

APPENDICES



Appendix A

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PSSUQ Questionnaire

Testing Evaluation Instrument for IOT Based Restaurant Information System

Name (Optional):	Occupation (Optional):
Age:	User Type:

This questionnaire will determine how usable the IOT Based Restaurant Information System in terms of System Usefulness, Information Quality and Interface Quality.

Direction: On a scale from 1-3 with <u>Strongly Agree remarks</u>, 4 with <u>Neutral</u> remark, 5-7 with <u>Strongly Disagree</u>, and <u>N/A</u> remark, please rate the following statement according to how you feel about the system:

PSSUQ Questions	1	2	3	4	5	6	7	N/ A
1. Overall, I am satisfied with how easy it is to use this system.								
2. It was simple to use this system.								
3. I was able to complete the tasks and scenarios quickly using this system.								
4. I felt comfortable using this system.								
5. It was easy to learn to use this system.								
6. I believe I could become productive quickly using this system.								
7. The system gave error messages that clearly told me how to fix problems.								
8. Whenever I made a mistake using the system, I could recover easily and								
quickly.								1
9. The information (such as online help, on-screen messages, and other								
documentation) provided with this system was clear.								
10. It was easy to find the information I needed.								
11. The information was effective in helping me complete the tasks and								
scenarios.								
12. The organization of information on the system screens was clear.								
13. The interface of this system was pleasant.								
14. I liked using the interface of this system.								
15. This system has all the functions and capabilities I expect it to have.								
16. Overall, I am satisfied with this system.								

Legend:

Questions 1 to 16: Overall Usability

Questions 1 to 6: System Usefulness (SYSUSE)

Questions 7 to 12: Information Quality (INFOQUAL)

Questions 13 to 16: Interface Quality (INTERQUA)



Appendix B

ISO 25010 (SQuaRE) Evaluation Tool

Name ((Optional)):

Years in the IT Industry:

Please rate the following ISO 25010 (SQuaRE) components according to the system's performance. One (1) as the lowest and five (5) as the highest.

ISO 25010 (SQuaRE) Component	1	2	3	4	5
1. Functional Suitability					
2. Performance Efficiency					
3. Compatibility					
4. Usability					
5. Reliability					
6. Security					
7. Maintainability					
8. Portability					



Appendix C

Letter To Beneficiary



Carlos Hilado Memorial State University

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College of Computer Studies

April 19, 2023

MRS. MAROSE E. COJA Owner MC Seafood Restaurant Brgy. Lantad, Silay City

LIME MARY ENCHANINDO KECELJED 197: 4-21-25

Dear Ma'am,

Greetings!

We, the third year students of Carlos Hilado Memorial State University who are pursuing a degree in Bachelor of Science in Information Systems are required to conduct a study and develop a system project entitled "IOT-Based Restaurant Information System".

In partial fulfilment for our Capstone Project 1, we are writing to humbly request your time for us to conduct an interview. There will be three members from the team who are going to conduct the discussion of the initiatives of the project and gather important data for us to accomplish our study. Rest assured that the gathered data and information will be kept confidential and will only be used by the team members for the purpose of this study.

We are hoping for your kind consideration to positively respond and fulfill our request. Thank you and God bless.

Respectfully,

Joshua N. Maquimot Project Leader

Jehu Emmanuel H. Baldago Project Programmer

Juvelyn B.Coja Quality Assurance

Noted by:

