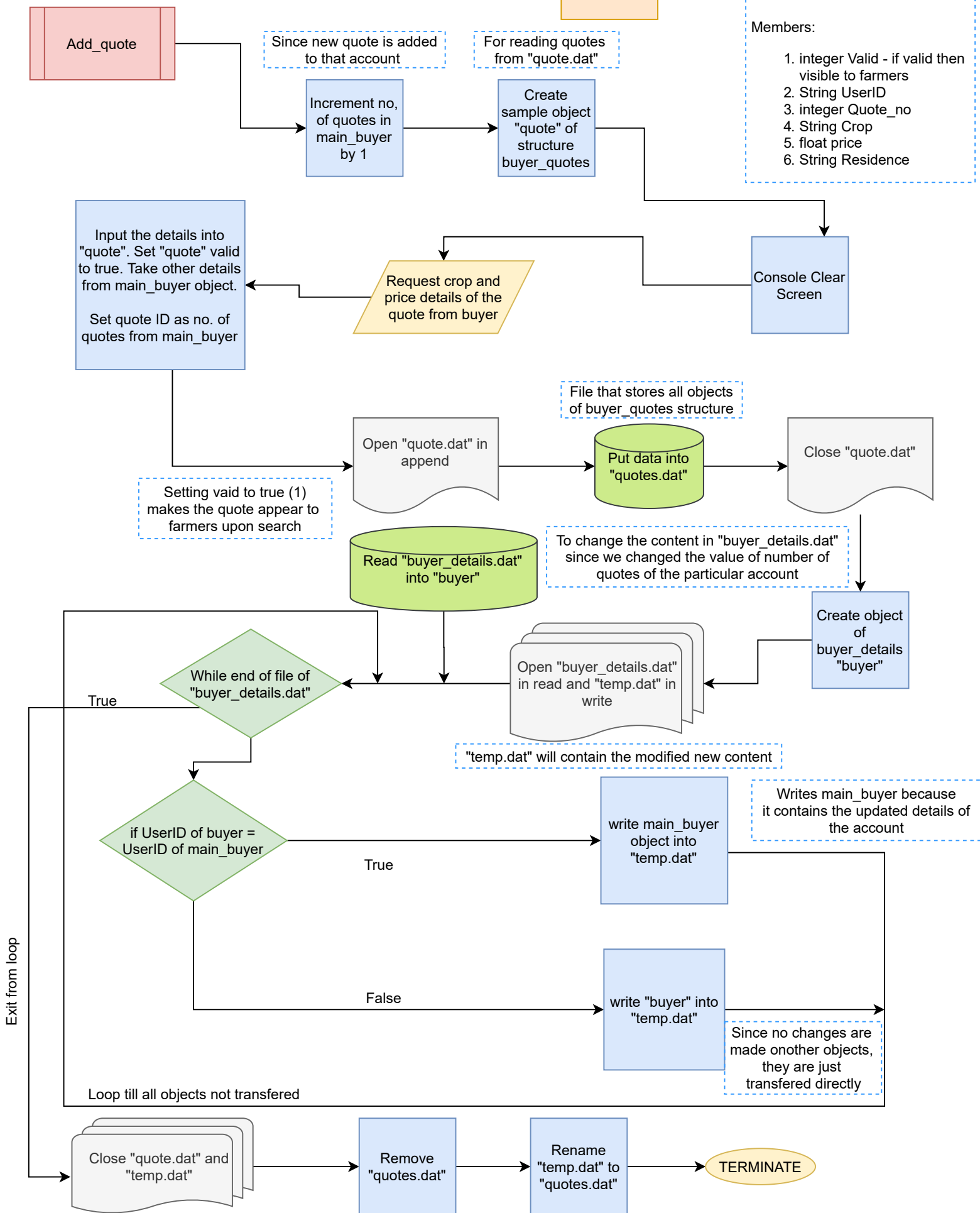
Add Quote entry to database

Add Quote

Structure buyer_quotes

Members:

