

Criterion B:

Test Plan:

Test Type	Nature of Test	Example
It should be user-friendly	Everything will be computer-controlled. The only thing the user will have to do is to insert information.	An error will appear if the wrong string value is put on a number.
It should be able to store data after exiting the program.	The user will be able to leave and not worry about the information.	His program closes when it opens again, everything is still there.
It should be able to add dogs with all of the data.	The user should be able to enter all of the dog's information he requires.	Bautista enters a brand new dog into the system.
It should be able to tell the days where and when the dogs are taken out.	It should save specific days and time when the name is entered and where the house is located,	Bautista searches for a dog and the address appears.
Tell the user what the payment is monthly for a specific dog.	The software should be able to tell somewhere on the program how much is owed to him in monthly amounts.	Bautista searches for money he is owed, it appears.
It must be simple to work with monthly payments and modify them.	The software will allow the user to do simple math to calculate things like money and debts.	Bautista has a friend and gives him 20% off or rates change
There should be a way to store the image with the clinical vet information.	In the add, an area will be dedicated to entering the information about the clinical background of the dog.	Bautista saves a dog or modifies it, a picture can be inserted

Prototypes:

Add	Delete	Search and modify	Economy	All dogs	Schedule	
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Hello
Bautista!

Add	Delete	Search and modify	Economy	All dogs	Schedule	
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Delete

Enter owner's id & Enter dogs name

Delete

Add	Delete	Search and modify	Economy	All dogs	Schedule	
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Add

Dog's name Dog's breed Dog's age Dog's weight Time per week Vet history

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Browse

Add	Delete	Search and modify	Economy	All dogs	Schedule	
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Search and Modify

Owners name Phone Location Payment Owners id

Dogs name Dogs breed Dogs age Dogs weight Times per week Vet History

Show

Modify

Add	Delete	Search and modify	Economy	All dogs	Schedule
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Economy

Enter owners id

Payment (1 hour)

Hours per week

Discount (%)

Calculate

Modify

Final price

Add	Delete	Search and modify	Economy	All dogs	Schedule
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View all Dogs

Enter Breed

Show

(Show names here)

Add	Delete	Search and modify	Economy	All dogs	Schedule
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Schedule

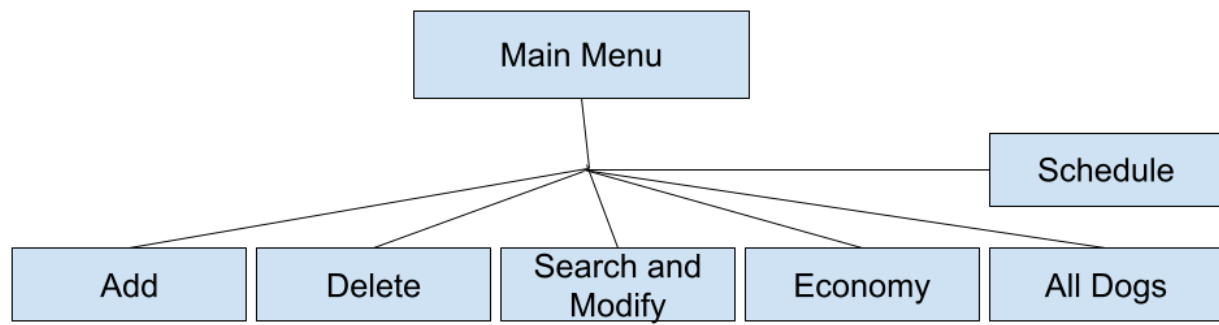
Enter owners id

Search

Location:

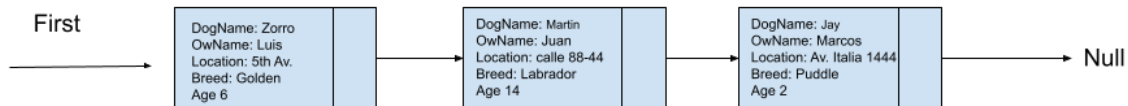
Monday: Tuesday: Wednesday: Thursday: Friday: Saturday: Sunday:

Modular Design:

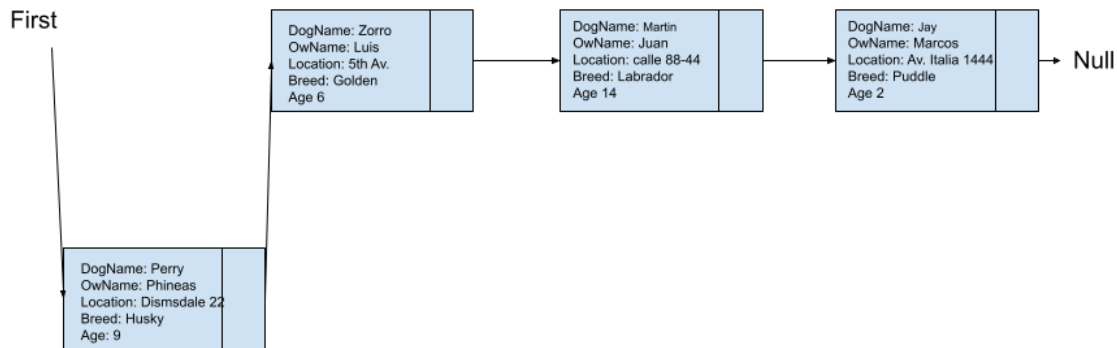


Data Structures:

I will use linked lists for my data structures. Inside one, there will be an object named Dog, and in the other, the object will be scheduled. Inside these, there will be an object consisting of all the components, such as the dog's name, breed, and more. Since it's not a static data structure, I won't have to worry about the size. To tell my client which days the dogs need to be picked up, I will use a second linked list with two attributes from the previous list and a new one such as date and hour.



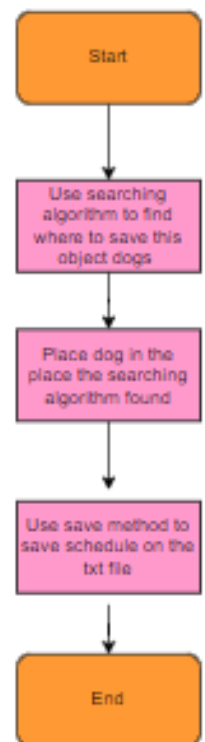
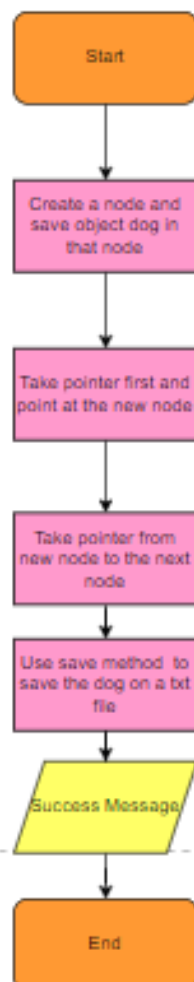
Add node

