

# SCHOOL OF COMPUTING UNIVERSITI UTARA MALAYSIA

# **STIA1123 PROGRAMMING 2**

PROJECT (30%)

FIRST SEMESTER SESSION 2019/2020 (A191)

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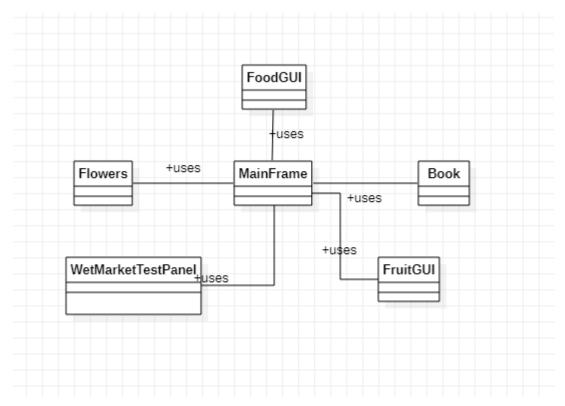
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## **1.0 BACKGROUND OF THE PROJECT**

We started this project of Green-vid to provide an insight into the correlation between environment and COVID-19. While doing this project, we further broke down the topic of the environment into subtopics such as Animal (Wet Market Test), Fruit(Fruit Supply), Flower(Health Treatment), Book (book sales report) and Food (COVID-19 affect Food). This helped to delineate the relationship between specific aspects of the environment and the COVID-19 virus. This app was designed with various purposes firstly to help people to be able to gain access to information more accessible, secondly to get people's need done easier. These are unprecedented times, and The environment has unequivocally been affected by these changes, both in positive and negative ways. We believe it is imperative that society is aware of how COVID-19 and the environment are intertwined."

# 2.0 UML CLASS DIAGRAM

Mainframe is the frame that holds our contents.



## **2.1 MAINFRAME CLASS**

MainFrame	
-JPanel basePanel	
-JPanel bookBtn	
-JPanel bookPanel	
-ButtonGroup buttonGroup1	
-JPanel contentPanel	
-JPanel exitBtn	
-JPanel flowerBtn	
-JPanel flowersBasePanel	
-JPanel foodBtn	
-JPanel foodPanel	
-JPanel fruitBasePanel	
-JPanel fruitBtn	
-JLabel jLabel1	
-JLabel jLabel10	
-JLabel jLabel11	
-JLabel jLabel12	
-JLabel jLabel14	
-JLabel jLabel 18	
-JLabel jLabel19	
-JLabel jLabel2	
-JLabel jLabel7	
-JLabel jLabel8	
-JLabel jLabel9	
-JPanel menuPanel	
-JPanel wetMarketBasePanel	
-JPanel wetMarketBtn	
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## 2.2 WET MARKET TEST

	rtMarketTestPanel
-List <wetmarkettest> testList</wetmarkettest>	
-String USERNAME	
-String PASSWORD	
-JButton addBtn	
-JPanel addPanel	
-JPanel addWetMarketPanel	
-JButton barChartBtn	
-ButtonGroup buttonGroup1	
-DateChooserCombo dateChooserCombo1	
-JLabel helloLabel	
-JTextField idField	
-JButton jButton1	
-JLabel jLabel1	
-JLabel jLabel10	
-JLabel jLabel11	
-JLabel jLabel13	
-JLabel jLabel15	
-JLabel jLabel16	
-JLabel jLabel3	
-JLabel jLabel4	
-JLabel jLabel5	updatete:
-JLabel jLabel6	
-JLabel jLabel7	
-JLabel jLabel8	
-JLabel jLabel9	
-JRadioButton jRadioButton1	
-JRadioButton jRadioButton2	
-JScrollPane jScrollPane1	
-JTable jTable1	
-JTextField locationField	
-JButton loginBtn	
-JLabel loginNotifier	
-JPanel loginPanel	
-JLabel logoutBtn	
-JButton nextStatisticBtn	
-JPasswordField passwordField	/ / /
-JButton removeBtn	/ /
-JPanel statPanel	/ /
-JTextField testedAnimalField	/ /
-JButton updateBtn	/ / /
-JTextField usernameField	- / /
	/
-JTextField wetMarketNameField	
+WetMarketTestPanel()	
-void showData()	
+void saveToFile() +void loadFromFile()	
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Up	dateTestForm
-UpdateTestListener updatetestInfoListener	
- JPanel addPanel	
-ButtonGroup buttonGroup1	
-DateChooserCombo dateChooserCombo1	
-JTextField idField	
-JLabel jLabel13	
-JLabel jLabel15	
-JLabel jLabel16	
-JLabel jLabel3	
-JLabel jLabel4	
-JLabel jLabel5	
-JRadioButton jRadioButton1	
-JRadioButton jRadioButton2	
-JTextField locationField	
-JTextField testedAnimalField	
-JButton updateDialogBtn	
- JPanel updatePanel	
-JTextField wetMarketNameField	
+UpdateTestForm()	
+void setUpdateInfoTestListener(UpdateTestListener I	istener)
-// <editor-fold defaultstate="collapsed" desc="General&lt;/td&gt;&lt;td&gt;ted Code">//GEN-BEGIN:initComponents void initComponents()</editor-fold>	
-void updateDialogBtnActionPerformed(ActionEvent e	
+ static void main(String args)	

+static void main(String args)

+void untitledMethod1()

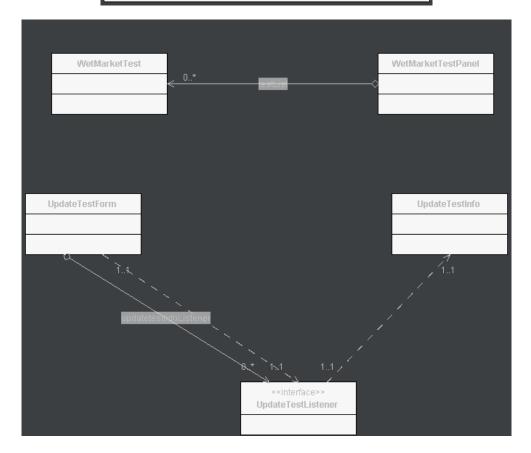
UpdateTestInfo

-String id				
-String wetMarketName -String location -String testedAnimal				
			-String covidResult	
			tring date	
pdateTestInfo(String id, String wetMarketName, String location, String testedAnimal, String covidResult, String date, Object source)				
tring getId()				
pid settd(String id)				
tring getWetMarketName()				
pid setWetMarketName(String wetMarketName)				
tring getLocation()				
pid setLocation(String location)				
tring getTestedAnimal()				
pid setTestedAnimal(String testedAnimal)				
tring getCovidResult()				
pid setCovidResult(String covidResult)				
tring getDate()				
pid setDate(String date)				
pid untitledMethod()				