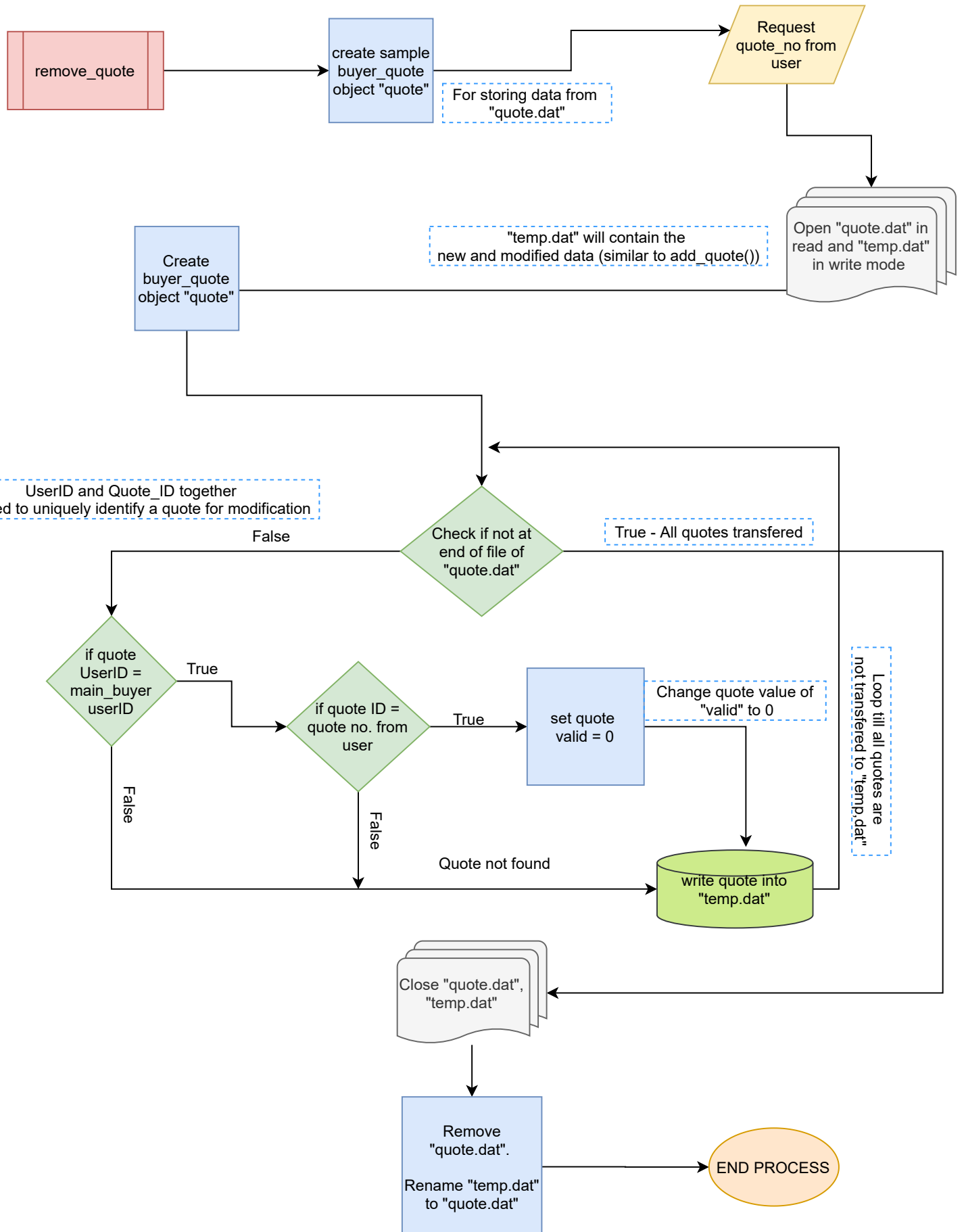
1. integer Valid - if valid then visible to farmers
2. String UserID
3. integer Quote_no
4. String Crop
5. float price
6. String Residence