Capstone Adviser

Norberto L. Mondero Tr., Php.
Capstone Professof /BSIS Chairperson

Engr. Russel M. Dela Torre, Ph. CIT Dean/CSS Auxiliary Dean

CERTIFICATION INTERNATIONAL

1 college.computerstudies@chmsc.edu.p

(034) 434 8148

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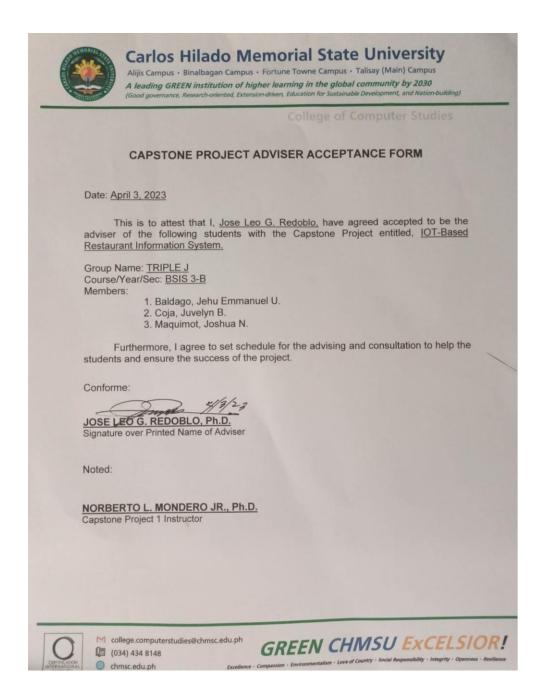
chmsc.edu.ph

Excellence - Compassion - Environmentalism - Love of Country - Social Responsibility - Integrity - Openness - Resilience



Appendix D

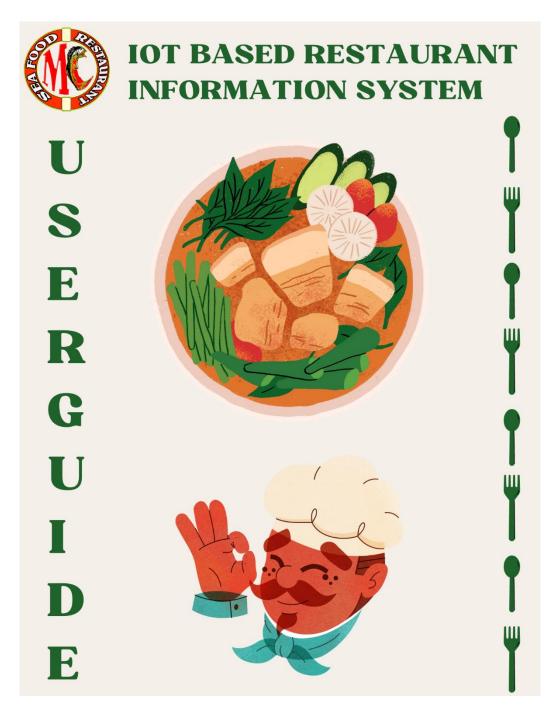
Letter For Capstone Adviser

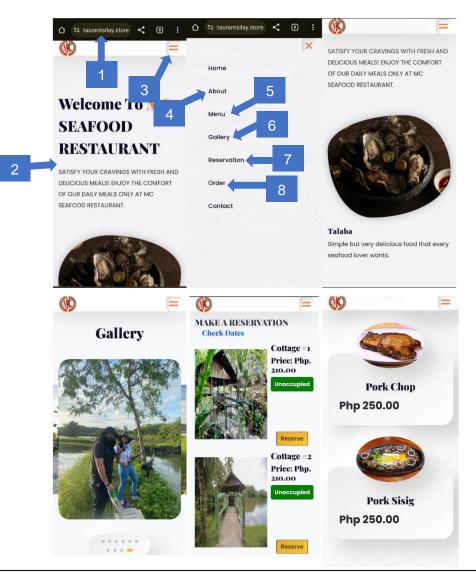




Appendix E

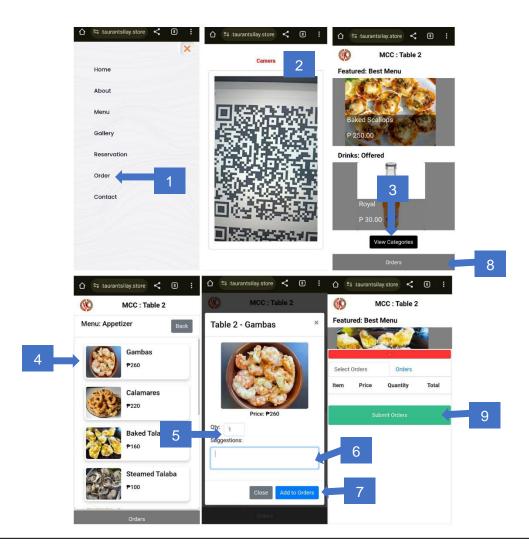
User Manual





How To Use the Website

- Step 1: Search the website link
- Step 2: Go to website
- Step 3: Click the two-line icon at the upper right side
- Step 4: Click about to see about the restaurant
- Step 5: Click menu to see the menu list of the restaurant
- Step 6: Click gallery to view the highlights in the restaurant
- Step 7: Click reservation to view the available cottage and to reserve a cottage
- Step 8: Click order to prompt in QR code scanner for online inhouse table QR ordering