# <<interface>> UpdateTestListener

#### +void updateEventOccured(UpdateTestInfo updateInfo)

	WetMarketTest
-String	id
-String	wetMarketName
-String	location
-String	testedAnimal
-String	covidResult
-String	date
+WetM;	arketTest(String id, String wetMarketName, String location, String testedAnimal, String covidResult, String date)
+String	
-	ettd(String id)
+ String	getWetMarketName()
+void s	etWetMarketName(String wetMarketName)
+ String	getLocation()
+void s	etLocation(String location)
+ String	getTestedAnimal()
+void s	etTestedAnimal(String testedAnimal)
+ String	getCovidResult()
+void s	etCovidResult(String covidResult)
+ String	getDate()
+void s	etDate(String date)



#### 2.3 FRUIT

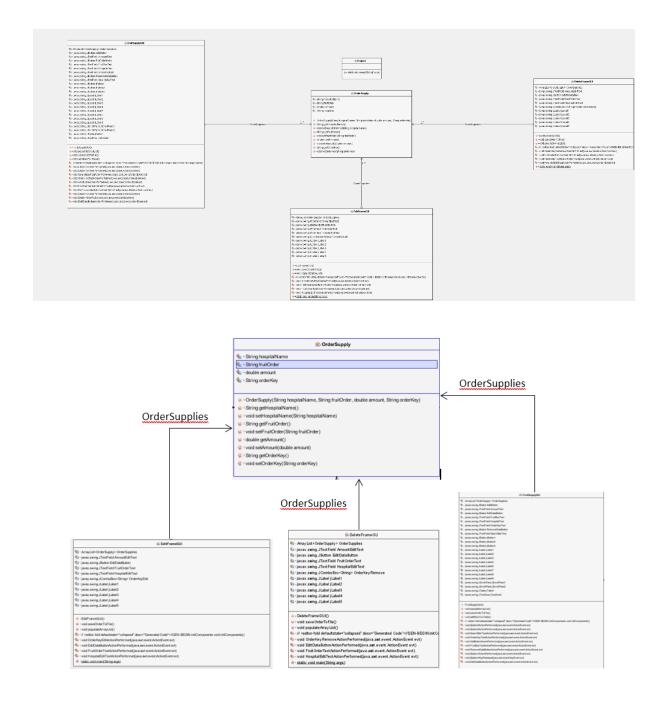
	il/s FruitSupplyGU
💺 - ArrayList <ordersup;< th=""><th>aly&gt; OrderSupplies</th></ordersup;<>	aly> OrderSupplies
🔄 - javax.swing.JButton /	AddButton
🔄 - javax.swing.JTextFie	Id AmountText
🔄 - javax.swing.JButton 8	EditDataButton
🍇 – javax.swing.JTextFie	dd FruitBaxText
🍓 - javax.swing.JTextFie	Id HospitalText
🍋 - javax.swing.JTextFie	ld OrderKeyText
🖢 - javax.swing.JButton F	RemoveDataButton
🖢 - javax.swing.JTextFie	ld SearchBarText
🍇 - javax.swing.JButton j	Button1
🖢 - javax.swing.JButton j	Buttan2
🖢 - javax.swing.JButton j	Buttan3
🖢 - javax.swing.JLabel jL	abel1
🍇 - javax.swing.JLabel jL	abel2
🖢 - javax.swing.JLabel jL	abel3
🖢 - javax.swing.JLabel jL	abel4
🔩 - javax.swing.JLabel jLabel5	
🔄 - javax.swing.JLabel jL	abel7
🔄 - javax.swing.JLabel jL	abel8
🔄 - javax.swing.JLabel jL	abel9
i javax.swing.JScrollPane jScrollPane1	
🔄 - javax.swing.JScrollP	ane jScrollPane2
🔄 - javax.swing.JTable j	Table1
🔄 - javax.swing.JTextAre	sa jTextArea1
+ FruitSupplyGUI()	
void populateArrayLis	al)
	5
+vaid saveOrderTaFile	(e)
void saveOrder Lohili void addRowToJTabl	state="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents void initComponents()
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1	V		
	🕸 EditFrameGUI		
	ParayList <ordersupply> OrderSupplies</ordersupply>		
	🛍 - javax.swing.JTextField AmountEditText		
	🔁 - javax.swing.JButton EditDataButton		
	🔁 - javax.swing.JTextField FruitOrderText		
	🛍 - javax.swing.JTextField HospitalEditText		
	🛍 - javax.swing.JCombaBox <string> OrderKeyEdit</string>		
	🛍 - javax.swing.JLabel jLabel 1		
	🛱 - javax.swing.JLabel jLabel2		
	🛍 - javax.swing.JLabel jLabel3		
	🛱 - javax.swing.JLabel jLabel4		
	🛍 - javax.swing.JLabel jLabel5		
	+ EditFrameGUI()		
	🗣 - // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN initComponents void initComponents()</editor-fold>		
	😜 - vaid OrderKeyEdilActionPerformed(java.awt.event.ActionEvent.evt)		
	🗣 - vaid EditDataButtonActionPerformed(java.awt.event.ActionEvent.evf)		
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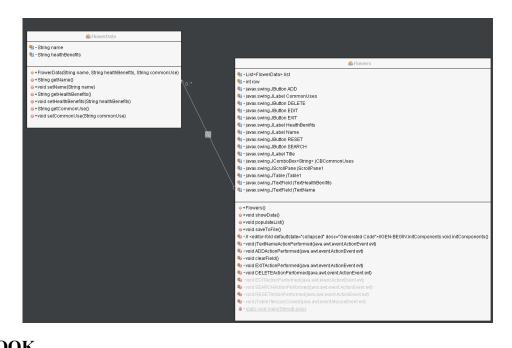
- -void FruitOrderTextActionPerformed(java.awt.event.ActionEvent.evf)
   -void HospitalEditTextActionPerformed(java.awt.event.ActionEvent.evf)
- istatic void main(String args)

🋳 Del ete Frame G U	
🖏 - Аттаy List < Order Supply > Order Supplies	
🛍 - javax.swing.JTextField AmountEditText	
🔄 - javax.swing.JButton EditDataButton	
🞕 - javax.swing.JTextField FruitOrderText	
🐑 - javax.swing.JTextField HospitalEditText	
🛍 - javax.swing.J ComboBox <string> OrderKey Remove</string>	
🐑 - javax.swing.JLabel jLabel1	
🐑 - javax.swing.JLabel jLabel2	
🛍 - javax.swing.JLabel jLabel3	
🔄 - javax.swing.JLabel jLabel4	
🞕 - javax.swing.JLabel jLabel5	
♦ + Delete Frame GUI()	
🐸 + void saveOrderToFile()	
• + void populateArrayList()	
4 - // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initCo</editor-fold>	
🌯 - void OrderKeyRemoveActionPerformed(java.awt.event.ActionEvent evt)	
40 - void Edit Data Button Action Performed (java.awt.event.Action Event evt)	
🕸 - void FruitOrderTextActionPerformed(java.awt.event.ActionEvent evt)	
so - void HospitalEditTextActionPerformed(java.awt.event.ActionEvent evt)	
® + <u>static void main(String arg</u> ≤)	

