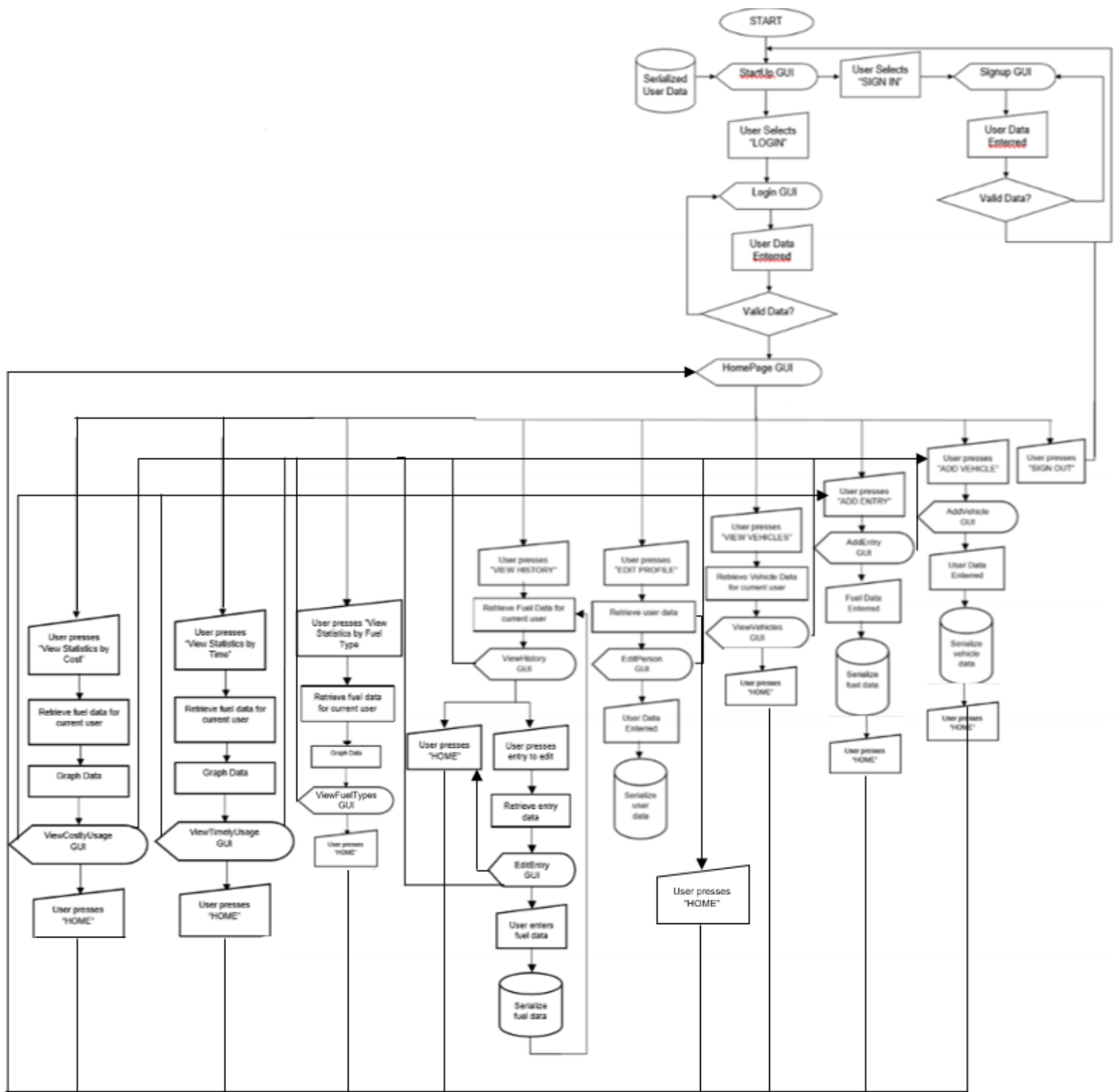


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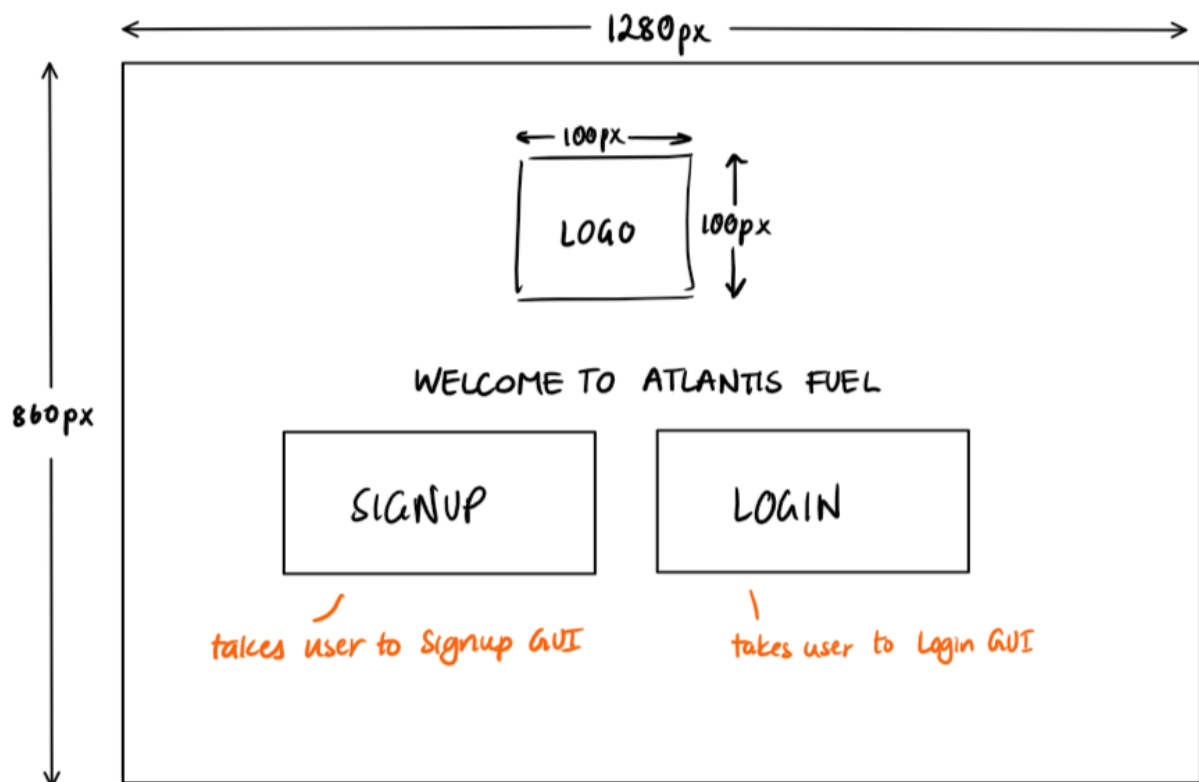
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System Overview