How To Order Online

Step 1: Click order

Step 2: Scan QR code

Step 3: Click view category

Step 4: Click product

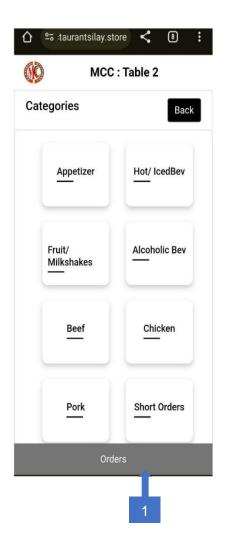
Step 5: Add quantity

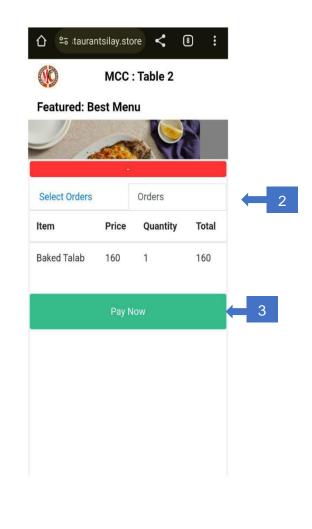
Step 6: Create suggestion(optional)

Step 7: Add to cart Step

Step 8: Click orders

Step 9: Click submit orders



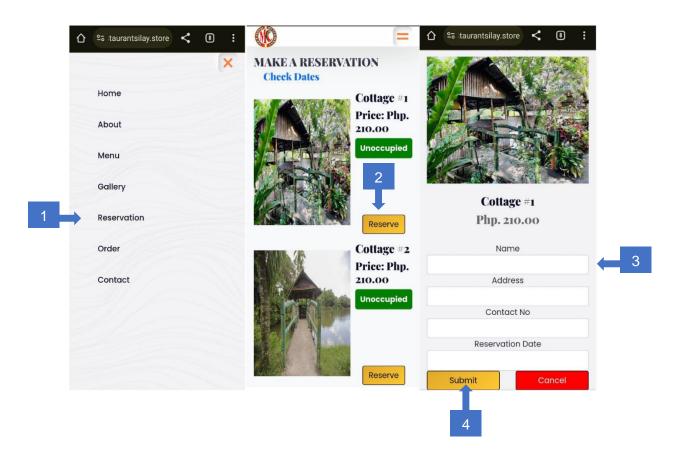


How To Pay In Mobile

Step 1: Click orders tab

Step 2: Click orders

Step 3: Pay now



How To Make Reservations

Step 1: Click reservation

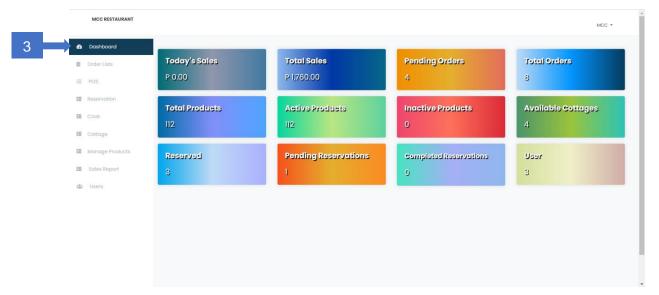
Step 2: Click reserve

Step 3: Fill all the required field

Step 4: Click Submit Step







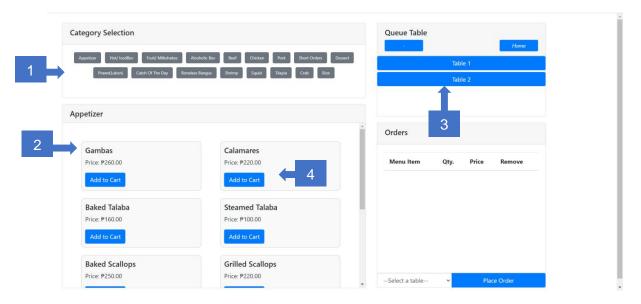
How To Access The Dashboard

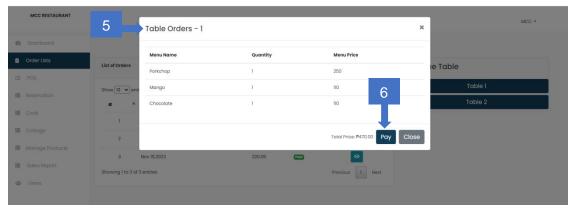
Step 1: Enter user credentials

Step 2: Click login

Step 3: Locate dashboard pages