Remove
Quote

Remove_quote()

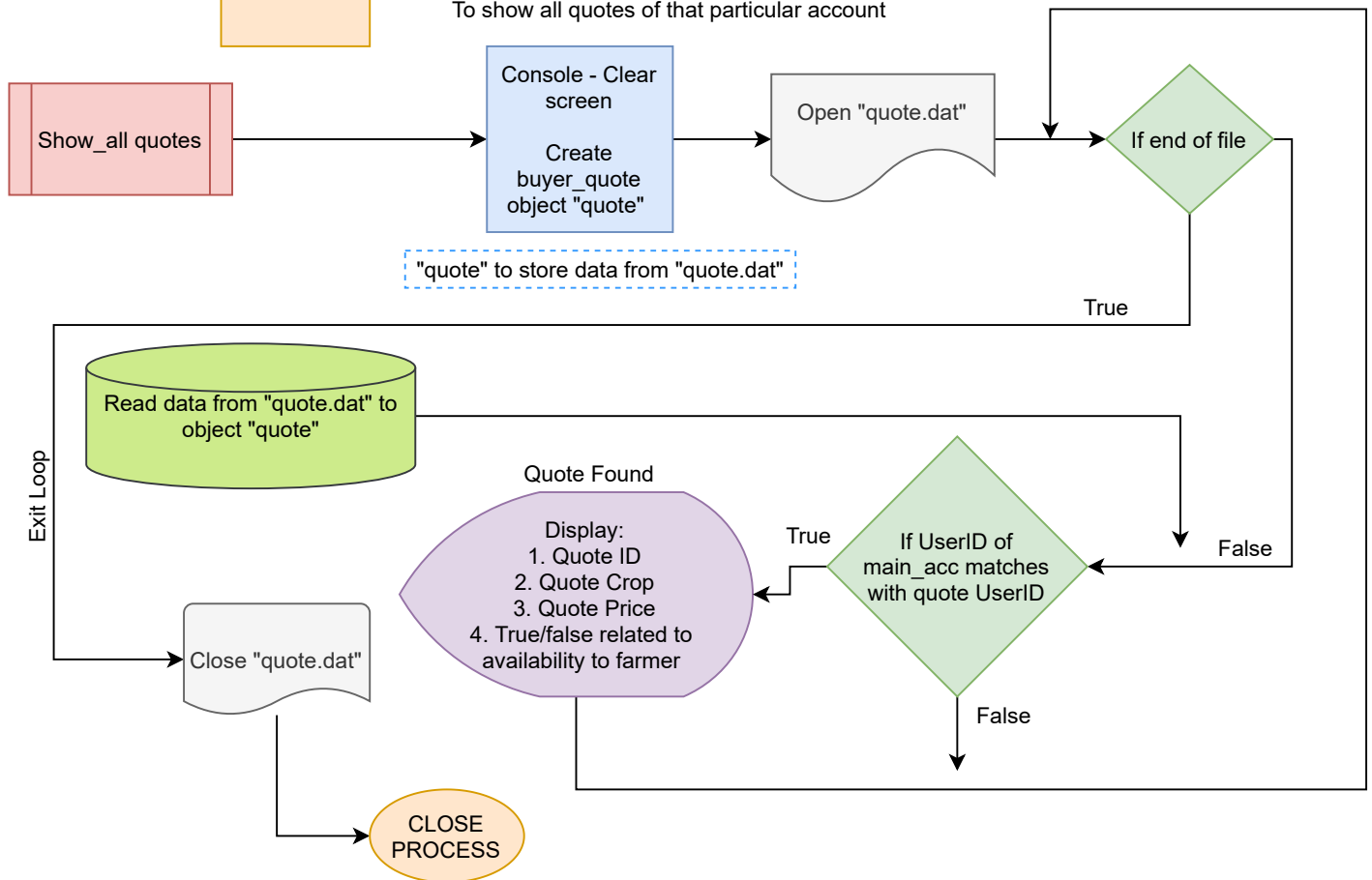
Removes quote availability for farmers (makes valid to false)



