Vanier College

Deliverable 3

Client: Opeq, Simon

System Development Section 01
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10/5/2022



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Previous Work Statement

Our team will focus on creating the application from scratch using C# language. Some requirements for the application are that it must be downloadable on PC, and it must be able to connect to a web database. We will use the ideas that we learned from Application Development 1 in the previous semester. We will not use any previous code, but we will use the knowledge that we learned from before.

Executive Overview

The problem that the company OPEQ has is storing caller information on an excel sheet. They want us to make an application that will make it more efficient to store caller information. According to the excel template the client provided, and the application overview diagram created in the previous deliverable, we created a flowchart, a UML diagram, case templates, and a class diagram for this deliverable. This data will be used to build the database and software. For instance, the relationships between tables, the tasks that each interface needs, etc. We include a summary of the current information system in the narrative description. It covers the application's functionality and operating flow.

Summary description of client

The client's full name is Simon Provencher; he is a supervisor at a company named OPEQ, Dinal and Ibrahim's former manager. He deals with computer components like hard drives, motherboards, RAM etc. The client is remarkably familiar with computers, so he is very skilled and has decent literacy, for example, he is quite familiar with Microsoft Office 365 apps like word, excel, etc. He is also familiar with databases as we used databases for items during the internship.

The business problem is that Simon wants a better way to fill out an excel sheet using an application. The application will help organise the data and make it easier to navigate. He wants to use an application because it will be clearer and more consistent to fill out rather than an excel sheet.

Business problem

The problem that our client told us is that they are having a tough time recording the information of the customers that call them. They use an excel sheet to record the information but it takes a while to do it so some information might get mixed up with the others or forgotten completely. The solution that our client proposed is to make a desktop application that will make recording customer information fast and easy and it will also make the viewing of the records more organized. We made a UML diagram, a Flowchart, a Class Diagram and some Use Case Templates to help better understand how the business problem is going to get resolved.

Narrative description

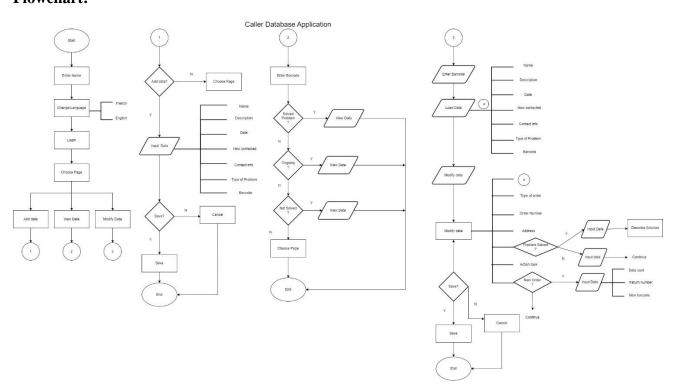
The database is modified by an employee who receives a call from a client with a problem. The boss or employee can later view a list of the past calls and problems to track progress.

The boss and employees have to track the client's product using a barcode to get all the information about the product. The barcode is used to scan then modify, add, and view the information of the client's call.

The client's problem may be fixed with a simple solution, or the company will have to give them a new product. When the company has to give a new product there will be a new barcode that will be used to store the information about the new product, with a return voucher

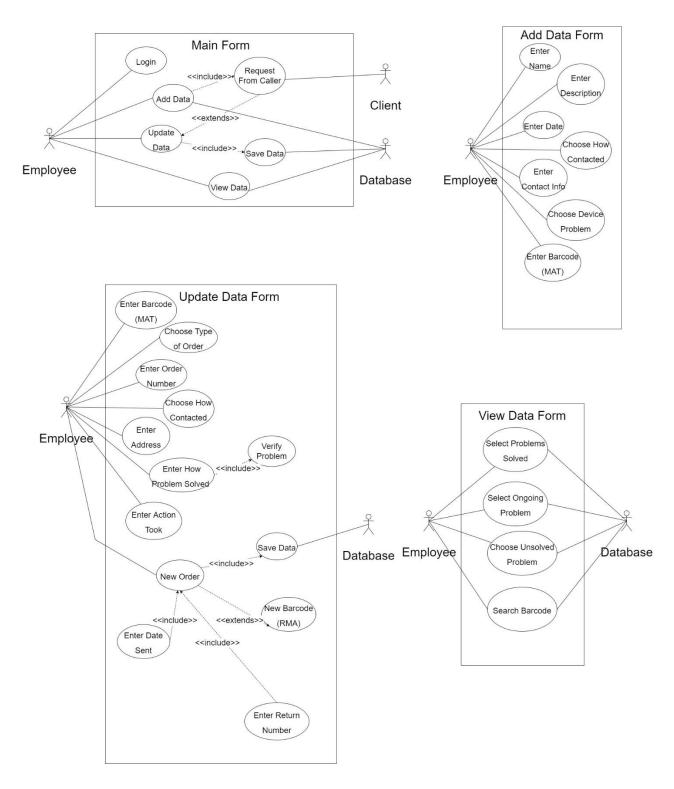
When it comes to the items involved in the company, they first need barcodes to add the item to the database, so to do that, there is a section for donations on the website and in there you must enter for example the computers serial number, model, etc. Which is how items are first added in the database in the first place. After that the item is in the database, in case there might be any mistake, the employee can always scan the barcode and edit whatever is not right like the serial number or model number. In case the bar code might have fallen off, the employee can always scan the serial number and reprint the barcode.