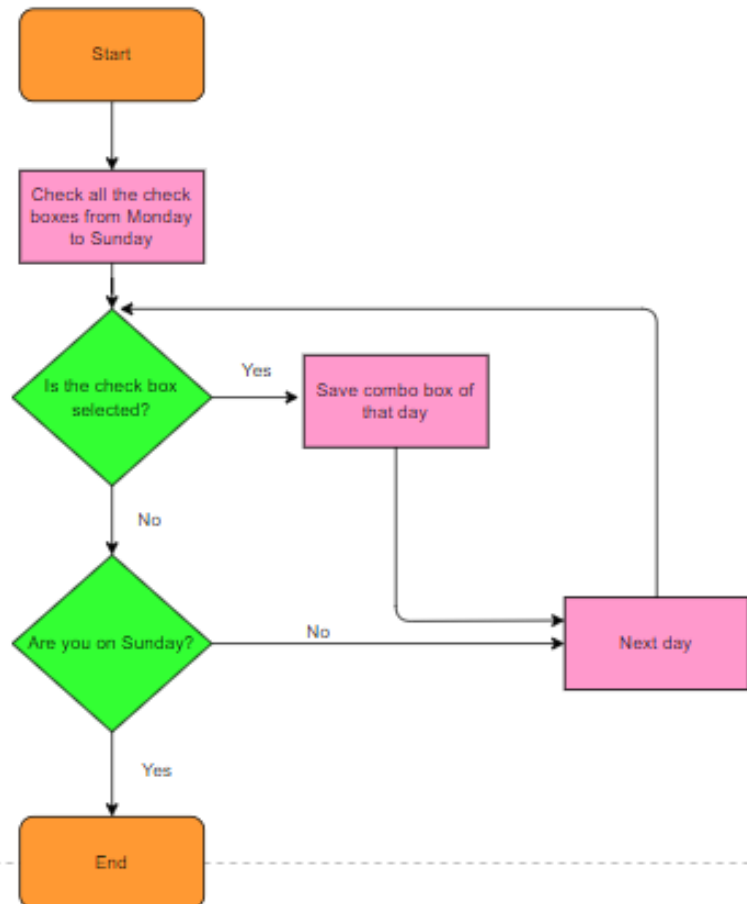
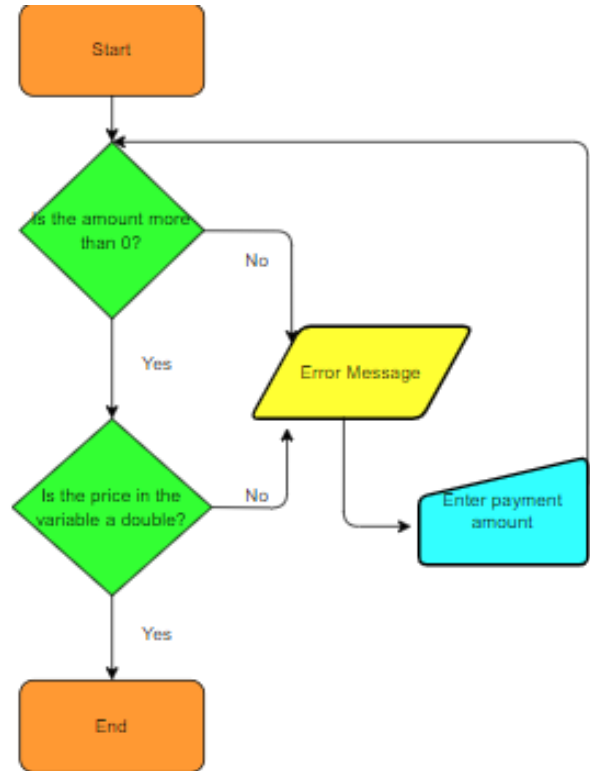
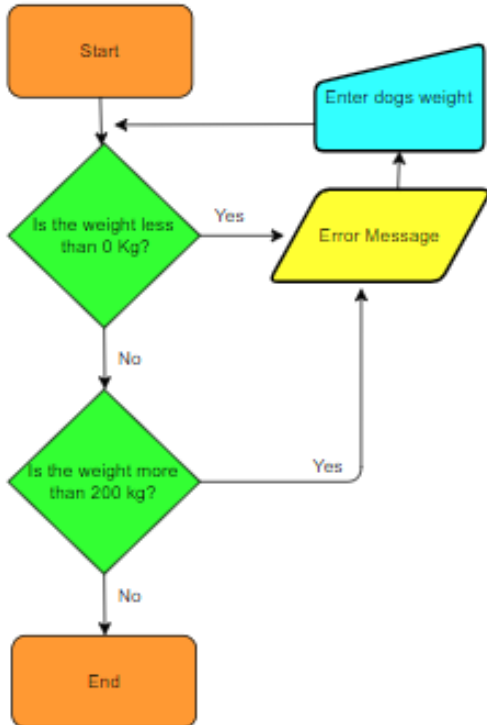
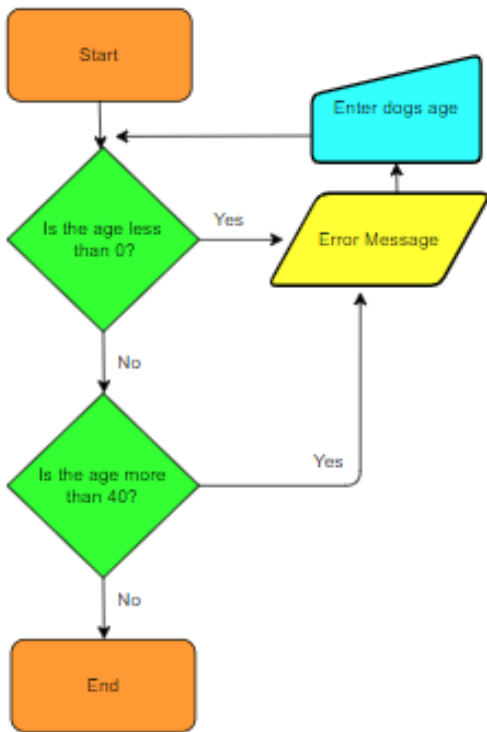