😢 OrderSupply			
<b>Q</b> 5	🎕 - String hospitalName		
Q 5	🌯 - String fruitOrder		
🍋 - c	🌯 - double amount		
i - 5	🌯 - String anderKey		
÷ 10	OrderSupply(String hospitalName, String fruitOrder, double amount, String orderKey)		
<b>e</b> + 5	String getHospitalName()		
9 H	void setHospitalName(String hospitalName)		
<b>9</b> + 5	G String getFruitOrder()		
9 H	4 / vaid setFruitOrder(String fruitOrder)		
<b>€</b> 10	dauble getAmount()		
Q 15	void setAmount(double amount)		
Q + 5	String getOrderKey()		
0.15	vaid setOrderKey(String arderKey)		
٨			



#### **2.3 FLOWER**



#### **2.4 BOOK**

🖄 Book	📩 Bookinfo
-List <bookinfo> list</bookinfo>	🖷 - String title
🔁 ~ int row	👰 - String category
🄄 - javax.swing.JButton ADD	
🏟 - javax.swing.JLabel Category	♦+BookInfo(String title, String category, String quantity, String reason)
🤹 - javax.swing.JButton DELETE	+ Bookino(sung due, sung categoly, sung quantity, sung reason)     • + String getTitle()
🎕 - javax.swing.JButton EDIT	● + sung gernee()
🎕 - javax.swing.JLabel Quantity	0.** •+vold service(stilling une) •+String getCategory()
🎕 - javax.swing.JLabel Reason	+void setCategory(String category)
획 - javax.swing.JLabel BookTitle	• + String getQuantity()
획 - javax.swing.JButton RESET	• Coming getedantity()
🎕 - javax.swing.JButton SEARCH	• + String getReason()
획 - javax.swing.JLabel Title	• + void setReason(String reason)
🎭 - javax.swing.JComboBox <string> jCBCategory</string>	
🎕 - javax.swing.JScrollPane jScrollPane1	
🍬 - javax.swing.JTable jTable1	
🄄 - javax.swing.JTextField jTextQuantity	af an
🄄 - javax.swing.JTextField jTextReason	
🤹 - javax.swing.JTextField jTextBkTitle	
◆+Book()	-
●+void showData()	
+void populateList()	
+void saveToFile()	
🎭 -void initComponents()	
void jTextBkTitleActionPerformed(java.awt.event.ActionEvent evt)	
획 -void ADDActionPerformed(java.awt.event.ActionEvent evt)	
획 -void clearField()	
🤹 -void DELETEActionPerformed(java.awt.event.ActionEvent evt)	
void EDITActionPerformed(java.awt.event.ActionEvent evt)	
void SEARCHActionPerformed(java.awt.event.ActionEvent evt)	
void RESETActionPerformed(java.awt.event.ActionEvent evt)	
+ <u>static void main(String] args)</u>	

## **2.5 FOOD**

foodInfo     String data      +foodInfo(String data)     - static void setText(String selected)     - static Object detText()     - static Object detText()     - +String getData()     - +void setData(String data)	0.*
	© rood Itst <foodinfo> list U - DefaultListModel defaultListModel U - javax.swing.JButton ADD</foodinfo>
	<ul> <li>Qi - javax.swing.JLabel jLabel1</li> <li>Qi - javax.swing.JLabel jLabel2</li> <li>Qi - javax.swing.JListString&gt; jList1</li> <li>Qi - javax.swing.JPanel jPanel1</li> </ul>
	• javax.swing.JScrollPane jScrollPane1         • javax.swing.JTextField jTextField1         • + food0
	<ul> <li>+void showData()</li> <li>+void populateList()</li> <li>+void saveToFile()</li> <li>// «editor-fold defaultstate="collapsed" desc="Generated Code"&gt;//GEN-BEGIN:initComponents void initComponents()</li> <li>-void jTextField1ActionPerformed(java.awt.event.ActionEvent evt)</li> <li>-void ADDActionPerformed(java.awt.event.ActionEvent evt)</li> <li>-void ADDActionPerformed(java.awt.event.ActionEvent evt)</li> </ul>
	• + static void main(String args)

# **3.0 PROGRAM DESCRIPTIONS**

#### **3.1 WET MARKET TEST**

Wuhan's animal market was believed to be the first place to transmit COVID-19. Some animals are thought to be the causes of COVID-19. Many health experts believe that the new strain of coronavirus likely originated in bats or pangolins ("Coronavirus (COVID-19) origin: Cause and how it spreads", 2020)

Wet Market Tes GUI is a program that records the COVID- 19 testings of animals at a wet market. The program also displays statistical representations such as a table and bar graph. The program also can exhibit trending cases for every wet market being entered into the program. Besides that, the program can update, delete the existing information.

#### Login interface

Only people who are authorized can add, delete, update data.

Username: Password	Usemame: <u>ilham_mmr</u> Password: *******

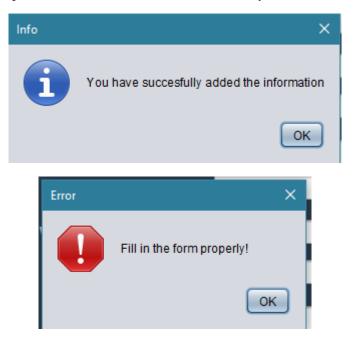
#### Add form

A panel for adding data.

	🔅 COVID-19 TEST IN WET MARKETS				
ĥ нено г	admin! FORM				
	TESTING ID:	CVD000			
	WET MARKET NAME: LOCATION:	Chow Kit wet market Kuala Lumpur			
	TESTED ANIMAL: COVID-19 RESULT:	negative     Positive			
	TESTING DATE:	5/1/20			
		(+) ADD			

#### **POP-UP Dialog**

JOptionPane will pop up whenever the data is entered successfully and unsuccesfully.

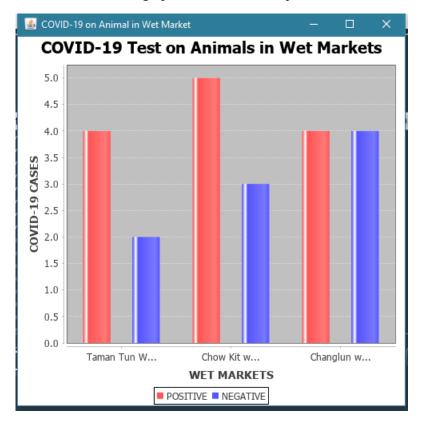


#### **Statistical Interface**

The entered data being displayed on table.

