

### Inputs/Outputs

Input	Data Type	Normal Example	Border	Extreme	Wrong Type
Customer Name	String	James Hellman	??	50	1234
Customer's ID-Number	int	1234567890	??	10	hijkl
Agent's name	String	Falcon Alison	??	50	1234
Agent's password	char	123456	??	9	sdfghjkl
Policy Information	String and int	Number: 123	??	N/A	N/A
Name of Company	String	AIA	??	30	12343
Start Date	int & char	12/12/2030	??	10	ghjkl;
Due Date	int & char	12/12/2030	??	10	ghjkl;
Policy's Value	int	2000000	??	13	ghjkl;
Premium	int	2000000	??	13	ghjkl;
Benefit	String & int	After due: 100000	??	N/A	N/A
Completed Cash Value	int	20000000	??	13	asdf
Current Cash Value	int	20000000	??	13	asdf

## UML (Real World Entities):

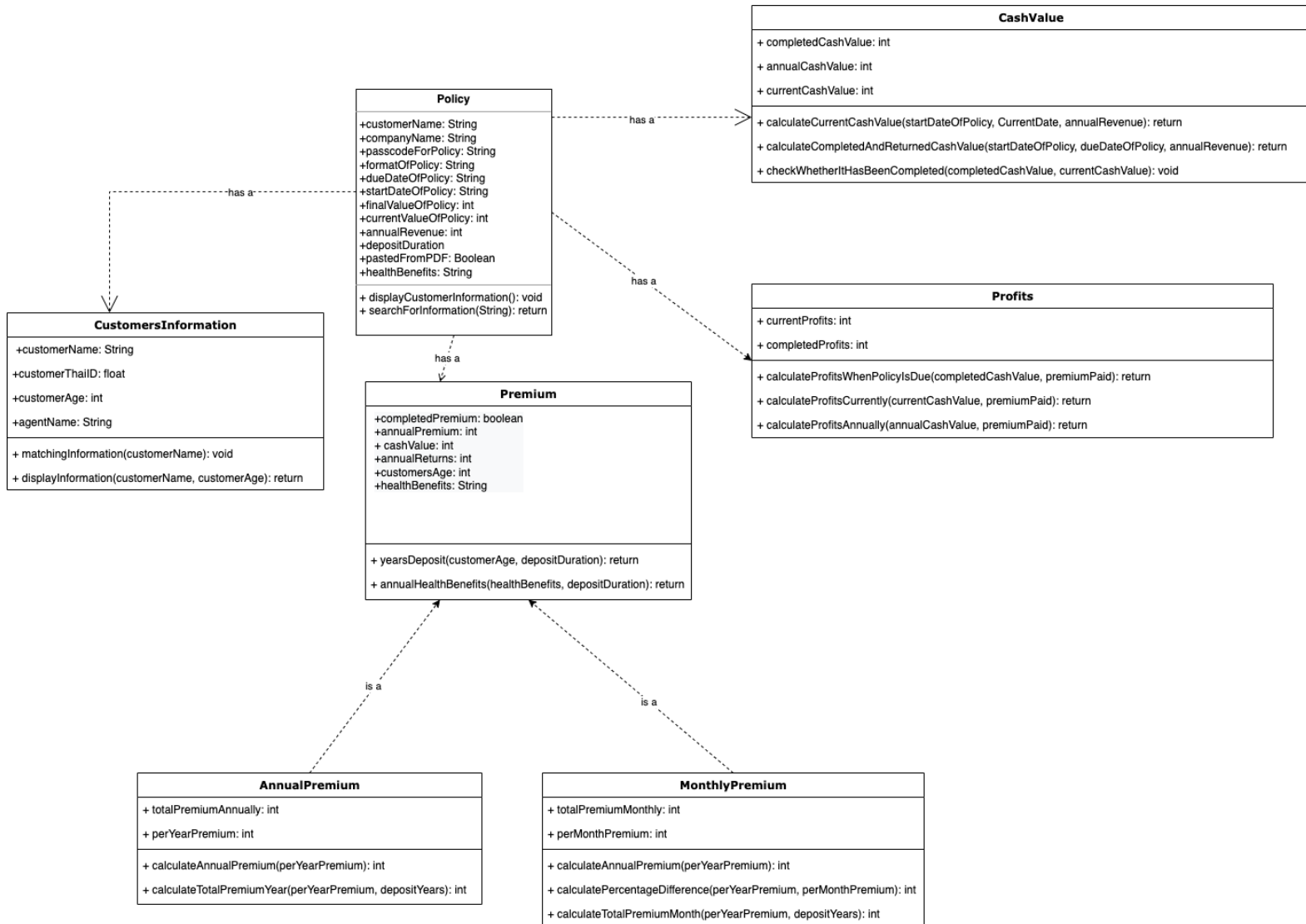


Figure 1: UML of Real World Entities

## Flow Chart:



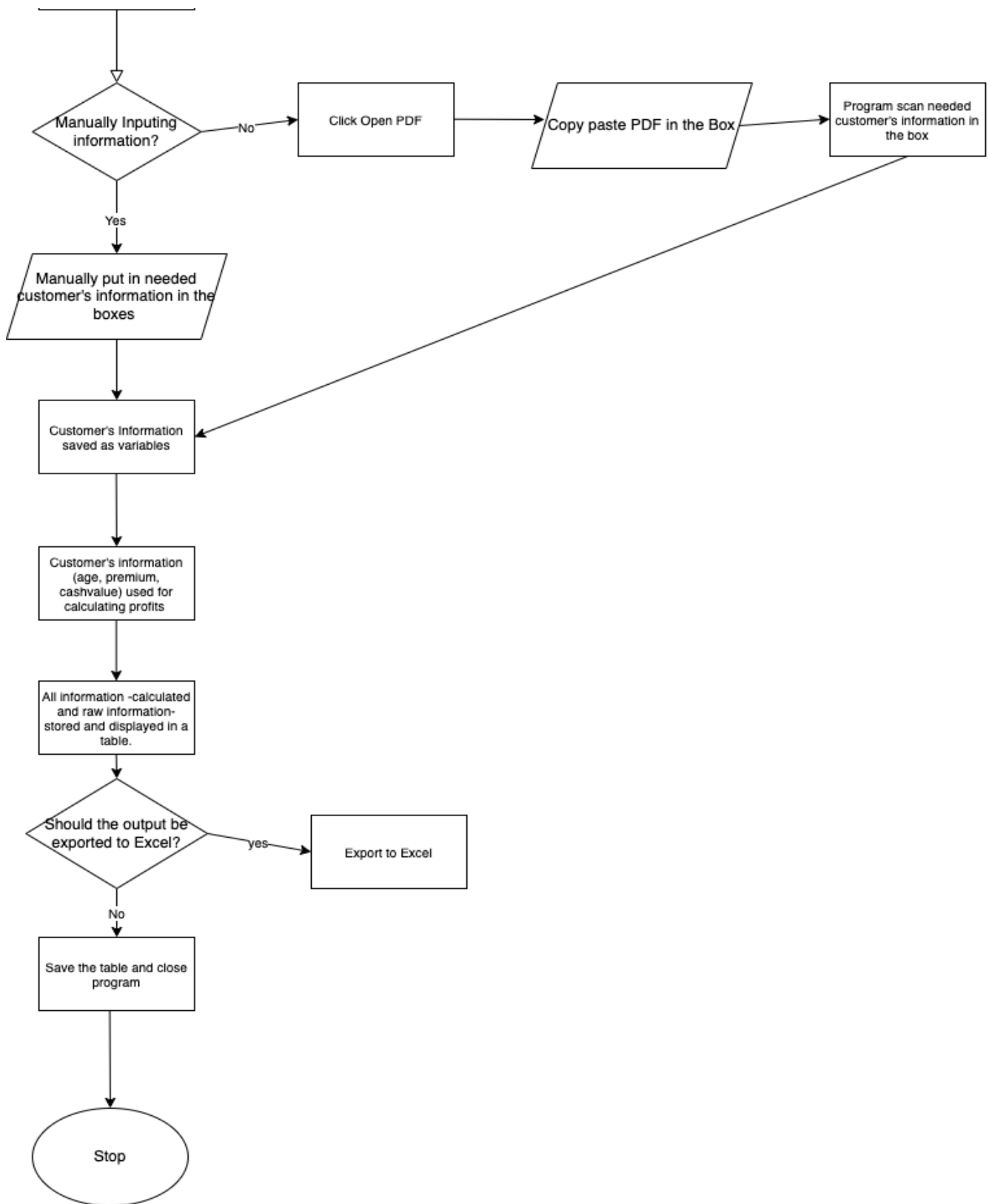


Figure 2: Flowchart of Program's Main Functions

## User Interface Design (Prototype):

Enter Data | Displaying Data | Summary | Health | Full Portfolio | Import | Manual Inputs

Customer's Name:

Customer's ID

Responsible Agent's Name:

Figure 3, Login Page to Specific Customer's Database

Enter Data | Displaying Data | Summary | Health | Full Portfolio | Import | Manual Inputs

Company Name:

Policy Passcode:

Policy Name:

Start Date

Due Date:

Paid Premium:

Premium:   Annually  Monthly

Policy Value:

Completed Cash Value:

Returned Cash Value:

Current Cash Value:

Health Benefits:

Figure 4, Manually Input Information will Be Added Here.



Refresh

