Design Document

1. Header

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) {}:

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) {}:

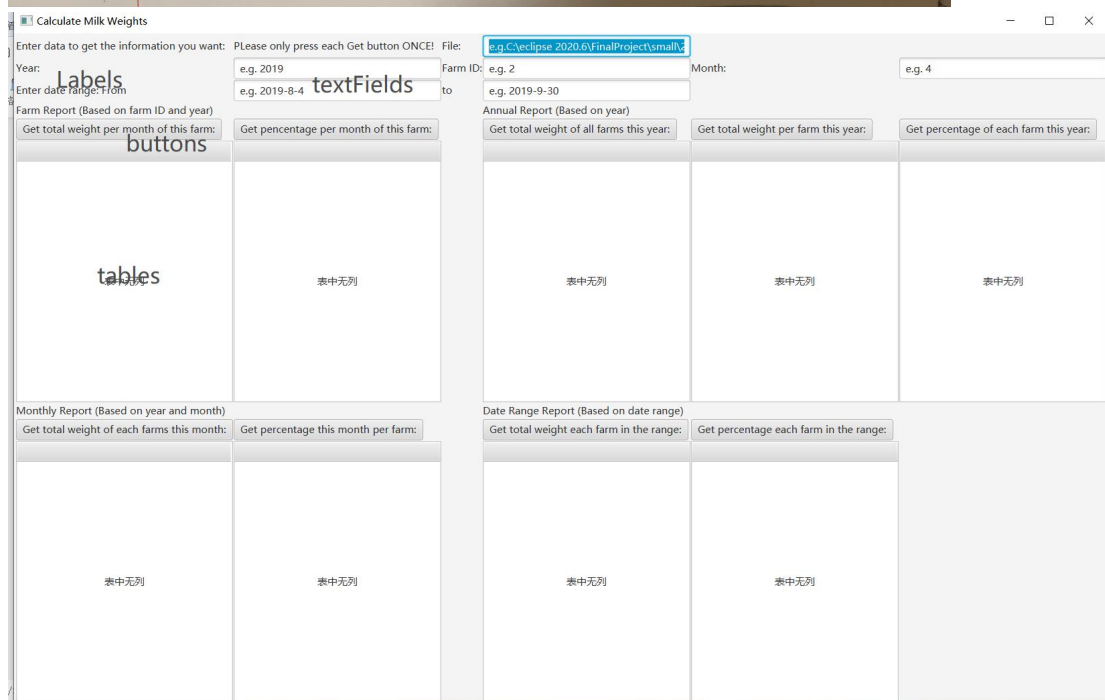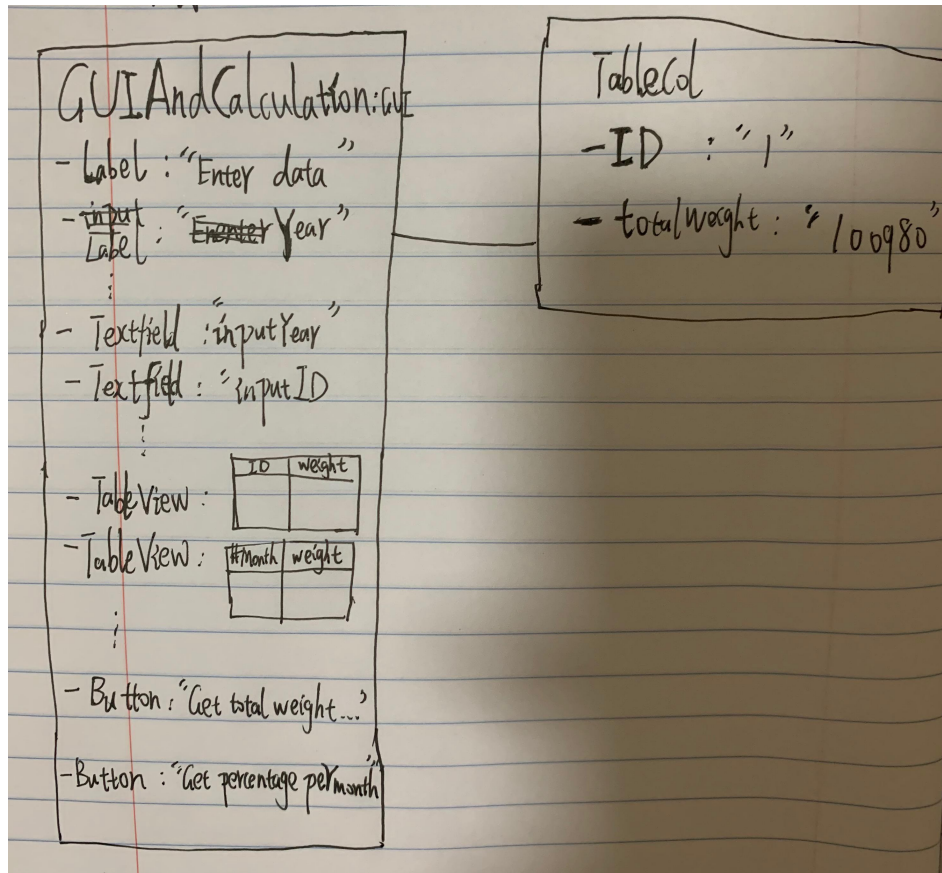| return type	the method name	parameter list	brief description of the method
void	main	args	This method is to launch the GUI

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

5. GUI

Milk Weights Calculation Made By Zhan Yu

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

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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: |

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