Design Document

```
1. Header
// Title: MilkWeightData
// Files: GUIAndCalculation.java, TableCol.java
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// Course: SU20 CS 400 002
// Deadline: 7/3/2020
// Description: This project aims to give user ways to enter dates and get the corresponding
            information of milk weight produced by different farms, which presented in
            cvs files.
// Students who get help from sources other than their partner and the course
// staff must fully acknowledge and credit those sources here. If you did not
// receive any help of any kind from outside sources, explicitly indicate NONE
// next to each of the labels below.
//
// Persons: NONE
// Online Sources:
https://docs.oracle.com/javafx/2/ui_controls/table-view.htm
////
```

2. Class Summary

enum, interface, class, abstract class	Name of the type	Description of use or purpose of this type
class	GUIAndCalculation	This class creates a GUI with multiple textfields for user to interact, and then based on the entered value, the class will calculate the results in a tableview after user pressing specific button. Moverover, the data for calculation will be read from the cvs files of corresponding time as user entered.

class	TableCol	This class works for creating
		columns for each table

3. class diagram

GUIAndCalculation:

public void start(Stage applicationStage){}:

return type	the method name	parameter list	brief description of the
			method
void	start	applicationStage	This method aims to
			create multiple
			textfields,
			buttons, labels,
			and tables for GUI.
			Moreover, it also
			includes the
			handle method
			which is to
			calculate and
			present the
			processed data

public void handle(ActionEvent event) {}:

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return type	the method name	parameter list	brief description of the
			method
void	handle	event	This method is
			acted when user
			pressing a button
			and then it read
			data from files to
			calculate the
			results. Finally,
			it presents the
			results in GUI with
			a table

public static void main(String[] args) {}:

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return type	the method name	parameter list	brief description of the
			method
void	main	args	This method is to
			launch the GUI

TableCol:

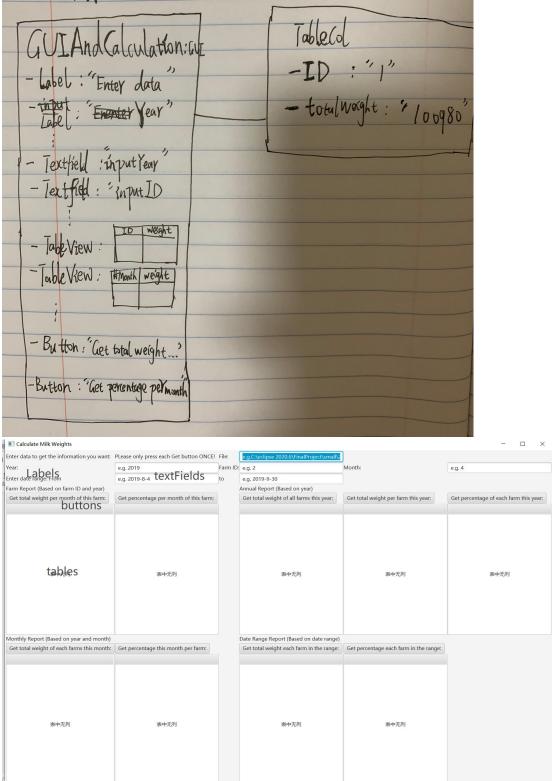
Constructor:TableCol(String ID, String totalWeight)

ID: The first column of each table

totalWeight: the data that can represent the second column for each table for

representing different resulting weight

4. Object Diagram



Enter data to get the information you want: PLease only press each Get button ONCE! File: e.g.C.\eclipse 2020.6\FinalProject\small\z	
Year: 2019 Farm ID: 2 Month:	e.g. 4
Enter date range: From e.g. 2019-8-4 to e.g. 2019-9-30	
Farm Report (Based on farm ID and year) Annual Report (Based on year)	
Get total weight per month of this farm: Get pencentage per month of this farm: Get total weight of all farms this year: Get total weight per farm this year	Get percentage of each farm this year:
#Month totalWeight	
1 109010	
2 97524	
李中 无列 李中 无列 李中 无列	表中无列
4.10.	4-17072
Monthly Report (Based on year and month) Date Range Report (Based on date range)	
Get total weight of each farms this month: Get percentage this month per farm: Get total weight each farm in the range: Get percentage each farm in the range: Get percentage each farm in the range: Get total weight each farm in the range: Get percentage each farm in the range: Get percentag	ange:
表中无列 表中无列 表中无列	