Quote History for Buyer

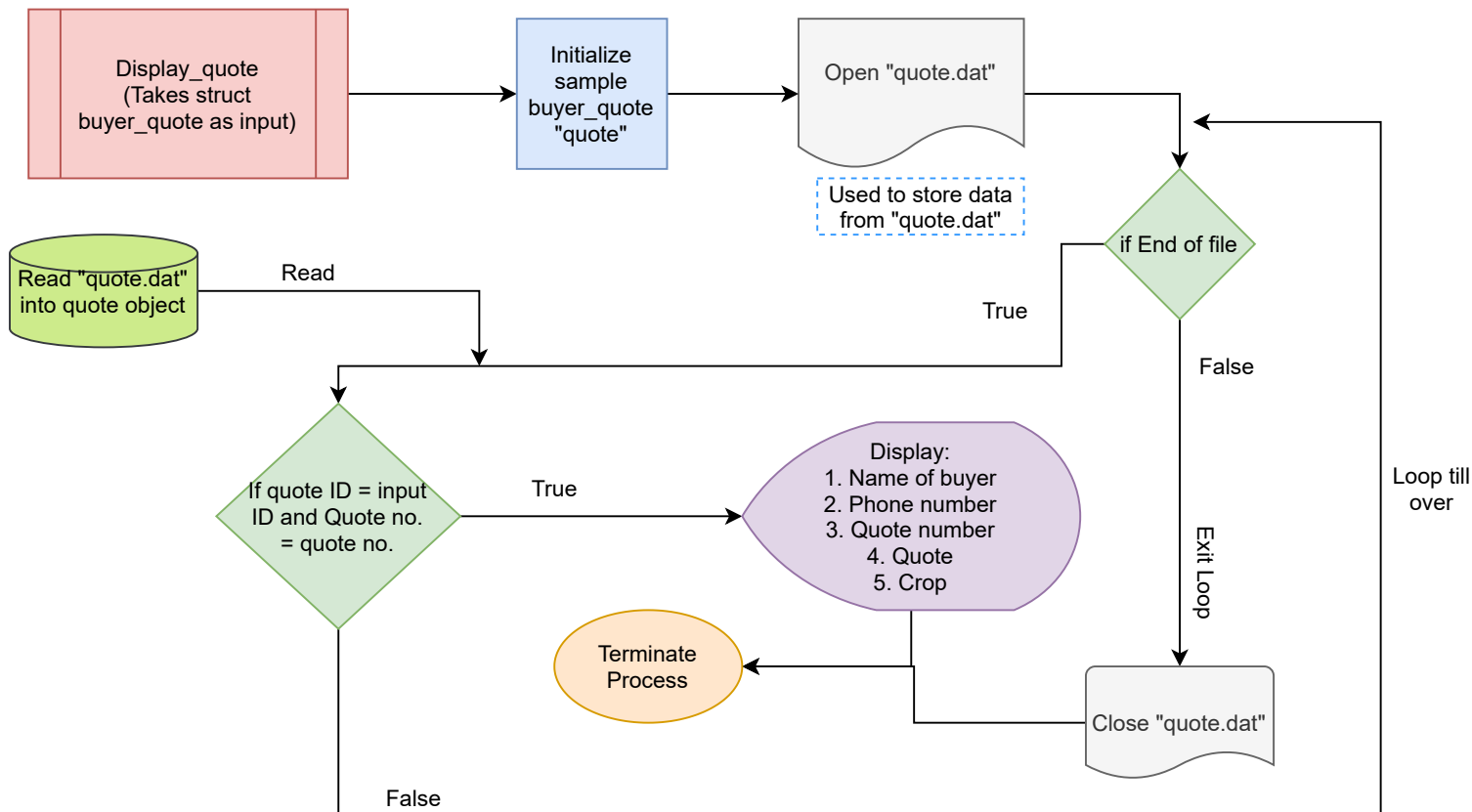
Quote History

