

CRITERION B: Design Documentation

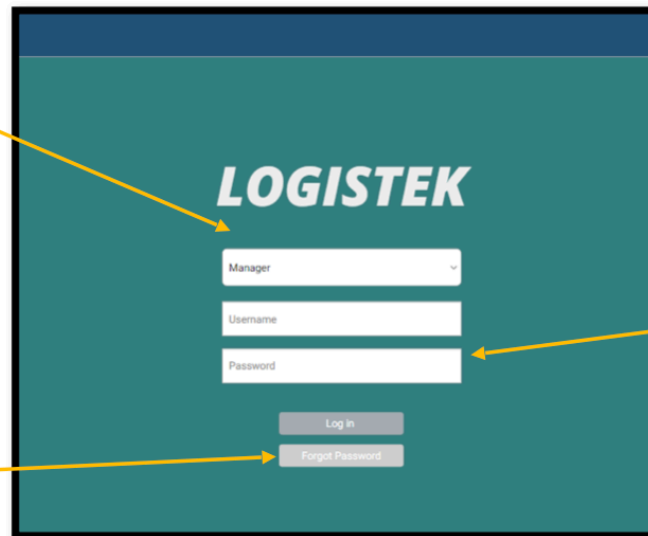
B1.2: TEST PLAN

Test No.	Test Type	Nature of Test	Example
1.	The program will be connected to a database with log in credentials. The user's input will be validated against the stored values to allow the login.	Inputting the correct login credentials and usertype and attempting to login. Repeating the same with incorrect login credentials and usertype to check if program will provide an incorrect log-in message prompt.	<u>Correct Login</u> User type: Manager User name: Manager01 Password:123456 <u>Incorrect Login</u> User type: Manager User name: Driver01 Password:432913
2	The program will send the user to different panels depending on user type selected	Logging into the Manager user type and checking if goes to the correct user panel. Repeating the same with the Driver user type.	Displays Manager panel for Manager user type and Driver panel for Driver user type.
3	The program has a clear form function to clear input boxes	Click clear form button and it should remove all the data in the input boxes allowing new inputs.	If the clear form button is clicked, all input boxes are cleared
4	The program has a sign out function and a back page function	Clicking signout button to see if it redirects user back to log in. Clicking back button to see if it redirects user to previous page.	If the signout button is clicked, user is redirected to log in page If the back button is clicked, user is directed to previous page.
5	The program should allow only integer inputs for the truck and trailer ID inputs for the driver user.	Inputting integer values for the trailer and truck id inputs to see if it is accepted. Repeating the same with string values and checking it's rejected.	<u>Input:</u> 101 <u>Output:</u> Information saved to database <u>Input:</u> One hundred and one <u>Output:</u> Incorrect data type

6	The program should allow only string inputs for the driver name input for the driver user.	Inputting string values for the driver name to see if it is accepted. Repeating the same with integer values and checking it's rejected.	<u>Input:</u> John Doe <u>Output:</u> Information saved to database <u>Input:</u> J0HN DO3 <u>Output:</u> Incorrect data type
7	The program should store the drivers input in the MySQL database	Click save button and be prompted with a saved to database message.	Saving the driver's input and crosschecking with the MySQL database to see if it's been saved
8	The program allows the manager user to view diiferent tables with different set criterias from the menu.	User selects the criteria set in the menu and a table should display with the fetched data from the MySQL database.	Table displayed when set criteria button clicked in Manager panel menu.
9	The program has a refresh function for the table.	User clicks refresh button and the table is refreshed and populated with new inputs	Table refresh button is clicked and table is populated with new inputs
10	The program has a Pie Chart function which displays the total avaliable trucks	User clicks Pie Chart button which displays a pie chart with the percentages and number of truck available and unavailable.	Pie chart button clicked. Pie chart displayed to user. Displays statstics when hovered over <u>For example :</u> 50%, 12 truck available.

B1.3: Graphical User Interface

S1. The program provides a hierarchy of login credentials: Manager, Driver and Mechanic.



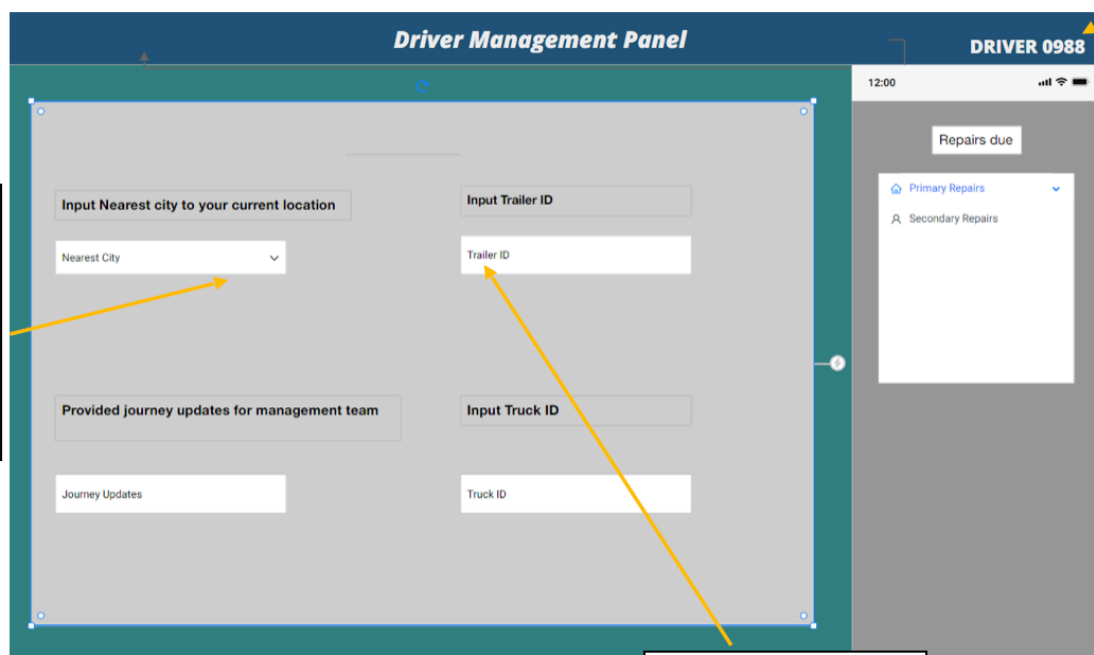
The image shows a login screen for 'LOGISTEK'. It features a dark teal background with the company name in white. Below the name, there is a dropdown menu labeled 'Manager' with a downward arrow. Underneath the dropdown are two input fields: 'Username' and 'Password'. Below these fields are two buttons: 'Log In' and 'Forgot Password'.