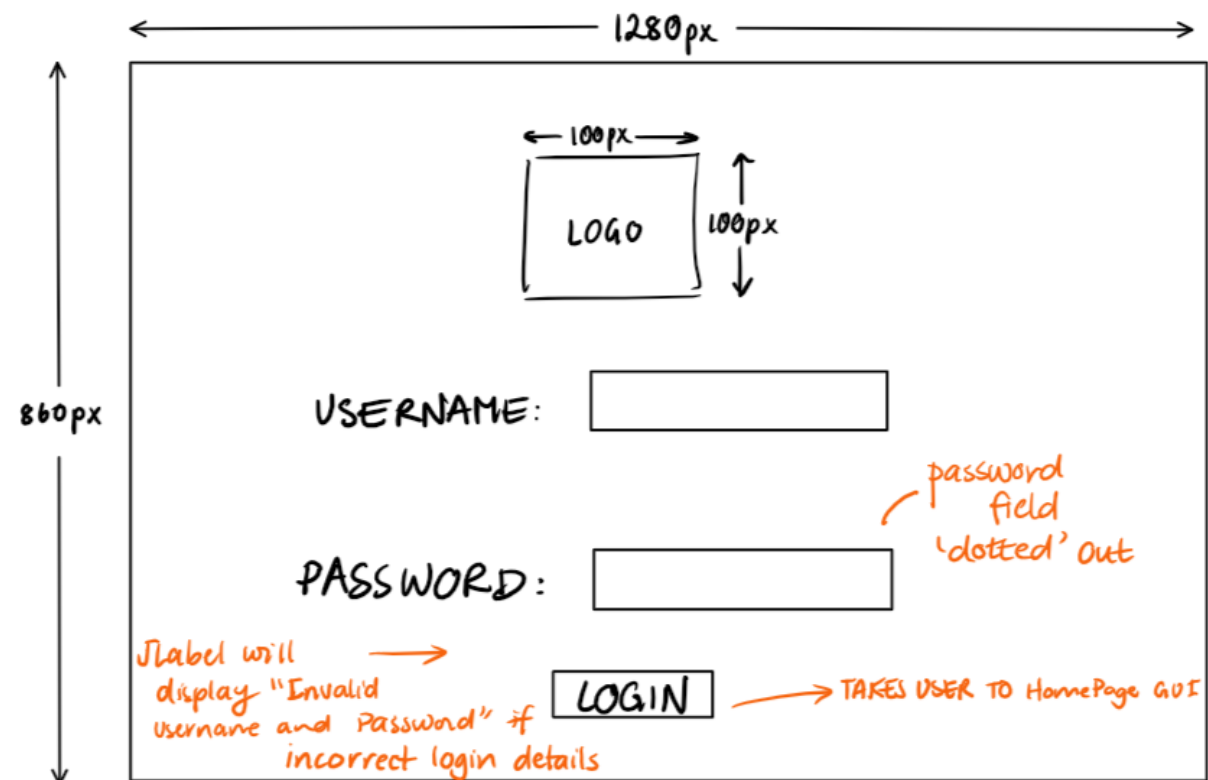


Graphical User Interface Designs

Main GUI



Login GUI



Signup GUI

1280px

860px

100px

100px

LOGO

USERNAME:

PASSWORD:

FIRSTNAME:

SURNAME:

EMAIL:

PHONE:

SIGN UP

password field 'dotted' out

only accepts numbers

Labels will display message if details don't pass validation

TAKES USER TO StartPage GUI

HomePage GUI

1280px

860px

150px

LOGO

ADD YOUR VEHICLES

ADD A FUEL ENTRY

HELLO [FIRSTNAME]

VIEW VEHICLES

VIEW STATISTICS BY DATE

EDIT MY PROFILE

VIEW STATISTICS BY COST

VIEW ALL ENTRIES

VIEW STATISTICS BY FUEL TYPE

reloads HomePage GUI

takes user to AddVehicle GUI

takes user to AddEntry GUI

takes user to EditProfile GUI

takes user to ViewVehicles GUI

takes user to ViewTimelyUsage GUI

takes user to ViewFuelCost GUI

takes user to fuel entries GUI

takes user to ViewFuelTypes GUI

EditProfileGUI

1280px

860px

150px

LOGO

reloads HomePage GUI

takes user to AddVehicle GUI

ADD YOUR VEHICLES

ADD A FUEL ENTRY

takes user to AddEntry GUI

validation: no duplicate usernames

100px

LOGO

100px

these fields should be filled out with user's existing information

USERNAME:

PASSWORD:

password field 'dotted' out

FIRSTNAME:

SURNAME:

validation: only numbers

EMAIL:

PHONE:

CHANGE

takes user to HomePage & changes information

AddEntry GUI

1280px

860px

150px

LOGO

reloads HomePage GUI

takes user to AddVehicle GUI

ADD YOUR VEHICLES

ADD A FUEL ENTRY

takes user to AddEntry GUI

will list all vehicles added by current user

VEHICLE

DAY

MONTH

YEAR

TYPE

AMOUNT

accepts decimals

COST

numbers only

ADD

adds entry to fuel arraylist & opens HomePage GUI

EditEntry GUI

1280px

860px

150px

LOGO

reloads HomePage GUI

takes user to AddVehicle GUI

ADD YOUR VEHICLES

ADD A FUEL ENTRY

takes user to AddEntry GUI

VEHICLE

DAY

MONTH

YEAR

TYPE

AMOUNT

COST

DELETE

EDIT

will list all vehicles added by current user

all fields should contain existing data of the fuel entry

numbers only

accepts decimals

returns to ViewEntries GUI

returns to ViewEntries GUI

AddVehicle GUI

1280px

860px

150px

LOGO

reloads HomePage GUI

takes user to AddVehicle GUI

ADD YOUR VEHICLES

ADD A FUEL ENTRY

takes user to AddEntry GUI

NAME

DAY BOUGHT

MONTH BOUGHT

YEAR BOUGHT

☐ Is this vehicle a Four Wheel Drive?