		الله آلم الم	ISTICAL RE	PORT	
ID	Wet Market Name	Location	Tested Animal	COVID-19 Result	Testing Date
CVD000	Chow Kit wet market	Kuala Lumpur	Bat	NEGATIVE	5/1/20
CVD001	Chow Kit wet market	Kuala Lumpur	Bat	POSITIVE	5/4/20
CVD002	Chow Kit wet market	Kuala Lumpur	Bat	POSITIVE	5/6/20
CVD003	Chow Kit wet market	Kuala Lumpur	Bat	NEGATIVE	5/6/20
CVD004	Chow Kit wet market	Kuala Lumpur	Bat	POSITIVE	5/20/20
CVD005	Chow Kit wet market	Kuala Lumpur	Bat	POSITIVE	5/23/20
CVD006	Chow Kit wet market	Kuala Lumpur	Chicken	NEGATIVE	5/27/20
CVD007	Chow Kit wet market	Kuala Lumpur	Bat	POSITIVE	5/30/20
CVD008	Changlun wet mark	Changlun	Bat	POSITIVE	5/2/20
CVD009	Changlun wet mark	Changlun	Bat	POSITIVE	5/17/20
CVD0010	Changlun wet mark	Changlun	Bat	POSITIVE	5/17/20
CVD0010	Changlun wet mark	Changlun	Bat	NEGATIVE	5/20/20
CVD0011	Changlun wet mark	Changlun	Bat	NEGATIVE	5/22/20
CVD0011	Changlun wet mark	Changlun	Bat	NEGATIVE	5/24/20
CVD0011	Changlun wet mark	Changlun	Bat	NEGATIVE	5/24/20
CVD0012	Changlun wet mark	Changlun	Bat	POSITIVE	5/12/20
Show Bar Chart :				REM	IOVE UPDATE

If a bar graph button is clicked, the bar graph frame will show up based off of the data table.

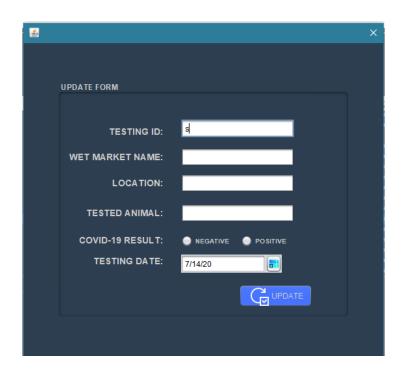


#### **Update and Remove Data**

To remove data on table, just simply select a row and click the remove button.



Whereas for updating data, choose a row and then click the update button. Immediately the update form will pop up.



#### **3.2 FRUIT SUPPLY**

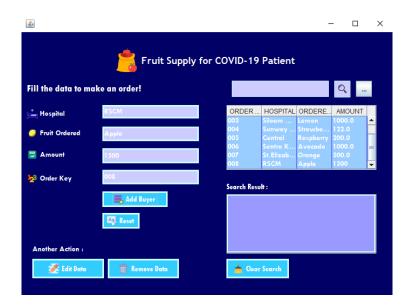
Fruit supply GUI is a system that would help fruit sellers to data their fruit selling and record their buyers. The buyer could also make a fruit order by filling the order data. With this system hopefully, it would help every fruit seller to make their job easier. Mainly in nowadays situation, the world is now facing COVID -19 pandemic. Million of people are now in the hospital and hoping that they will get well sooner. One of the factors to help the patients to fight this virus is a good metabolism that requires them to eat healthy Food, which one of them is fruit.

Every hospital that wants to make an order must fill the order data in GUI and specify their hospital name, the fruit that they would like to order, the amount, and lastly the order key. The order key is later would be the key to help the user if they want to edit or remove their order. There is also a search bar that can be used to search the data by typing the order key. Then displaying the searched data if the key that user typed matches with one of the data stored. Otherwise, it will show the message "Not Found".

<b>_</b>				-	- 0	×
	rruit Supply f	or COVID-19	Patient			
Fill the data to mo	ake an order!				0,	
📩 Hospitαl 🥥 Fruit Ordered		ORDER 001 002 003	HOSPITAL HSP KL Medi Siloam	Ραραγα	. AMOUNT 1000.0 1000.0 1000.0	
🖳 Amount		003 004 005 006		Strawbe Raspberry		
🧏 Order Key	🔜 Add Buyer	Search Resu	lt:			
	Reset					
Another Action :			_			
🚀 Edit Data	Remove Data	📥 Clear	Search			

#### **GUI Appearance**

#### Adding data



<u>4</u>			- 🗆 X
	Fruit Supply	for COVID-19 Patient	
Fill the data to ma	ke an order!		Q
📩 Hospital 🥥 Fruit Ordered	RSCM Apple Message	ORDER HOSPITAL ORDI 002 KL Medi Mang 003 Silogm Lemo	o 1000.0 🔺
😅 Amount	1500	Successfully Saved!	perry 200.0 ado 1000.0 je 500.0 ▼
🧏 Order Key	008	OK	
Another Action :	Reset		
🚀 Edit Data	n Remove Data	dear Search	

#### Edit data

<u></u>				- 🗆 X
		- 0	×	
Fill the data to make		差 Edit Data		Q
📩 Hospital 🧿 Fruit Ordered	Order Key	001		RE         AMOUNT           1000.0         ▲           e         122.0           rry         200.0
😅 Amount 😼 Order Key	Hospital Fruit Ordered	nsr Papaya		lo 1000.0 = 500.0 1500 -
	Amount	1000.0		
Another Action :	💼 Remove Data	dear Search		

#### **Remove Data**

<u>ي</u>					_		$\times$
	🤹 E						
Fill the data to ma					O,		
⊨–⊤ Hospitαl		Remove Data		DERE ແyແ	. AMOU 1000.0	)	
🥥 Fruit Ordered	Order Key	001		igo ion	1000.0		
🗒 Amount	Hospital	HSP	I	wbe pberry	122.0 200.0 1000.0		
🧏 Order Key	Fruit Ordered	Ραραγα	l	eado	1000.0	· •	
	Amount	1000.0	I				1
		📺 Remove Data					
Another Action :							
n Edit Data	m Remove Data	📩 Clear Sear	ch				

#### **Searching Data**

<u></u>		- 0	×
	Fruit Supply fo	r COVID-19 Patient	
Fill the data to ma	ke an order!	004 🔍	
ing Hospital		ORDER         HOSPITAL         ORDERE         AMOUNT           001         HSP         Papaya         1000.0         ▲           002         KL Medi         Mango         1000.0         ▲           003         Siloam         Lemon         1000.0         ■           004         Sunway         Strawbe         122.0         ■           005         Central         Raspberry         200.0         ■           006         Sentra K         Avocado         1000.0         ▼	
₩ Order Key	Add Buyer	Search Result : Order Key 004 Found! Hospital Name : Sunway Hospital Fruit Ordered : Strawberry Amount of Fruit Ordered :	
Another Action :	Remove Data	Clear Search	

#### **3.3 FLOWER**

Plant as health treatment

Due to COVID-19, there are big changes on human daily lifestyle. This plant GUI will analysis 3 things of plants which are plant's name, health benefits , and common uses.

Plant as health treatment GUI is a system which enable us to record, display and edit the information of plants which can be use as medicine or can be applied to our body. This GUI will give us information about the benefits of plants and how should we applied it .

