

**CvSU Vision**

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**CAVITE STATE UNIVERSITY****Imus Campus**

*Cavite Civic Center Palico IV, Imus, Cavite*  
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**CvSU Mission**

Cavite State University shall provide excellent, equitable and relevant educational opportunities in the arts, sciences and technology through quality instruction and responsive research and development activities.

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**DEPARTMENT OF COMPUTER STUDIES****DCIT 23 | Computer Programming 2****Final Project**

**2nd Semester, A.Y. 2022-2023**

<b>RUBRICS FOR BILLING SYSTEM</b>		
<b>CRITERIA</b>	<b>DESCRIPTION</b>	<b>PERCENTAGE</b>
<b>TECHNICALITY</b>	The GUI POS System analyze the breakdown order properly from large amount to smaller amount.	<b>25%</b>
<b>CREATIVITY</b>	The GUI POS System must meet the standard look of the billing system type.	<b>25%</b>
<b>EXPLANATION AND DESCRIPTION</b>	GUI POS System must includes the information how to use it and clear functions.	<b>10%</b>
<b>READABILITY</b>	The GUI POS System is clear and easy to understood.	<b>15%</b>
<b>SEQUENCE</b>	The GUI POS System is in correct order and will lead to proper sequence of code.	<b>25%</b>
<b>TIME MANAGEMENT</b>	The project assigned must submitted on time.	<b>5%</b>
<b>TOTAL :</b>		<b>100%</b>

Prepared by:

**Angelica Joyce G. Tomas**  
 Instructor 1

Noted By:

**Rosalina R. Lacuesta**  
 IT Program Head

Approved By:

**Jose Lerio V. Batula, MIT**  
 Department Chairperson

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## DEPARTMENT OF COMPUTER STUDIES

### DCIT 23 | Computer Programming 2 Final Project 2nd Semester, A.Y. 2022-2023

Group # :

Leader : Tecson, Marco Antonio B.

Members : Abreu, Xyrill John F.

Balatayo, Brielle Edrian A.

Basay, Jeannen K.

Cawaling, Samantha

Gonzales, Michael Rhoi L.

Fajardo, Julia Ann

Lopez, Dhenize Krista Faith C.

Course: BSIT

Section : 1D

Title : Dreamy D' Lite

Description :

Dreamy D' Lite is a hypothetical independent ice cream shop and POS system made by our group. The concept was formed as we came up with a galaxy-themed ice cream shop with its flavors and size names are astrologically termed. This Point of Sales System aims to expand the use Python to the extent with the use of Tkinter.

Though it is impractical to utilize Tkinter for GUI making when there are tons of tools that are widely and generally used for GUI making that are more advanced, our group still offered to utilize its functionality to some extent. It proves that in the span of only one month, our group managed to provide a working POS billing system viable enough to be used in actual sales.

Features :

#### **Login Window:**

- **Messagebox Alerts** - it notifies the user about the wrong input of username and password, and if an entry is blank.
- **Show and Hide Password** - this feature allows the user to check his/her password input since it is automatically hidden as you run the program.

#### **Sign Up Window:**

- **Confirm Password** - it ensures that the password input of the user matches one another for security purposes.
- **Messagebox Alerts** - it notifies the user about the wrong input of password and confirm password, and if an entry is blank.

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- **Show and Hide Password** - this feature allows the user to check his/her password input since it is automatically hidden as you run the program.
- **Submit Button** - saves the username and password input of the user. The next time that the user logged in, he/she may input his/her signed in account.

#### Main/Transaction Window:

- **Back Button** - it allows the user to undo his/her order.
- **Calculator Frame** - inside this frame, it allows the user to enter numbers and period to the Transaction Entry.
- **Change Label** - it automatically displays the change once the user clicks Enter in the calculator widget. This entry cannot be modified as it was disabled for input.
- **Character Input Limitation and Restriction** - this feature prevents user from entering unnecessary characters such as special characters and numbers in Customer Name Entry, and it only allows 30 characters input. The Quantity Entry restricts letters and special characters as it only allows numbers and 6 character input. Same as Payment Entry as it only allows number and dot/period input, and is limited to 9 digits only.
- **Color Randomizer** - this is to identify that the randomizer is already choosing an item randomly.
- **Disabling Widgets** - when the transaction is done, widgets such as radiobuttons, dropdown lists, buttons such as undo and submit will automatically be disabled.
- **Disabling Entries (Quantity and Payment Entries)** - it prevents the user from modifying entries.
- **Illustration** - each flavors, addons, and random items to provide visual presentation so that the user can easily identify the appearance of the item.
- **Item Randomizer** - in every total purchase of more than Php 300, the user will receive a free random item from any of the following: Plushie, Keychain, T-Shirt, Jacket, and Onion. The chosen item will light up into green.
- **Labels** - each labels are used in different ways aside from texts such as displaying the picture of the appearance in Item Randomizer Prize Display located beside the randomizer.
- **List Box** - this is the table presented on the transaction frame as it is used to display the chosen items. The selected product will automatically appear once the radio button of the items are clicked.
- **Messagebox Alerts** - messagebox alerts will appear when the following is triggered:

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1. Blank Customer Name Entry.
  2. No Chosen Flavors.
  3. No Chosen Addons.
  4. No Chosen Size.
  5. No Quantity or 0 quantity input.
  6. Payment is less than the total purchase or 0 input.
  7. When Submit Button is clicked.
  8. When Back Button is clicked.
  9. When Void Button is clicked.
- **Option Menu** - this widget provides a drop down menu for the desired size of the user's chosen flavor.
  - **Picture Pillow** - used at the Dreamy D' Lite logo button located at the upper left of the screen, and for the pictures over the other widgets such as Labels (Item Randomizer). It is used to layer the picture on top of the widget.
  - **Print Button** - it prints and shows the PDF file of the receipt.
  - **Radio Buttons** - it allows user to select only one option in Flavors and Add ons.
  - **Receipt Button** - when the transaction is done, the receipt button will be clickable as it will display the receipt frame containing the user's order/s.
  - **Reward Label** - the reward will automatically display in text once the randomizer finally chose an item.
  - **Submit Button** - as you click this button, a messagebox will show to confirm your order. If yes then the system will ask if the user wants another set of order and if the user declines, the items and the total will automatically show. If yes, it will loop for another set of order. This will continue unless the user declines or chooses no.
  - **Transaction Button** - it displays the transaction frame with the list of purchased items.
  - **Total Label** - it automatically displays the total amount once the user clicks Submit and confirms transaction in the messagebox.
  - **Void Button** - it clears and resets the main POS system as it will once again enable the deactivated widgets.

### Receipt Window:

- **Receipt in PDF File** - once the print button was clicked from the receipt frame, the PDF file will automatically appear and be saved in the folder where the program is.

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### DCIT 23 | Computer Programming 2 Final Project 2nd Semester, A.Y. 2022-2023

This is a screenshot of a web browser window titled "Dreamy D'lights". The background of the page is a dark space-themed image with stars, galaxies, and two red planets. In the center, there is a dark blue rectangular box containing the text "WELCOME" in large, white, serif capital letters. Below this, there are two input fields: "Username: Enter username here" and "Password:". Below the password field is a checkbox labeled "Show Password". At the bottom of the box are two buttons: "Login" and "Sign up". The browser's taskbar at the bottom shows various application icons and a system tray with a weather widget displaying "30°C Partly cloudy".This is a screenshot of a web browser window titled "Dreamy D'lights", showing the "Sign Up" page. The background is the same space-themed image as the previous screenshot. In the center, there is a dark blue rectangular box containing the text "Sign Up" in large, white, serif capital letters, followed by the subtitle "Create a temporary account" in smaller white text. Below this, there are three input fields: "Username: Enter username here", "Enter Password:", and "Confirm Password:". Below the password fields is a checkbox labeled "Show Password". At the bottom of the box are two buttons: "Back" and "Submit". The browser's taskbar at the bottom is identical to the one in the previous screenshot.

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**2nd Semester, A.Y. 2022-2023**

[illegible]



# Dreamy 'D Lite Ice Cream

Customer's Name:

Total purchase of more than ₱300  
will receive one free random item!

## Flavors

## Add-ons ₱10 each

Dwarf (S):


Quantity:

Back

Submit

Void

## REWARD



Payment:

₱

Change:

₱

Total:

₱

Reward:

0	1	2
3	4	5
6	7	8
9	.	Enter

Transaction	Receipt										
<table> <thead> <tr> <th>Flavor</th> <th>Size</th> <th>Add-On</th> <th>Price</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>Mars (Chocolate)</td> <td>Dwarf (S): ₱20</td> <td>Additional ₱10 for</td> <td>Qty: 123</td> <td>₱3690.0</td> </tr> </tbody> </table>	Flavor	Size	Add-On	Price	Quantity	Mars (Chocolate)	Dwarf (S): ₱20	Additional ₱10 for	Qty: 123	₱3690.0	
Flavor	Size	Add-On	Price	Quantity							
Mars (Chocolate)	Dwarf (S): ₱20	Additional ₱10 for	Qty: 123	₱3690.0							



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**Dreamy 'D Lite Ice Cream**

Customer's Name:

Total purchase of more than ₱300 will receive one free random item!