ADD

will not accept duplicate usernames for one user

adds vehicle to Vehicle arraylist & opens Home Page GUI

EditVehicleGUI

1280px

860px

150px

LOGO

reloads HomePage GUI

takes user to AddVehicle GUI

ADD YOUR VEHICLES

ADD A FUEL ENTRY

takes user to AddEntry GUI

these fields will contain the vehicle's existing information filled out

NAME

DAY BOUGHT

MONTH BOUGHT

YEAR BOUGHT

will not accept duplicate vehicle names for same user

☐ Is this vehicle a Four Wheel Drive?

CHANGE

edits vehicle in vehicles array and opens HomePage GUI

ViewEntries GUI

1280px

860px

150px

LOGO

reloads HomePage GUI

takes user to AddVehicle GUI

ADD YOUR VEHICLES

ADD A FUEL ENTRY

takes user to AddEntry GUI

user clicks on options to sort fuel entries in table

options may include: date, cost, amount

NEWEST FIRST

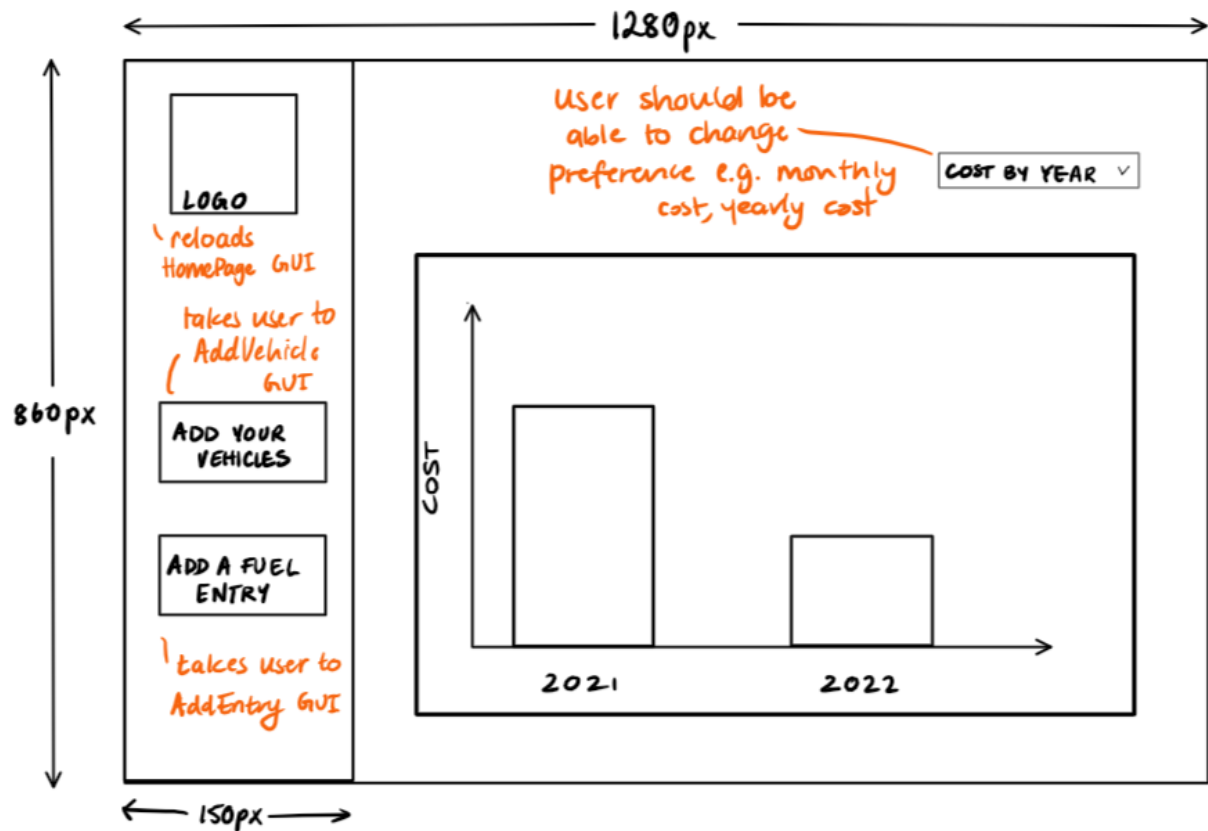
| ID Number | DAY | MONTH | YEAR | TYPE | AMOUNT | COST |
|-----------|-----|-------|------|------|--------|------|
| | | | | | | |

if user clicks on entry it will take them to the EditEntry GUI

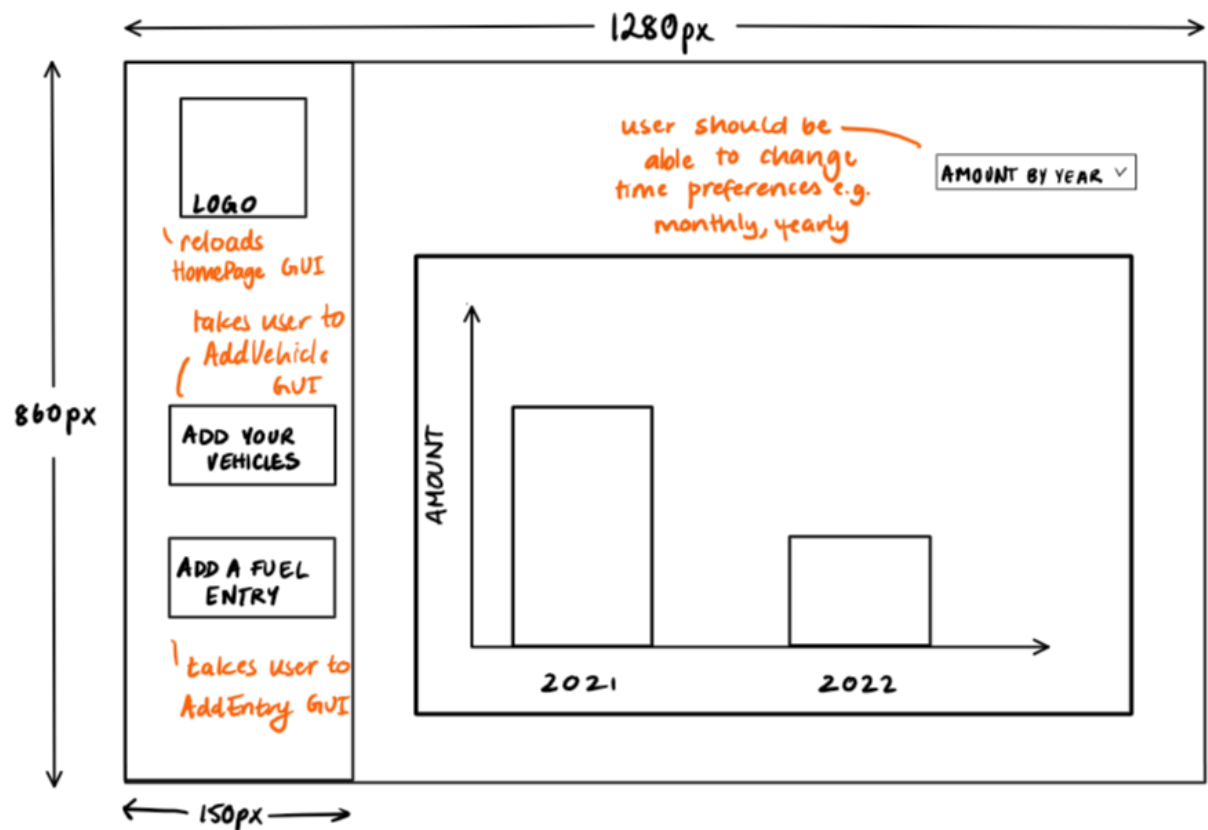
downloads PDF of fuel data to user's device.