Dropdown menu to select login level and input box for user name and password

Forgot my password option that will provide a message to contact the system administrator

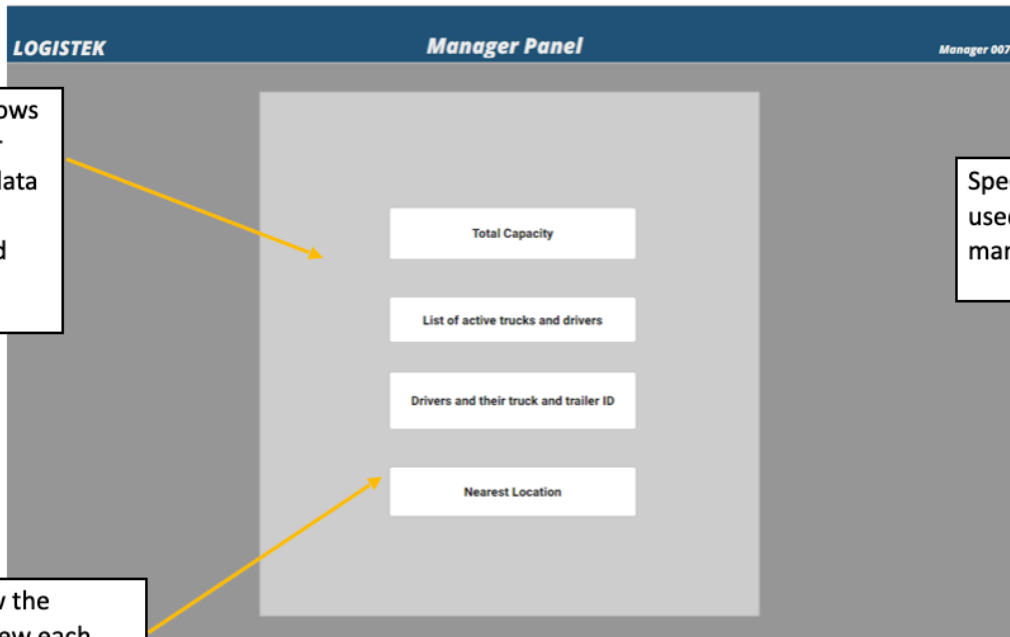
Specific log in credentials used to identify the driver

S3. The program allows the driver to input the location of the truck



The image shows a 'Driver Management Panel' interface. It has a dark blue header with the title 'Driver Management Panel' and a user identifier 'DRIVER 0988'. The main area is divided into several sections. On the left, there is a section titled 'Input Nearest city to your current location' with a dropdown menu labeled 'Nearest City'. Below this is a section titled 'Provided journey updates for management team' with an input field labeled 'Journey Updates'. On the right, there is a section titled 'Input Trailer ID' with an input field labeled 'Trailer ID'. Below this is a section titled 'Input Truck ID' with an input field labeled 'Truck ID'. On the far right, there is a sidebar with a 'Repairs due' section containing a dropdown menu labeled 'Primary Repairs' and a search bar labeled 'Secondary Repairs'.

S4. The program allows the driver to input the truck and trailer ID.

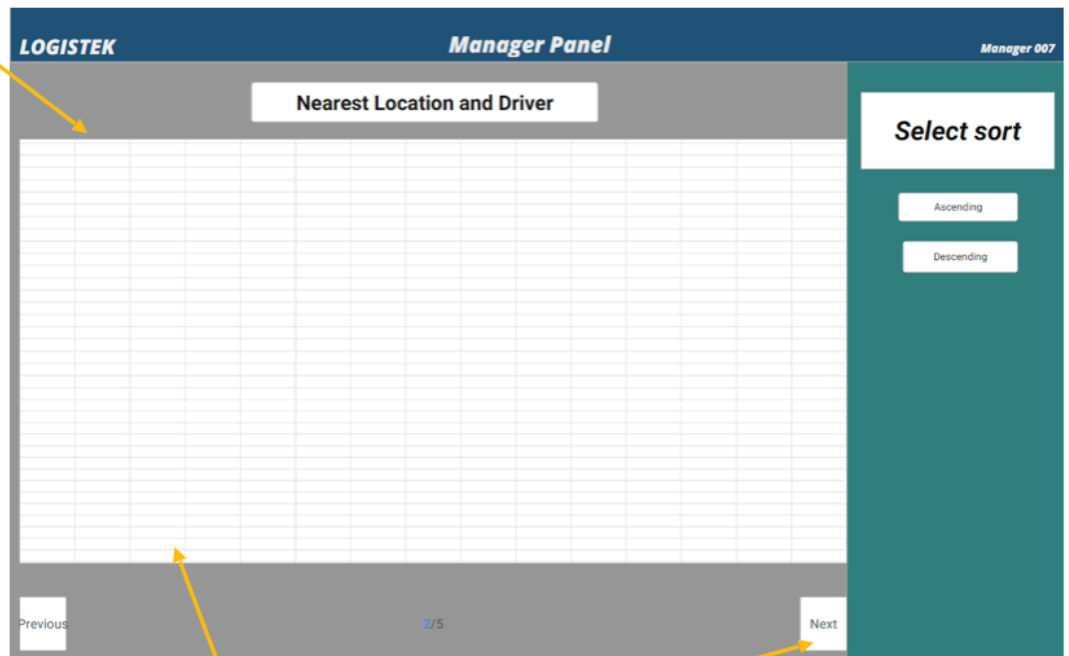


S7. The program allows those with manager access to view the data based on the inputs from the drivers and mechanics

Specific log in credentials used to identify the manager

Menu to allow the manager to view each data set independently to improve usability

S7. The program allows those with manager access to view the data based on the inputs from the drivers and mechanics



S8. The program should interpret the data and display the nearest location and drivers

Previous and Next feature to view multiple pages of data.

S7. The program allows those with manager access to view the data based on the inputs from the drivers and mechanics

LOGISTEK **Manager Panel** Manager 007

Drivers and their truck and trailer ID

Select sort

Ascending

Descending

Previous 2/5 Next

S8. The program should interpret the data and display the driver and trailer ID

Previous and Next feature to view multiple pages of data.

S7. The program allows those with manager access to view the data based on the inputs from the drivers and mechanics

LOGISTEK **Manager Panel** Manager 007

Nearest Location and Driver

Select sort

Ascending

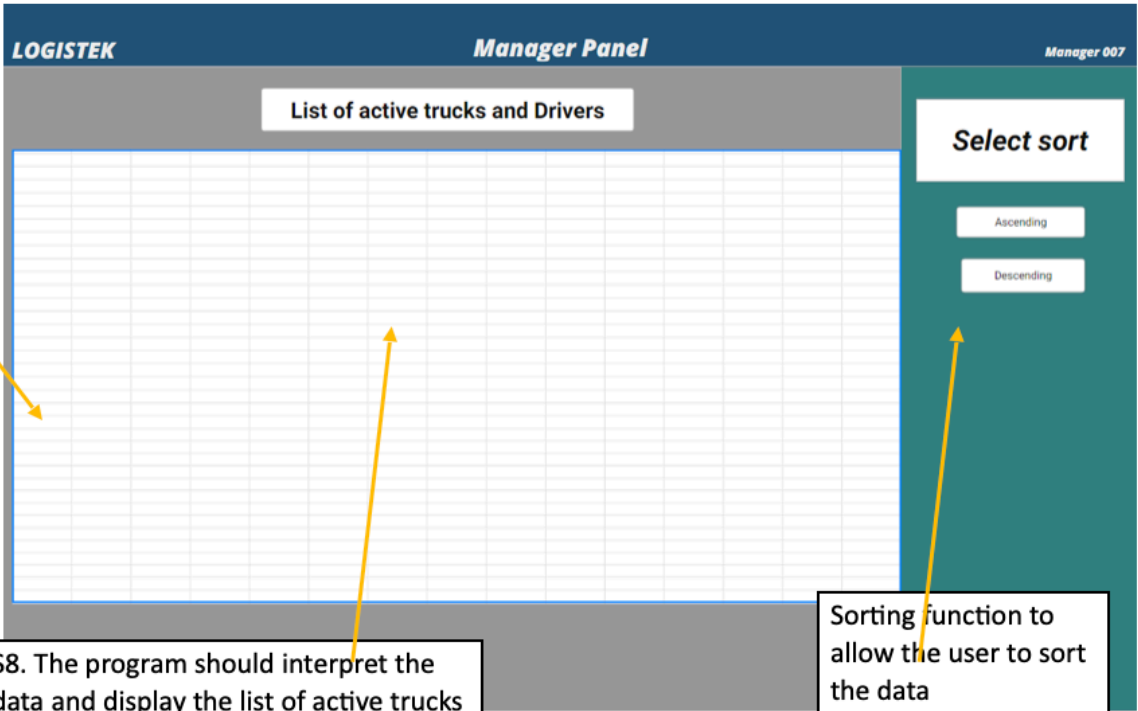
Descending

Previous 2/5 Next

S8. The program should interpret the data and display the nearest location and drivers

Previous and Next feature to view multiple pages of data.