Appendix 1 Flowchart:



Appendix 2 UML Diagram:

Caller Database Application



Appendix 3
Case templates:

Case templates:			_										
Use Case ID	OP-Login												
Use Case Name	Login												
Created By:	Djamankulov Alihan	Last Updated By:	Patel Dinal										
Date Created:	28/09/2022	Last Revision Date:	10/05/2022										
Actors:	Employee (Primary)	Employee (Primary)											
Description:	This use case lets employ	ee to login to the system											
Trigger:	Employee pushes the logi	n button											
Preconditions:	• Employe page												
Post Conditions	 Employee is logged in the system Employee gets options to choose such as add data, view data, and update data in the database 												
Normal Flow	Employee puts his name and logins to the system												
Alternative Flows	N/A												
Exceptions:	N/A												
Includes:	OP-AddData, OP-ViewD	ata, OP-UpdateData											
Frequency of Use:	On demand												
Special Requirements:	N/A												
Assumptions:	Employee will login to th	e system											
Notes and Issues:	N/A												

Use Case ID	OP-RequestFromCaller											
Use Case Name	Request from caller											
Created By:	Djamankulov Alihan	Last Updated By:	Patel Dinal									
Date Created:	28/09/2022	Last Revision Date:	10/02/2022									
Actors:	Employee (Primary), Customers of OPEQ (Seco	ondary)										
Description:	This use case describes ho	w OPEQ gets a request from	om a customer									
Trigger:	Employee gets a call from	a customer										
Preconditions:	• Employee	e is at workplace waiting for	or calls									
Post Conditions (what happens after the whole process)		 Employee has talked with a customer Employee is going to put the information of the customer, or modify it 										
Normal Flow (what happens during the process)	2. Employee	 Employee gets a call from a customer Employee talks with a customer 										
Alternative Flows	N/A	•										
Exceptions:												
Includes:	OP-AddData, OP-Modifyl	Data										
Frequency of Use:	On demand											
Special Requirements:	N/A											
Assumptions:	Employee is at workplace	waiting for calls										
Notes and Issues:	N/A											

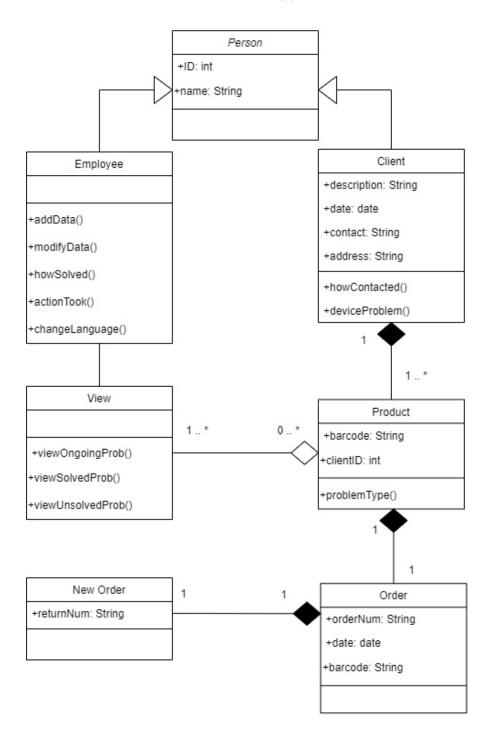
Use Case ID	OP-AddData											
Use Case Name	Add Data											
	Djamankulov Alihan	Last Updated By:	Patel Dinal									
-												
Date Created:	28/09/2022	Last Revision Date:	10/05/2022									
Actors:	Employee (Primary),											
	Database (Secondary)											
Description:	This use case lets employ	is use case lets employee to add the data about the OPEQ customer										
Trigger:	OP-RequestFromCaller	P-RequestFromCaller, Employee pushes add button										
Preconditions:	•	e is logged in the system.	, has chosen add data									
	option											
Post Conditions	• Employe	e inputted all the data for	customer									
Normal Flow	1. Employe	e pushes the add page bu	tton on login page									
		e is on the add page										
		e puts the data:										
		e enters name										
		e enters description										
	6. Employe		.•									
		e enters the contact infor										
	1 •	8. Employee enters the type of contact used by customer										
		9. Employee chooses device problem10. Employee enters barcode										
		e saves the data										
Ala de Tu		ee ends the session	1 .									
Alternative Flows	1 •	e pushes the add page bu	tton on login page									
		e is on the add page										
		e puts the data:										
		e enters name										
		e enters description e enters date										
		e enters the contact infor	mation									
		e enters the type of contact										
		e chooses device problem	-									
		e enters barcode										
	1 2	e cancels and does not sa	ve the data									
		e ends the session										
Exceptions:			oes not proceed to add the									
	data and goes to choose of											
Includes:	OP-RequestFromCaller											
Frequency of Use:	On demand											
Special Requirements:	N/A											
Assumptions:	Employee is logged in the	e system and gets a reque	est from a customer									
Notes and Issues:	N/A											