DOWNLOAD DATA

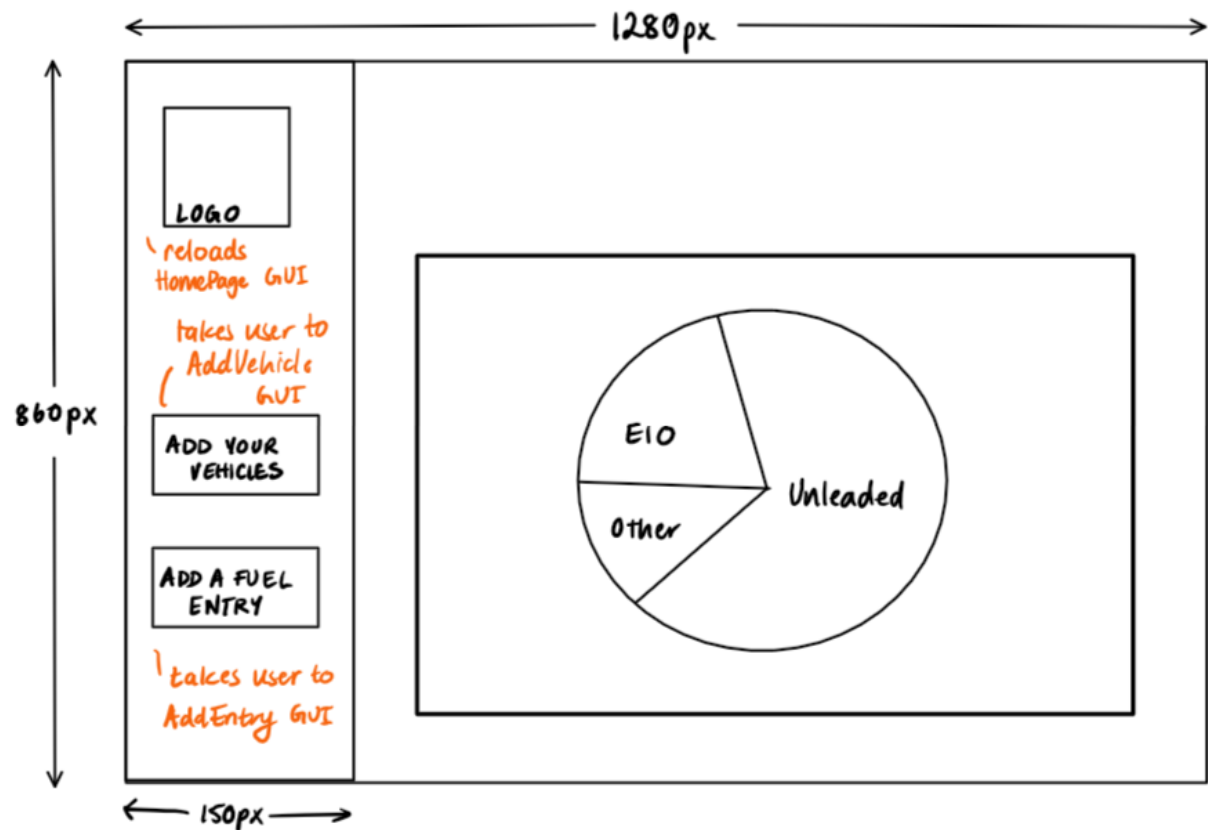
ViewFuelCost GUI



ViewTimelyUsage GUI



ViewFuelTypes GUI



ViewVehicles GUI

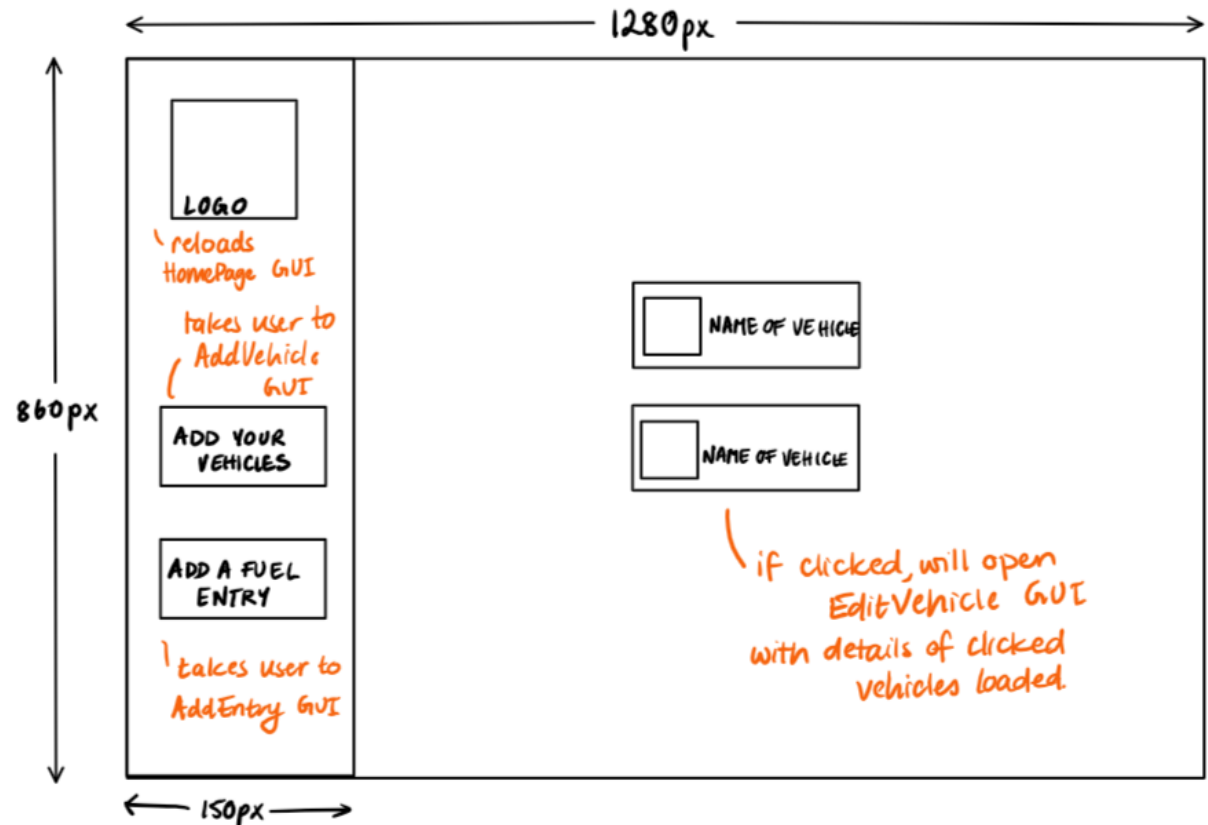


Table of Classes

MVC (Model View Controller) package design will be used to organize the code.

| Class Name (and Package) | Purpose |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AtlantisFuel (Controller) | This class will contain methods and instantiated data structures used widely around the program such as the users array and serialization method. Its data will be accessible to every other class |
| Amounts (Model) | The Amounts class will contain the encapsulated variables in the amounts arraylist used in the ViewTimelyUsage GUI. It's data will be taken from the fuelConsumption arraylist when the GUI is opened. |
| CostsPerYear (Model) | This class will contain the encapsulated variables in the costsPerYear arraylist instantiated in the ViewFuelCost GUI. |
| FuelConsumption (Model) | The FuelConsumption class is a class containing the encapsulated variables in the fuelConsumption object arraylist. |
| Users (Model) | The Users class is a class containing the encapsulated variables in the users object arraylist storing user objects. |
| Vehicles (Model) | The Vehicles class is a class containing the encapsulated variables in the vehicles object arraylist storing vehicle objects. |
| AddEntry (View) | This class will contain the GUI where users add their fuel usage data. It should validate that this data is correct before adding it to the fuelConsumption arraylist. |
| AddVehicle (View) | This class will contain the GUI where users add their vehicle data. It should validate the data before adding it to the vehicles arraylist. |
| EditEntry (View) | This class will allow them to change any fuel usage info, again validating this before updating the fuelConsumption arraylist. |
| EditProfile (View) | This class will allow users to change their personal details. The class should validate the details before updating them in the users arraylist. |
| EditVehicle (View) | The EditVehicle class will allow users to edit information about their vehicles, validate the updated information and save it. |
| HomePage (View) | The HomePage will have access to most other pages in the program and should display "Welcome [first name]" at the top. |

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Login (View) | The Login should verify entered usernames and passwords and if correct, enter the HomePage. |
| Signup (View) | The Signup class will let users enter their information, ensure it is valid and avoids duplication of usernames, and lead users to the login page. If the information is not valid it will ask them to re-enter. |
| Main (View) | The Main GUI is the first GUI that opens when the program starts. It will allow the user to access the Login and Signup pages. |
| ViewEntries (View) | The ViewEntries class should display all the user's fuel usage data in a list. The user should be able to sort this data by data and cost. This class should also allow a download of the data. |