#### Add

<u>\$</u>			_		×
	Plants as H	ealth Treatment			
Plant's Name :					
Health Benifits : Common Uses :	Brew leaves for tea	First, key in th			
ADD	DELETE	name of plant here.		SEARC	H
Title 1	Title 2	11118-3	ritte 4	4	
Catnip Garlic	Calms restlessness Prevent heart diseases	Brew leaves for tea Consume raw			
Lavender Lemon Balm Peppermint	Aids sleep Treats cold sores Soothes muscle pain	Brew leaves for tea Apply essential oil Brew leaves for tea			-
RESET	·       •	· · · · · ·		EX	IT

<u></u>		_		$\times$
	Plants as He	alth Treatment		
Plant's Name :				
Health Benifits :				
Common Uses :	Brew leaves for tea			
ADD	DELETE	Second, key in	ARCI	I
Title 1	Title 2	the benefits of		
		plant at here.		
Catnip	Calms restlessness			_ =
Garlic	Prevent heart diseases	Consume raw		-
Lavender	Aids sleep Treats cold sores	Brew leaves for tea		-
Lemon Balm		Apply essential oil		
Peppermint	Soothes muscle pain	Brew leaves for tea		•
RESET			EXI	Г

		_	
	Plants as He	alth Treatment	
Plant's Name :			
Health Benifits :			
Common Uses :	Brew leaves for tea	•	
ADD	DELETE	EDIT	EARCH
Title 1	Title 2	Title 3 Title 4	
		Third, choose	<b>^</b>
Catnip Garlic	Calms restlessness Prevent heart diseases	the common	=
Lavender	Aids sleep	uses of the plant	
Lemon Balm Peppermint	Treats cold sores Soothes muscle pain	uses of theplant.	•
RESET			EXIT

<u>≰</u> >			- 🗆 ×
	Plants as Healt	h Treatment	
Plant's Name :			
Health Benifits :			
Common Uses :	Brew leaves for tea	]	
ADD	DELETE	EDIT	SEARCH
Title 1	Title 2	Title 3	Title 4
Catnip Garlic Lavender Lemon Balm Peppermint RESET	Last, click A	DD. tea tea oil tea	EXIT

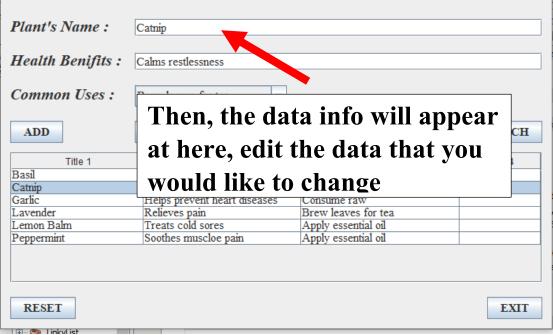
# Delete

Plant's Name	First, click on	the <sup>nt</sup>			
rtant's tvame	<sup>e</sup> data you would like				
Health Benifi	to remove.				
Common Uses	Brew leaves for tea				
ADD	DELETE	EDIT	SEARCH		
Title 1	Title 2	Title	Title 4		
Basil	Boost immunity	Brew leaves for tea			
Catnip	Calms restlessness	Brew leaves for tea			
Garlic	Helps prevent heart diseases	Consume raw			
Lavender	Relieves pain	Brew leaves for tea			
Lemon Balm	Treats cold sores	Apply essential oil			
Peppermint	Soothes muscloe pain	Apply essential oil			

<u></u>		[			×
	Plants	Then,	click t	he delet	e
Plant's Name :		button	•		
Health Benifits :					
Common Uses :	Brew leaves f	tea 🔻			
ADD	DELETE	]	EDIT		SEARCH
Title 1		Title 2	-	Fitle 3	Title 4
Basil	Boost immun	ity	Brew leaves for	or tea	
Catnip	Calms restles		Brew leaves for	or tea	
Garlic	Helps preven	it heart diseases	Consume raw		
Lavender	Relieves pain		Brew leaves for		
Lemon Balm	Treats cold s		Apply essentia	loil	
Peppermint	Soothes muse	cloe pain	Apply essentia	loil	
RESET					EXIT

Edit

	Plants as <b>H</b>	lealth Treatment		
Plant's Name :	Catnip	First, click on th		
Health Benifits :	Calms restlessness	data that you wo like to edit	ould	
Common Uses :	Brew leaves for tea			
ADD	DELETE	EDIT	5	SEARCH
Title 1	Title 2	T <sup>th</sup> ~		Title 4
Basil	Boost immunity	Brew leaves for the		
Catnip	Calms restlessness	Brew leaves for tea		
Farlic	Helps prevent heart d			
Javender	Relieves pain	Brew leaves for tea		
.emon Balm	Treats cold sores	Apply essential oil		
Peppermint	Soothes muscloe pain	Apply essential oil		
RESET				EXIT
2			_	



<b>S</b>			_		×	
	Plants as Heal	th Treatment				
Plant's Name :	Catnip					
Health Benifits :	Calms restlessness					
Common Uses :	Brew leaves for tea	-				
ADD	DELETE	EDIT		SEARC	н	
Title 1	Title 2	Title 3		Title 4		
Basil	Boost immunity	Brew leaves for tea				
Catnip	Calms restlessness	Brew leaves for tea				
Garlic	TT 1 , 1 , 1'	Consume raw				
Lavender Click	EDIT. Info	Brew leaves for tea			_	
		Apply essential oil Apply essential oil			_	
Peppermi	aundated	Apply essential of			_	
	e updated.					
		1				
RESET				EX	T	

## Search

	Plants as Healtl	n Treatment		
Plant's Name :	Catnip			
Health Benifits :	Calms restlessness			
Common Uses :	Brew leaves for tea			
ADD	Click SEARC		SEARC	H
Title 1	CIICK SEARC	The S	Title 4	
		Drew leaves for tea		
Basil	DOOST IIIIIIUIIIIY			
Basil Catnip	Calms restlessness	Brew leaves for tea		
Basil Catnip Garlic	Calms restlessness Helps prevent heart diseases	Brew leaves for tea Consume raw		
Basil Catnip Garlic Lavender	Calms restlessness Helps prevent heart diseases Relieves pain	Brew leaves for tea Consume raw Brew leaves for tea		
Basil Catnip Garlic Lavender Lemon Balm Peppermint	Calms restlessness Helps prevent heart diseases	Brew leaves for tea Consume raw		

<u>چ</u>	- D ×
	Plants as Health Treatment
Plant's Name :	Catnip
Health Benifits :	Calms restlessness
Common Uses :	Brew-leaves for tea
ADD	DE Search Flower Name : SEARCH
Title 1 Basil Cathip Garlic	Boc OK Cancel a Title 4 Cal Helps prevent heart diseases Consume raw
Lavender Lemon Balm Peppermint	Key in the name of
	plant that you want
RESET	to know the info
<u></u>	× PI
	Plants as Health Treatment
Plant's Name :	Catnip
Health Benifits :	Calms restlessness cs

	Plants as H	ealth Treatment	
Plant's Name :	Catnip		
Health Benifits :	Calms restlessness		
Common Uses :	Brew leaves for tea	Search flower	×
ADD	DELETE	Found!!!	SEARCH
Title 1 Basil	Title 2 Boost immunity	Brew leaves for tea	Title 4
Catnip	Calms restlessness	Brew leaves for tea	
Peppermint	e plant yo is in the da	u are looking	
	is in the ua	lavast,	
RESET FOU	U <b>ND will a</b>	ppeared.	EXIT