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How To Process Order

Step 1: Select category

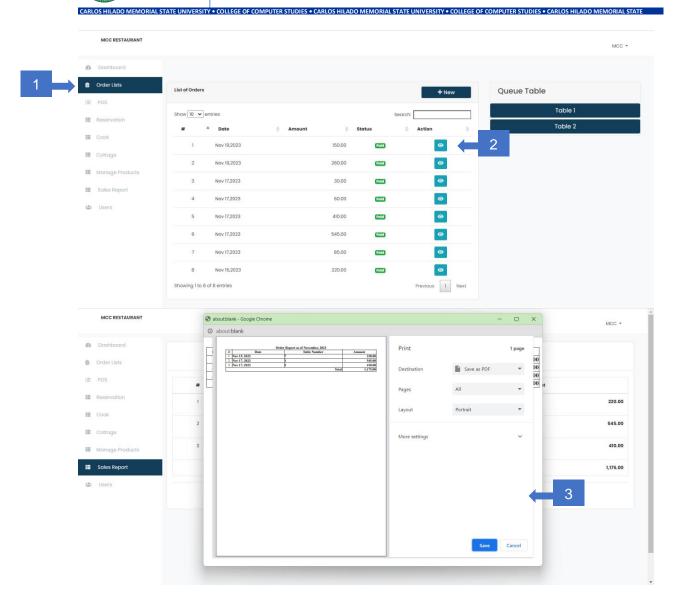
Step 2: Select product

Step 3: Select table

Step 4: Click add to cart

Step 5: Select and click in queue table

Step 6: Click pay



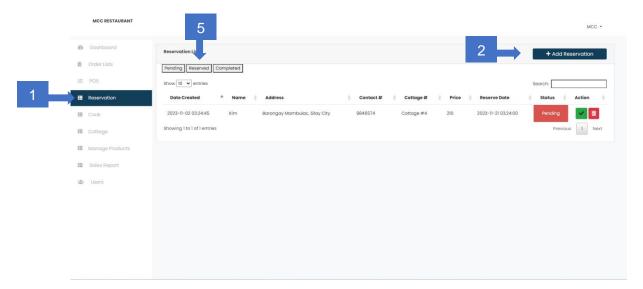
How To Generate Receipt

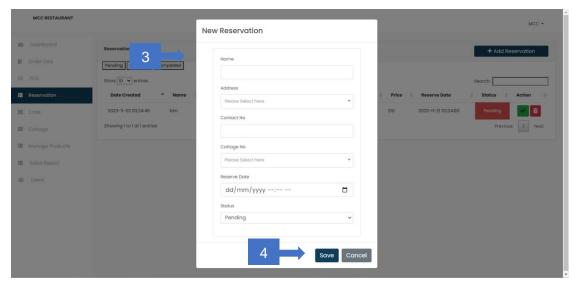
Step 1: Click order list

Step 2: Click eye icon

Step 3: Tab keys for print

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How To Process Reservation

Step 1: Click reservations

Step 2: Click add reservation

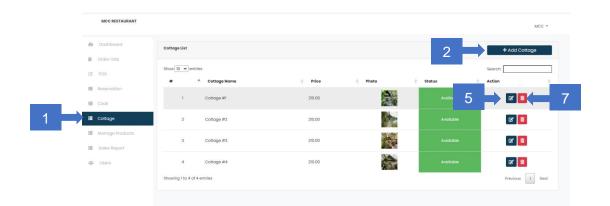
Step 3: Fill all the field

Step 4: Click save

Step 5: Click pending

Step 6: Click check icon in status to check out

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How To Add/Edit/Delete Cottage