| ViewFuelCost (View) | The ViewFuelCost class should show the user's fuel data with relation to the cost per year through a bar graph. |
| ViewFuelTypes (View) | The ViewFuelTypes class will show the user's fuel data with relation to the types of fuel used. It should show this with a pie chart format. |
| ViewTimelyUsage (View) | The ViewTimelyUsage class should show the user's fuel data with relation to the amount per year through a bar graph. |
| ViewVehicles (View) | The ViewVehicles page should display all the logged in user's vehicles. If the user clicks on the vehicle names, it should take them to the EditVehicle GUI. |

UML Diagrams¹

| |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Amounts |
| - year: String - amount: int |
| //Accessor and Mutator methods + getAmounts() :ArrayList + setAmounts(amounts: ArrayList) :void + getYear() :String + setYear(year: String) :void + getAmount() :int + setAmount(amount: int) :void |

| |
|------------------------------------------------------------------|
| CostsPerYear |
| - year: String - cost: float |
| //Accessor and Mutator methods + getCostsPerYear() :ArrayList |

| |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre> + setCostsPerYear(costsPerYear: ArrayList) :void + getYear() :String + setYear(year: String) :void + getCost() :float + setCost(cost: float) :void </pre> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

| FuelConsumption |
|-----------------|
|-----------------|

| |
|---------------------------------------------------------------------------------------------------------------------------------------------|
| <pre> - fuelID: long - username: String - fuelType: String - fuelAmount: int - cost: float - dateEntered: Date - vehicleName: String </pre> |
|---------------------------------------------------------------------------------------------------------------------------------------------|

| |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre> //Accessor and Mutator methods + getFuelConsumption() :ArrayList + setFuelConsumption(fuelConsumption: ArrayList) : void + getFuelID() :long + setFuelID(fuelID: long) :void + getFuelType() :String + setFuelType(fuelType: String) :void + getFuelAmount(): int + setFuelAmount(fuelAmount: int) :void + getUsername() :String + setUsername(username: String) :void + getCost() :float + setCost(cost: float) :void + getDateEntered() :Date + setDateEntered(dateEntered: Date) :void + getVehicleName() :String + setVehicleName(vehicleName: String) :void </pre> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Users |
|-------|
|-------|

| |
|-----------------------------------------------------------------------------------------------------------------------|
| <pre> - username: String - password: String - firstname: String - surname: String - email: String - phone: int </pre> |
|-----------------------------------------------------------------------------------------------------------------------|

