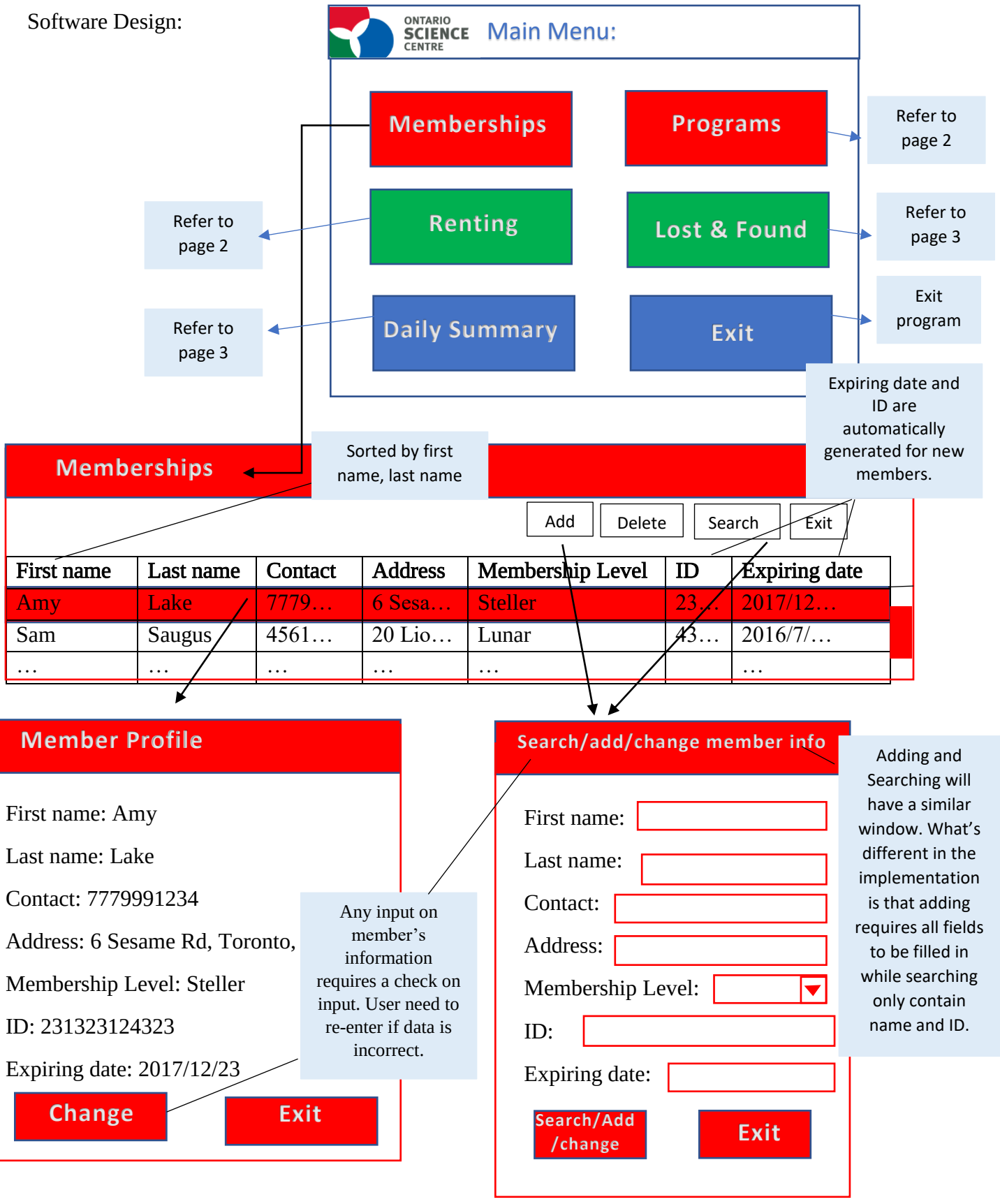