To show all quotes of that particular account



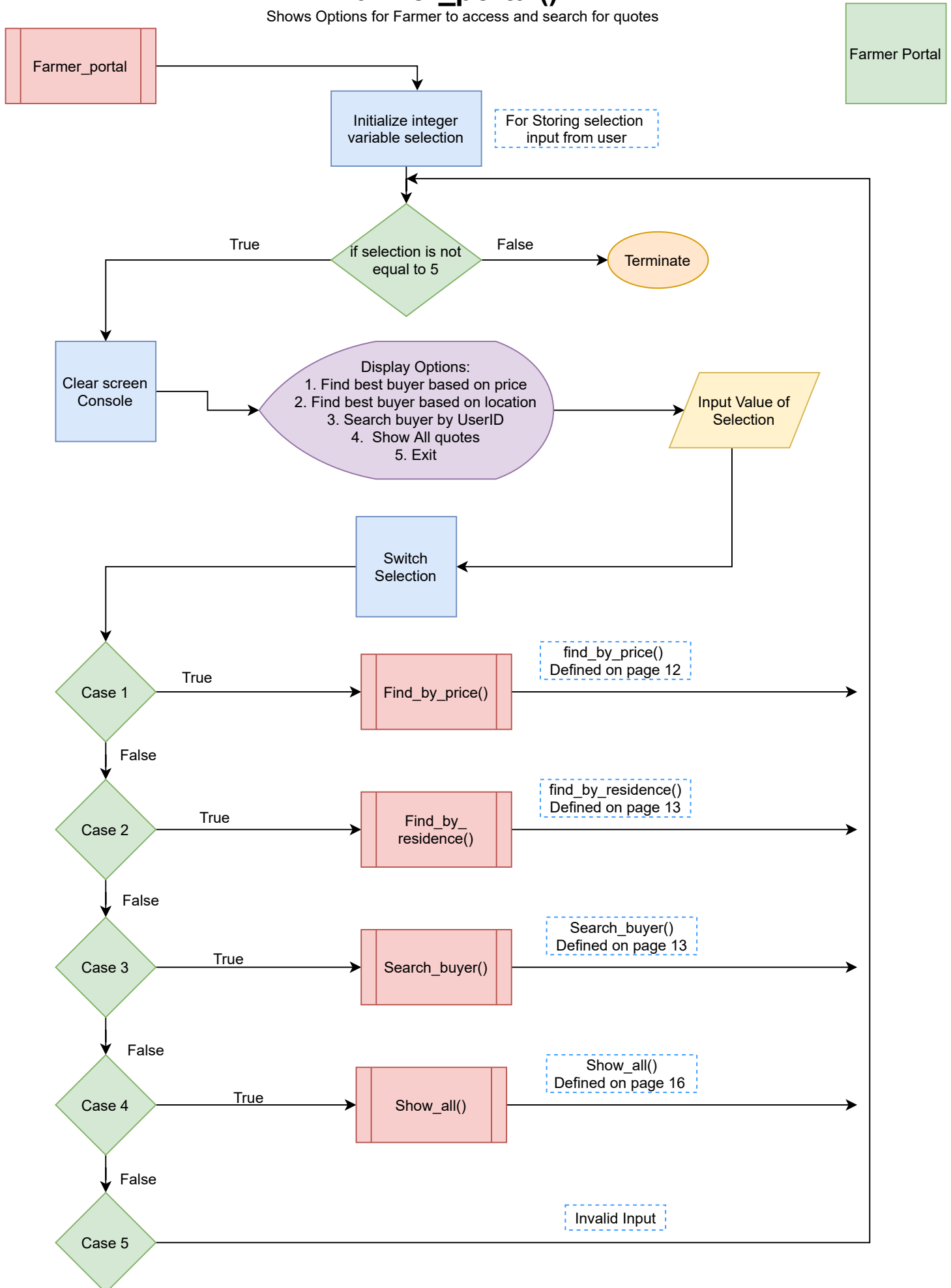
Display_quote()