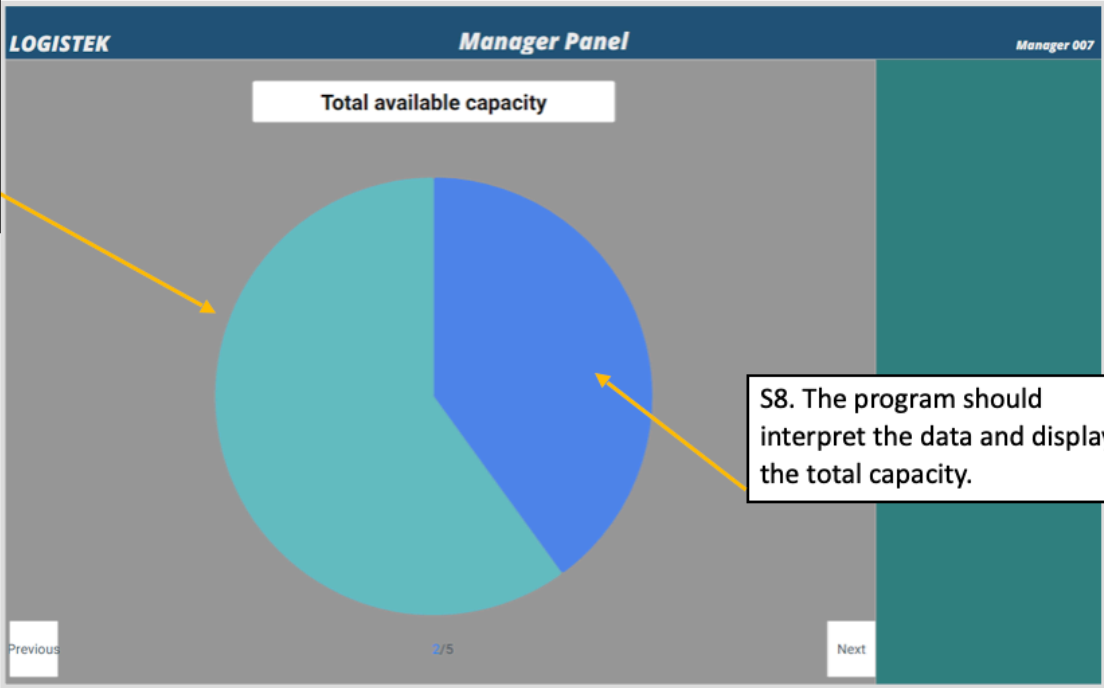
S7. The program allows those with manager access to view the data based on the inputs from the drivers and mechanics



S8. The program should interpret the data and display the list of active trucks and drivers

Sorting function to allow the user to sort the data

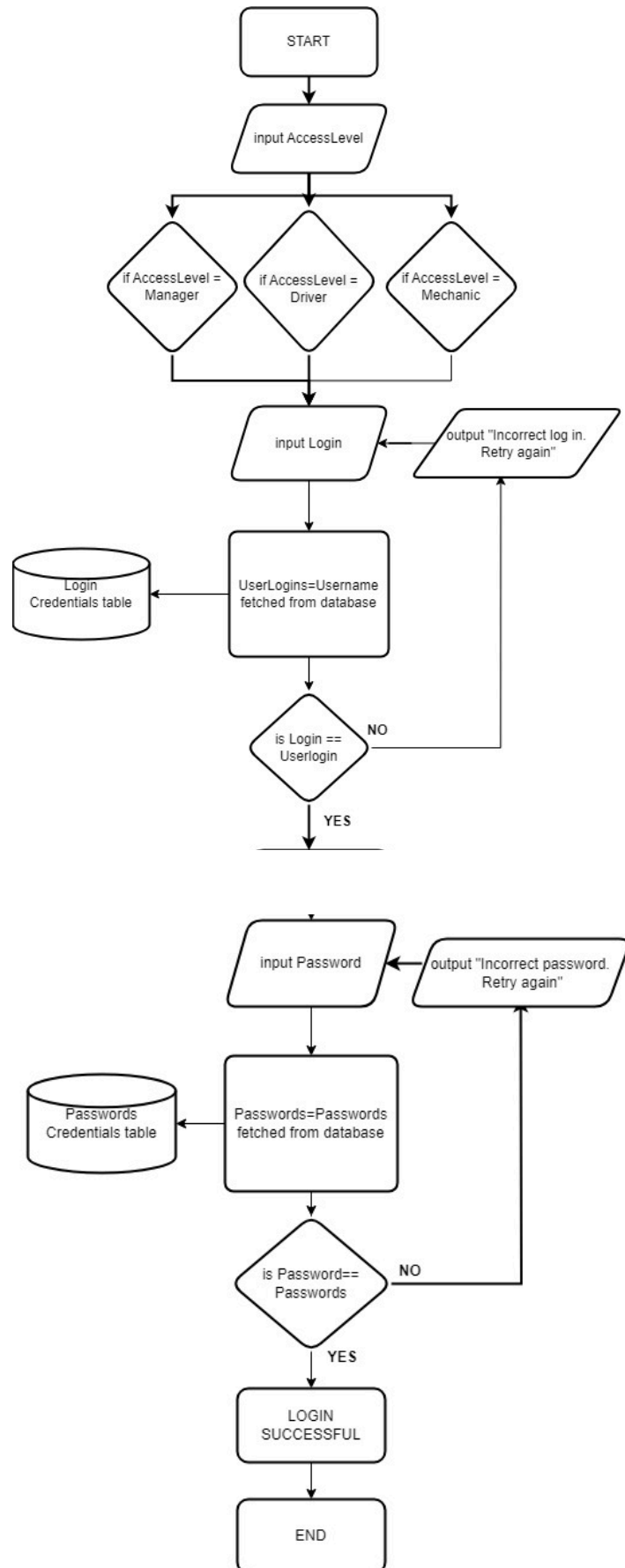
S7. The program allows those with manager access to view the data based on the inputs from the drivers and mechanics