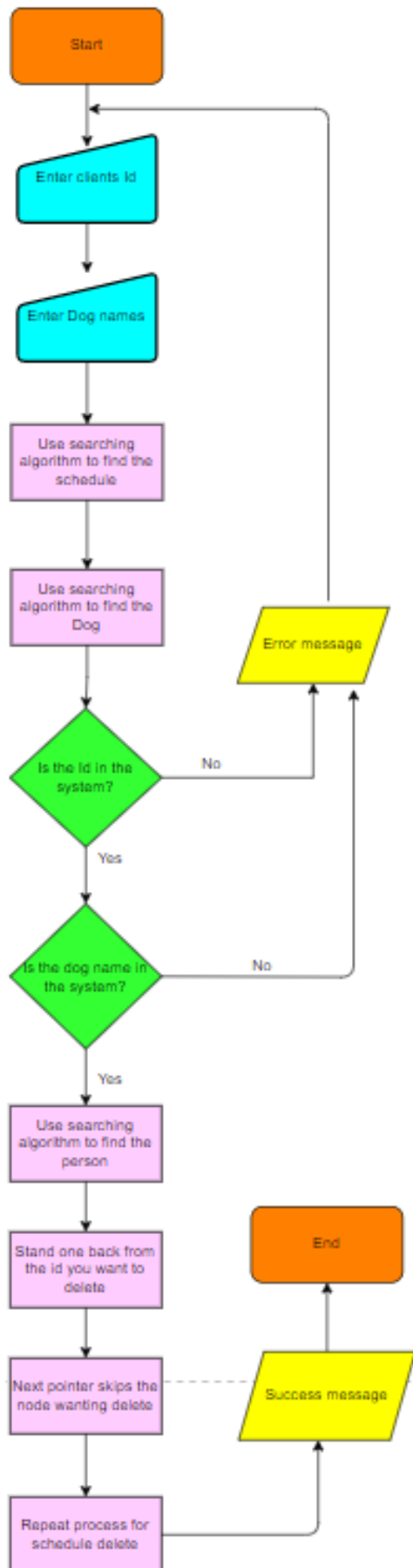
UML Diagram:

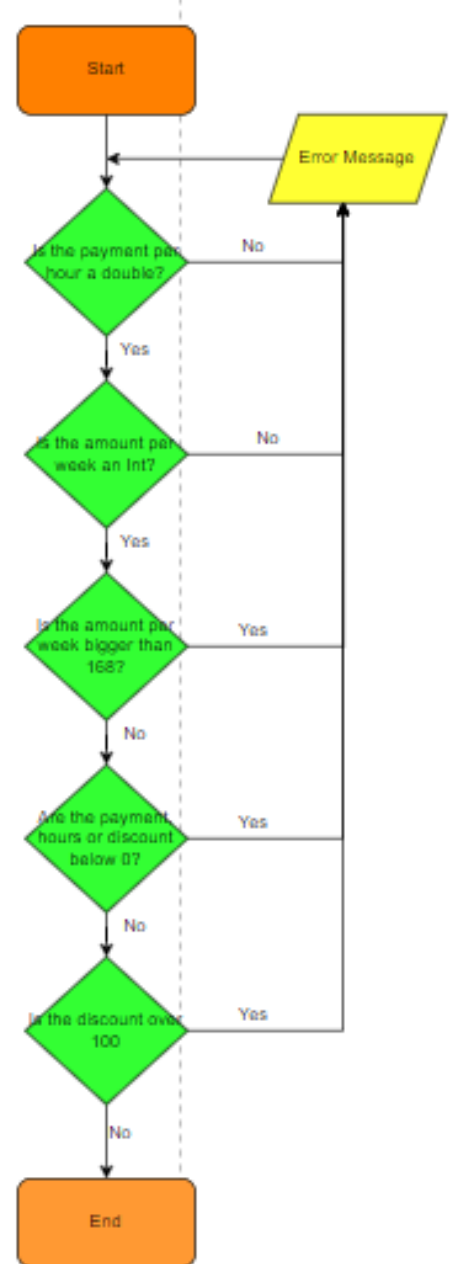
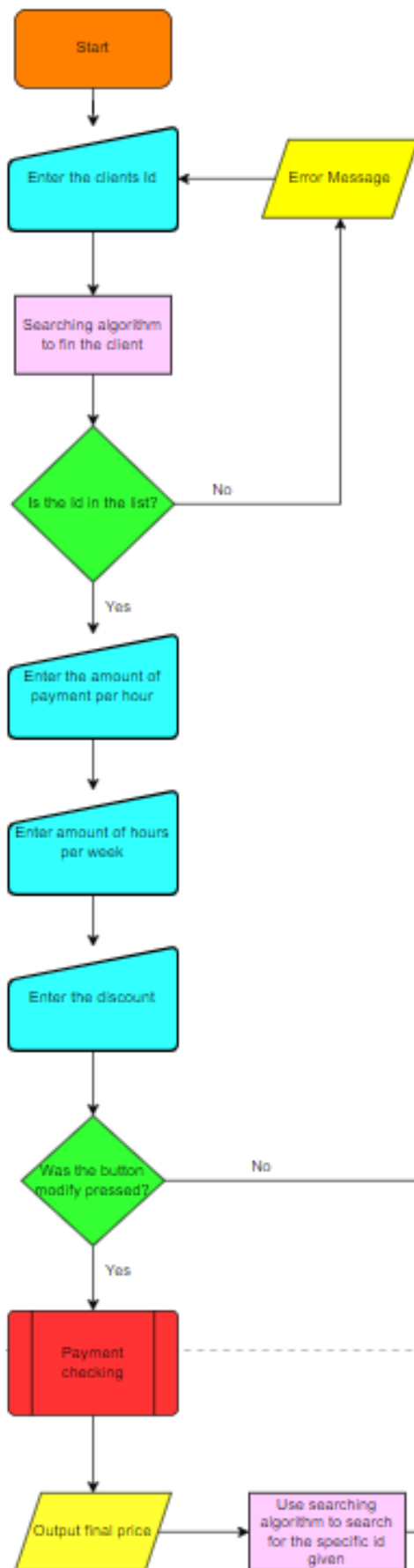