Company	Admission Room	Medical Bill	Outpatient	Accidents	Crime Related	Severe Disease	Age of Relevance

Figure 7, Customer's Health Benefits from Various Policies.

File Edit Help

Enter Data    Displaying Data    Summary    Health    **Full Portfolio**    Import    Manual Inputs

Company	1	2	3	4	5	6	7
Type of Policy							
Policy Passcode							
Health Benefits							
Start Date							
End DDate							
Policy Value							
Annually/Monthly Paide Premium							
Number of Years Paid							
Amounts of Money Paid							
Amounts of Years to Pay							
Amounts of Money to be Paid							
Total							
Year	Age						

Figure 8, Summarisation of All Customer's Policies with Customer's Age and Each Policy Progresses.

**Test Plan**

Word Count: 338

<b>Action to Be Tested (referred from success criteria)</b>	<b>Test Method</b>
PDF information can be scanned to give variables appear on the textfield on the Manual Input Page <sup>1</sup>	Copy and paste the information from the PDF of the sample policy given by the company. Check if the company name, Policy Passcode, Policy Name, Start Date, Due Date, Premium, Policy Value, Completed Cash Value, Health Benefits are included; this will be tested to see if the search and sort method works effectively with information directly extracted from PDF.
Random information and correct type of information are manually imputed.	Wrong type of information will be input to test whether there errors will be caught. Large numbers will be input to text whether the program is able to operate with large numbers in a reasonable time, and whether or not errors will occur. If errors occur when the wrong type of data is input, the program functions properly.
Selection of Premium type <sup>1</sup>	Try selecting both, and see if an error occurs. Select one, and see if the function in which output completed premiums on the displaying table page changes. If errors occur when two or none of the boxes are checked, then the program functions correctly.
Check if the profits, completed premiums, paid premiums according to customers' age, and returned cash value are being calculated correctly.	Input Start Date, Due Date, Premium, Policy Value, Completed Cash Value, Health Benefits, Customer's age to see if the information needed to be calculated are being calculated effectively. If the values returned are the same as those calculated in excel are the same, then the function works.
Try logging in at least 3 times.	See if the same customer's name, customer's ID, Agent's name will take to the same working table; if it does, the function works properly.
Check if the information can be edited and refresh button <sup>1</sup>	Try editing information by manually editing the table and try adding new policy information. If the information is edited once refresh button is hit; if it changes in accordance to the new information, then the mechanism functions well.

<sup>1</sup> Client, interview by author, December 17, 2021. Transcript interview #2 summary