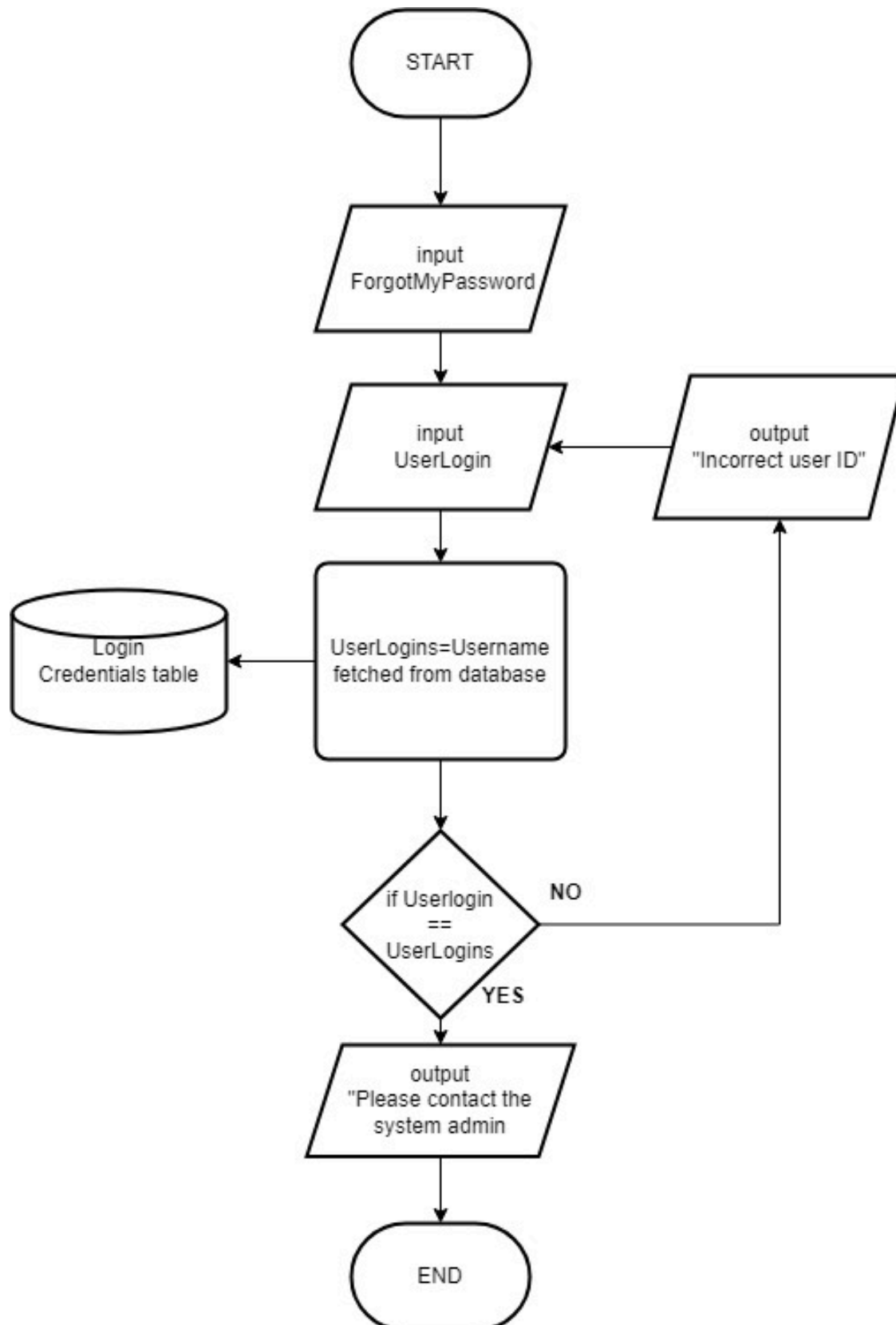
S8. The program should interpret the data and display the total capacity.