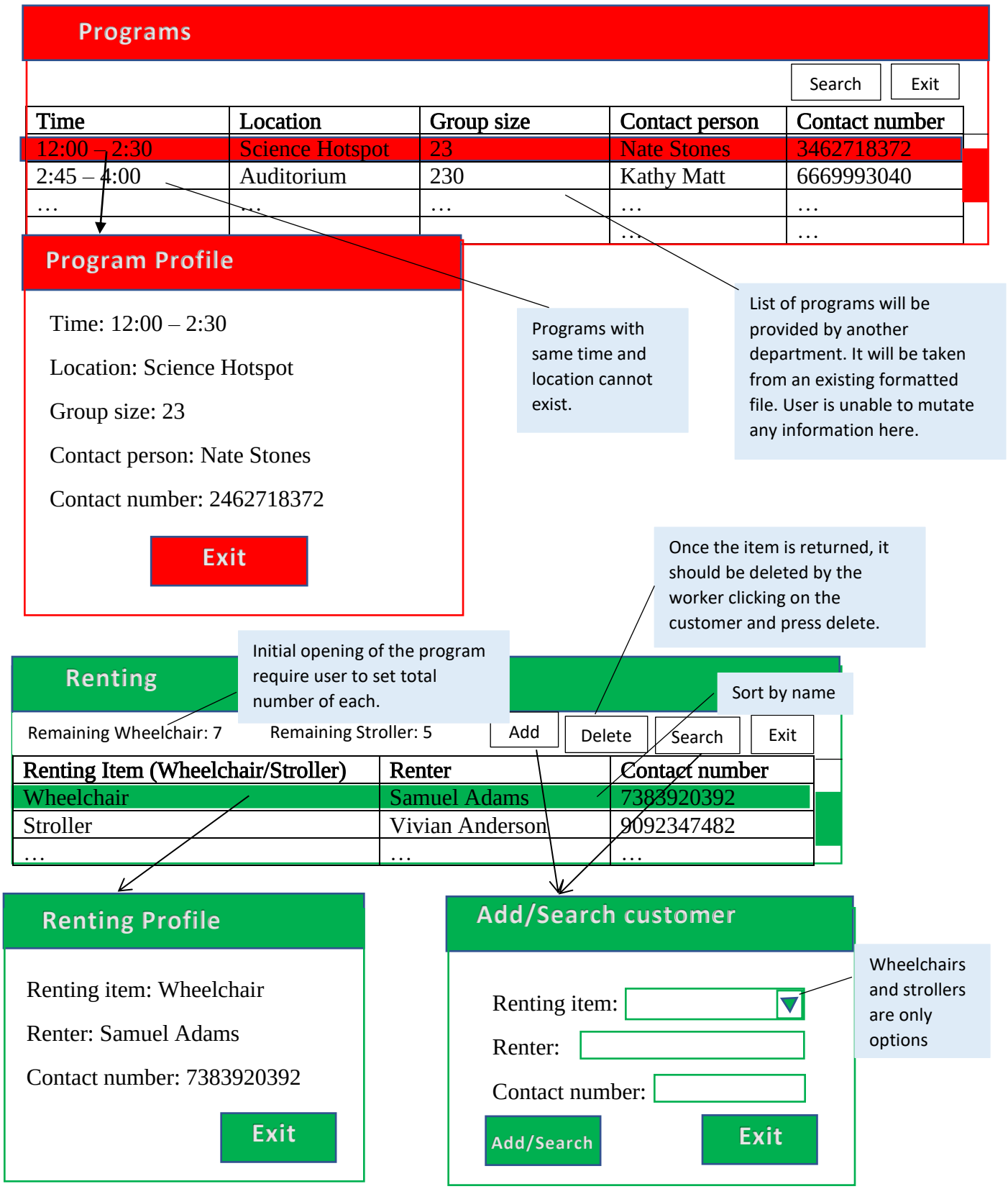
Criterion B: Design