<u>چ</u>			- 0	× Word		•		Joey Chin	⊞ – □ ×
	Plants as Health	Treatment		Q Tell	me what you wa	ant to do			Share ♀
		Treatment		ark		Header * Footer *		π Equation + Ω Symbol +	62 * OK/s
Plant's Nan	Garlic			eference	Comment	Page Number -	Text Box + A - T	Number	62x + 0K/s
Health Ben	ts : Helps prevent heart diseases			cs	Comments	Header & Footer	Text	Symbols	^
Common U	s : Brew leaves for tea								
		EDIT	SEARC						
ADD				H					
Title 1 Basil	Title 2 Boost immunity	Title 3 ew leaves for tea	Title 4						
Catnip Garlic Lavender	Calms restlessness Helps prevent heart diseases Relieves pain	Column raw Brew ves for tea			o o	wood 🛄 🖭 – or /			
Lemon Balm Peppermint	Treats cold sores Soothes muscloe pain	Apply contial oil Apply essential oil		v tetree of	Header *	A bar			
				Comment P	PageNumber - Box - Ent	A syntax     Expension	~		
	— Info	o will							
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Page 8 of 8 83 words	English (United States)								+ 100%
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	<u>م</u>								$\times$
		<b>Plants</b> a	s Hea	alth 7	<b>Frea</b> t	tment			
		1 101105 0							
	Plant's Name :	Garlic							
	I tunt 5 I tunte .	Gallic							
	Health Benifits :	Helps prevent he	art disease	25					
	mount Dengus.	ricips prevent ne	art uscast						
	Common Uses :	Brew leaves for	ter Search E	lower			×		
	Common Oscs .	Diew leaves 101	tor search P	lower			^		
	ADD	DELETE		Not Foun	d!!!			CE ADO	T
	ADD	DELETE						SEARC	
	Title 1		Fitle		ОК			Title 4	
	Basil	Boost immunit	y						
	Catnip	Calms restless	ness	В	rew leav	es for tea			
	Garlic Laven If the	nlant t	hat -		ara	امما	ina		
	Lemor II UIIC	plant t	uai	yuu	are	IUUK	mg		
	Peppe for in	• • • • • •	had	ata	haa	•			
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	messa	ge abov	ve w	III D	e st	iown	•		
	RE							EX	T

#### **3.4 BOOK**

Due to COVID-19, there are big changes of book sales in the book market. This book sales report GUI will analysis 3 categories of books which are medical book, school book, and general book. There will be changes in each categories of books and this GUI will show the condition of book sales in the COVID-19 period.

Book sales statistic report GUI is a system which enable us to record and compare the amount of book sold in a period. With this GUI, we may know what book do we have and the category of the book, as well as sales quantity of the book in that particular period whether increase or drop. This GUI also give us reasons about the increasing or decreasing of book sales of the period. So that we can do some adjustment on book sales in the book market

#### **GUI Display**

***			- 🗆 X					
Sales Repor	Sales Report during MCO Covid-19							
Book Title :								
Category : Medical Book								
Quantity :								
Reason :								
ADD DELETE	EDIT	н						
Book Title	Book Category	Quantity	Reason					
English Composition Skills	School Book	decrease	Students study through online learning					
English Model Essays	School Book	decrease	Students study through online learning					
Achiever ! Model Test Paper	School Book	decrease	Students study through online learning					
Medical Science	Medical Book	increase little	medical personnel do not have time to read					
Principles of Surgery	Medical Book	increase little	medical personnel do not have time to read					
Neural Science	Medical Book	increase little	medical personnel do not have time to read 🛛 🥃					
RESET	12 · · ·		EXIT					

#### Add

<b>4</b> 0			- 🗆 X					
Sales Report during MCO Covid-19								
Book Title : Harry Potter								
Category : General Book 💌								
Quantity : increase a lot								
<b>Reason</b> : people stay at home	, have lots of leisure time							
ADD DELETE	EDIT							
Book Title	Book Category	Quantity	Reason					
Neural Science	Medical Book	increase little	medical personnel do not have time to read					
Joy of Cooking	General Book	increase a lot	people stay at home, have lots of leisure time					
Charlie's factory	General Book	increase a lot	people stay at home, have lots of leisure time					
Alice's Adventure	General Book	increase a lot	people stay at home, have lots of leisure time					
The Lion	General Book	increase a lot	people stay at home, have lots of leisure time					
The Secret Garden	General Book	increase a lot	people stay at home, have lots of leisure time					
RESET			EXIT					

Key in the information of book you want to add.

			– – ×
Sales Rep	oort during MCO Cov	id-19	
Book Title :			
Category : Medical Book	•		
Quantity :			
Reason :			
ADD DELETE	EDIT	RCH	
Book Title	Book Category	Quantity	Reason
Joy of Cooking	General Book	increase a lot	people stay at home, have lots of leisure time
Charlie's factory	General Book	increase a lot	people stay at home, have lots of leisure time
Alice's Adventure	General Book	increase a lot	people stay at home, have lots of leisure time
The Lion	General Book	increase a lot	people stay at home, have lots of leisure time
The Secret Garden	General Book	increase a lot	people stay at home, have lots of leisure time
Harry Potter	General Book	increase a lot	people stay at home, have lots of leisure time
RESET			EXIT

After that, press "ADD" button. Information of book "Harry Potter" will be added into the table.

#### Delete

(f*			- 🗆 X
Sales Repor	t during MCO Covid	1-19	
Book Title :			
Category : Medical Book			
Quantity :			
Reason :			
ADD DELETE	EDIT	I	
Book Title	Book Category	Quantity	Reason
English Composition Skills	School Book	decrease	Students study through online learning
English Model Essays	School Book	decrease	Students study through online learning
Achiever ! Model Test Paper	School Book	decrease	Students study through online learning
Medical Science	Medical Book	increase little	medical personnel do not have time to read
Principles of Surgery	Medical Book	increase little	medical personnel do not have time to read
Neural Science	Medical Book	increase little	medical personnel do not have time to read
RESET			EXIT

Click at the book you want to delete in the table, after that click "DELETE" button.

٠			- 🗆 X
Sales Repor	t during MCO Covid	-19	
Book Title :			
Category : Medical Book 🔻			
Quantity :			
Reason :     ADD     DELETE	EDIT Delete		
Book Title	Book Category	suantity	Reason
English Composition Skills	School Book	decrease	Students study through online learning
English Model Essays	School Book	decrease	Students study through online learning
Achiever ! Model Test Paper	School Book	decrease	Students study through online learning
Medical Science	Medical Book	increase little	medical personnel do not have time to read
Principles of Surgery	Medical Book	increase little	medical personnel do not have time to read
Neural Science	Medical Book	increase little	medical personnel do not have time to read 🚽
RESET			EXIT

Click "Yes" if you want to delete and the book will be deleted. While press "No" if you don't want to delete book.