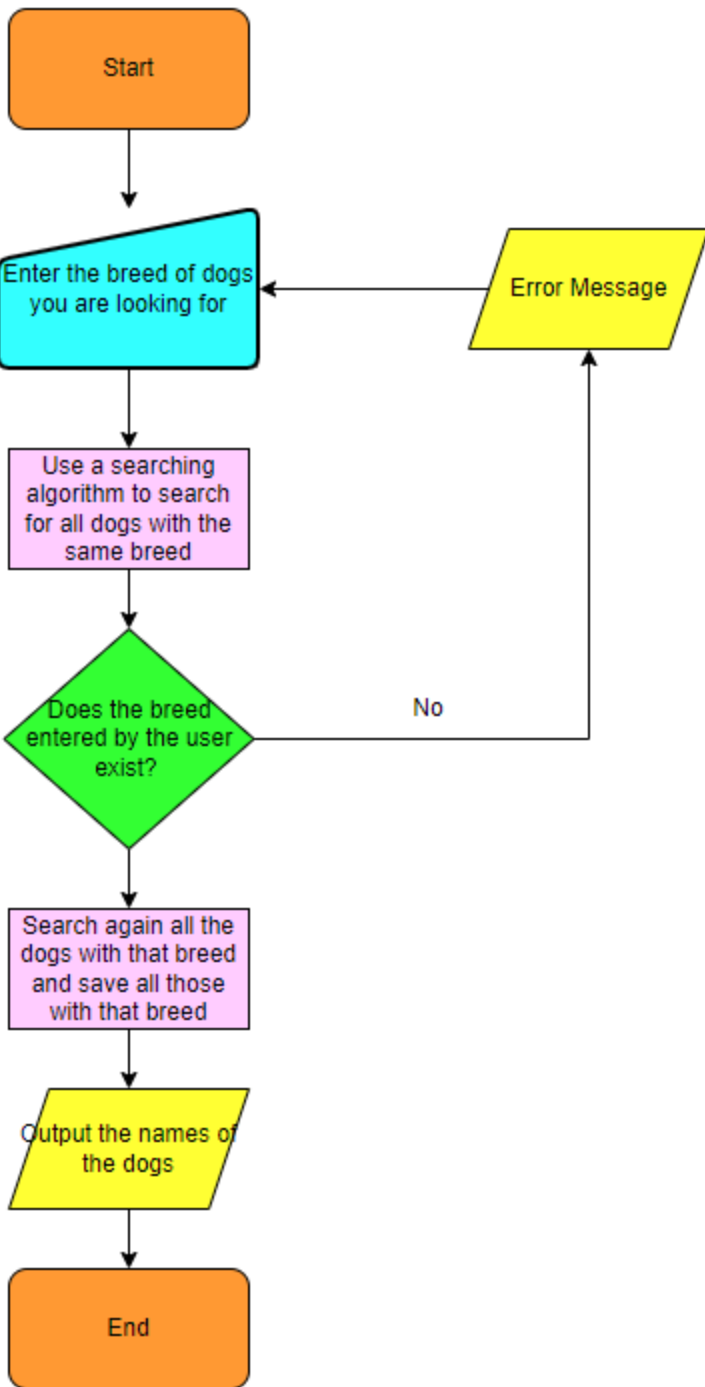
Flowchart:

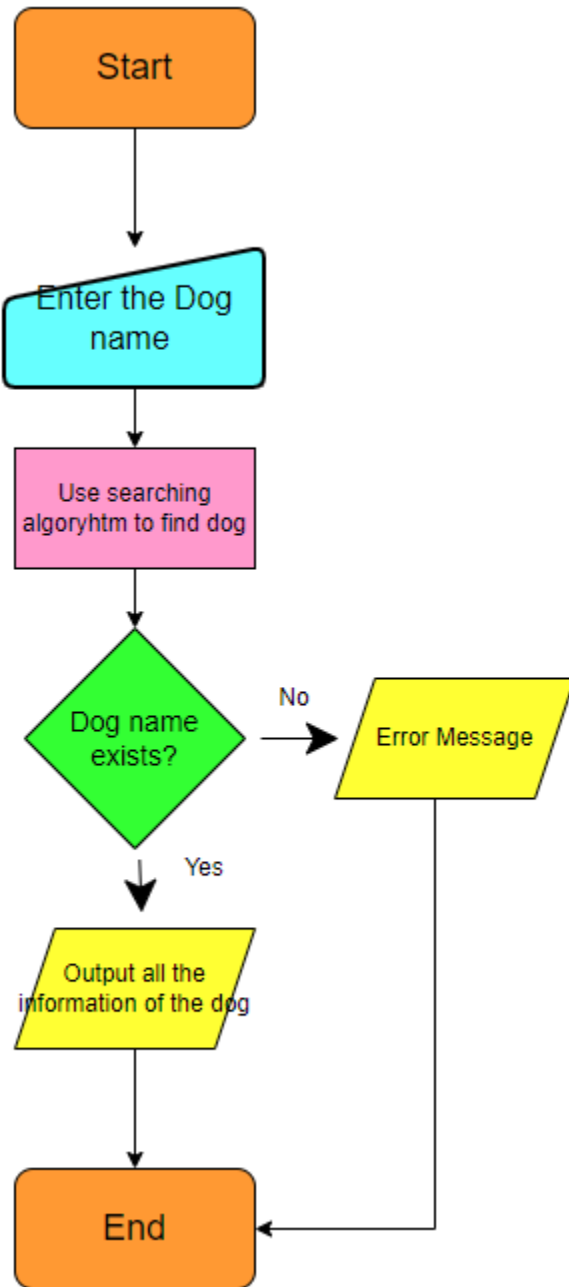


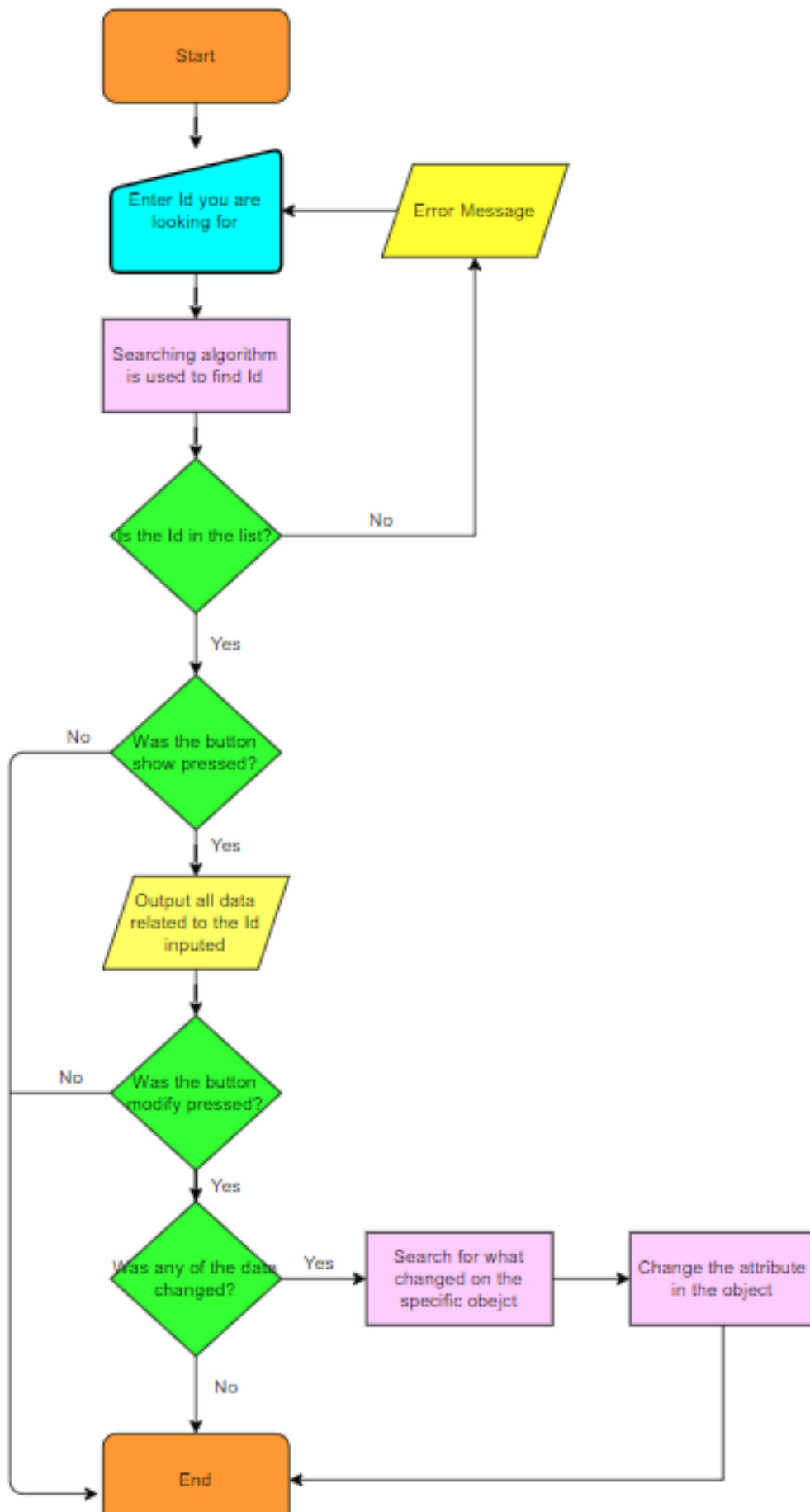












Word count: 394