Flavors

MILKYWAY

MARS

DREAMY BANANA SPLIT

SOLAR SYSTEM

Add-ons ₱10 each

NIPS

CHOCOLATE CHIPS

SPRINKLE

CHERRY

Dwarf (S): ₱20

Quantity:

Back

Submit

Void

REWARD

PLUSHIE

KEYCHAIN

T-SHIRT

JACKET

ONION

Payment:

Change:

Total:

Reward:

0	1	2
3	4	5
6	7	8
9	.	Enter

Transaction

Receipt

RECEIPT

"DREAMY D' LITE"

"Taste the Dream of an Ice Cream"

Address: Mema Bahay, Brgy. Kahitanongbaranggay, Imus, Cavite

Cashier: Marco Tecson

Date: Fri, Jul 07, 2023 Time: 09:29 PM

Customer's Name: Marco

ITEM/S	QTY	ITEM PRICE
Mars (Chocolate)	123	₱3690.0
Dwarf (S): ₱20		
Nuts: ₱10		
TOTAL		₱3690.0
PAYMENT		₱5000.0
CHANGE		₱1310.0

Since your purchase is above Php 300, congratulations!  
You won a random item!  
Your free mystery random item will be:KEYCHAIN  
:Thank you for your purchase! Please come again!:

Print

Receipt\_Marco\_2023-07-07\_21-2

File | C:/Users/PC/Documents/SCHOOL/CvSU/1ST%20YEAR/2ND%20SEM/ACTIVITIES/(DCIT%2023)%20COMPUTER%20PROGRAM...

ecsonmarco's Foo... Classes Facebook ICE-CREAM-MENU-... EURUSD 1.09709 Batang West Side Region IV-A Field O... Copy

Draw Read aloud Compiled Reviewers - Google Sheets https://docs.google.com/spreadsheets/d/1prWP8F6kBJf6c

RECEIPT

"DREAMY D' LITE"

"Taste the Dream of an Ice Cream"

Address: Mema Bahay, Brgy. Kahitanongbaranggay, Imus, Cavite

Cashier: Marco Tecson

Date: Fri, Jul 07, 2023 Time: 09:29 PM

Customer's Name: Marco

ITEM/S	QTY	ITEM PRICE
Mars (Chocolate)	123	3690.0
Dwarf (S): 20		
Nuts: 10		
TOTAL		3690.0
PAYMENT		5000.0
CHANGE		1310.0

Since your purchase is above Php 300, congratulations!  
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Your free mystery random item will be:KEYCHAIN  
:Thank you for your purchase! Please come again!:

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Criterion	Description	Weight	Score			
<b>Group scoring</b>						
Efficiency and Performance	The code is very efficient, system meets or exceeds all performance requirements	40%				
Displays Output Correctly	The program displays results very clearly and intuitively, and meets all display specifications	20%				
Readability and Reusability	The code is well organized and very easy to understand, could be reused as a whole and each routine could be reused	20%				
Error Handling	The program checks for all error conditions and handles them appropriately	10%				
Uniqueness	The whole system program is unique, does not look like others.	10%				
<b>Individual scoring</b>						
Presentation and Deliberation	Discussion of the entire program/system.	100%	P1	P2	P3	P4
Question and Answer	Discuss certain portion of the program.	100%	P4	P5	P6	P7
TOTAL SCORE:						

**Rated by:****Date:**


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**Angelica Joyce G. Tomas**

Instructor 1



**Hello 1st Year,**

The end is near to come so please bear with me until the end.

Here's the Date and Time per section for Computer Programming 2 Final Project Presentation.

List of the following:

- **BSIT 1A - 8AM - 11AM (JULY 7, 2023 )**
- **BSIT 1B - 12NN - 4PM (JULY 3, 2023)**
- **BSIT 1C - 1PM - 5PM (JULY 7, 2023)**
- **BSIT 1D - 8AM - 11 AM (JULY 8, 2023)**

**GUIDLINES:**

- WEAR SMART CASUAL / FORMAL ATTAIRE.
- WEAR NAME TAG WHILE YOUR PRESENTING
- MINUS POINTS IF YOU ARE LATE. (5 POINTS DEDACTION PER MINUTE)
- DON'T JUST READ WHAT'S ON YOUR OUTPUT PRESENTATION(I CAN SEE IT TOO, SO BETTER IF YOU JUST EXPLAIN IT BECAUSE THAT'S WHAT I WANT TO HEAR.)
- THE PANELIST WILL BE THE ONE CHOOSE WHO WILL BE THE PRESENTORS AND WHO WILL ANSWER THE QUESTION REGARDING THE SYSTEM.

**DON'T FORGET THIS AFTER THE PROJECT PRESENTATION:**

1. PUT THE COPY OF YOUR SYSTEM ON A CD/FLASH DRIVE.
2. SOFTBIND THE ENTIRE CODE AND TAKE A SCREEN SHOT OF YOUR SYSTEM OUTPUT. THE COLOR OF YOUR SOFTBIND WILL BE THE ASSIGNED COLOR OF YOUR SECTION. (the format of the hard copy will send after your section/s presentation.)
3. LASTLY, YOUR COMPLETE LECTURE NOTEBOOK FOR LECTURE PROJECT.

**DEADLINE: JULY 11, 2023**