Use Case ID	OP-ViewData												
Use Case Name	View Data												
Created By:	Djamankulov Alihan	Last Updated By:	Patel Dinal										
Date Created:	28/09/2022	Last Revision Date:	10/05/2022										
Actors:	Employee (Primary), Database (Secondary)	1	•										
Description:	This use case lets employ	vee to view the data from	the database										
Trigger:	Employee pushes the vie	w data button											
Preconditions:	Employe option	ee is logged in the system	n, has chosen view data										
Post Conditions	• Employe	·											
Normal Flow	2. Employe unresolved, s 3. Employe	 Employee chooses from the options given: solved, ongoing, unresolved, search Employee can see the data specified from the options above 											
Alternative Flows	N/A												
Exceptions:	N/A												
Includes:	N/A												
Frequency of Use:	On demand												
Special Requirements:	N/A												
Assumptions:	Employee is logged in th	e system											
Notes and Issues:	N/A												

Use Case ID	OP-UpdateData								
Use Case Name	Update Data								
Created By:	Djamankulov Alihan	Last Updated By:	Patel Dinal						
Date Created:	_	Last Revision Date:	10/05/2022						
Actors:	Employee (Primary),	<u> </u>	<u> </u>						
	Database (Secondary)								
Description:	This use case lets emplo	yee to update the data abou	ut the OPEQ customer						
Trigger:	Employee pushes the bu	tton update data, OP-Requ	estFromCaller						
Preconditions:		 Employee is logged in the system and has option to choose an update page 							
Post Conditions	• Employ	ee updated customer's data	1						
Normal Flow	data 2. Employ 3. Employ 4. Employ 5. Employ 6. Employ 7. Employ 8. Employ 9. Employ 10. Employ 11. Employ 12. Employ	data 2. Employee pushes the update page button on login page 3. Employee updates the customer's data: 4. Employee enters barcode 5. Employee chooses type of order 6. Employee enters order number 7. Employee enters the type of contact used by customer 8. Employee enters customer's address							
Alternative Flows	data 2. Employ 3. Employ 4. Employ 5. Employ 6. Employ 7. Employ 8. Employ 9. Employ 10. Employ 11. Employ	ee gets a call from a custon ee pushes the update page ee updates the customer's ee enters barcode ee chooses type of order ee enters order number ee enters the type of contace ee enters customer's addre ee how problem should be ee enters action took for a ee makes new order ee finishes the session	button on login page data: ct used by customer ss solved						
Exceptions:		the service, employee doe							
Includes:	the data and goes to choon N/A	ose other page or ends the	session						
Frequency of Use:	On demand N/A								
Special Requirements:									
Assumptions:	Employee is logged in th	ne system							
Notes and Issues:	N/A								

Appendix 4 Class diagram:

Caller Database Application



Appendix 5

Client forms and documentation:

Exemple du document Excel;

D	ate	Atelier	Nom resp OPEQ	Raison	Raison (autres)	Provenance	Type Commande	Num comman de N	de et/ou	Date expédiée	Nom bénéficiaire	Nom de l'organisme	Contact téléphonique	Ext.	Contact courriel	Adresse	Informations Résolution	Commentaire spécial	Action prise	RMA C		Demande Fait	Bon d'envois.
(15-	1- ATM	Mathieu	3- Windows non installé		3- En direct (téléphone)	1- Clic	MAT- 20XXXX- XXXXXX	20XXXX-	2021- 05-11	M. Opeq		555 555- 5555		opeq@opeq.qc.ca		Test		2- Envoi accessoire(s) sans RMA	FAUX	VRAI	FAUX	