Takes in structure buyer_quotes object as input and displays its corresponding details



Farmer_portal()

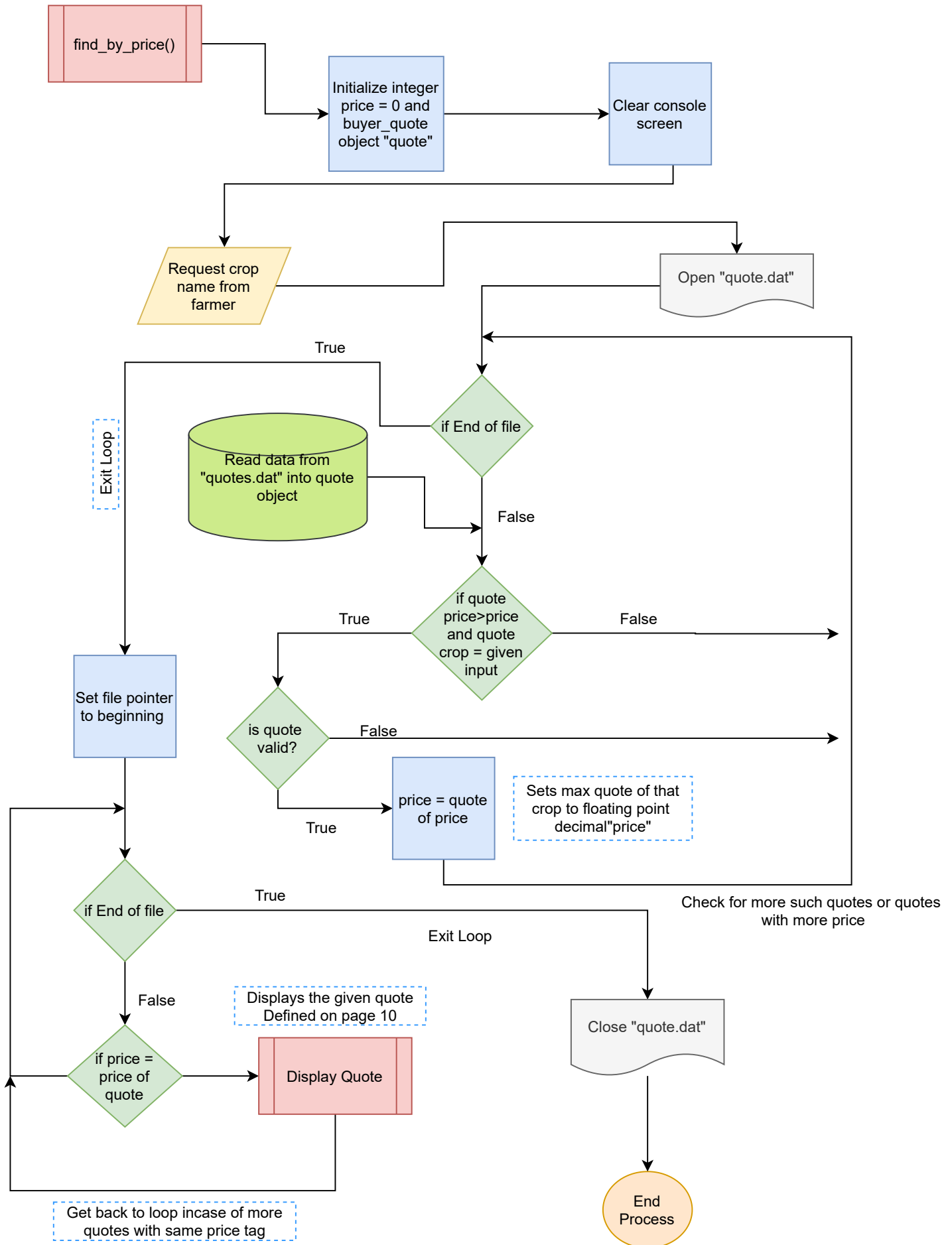
Shows Options for Farmer to access and search for quotes