#### Edit

<b>\$</b> 3			- 🗆 X
Sales Repor	t during MCO Covid	-19	
Book Title :			
Category : Medical Book -			
Quantity :			
Reason :			
ADD DELETE	EDIT	T	
Book Title	Book Category	Quantity	Reason
Joy of Cooking	General Book	increase a lot	people stay at home, have lots of leisure time
Charlie's factory	General Book	increase a lot	people stay at home, have lots of leisure time
Alice's Adventure	General Book	increase a lot	people stay at home, have lots of leisure time
The Lion	General Book	increase a lot	people stay at home, have lots of leisure time
The Secret Garden	General Book	increase a lot	people stay at home, have lots of leisure time
Harry Potter	General Book	increase a lot	people stay at home, have lots of leisure time
RESET			EXIT

Book Title :			
Category : Medical Book			
Quantity :			
Reason :			
ADD DELETE	EDIT		
ADD DELETE Book Title	EDIT SEARCH Book Category	Quantity	Reason
Book Title	Book Category		Reason Students study through online learning
Book Title nglish Model Essays chiever ! Model Test Paper	Book Category School Book School Book	Quantity decrease decrease	
Book Title nglish Model Essays chiever ! Model Test Paper ledical Science	Book Category School Book School Book Medical Book	Quantity decrease decrease increase little	Students study through online learning Students study through online learning medical personnel do not have time to read
Book Title inglish Model Essays chiever I Model Test Paper ledical Science rinciples of Surgery	Book Category School Book School Book Medical Book Medical Book	Quantity decrease decrease increase little increase little	Students study through online learning Students study through online learning medical personnel do not have time to read medical personnel do not have time to read
	Book Category School Book School Book Medical Book Medical Book	Quantity decrease decrease increase little	Students study through online learning Students study through online learning medical personnel do not have time to read

Click on the area you want to edit and click "Edit" button, then you can edit your information.

#### Search

<b>\$</b>			- 🗆 X
Sales Report	rt during MCO Cov	id-19	
Book Title :			
Category : Medical Book 🗸			
Quantity :			
ADD   DELETE	EDIT Search Boo	k Name ·	
	Medical Sci		Burre
Book Title Achiever ! Model Test Paper Medical Science	Book School Book Medical Book	Cancel	Reason Students study through online learning medical personnel do not have time to read
Principles of Surgery Neural Science	Medical Book Medical Book	increase little increase little	medical personnel do not have time to read medical personnel do not have time to read
Joy of Cooking Charlie's factory	General Book General Book	increase a lot increase a lot	people stay at home, have lots of leisure time people stay at home, have lots of leisure time
RESET			EXIT

First, type the book name in the search text field then press "OK"

\$			- 🗆 X
Sales Report	rt during MCO Covi	id-19	
Book Title :			
Category : Medical Book -			
Quantity :			
Reason :	Search book	×	
ADD DELETE	EDIT Found!!!	,	
Book Title	Во	luantity	Reason
Achiever ! Model Test Paper	School Book	uecrease	Students study through online learning
Medical Science	Medical Book	increase little	medical personnel do not have time to read
Principles of Surgery	Medical Book	increase little	medical personnel do not have time to read 📑
Neural Science	Medical Book	increase little	medical personnel do not have time to read
Joy of Cooking	General Book	increase a lot	people stay at home, have lots of leisure time
Charlie's factory	General Book	increase a lot	people stay at home, have lots of leisure time
RESET			EXIT

And if your book title is found, it will pop out a message

	- 🗆 ×
Sales Report during MCO Covid-19	
Book Title : Medical Science	
Category : Medical Book -	
Quantity: increase little	
Reason :     medical personnel do not have time to read       ADD     DELETE     EDIT       SEARCH	
Book Title Book Category Quantity	Reason
	dents study through online learning
	dical personnel do not have time to read
Principles of Surgery Medical Book increase little me	dical personnel do not have time to read 📒
Neural Science Medical Book increase little me	dical personnel do not have time to read
	ple stay at home, have lots of leisure time
Charlie's factory General Book increase a lot pe	ople stay at home, have lots of leisure time 🖵
RESET	EXIT

And the book information will appear.

<b>\$</b> 2									$\times$
Sa	les Repoi	rt during	MCO Covi	d-19					
Book Title : Med	dical Science								
Category : Me	edical Book 💌								
Quantity : incr	rease little								
Reason : mee	dical personnel d	do not have tim	Search Book	×					
ADD D	DELETE	EDIT	i Not Found!!!	1					
Book 1	litle .	Bo	OK		Juantity	Re	eason		
Achiever ! Model Test Pa	per	School Book		decrease	1	Students study throug			-
Medical Science		Medical Book		increase little		medical personnel do			
Principles of Surgery		Medical Book		increase little		medical personnel do			
Neural Science		Medical Book		increase little		medical personnel do			_
Joy of Cooking		General Book		increase a lot		people stay at home, people stay at home,			
Charlie's factory		General Book		increase a lot		people stay at nome, i	have lots of t	elsure ume	• -
RESET								EXI	Τ

While a pop-up message "Not Found" will appear if the book you search do not listed in the table list.X

#### **3.5 FOOD**

The COVID-19 health crisis has brought on an economic crisis, and is rapidly exacerbating an ongoing food security and nutrition crisis. In a matter of weeks, COVID-19 has laid bare the underlying risks, fragilities, and inequities in global food systems, and pushed them close to breaking point.

COVID-19 affect Food GUI is a system which enable us to record and delete the information of the COVID-19 that affect the Food. With this GUI, it will give us information of the COVID-19 that affect the Food. Then, the society know more of the effect. They will be more cautious to the COVID-19 and try hard not to spread the infection.

# Food GUI Display

🕹 – 🗆 X	<
COVID-19 affect Food	
-Harvests are going to waste because laborers are banned from working, can't travel to farms or don't want to work for fear -Farmers have been forced to dump milk because demand from restaurants and coffee shops plummeted under lockdown -Shortages of animal feed, fertilizers, and pesticides have increased both the costs of farming and the risk of bad harvests. -COVID-19 is amplifying the risk of a worldwide food-price spike, which would trigger crises in many developing countries.	n.
nter effect here:	Þ
ADD	

#### Add to record the data

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COVID-19 affect Food			
-Harvests are going to waste because laborers are banned from working, can't travel to farms or don' -Farmers have been forced to dump milk because demand from restaurants and coffee shops plumr -Shortages of animal feed, fertilizers, and pesticides have increased both the costs of farming and the -COVID-19 is amplifying the risk of a worldwide food-price spike, which would trigger crises in many o -Export restrictions under such conditions will reduce food supply and cause prices to spike even high	meted un e risk of b developin	der locko ad harve	down. ests.
Enter effect here: Fresh food are becoming less available.			
ADD DELETE			

Select to delete the information

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COVID-19 affect Food			
-Harvests are going to waste because laborers are banned from working, can't travel to farms or dor -Farmers have been forced to dump milk because demand from restaurants and coffee shops plum -Shortages of animal feed, fertilizers, and pesticides have increased both the costs of farming and th -COVID-19 is amplifying the risk of a worldwide food-price spike, which would trigger crises in many -Export restrictions under such conditions will reduce food supply and cause prices to spike even hig -Fresh food are becoming less available.	meted ur e risk of developir	nder locko bad harve	lown. sts.
Enter effect here:			
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# 4.0 THE CODE

https://github.com/ilham-mmr/Environment-Group-Project

# 5.0 THE SAMPLE RUN

#### The Interface of our app

Green-vid consists of two main panels. Firstly the content panel, It is used to contain each of our GUI. Secondly, the Menu Panel, the panel has several buttons to indicate our contents.