Step 1: Click cottage

Step 2: Click add cottage

Step 3: Fill all the fields

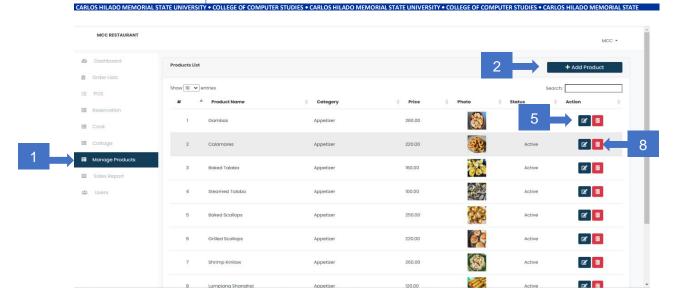
Step 4: Click save

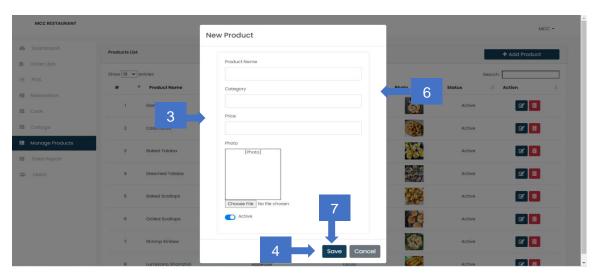
Step 5: Click edit icon

Step 6: Edit the field needs to edit

Step 7: Click save

Step 8: Click the delete icon





How To Add/Edit/Delete Products

Step 1: Click manage products

Step 2: Click add product

Step 3: Fill all the fields

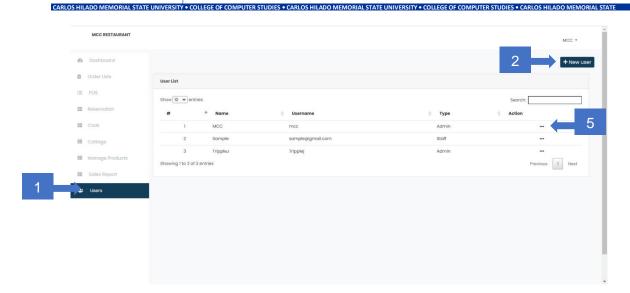
Step 4: Click save

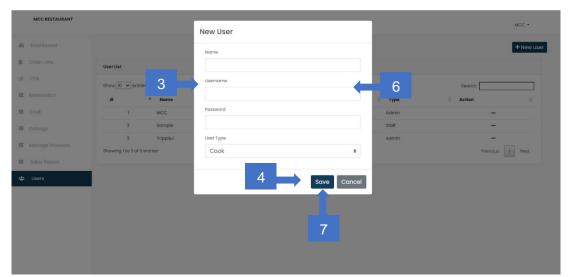
Step 5: Click edit icon

Step 6: Edit all the forms need to edit

Step 7: Click save

Step 8: Click delete icon





How To Manage Users

Step 1: Click users

Step 2: Click add users to add

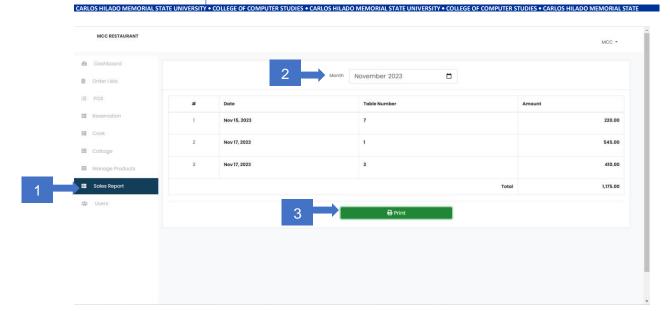
Step 3: Fill all the field

Step 4: Click save

Step 5: Click the triple dot to edit

Step 6: Edit all the field

Step 7: Click save



How To Generate Reports

Step 1: Click Sales Report

Step 2: Select Date

Step 3: Click Print



Appendix F

Test Cases

Test Case No.	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
1. Log In account	Check if admin and staffs can log in on the system.	Input credentials. Click log in button.	Admin and staff can log in successfully.	Admin and staff are able to log in successfully.	Pass
2. Add order details	Check if cashier is able to input orders	1. Input order by selecting from dropdowns. 2. Click add order.	Cashier will be able to add orders.	Cashier successfully added a new order.	Pass
3. Generate receipt	Check if cashier is able to generate receipt.	Add order details. Click add order. Input payment details. Click print receipt.	Cashier will be able to generate receipt with order summary.	Cashier is able to generate receipt with order summary.	Pass
4. Scan QR code	Check if the customers can scan the QR code to enter ordering page.	Scan QR through phone. Click link to enter order page.	Customer will be able to enter the ordering page.	Customer successfully entered the order page.	Pass
5. Add order details	Check if customers can add their order.	Select from the choices on the order page. Click add.	Customer will be able to submit their order.	Customer is able to submit their order.	Pass
6. Add payment	Check if customer is able to add payment.	Click order button. Click Pay Add payment details. Click submit.	Customer should be able to submit payment.	Customer is able to successfully submit payment.	Pass