| |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre> //Accessor and Mutator methods + getUsers() :ArrayList + setUsers(users: ArrayList) :void + getUsername() :String + setUsername(username: String) :void + getPassword() :String </pre> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre> + setPassword(password: String) :void + getFirstname() :String + setFirstname(firstname: String) :void + getSurname() :String + setSurname(surname: String) :void + getEmail() :String + setEmail(email: String) :void + getPhone() :int + setPhone(phone: int) :void </pre> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Vehicles |
|----------|
|----------|

| |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <pre> - username: String - nameOfVehicle: String - dayBought: int - monthBought: int - yearBought: int - fourWheelDrive: boolean </pre> |
|-----------------------------------------------------------------------------------------------------------------------------------------|

| |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre> //Accessor and Mutator methods + getVehicles() :ArrayList + setVehicles(vehicles: ArrayList) :void + getUsername() :String + setUsername(username: String) :void + getNameOfVehicle() :String + setNameOfVehicle(nameOfVehicle: String) :void + getDayBought() :int + setDayBought(dayBought: int) :void + getMonthBought() :int + setMonthBought(monthBought: int) :void + getYearBought() :int + setYearBought(yearBought: int) :void + isFourWheelDrive() :Boolean + setFourWheelDrive(fourWheelDrive: boolean) :void </pre> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| AddEntry |
|----------|
|----------|

| |
|------------------------------------------------------------------------------------------------------|
| <pre> - GUIcomponents + <u>fuelAmount: int</u> + <u>cost: float</u> + <u>fuelID: long = 0</u> </pre> |
|------------------------------------------------------------------------------------------------------|

| |
|------------------------------------------------------|
| <pre> - GUImethods() + addEntryButton(): void </pre> |
|------------------------------------------------------|

| AddVehicle |
|------------|
|------------|

| |
|------------------------------|
| <pre> - GUIcomponents </pre> |
|------------------------------|

| |
|--------------------------------------------------------|
| <pre> - GUImethods() + addVehicleButton(): void </pre> |
|--------------------------------------------------------|

| |
|-----------------------------------------------------------------------------------------------------------------------------|
| EditEntry |
| - GUIcomponents + <u>fuelAmount: int</u> + <u>cost: float</u> + <u>monthEntered: int</u> + <u>month: String</u> |
| - GUImethods() + editEntryButton() :void |

| |
|-----------------------------------------------------------------------------------------|
| EditProfile |
| - GUIcomponents + <u>previousName: String = Login.username</u> + username: String |
| - GUImethods() + editProfileButton() :void |

| |
|--------------------------------------------------------------------------|
| EditVehicle |
| - GUIcomponents + <u>dateMonth: String</u> + <u>index: int = 0</u> |
| - GUImethods() + changeButton() :void |

| |
|---------------------------------------------------------------|
| HomePage |
| - GUIcomponents + <u>username: String = Login.username</u> |
| - GUImethods() |

| |
|----------------------------------------------|
| Login |
| - GUIcomponents + <u>username: String</u> |
| - GUImethods() + loginButton() :void |

| |
|------------------------------------------|
| ViewEntries |
| - GUIcomponents + <u>fuelID: long</u> |
| - GUImethods() + downloadPDF() :void |

| |
|--------------|
| ViewFuelCost |
|--------------|

| |
|---------------------------------|
| - GUIcomponents |
| + <u>found: boolean = false</u> |
| - GUImethods() |
| + findCostsPerYear() :void |

| |
|---------------------------------|
| ViewTimelyUsage |
| - GUIcomponents |
| + <u>found: Boolean = false</u> |
| - GUImethods() |
| + findYears() :void |

| |
|----------------------------------------|
| ViewVehicles |
| - GUIcomponents |
| - GUImethods() |
| + ViewVehicles(username: String) :void |

| |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| AtlantisFuel |
| - GUIcomponents |
| - GUImethods() |
| + <u>addUser(username: String, password: String, firstname: String, surname: String, email: String, phone: int) :boolean</u> |
| + <u>editUser(username: String, password: String, firstname: String, surname: String, email: String, phone: int, currentUser: int) :boolean</u> |
| + <u>findUser(username: String): int</u> |
| + <u>addFuelEntry(fuelID: long, username: String, fuelType: String, fuelAmount: int, cost: float, dateEntered: Date) :boolean</u> |
| + <u>editEntry(fuelID: long, username: String, fuelType: String, fuelAmount: int, cost: float, dateEntered: Date) :boolean</u> |
| + <u>addVehicle(username: String, nameOfVehicle: String, dayBought: int, monthBought: int, yearBought: int, fourWheelDrive: boolean) :boolean</u> |
| + <u>editVehicle(username: String, nameOfVehicle: String, dayBought: int, monthBought: int, yearBought: int, fourWheelDrive: boolean) :boolean</u> |
| + <u>displayDays() :boolean</u> |
| + <u>displayMonths() :boolean</u> |
| + <u>displayYear() :boolean</u> |
| + <u>displayFuelTypes() :boolean</u> |

| |
|-------------------------------------------------------------------------------------------------------------------------|
| + findVehicle(nameOfVehicle: String, username: String) :int + addRowToJTable() :void + chartThisMonth () :void |
|-------------------------------------------------------------------------------------------------------------------------|

¹ The UMLs do not include iteration variables i.e., those used in loops within the program.

Table of Methods

This list does not include accessor/mutator methods.

| Method Name | Purpose |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| addUser() | Adds parameters of a new user object as a user object to the users arraylist. |
| editUser() | Will update user objects in the users arraylist with the new details sent through the parameter list. |
| findUser() | Will find the index of a user in the users arraylist using their username. |
| addFuelEntry() | Will add FuelConsumption objects, sent as parameters, to the fuelConsumption arraylist. |
| editEntry() | Will edit and update FuelConsumption objects in the fuelConsumption arraylist. |
| addVehicle() | Will add Vehicle objects, sent through parameters, to the vehicles arraylist. |
| editVehicle() | Will edit and update Vehicle objects in the vehicles arraylist. |
| displayDays() | Will loop to display days of the month in a JComboBox (drop down list) |
| displayMonths() | Will loop to display months in a JComboBox (drop down list) in another GUI. |
| displayYear() | Will display the required years in a JComboBox (drop down list) in another GUI. |
| displayFuelTypes() | Will loop to display fuel types accepted by the program to drop down list (JComboBox) |
| findVehicle() | Will find vehicles using their names and usernames and return their index in the arraylist. |
| addRowToJTable() | Will display data from the fuelConsumption arraylist in a table (JTable) the ViewEntries GUI. |
| chartThisMonth() | Will convert data from the fuelConsumption array into a pie chart. |
| addEntryButton() | Will r validate the information before calling on the addEntry() method. |
| addVehicleButton() | Will validate user's vehicle information before calling the addVehicle() method and returning to HomePage GUI. |
| editEntryButton() | Will validate information the user has changed about previous fuel entries and pass it to the editEntry() method. |