The app is a dynamic environment based integrated app. The app is dynamic, because when a button menu is clicked it will show the content itself.

The buttons are self-made. Therefore we use a panel to act as a button. The characteristics of the buttons are if the cursor hovers over the panel the color changes and so does when the button is pressed.

#### Home content



About button will display the group members



#### Wet Market Test Content

🛓 GREEN-VID	- D X
GREEN-VID	
HOME	
👾 FRUIT	Username:
BOOK	Password:
Б гоор	
🛓 GREEN-VID	- □ ×
GREEN-VID	- 🗆 ×
GREEN-VID	i COVID-19 TEST IN WET MARKETS
	COVID-19 TEST IN WET MARKETS
GREEN-VID	i COVID-19 TEST IN WET MARKETS
GREEN-VID	COVID-19 TEST IN WET MARKETS
GREEN-VID	COVID-19 TEST IN WET MARKETS
GREEN-VID C HOME WET MARKET TEST WET MARKET TEST	COVID-19 TEST IN WET MARKETS
GREEN-VID C HOME WET MARKET TEST WET MARKET TEST FRUIT FRUIT	COVID-19 TEST IN WET MARKETS
	Image: Covid-19 test in wet markets         Image: Form         Form         Image: Form         Image: Wet market name:         Location:         Tested animal:         Covid-19 result:         Image: Positive

SREEN-VID						- 0	>
GREEN-VID	ເທິຼິກີ STATISTICAL REPORT						
	ID	Wet Market Name	Location	Tested Animal	COVID-19 Res	ult Testing Date	
🟠 номе	CVD000	Chow Kit wet market	Kuala Lumpur	Bat	NEGATIVE	5/1/20	A
	CVD001	Chow Kit wet market		Bat	POSITIVE	5/4/20	
wet market test	CVD002 CVD003	Chow Kit wet market Chow Kit wet market		Bat Bat	POSITIVE NEGATIVE	5/6/20 5/6/20	
WET MARKET TEST	CVD004	Chow Kit wet market		Bat	POSITIVE	5/20/20	
	CVD006	Chow Kit wet market		Chicken	NEGATIVE	5/27/20	
👾 FRUIT	CVD007 CVD008	Chow Kit wet market Changlun wet mark		Bat Bat	POSITIVE POSITIVE	5/30/20 5/2/20	
Ť	CVD009	Changlun wet mark		Bat	POSITIVE	5/17/20	
2	CVD0010	Changlun wet mark	Changlun	Bat	POSITIVE	5/17/20	
FLOWER	CVD0010	Changlun wet mark		Bat	NEGATIVE	5/20/20	
	CVD0011 CVD0011	Changlun wet mark Changlun wet mark		Bat Bat	NEGATIVE NEGATIVE	5/22/20 5/24/20	
🔲 воок	CVD0011	Changlun wet mark		Bat	NEGATIVE	5/24/20	
	CVD0012	Changlun wet mark		Bat	POSITIVE	5/12/20	ł
-	CVD0013	Taman Tun Wet M_	Selangor	Bat	POSITIVE	5/12/20	-
🖧 ғоор	Show Bar Chart :						TF
		000					
			ដណ៍ STAT	TISTICAL RE	PORT		>
			iiiii stat	ISTICAL RE	PORT		>
GREEN-VID		S COVID-19 on A			PORT	×	>
GREEN-VID	ID		nimal in Wet Mark		- 0	X ng Date	
GREEN-VID		COVID-	nimal in Wet Mark	et	- 0	× ng Date	
GREEN-VID GREEN-VID GREEN-VID	ID CVD000 CVD001 CVD002		nimal in Wet Mark	et	- 0	× ng Date 20 20 20 20	
GREEN-VID	ID CVD000 CVD001 CVD002 CVD003	COVID-	nimal in Wet Mark	et	- 0	x ets 20 20 20 20 20 20 20 20	
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	ID CVD000 CVD001 CVD002 CVD003 CVD004 CVD006 CVD007	4.0 3.5	nimal in Wet Mark	et	- 0	x ng Date 20 20 20 20 20 20 20 20 20 20 20 20 20	
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GREEN-VID GREEN-VID C HOME C HOME C FRUIT C FLOWER E BOOK	ID CVD000 CVD001 CVD002 CVD003 CVD004 CVD006 CVD007 CVD006 CVD007 CVD0010 CVD0010 CVD0010 CVD0011 CVD0011 CVD0011 CVD0011 CVD0012 CVD0013	COVID- 4.0 3.5 3.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	unimal in Wet Mark <b>19 Test on</b> In Tun W	et Animals in Chow Kit w	Uet Marke	x ng Date 20 20 20 20 20 20 20 20 20 20	
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# Fruit Supply Content

🛃 GREEN-VID							—		×
GREEN-VID		📩 Fruit Supp	oly for CO	VID-19	Patient				
П номе	Fill the data to make an	order!		Search by	order key		O,		
	📩 Hospital			ORDER	HOSPIT	ORDER	AMOUNT	-	
wet market test	🥥 Fruit Ordered				HSP KL Me Siloam		1000.0 1000.0 1000.0		
👾 FRUIT	😅 Amount			004 005 006	Sunwa Central Sentra	Strawb Raspbe Avocado	122.0 200.0 1000.0		
FLOWER	🧏 Order Key	Add Buyer	S	Search Resul	t:				
🗖 воок		Reset							
🖉 ғоор	Another Action :								
[] ЕХІТ	🚀 Edit Data	前 Remove Data		📥 Clear	Search				

### **Plant Content**

🛓 GREEN-VID				-	
Ŵ		Plants as He	alth Treatme	ent	
GREEN-VID	Plant's Name :				
П номе	Health Benifits :				
wet market test	Common Uses :	Brew leaves for tea	Y		
FRUIT	ADD	DELETE	EDIT		SEARCH
-	Name	Health Benef	its	Common Uses	
FLOWER					
🔲 воок					
👌 гоор					
	RESET				

#### **Book Content**

🕌 GREEN-VID				- 0	×
Ŵ		Sales Report du	ring MCO C	ovid-19	
GREEN-VID	Book Title :				
П номе	Category :	Medical Book			
wet market test	Quantity :				
👹 FRUIT	Reason :				
FLOWER	ADD	DELETE EDIT	SEAR	СН	
воок	Book Title	Book Category	Quantity	Reason	
В гоор					
📑 ЕХІТ	RESET				

#### **Food Content**

🕌 GREEN-VID		—	×
Ŵ	COVID-19 affect Food		
GREEN-VID			
П номе			
👾 FRUIT			
FLOWER			
🔲 воок	Enter effect here:		
👌 гоор			
	ADD		

# **6.0 REFERENCES**

Coronavirus (COVID-19) origin: Cause and how it spreads. (2020). Retrieved 15 July 2020, from https://www.medicalnewstoday.com/articles/coronavirus-causes#how-dangerous-is-it