B1.4 Flowcharts

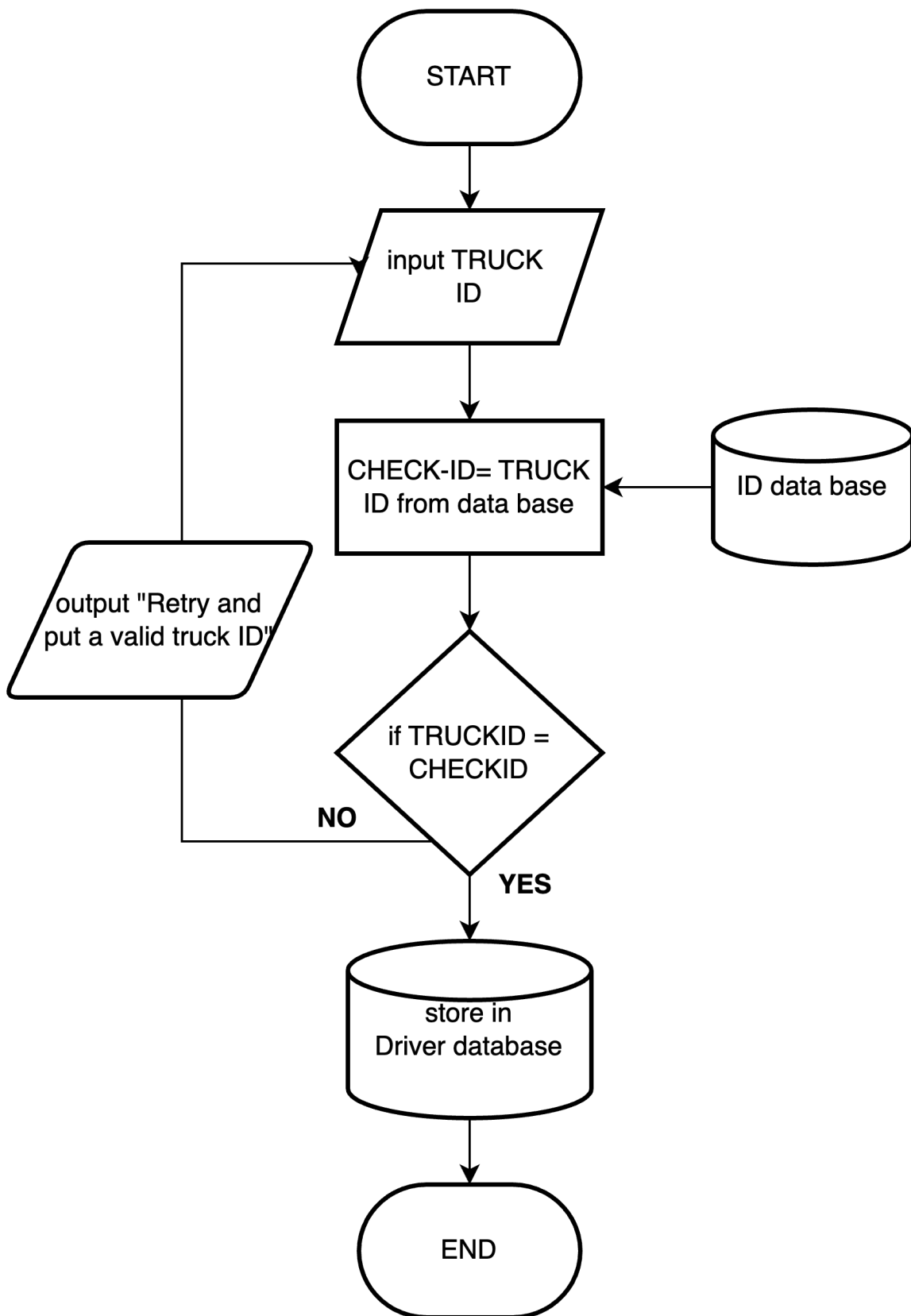
Log-In flowchart



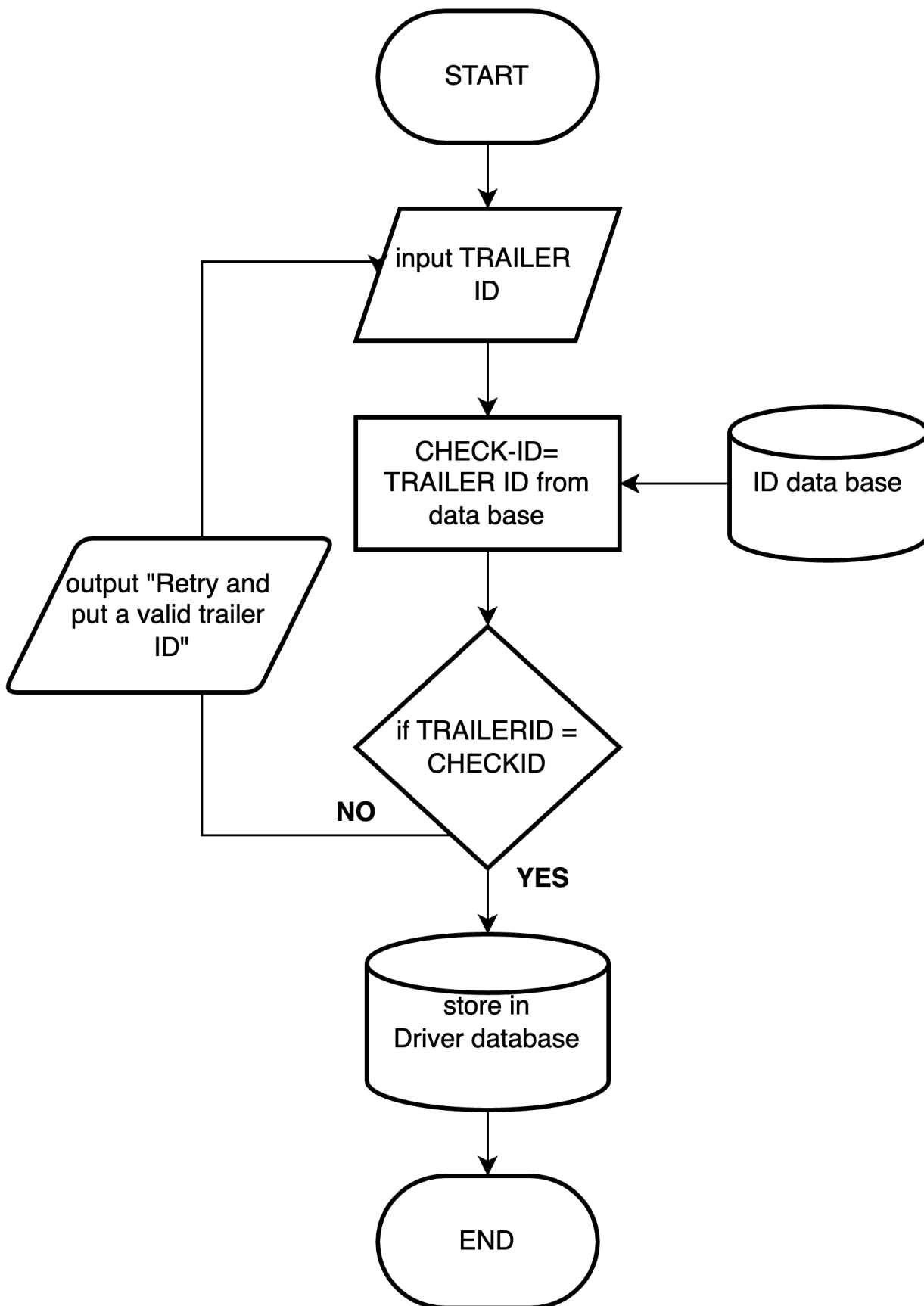
Forgot my password flowchart



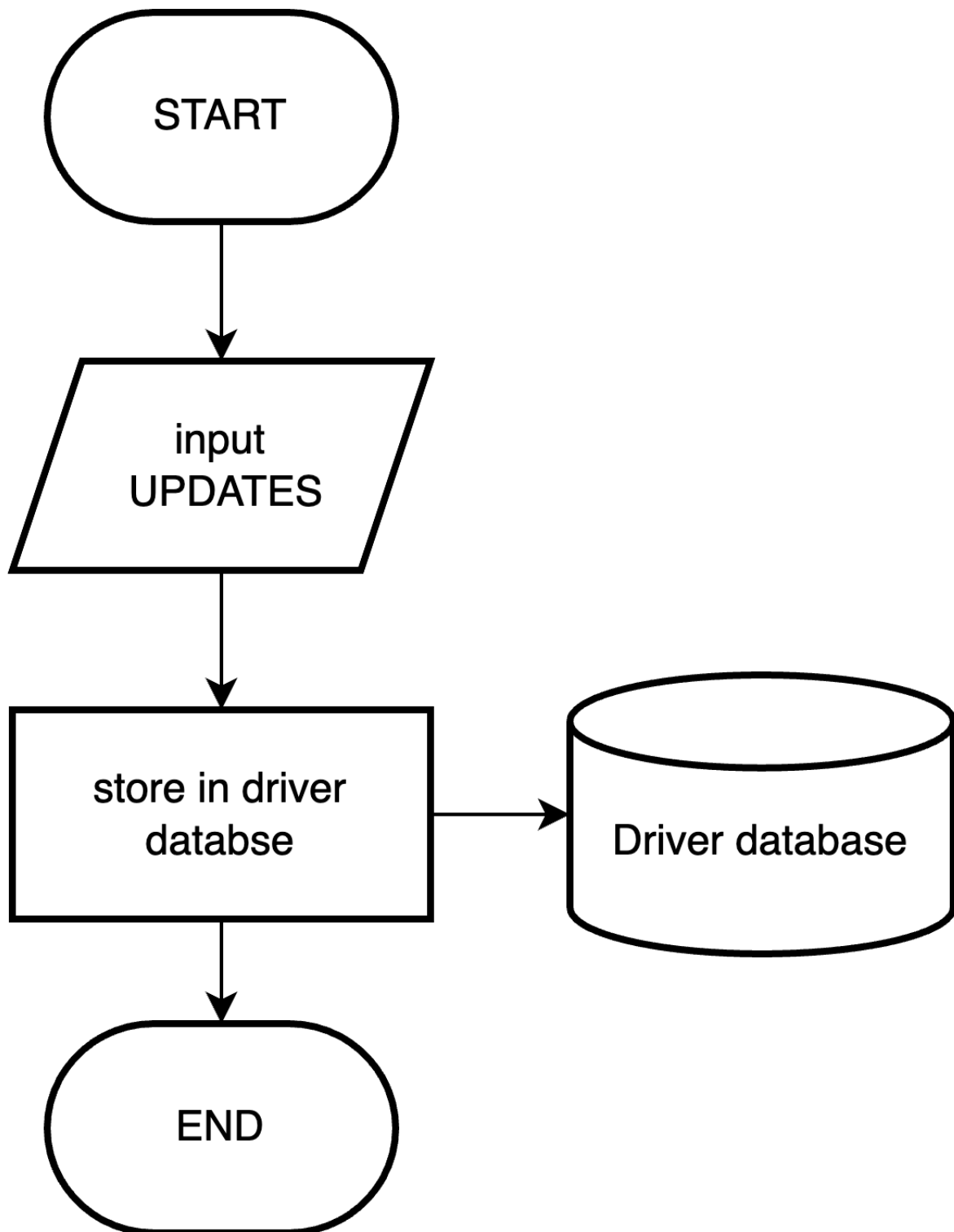
Driver Truck ID input flowchart