Software Design:




Programs
Search
Exit
Time
Location
Group size
Contact person
Contact number
12:00 – 2:30
Science Hotspot
23
Nate Stones
3462718372
2:45 – 4:00
Auditorium
230
Kathy Matt
6669993040
Program Profile
Time: 12:00 – 2:30
Location: Science Hotspot
Group size: 23
Contact person: Nate Stones
Contact number: 2462718372
Exit
Programs with same time and location cannot exist.
List of programs will be provided by another department. It will be taken from an existing formatted file. User is unable to mutate any information here.
Once the item is returned, it should be deleted by the worker clicking on the customer and press delete.
Renting
Initial opening of the program require user to set total number of each.
Sort by name
Remaining Wheelchair: 7
Remaining Stroller: 5
Add
Delete
Search
Exit
Renting Item (Wheelchair/Stroller)
Renter
Contact number
Wheelchair
Samuel Adams
7383920392
Stroller
Vivian Anderson
9092347482
Renting Profile
Renting item: Wheelchair
Renter: Samuel Adams
Contact number: 7383920392
Exit
Add/Search customer
Renting item:
Renter:
Contact number:
Add/Search
Exit
Wheelchairs and strollers are only options

Stores data for the past 30 days

Lost & Found

Add | Search | Exit

Date	Item description	Contact	Contact Number	Lost/found	Location
2017/12…	Red phone…	Lisa Ma…	3423421323	Lost	Box O…
2017/11/2	Blue Glasses…	Michael…	2542342312	Found	Front…

Lost & Found Profile

Date: 2017/12/23

Item Description: Red phone case with a spider man sticker.

Contact: Lisa Martin

Contact Number: 342

Lost/Found? Lost

Location: Box Office

Once the item is found, it is automatically deleted.

Resolved | Exit

Add/Search

Date:

Item Description:

Contact:

Contact number:

Lost/Found?

Location:

Locations are pre set.

Add/search | Exit

Daily Summary

Only new changes appear on daily summary

Date: 2017/12/23

New Members:

Name	ID
Amy, Lake	231323124323

Deleted Members:

Name	ID
Coco, Land	324637263746

Daily Programs:

Time	Location	Group size	Contact person	Contact number
12:00 – 2:30	Science Hotspot	23	Nate Stones	3462718372
2:45 – 4:00	Auditorium	230	Kathy Matt	6669993040

Renting History:

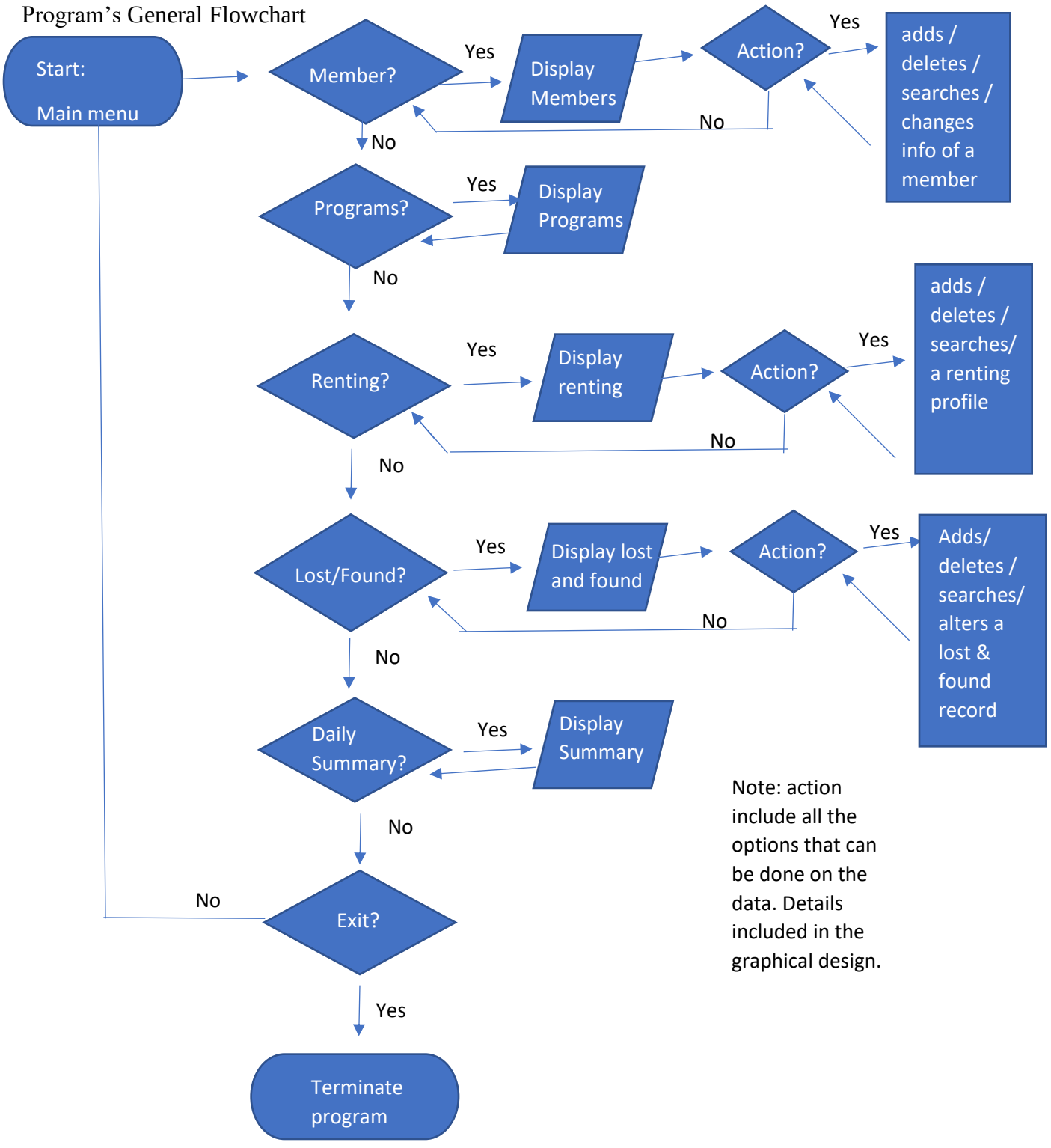
Renting Item (Wheelchair/Stroller)	Renter	Contact number
Wheelchair	Samuel Adams	7383920392
Stroller	Mary Anderson	9092347482

Lost and found history:

Date	Item description	Contact	Contact Number	Lost/found	Location
2017/12/23	Red phone case with a spider man sticker.	Lisa Martin	3423421323	Lost	Box Office

Exit

Program's General Flowchart



Note: action include all the options that can be done on the data. Details included in the graphical design.

Product Development Plan

The input and output of this program is showcased in the graphical display above

Selection and methods
Selection 1: Members • View, add, delete, renew, change a member's information • Search by name or ID.
Selection 2: Programs • View daily programs by time.
Selection 3: Renting • View, add, delete, and search for specific renting profiles by name. • Display remaining number of wheelchairs/strollers
Selection 4: Lost and Found • View, add, and search by date and item • When an item is lost and found, it is automatically deleted from system.
Selection 5: Daily Summary • Display a daily summary.
Exit: • All data saved in an exportable file

Testings

Test	Method
1. Program run properly	Click on the program and let it run
2. No data loss from re-opening.	Add a member/, then re-open the program and check for existing members.
3. Each option leads to the right page	Click each button and check if it matches the content
4. Program exit when button is pressed.	Press button and let program exit.
5. File for daily program is read	Prepare a test file and check if data was shown in program.
6. All members/items are added with correct information	Try entering a wrong information to make sure it will not be saved for each option.
7. Members can be searched by name and ID	All members with the name/ID provided
8. Programs/renting can be searched by contact	Add a list of contacts and search by an existing and a non-existing name.
9. All lost and found are stored and sorted by dates	Enter some data and check for its order
10. Lost and found is searched by date	Try search up a date which appears on the list and see if everything shows up.
11. Daily summary includes all changes.	Store data in two different days. Check the daily summary for both.

Words: 28 (excluding tables)