Find_by_price

Finds best quote by price for a buyer depending on a given crop

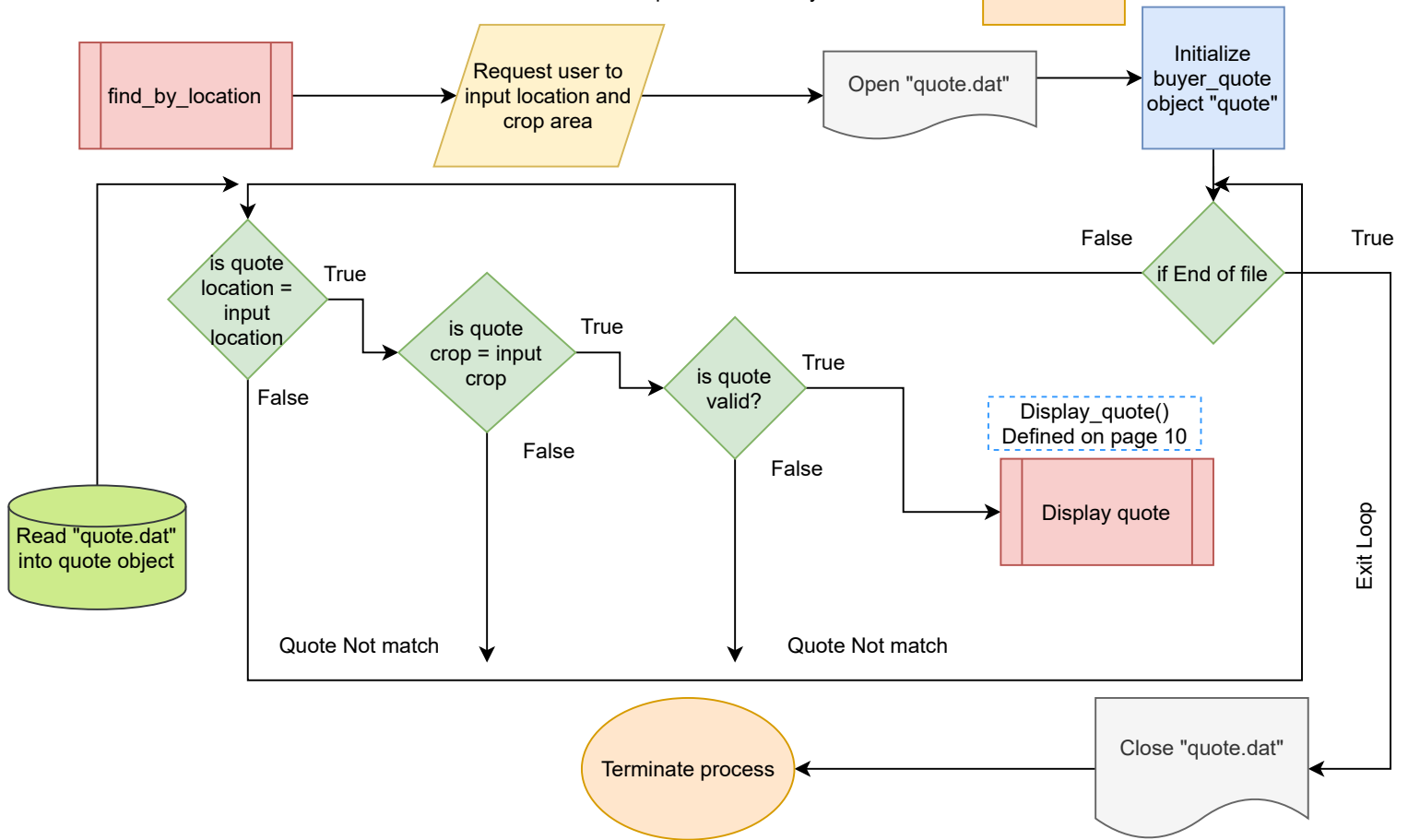
Find by Price



Find_by_location

Used to find best quote available by location search