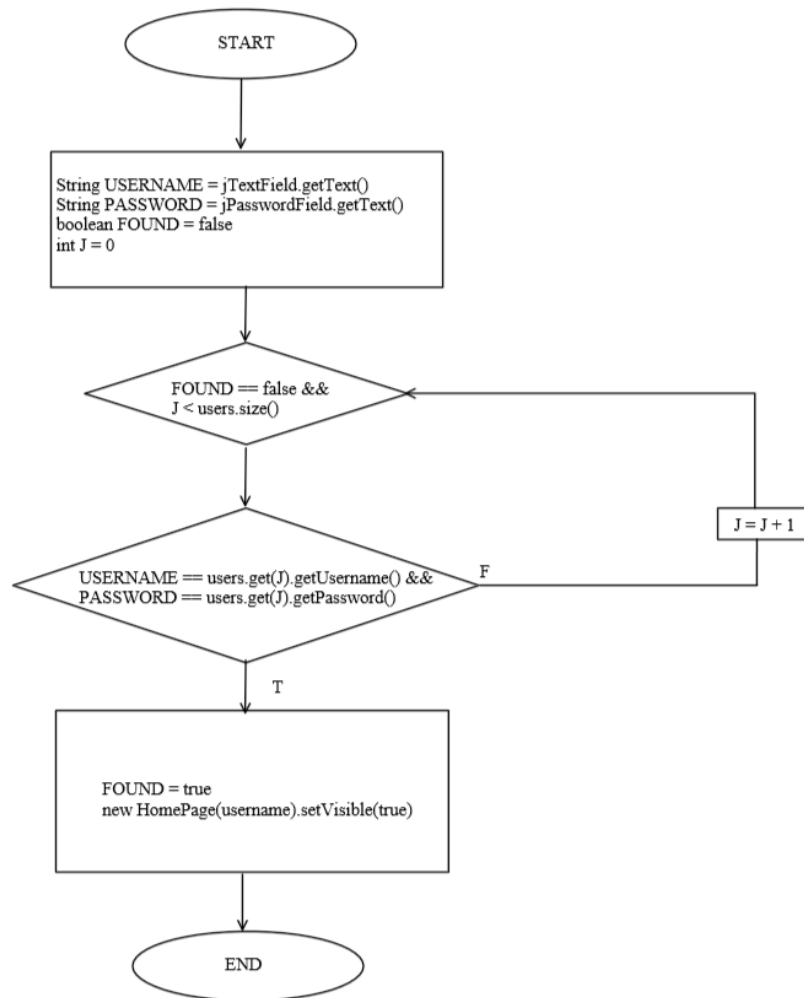
| | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| editProfileButton() | Will validate the user's updated personal information and send it to the editUser() method. |
| changeButton() | Will validate updated information about the users' vehicles and send it to the editVehicle() method. |
| loginButton() | Will verify usernames and passwords either open the HomePage GUI or ask the user to re-enter details. |
| signupButton() | This method will validate users' details, send the details to the addUser() method and re-direct the user to the Main GUI. |
| downloadPDF() | This method will download the user's fuel usage data to their downloads as a PDF. |
| findCostsPerYear() | Will create the data set for a bar chart through the arraylist. |
| findYears() | Will create the data set for a bar chart through the arraylist. |

Justification of Data Structures

| Name | Structure | Data involved | Justification |
|------------------------|-----------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| users | Arraylist | User objects | <ul style="list-style-type: none"> • Can store objects, in this case, user specific date and amount data, allowing easy accessibility • Unlike some other structures, they are extendable, meaning storage is flexible and saved. • Arraylists have their own methods e.g. removeAll(); • Allow full functionality: insertion, traversal, deletion, retrieval over other structures |
| vehicles | Arraylist | Vehicle objects | |
| fuelConsumption | Arraylist | Fuel objects | |
| costsPerYear | Arraylist | Money spent on fuel yearly for the current user only – taken from the fuelConsumption arraylist. | |
| amounts | Arraylist | Amount of fuel used yearly for the current user only – taken from the fuelConsumption arraylist. | |