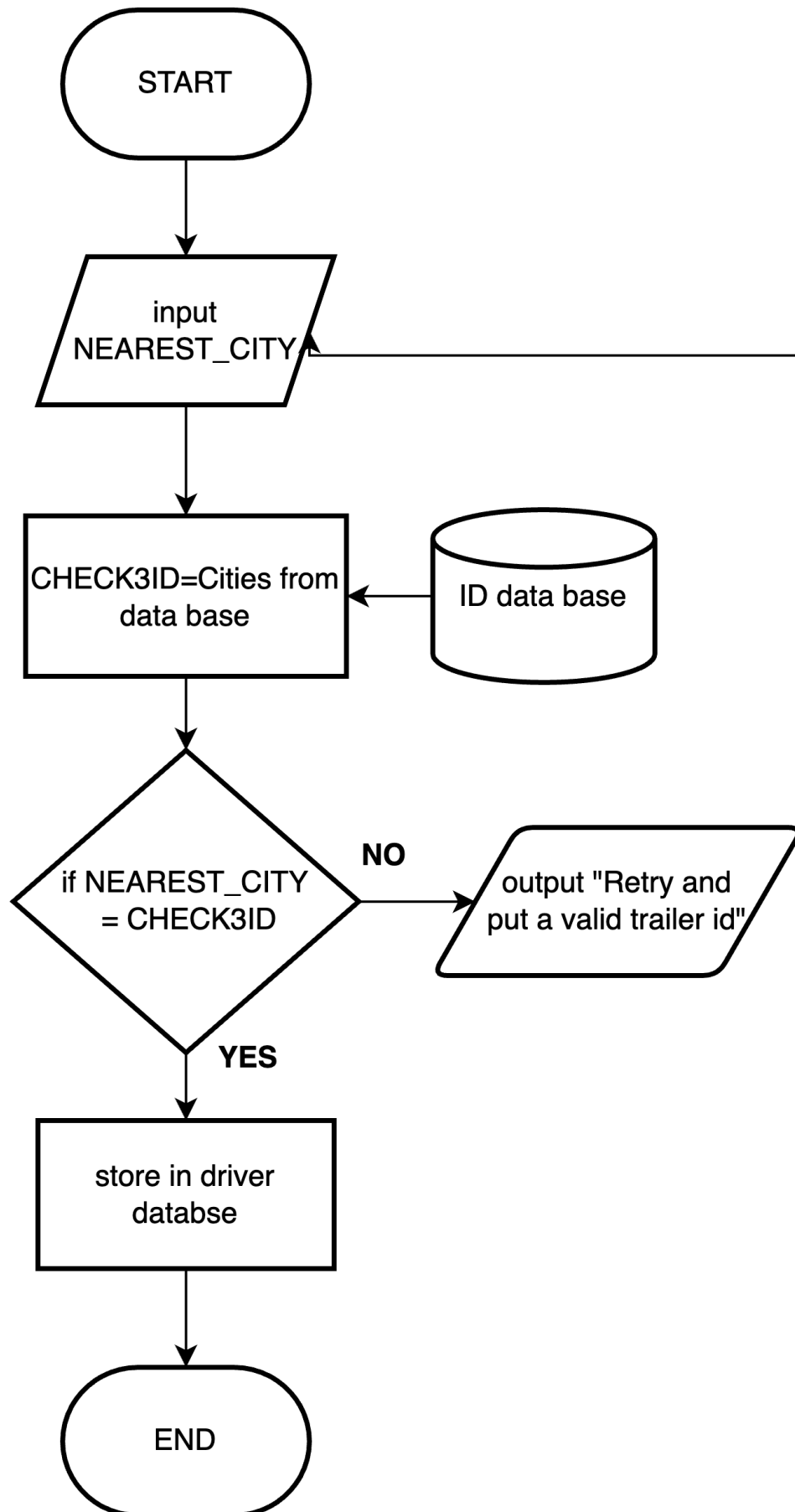
Driver Trailer ID input flowchart



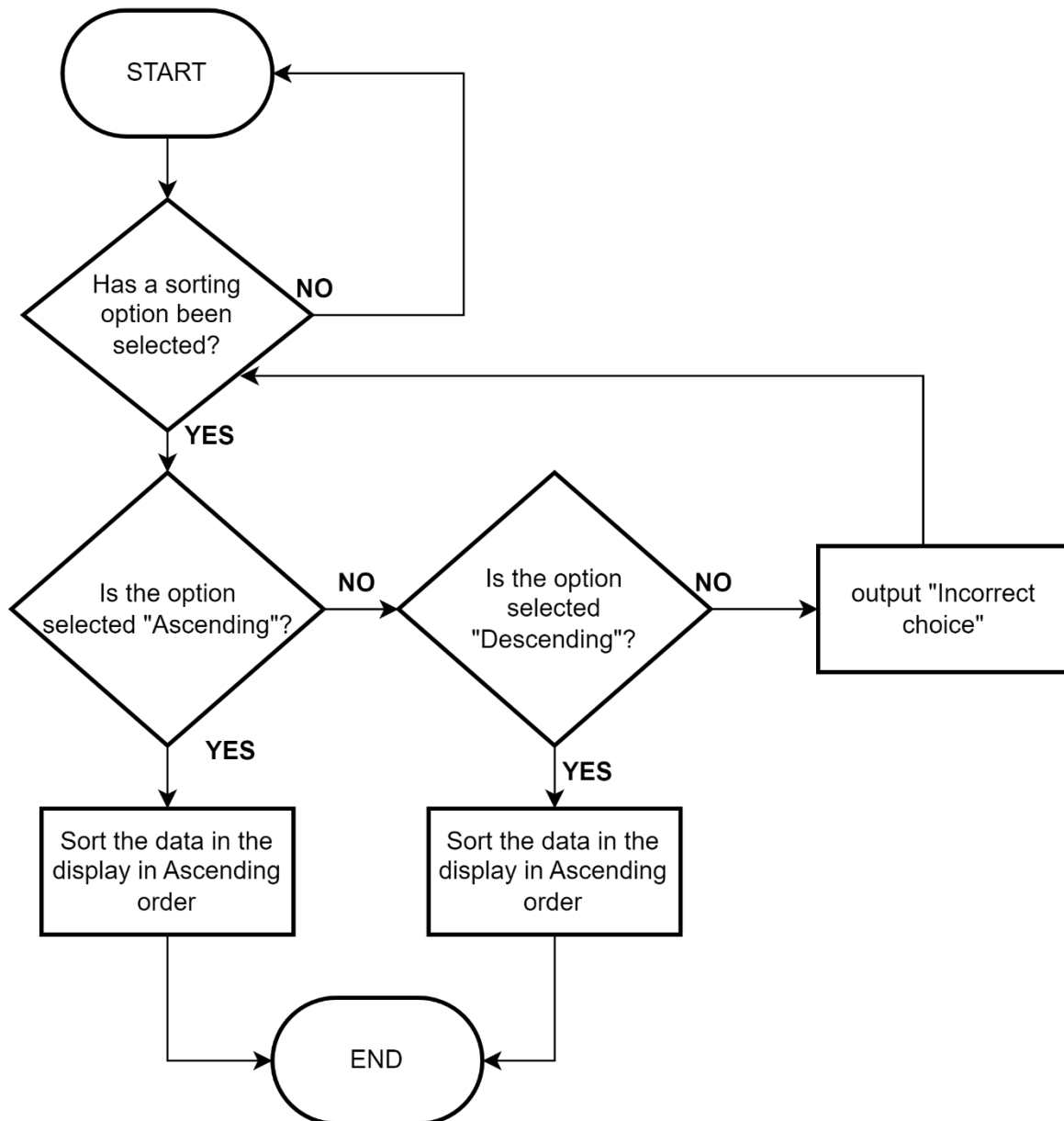
Driver Updates input flowchart



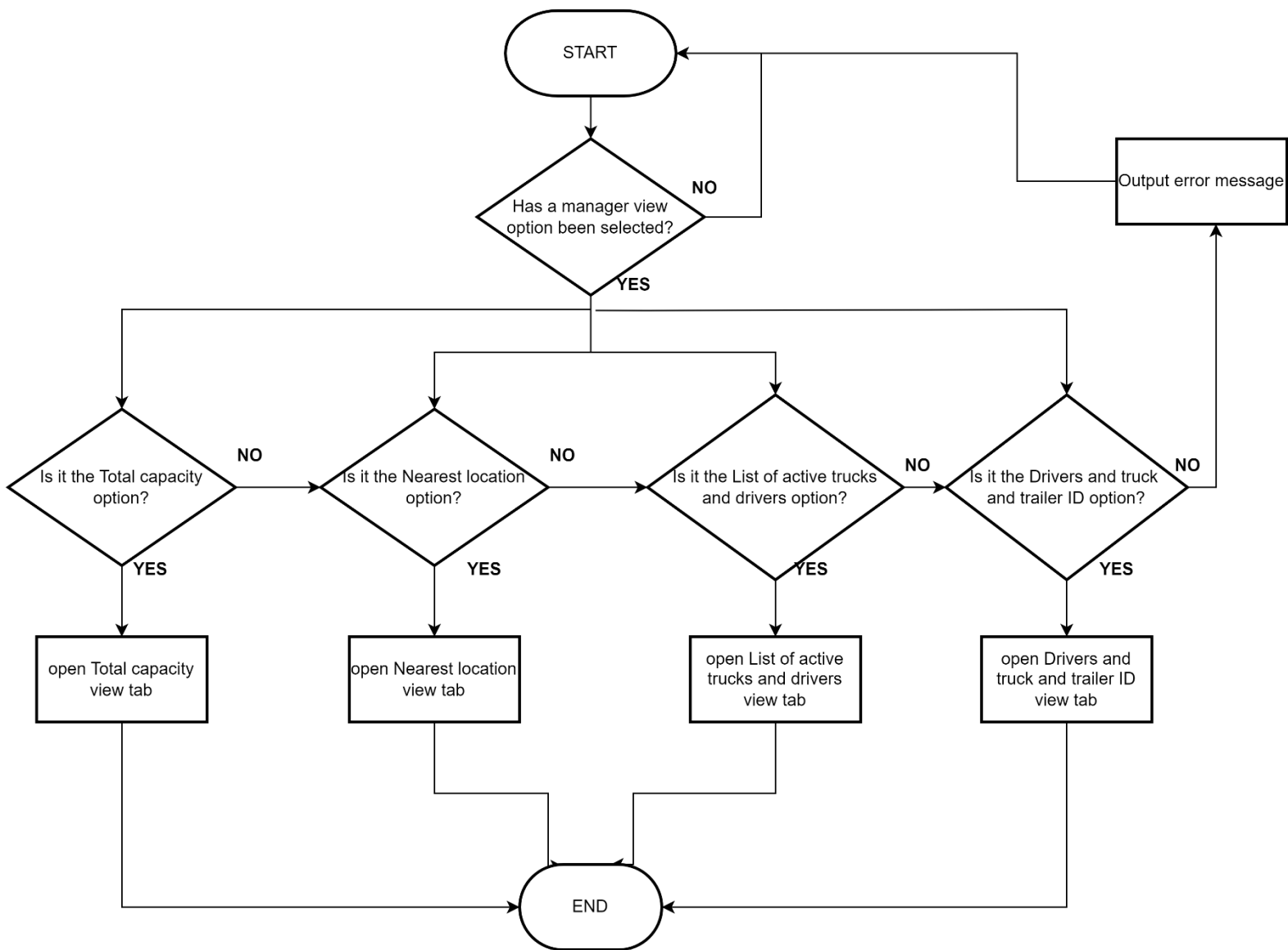
Driver Nearest city input flowchart