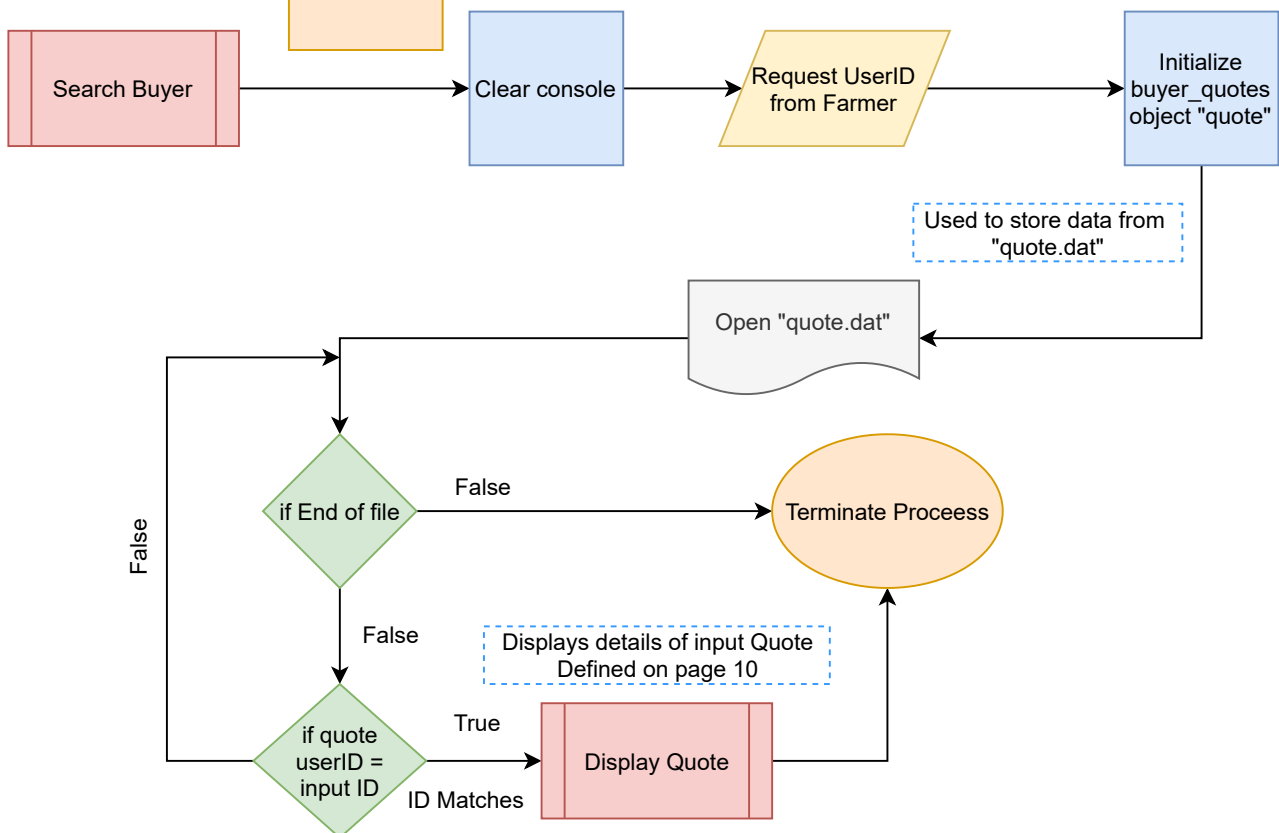
Find By Location



Search_by_ID

Allows farmer to search a buyer by ID

Search by ID



Show_all_quote

Shows all quotes that is accessible to farmers (Quote.valid is 1)

Show All
Quotes