Pseudocode/Flowchart Algorithms

Login Username Validation

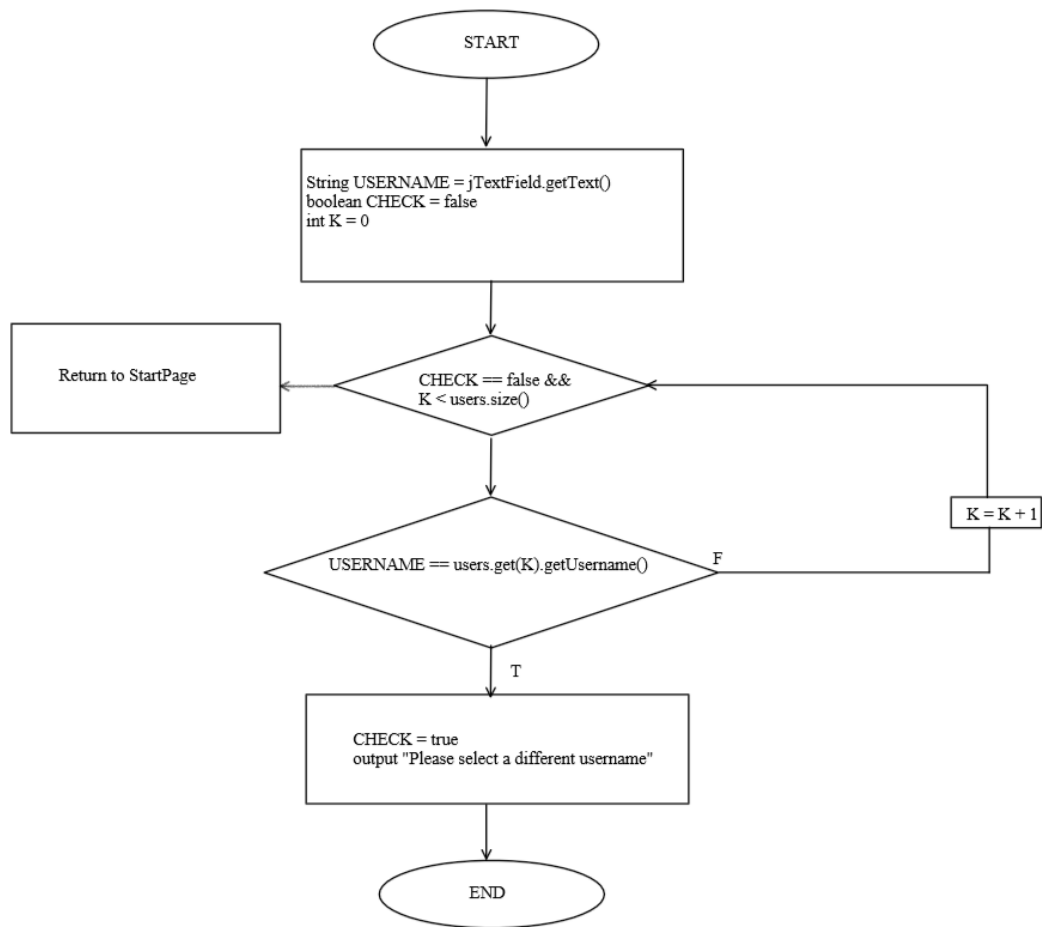


addRowToJTable() method: collects the user's fuel data to collate into a table

```
//fuelConsumption is an array containing fuel entries of all users
//model is an object of type DefaultTableModel that stores cell values
//USERNAME is the username of the current user logged in

loop I from 0 to fuelConsumption.size()
    if fuelConsumption.get(I).getUsername() == USERNAME then
        Object rowData = new Object[7]
        rowData[0] = String.valueOf(fuelConsumption.get(I).getFuelID)
        rowData[1] = String.valueOf(fuelConsumption.get(I).getDateEntered().getDay())
        rowData[2] = String.valueOf(fuelConsumption.get(I).getDateEntered().getMonth())
        rowData[3] = String.valueOf(fuelConsumption.get(I).getDateEntered().getYear())
        rowData[4] = String.valueOf(fuelConsumption.get(I).getFuelType())
        rowData[5] = String.valueOf(fuelConsumption.get(I).getFuelAmount())
        rowData[6] = String.valueOf(fuelConsumption.get(I).get Cost())
        model.addRow(rowData)
    end if
end loop
```

Signup Username Verification



findVehicle() method: finds the index of the user's vehicle in the vehicle arraylist

//VEHICLES is an arraylist containing all vehicles of all users

```

input NAMEOFVEHICLE
input USERNAME
int CURRENTVEHICLEINDEX
int COUNT = 0
boolean FIND = false

loop while FIND == false && COUNT < vehicles.size()
  if VEHICLES.get(COUNT).getNameOfVehicle() == NAMEOFVEHICLE &&
    VEHICLES.get(COUNT).getUsername() == USERNAME then
    CURRENTVEHICLEINDEX = COUNT
    FIND = TRUE
  else
    COUNT = COUNT + 1
  end if
end loop
  
```

Method to Display User's Vehicles



findCostsPerYear() method: transfer's user's fuel data into another arraylist to prepare for graphing

```

//FUELCONSUMPTION is an arraylist with all fuel entries
//COSTSPERYEAR is an arraylist storing years and costs for the current user
input USERNAME

int I = 0
boolean FOUND = false
float CURRENTCOST

loop while I < FUELCONSUMPTION.size()
  if FUELCONSUMPTION.get(I).getUsername() == USERNAME then
    int J = 0
    loop while FOUND == false && J < COSTSPERYEAR.size()
      if(COSTSPERYEAR.get(J).getYear() == FUELCONSUMPTION.get(I).getDateEntered().getYear() then
        //if the year is already present in the COSTSPERYEAR arraylist
        CURRENTCOST = COSTSPERYEAR.get(J).getCost()
        COSTSPERYEAR.get(J).setCost(CURRENTCOST + FUELCONSUMPTION.get(I).getCost())
        FOUND = TRUE
      end if
    end loop
  else
    J = J + 1
  end if

  //if the year is not already in the COSTSPERYEAR arraylist
  if FOUND == false then
    COSTSPERYEAR.add(new COSTSPERYEAR(FUELCONSUMPTION.get(I).getDateEntered().getYear(),
    FUELCONSUMPTION.get(I).getCost()))
  end if
  K = K + 1
end loop

/*from here the method will continue with the java specific code for the graphing*/
  
```

Test Plan

| Test/Criteria No. | Success Criteria | Expected Outcome |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | The user is able to signup and login to the application | <ul style="list-style-type: none"> • Users can sign up on signup page • Signup page ensures usernames are not duplicated. • Signup page ensures all other user information is valid e.g., phone number is numbers only. • Login page ensures username and password are entered correctly. |
| 2 | The user is able to edit personal information | <ul style="list-style-type: none"> • The EditProfile page allows users to edit personal information. • This class should still ensure no duplication of usernames. |
| 3 | The application enables users to enter and edit vehicle related data | <ul style="list-style-type: none"> • The AddVehicle page and EditVehicle page allow users to add and edit, respectively, their vehicles. • The classes should add to and update the vehicles arraylist. |
| 4 | The application enables users to enter and edit fuel related data | <ul style="list-style-type: none"> • The AddEntry and EditEntry pages allow users to add and edit fuel data respectively. • Both pages ensure amount, cost and date information are entered/formatted correctly e.g. amount is only numbers. |
| 5 | Users are able to view the data entries about fuel and sort the entries categorically | <ul style="list-style-type: none"> • The ViewEntries page displays a list of the user's entries. • The user can sort these by cost and date. |
| 6 | Users are able to download a PDF of the fuel data | <ul style="list-style-type: none"> • A button on the ViewEntries page automatically exports a PDF of fuel data to the user's downloads. |
| 7 | Users can view graphs of fuel data that is shown in relation to cost of fuel, timely usage of fuel and the type of fuel consumed. | <ul style="list-style-type: none"> • Users can view fuel data summarized as graphs based on different categories: <ul style="list-style-type: none"> ○ Cost ○ Type of Fuel ○ Date |