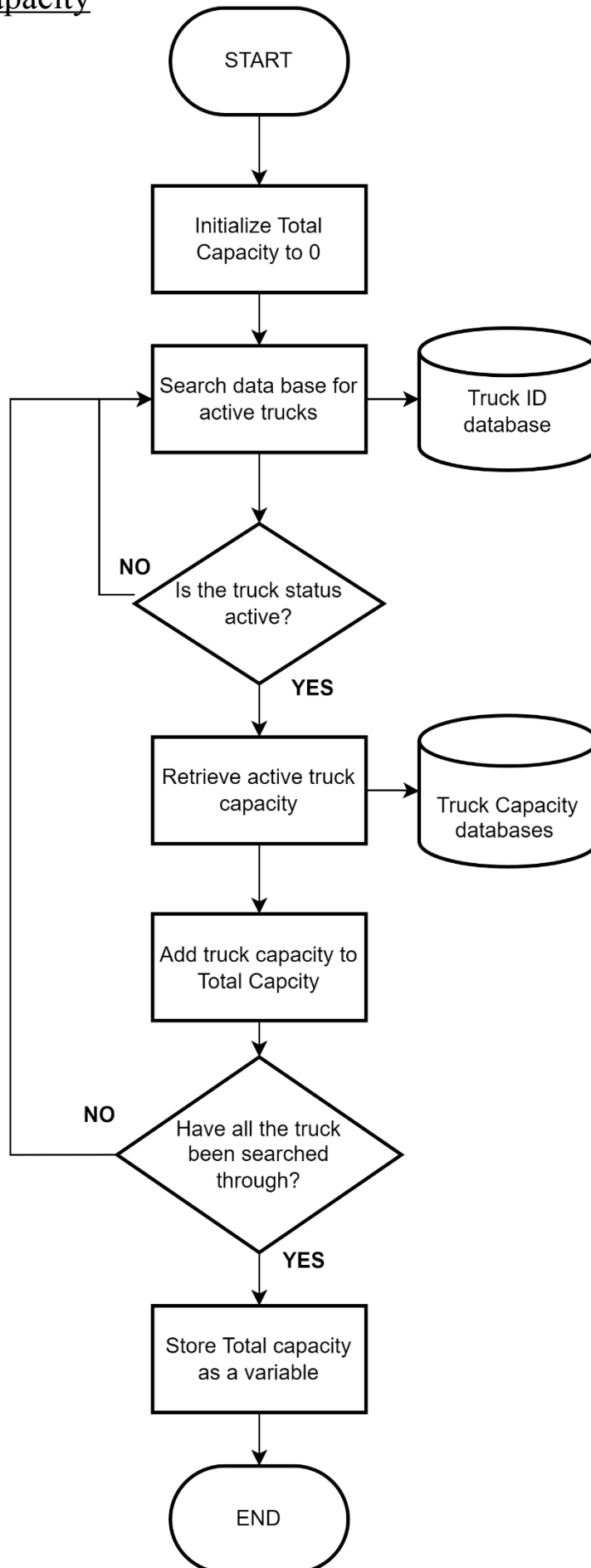
Sorting algorithm



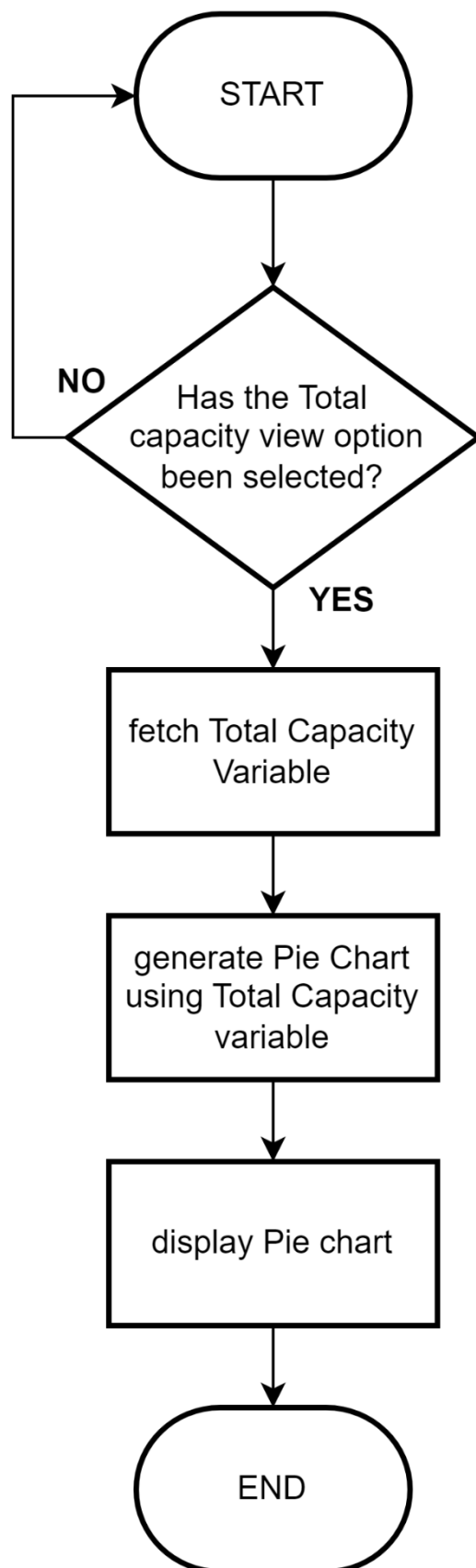
Manager view selection panel flowchart



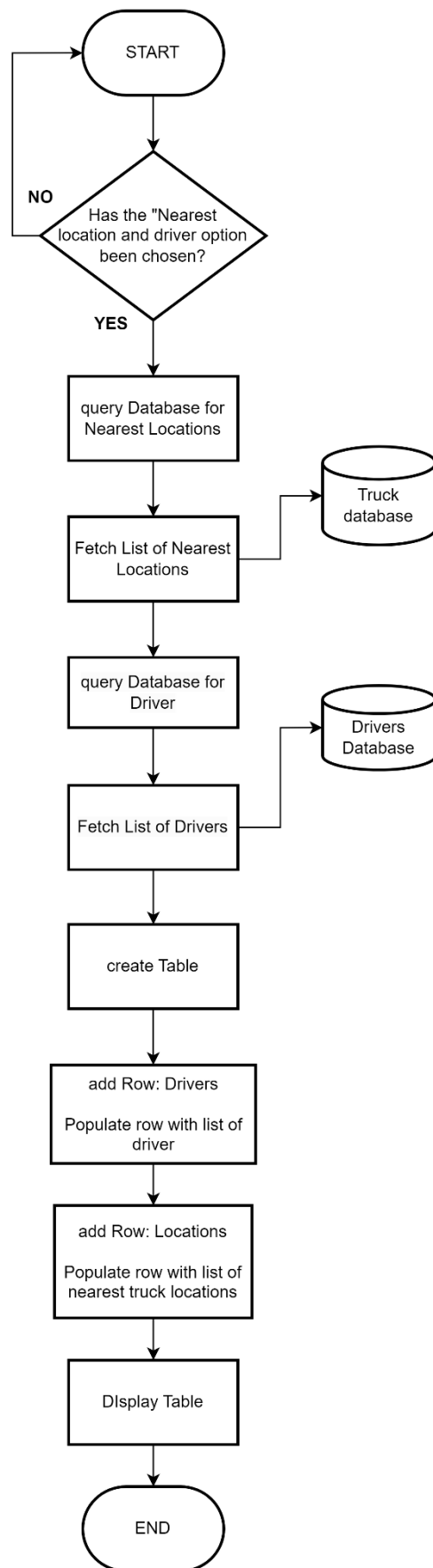
Calculating total capacity



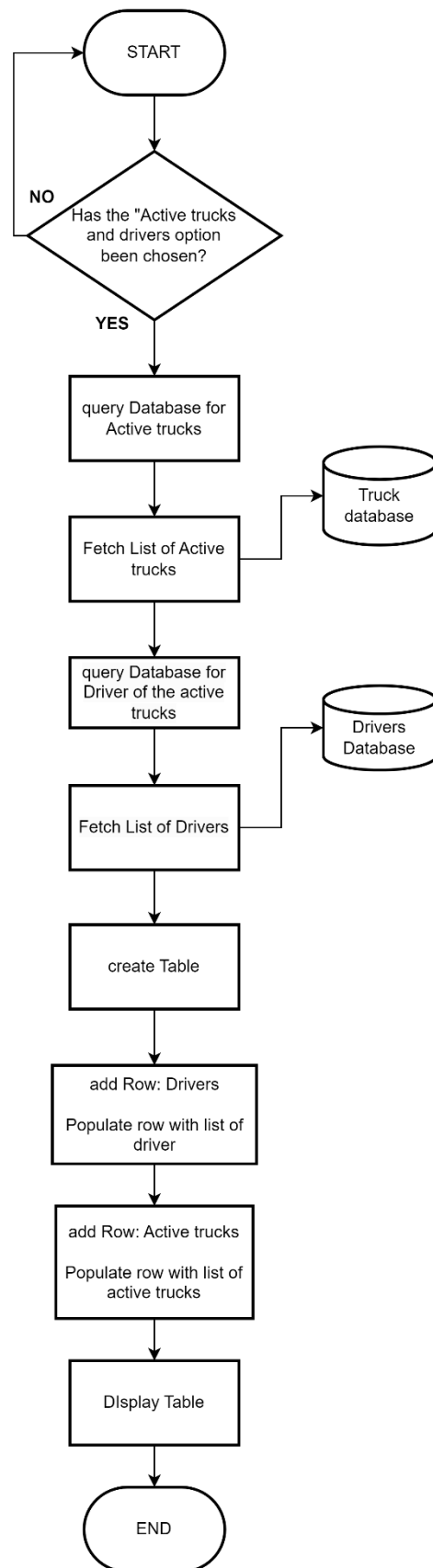
Displaying Total capacity



Displaying Nearest Location Flowchart



Displaying List of active drivers and trucks flowchart



Drivers with truck and trailer ID flowchart