7. Reserve cottage	Check if customer is able to reserve a cottage.	1. Go to cottage page. 2. Click reserve button. 3. Input details needed on the form. 4. submit reservation.	Customer should be able to submit reservation.	Customer was able to successfully submit reservation.	Pass
8. View virtual queue	Check if staff is able to view the virtual queue of order.	Access dashboard. View order	Staff should be able to view the orders.	Staff is able to successfully view the order on queue.	Pas
9. Add menu items	Check if admin is able to add menu items.	Access menu items dashboard. Click add menu. Add details on the form and click add.	Admin should be able to add menu items.	Admin as able to successfully add menu items.	Pass
10. View summary of sales	Check if admin and staff is able to access the summary of sales.	Click the designated sales button. Sort according to data.	Admin should be able to see the summary of sales.	Admin is able to successfully access the summary of sales and filter the data.	Pass
11. Modify reservation.	Check if admin or staff is able to modify reservations.	1. Click on reservation button. 2. Click one reservation. 3. Modify or confirm reservation.	Admin or staff should be able to modify the reservation.	Admin and staff are able to modify and update the cottage reservation.	Pass



Appendix G

Compliance Sheet

BSIS CAPSTONE PROJECT

		COMPLIANCE SHEET	
	TITLE DEFENSE	PRE-ORAL DEFENSE	FINAL DEFENSE
Сар	stone Project Title: IOT BASI	ED RESTAURANT INFORMATIO	ON SYSTEM
Prop	oonents: BALDAGO, JEHU E MAQUIMOT, JOSH	MMANUEL U., COJA, JUVELYN UA N.	I B.,
•	For <u>Status</u> : the response indicate page number(s) ir During defense, you shoul review the compliance. Ad For the <i>final manuscript</i> to	d give this document to the pane ditionally, include it in your slide p obtain approval and proceed with panel members for their review	lists so they can

	MANUSCRIP'	Т	
Recommendations	Actions Taken	Page Number	Status
Add "Acceptability" as an objective for ISO testing.	Added "Acceptability" for objective 3.	5	Complied
Add meters for sensors and shorten scope.	Specified meters for sensor detection.	6-7	Complied
Define words as "Operational".	Defined words as "operational".	9 – 12	Complied
Review methodology.	Reviewed and further discussed methodology.	26 – 29	Complied
Add DFD.	Added DFD level 1.	32	Complied
Specify sensor and device type.	Specified sensor type and device type.	40	Complied
Remove table 24.	Removed table 24.	N/A	Complied

	SOFTWARE/SYST	EM/APP	
Recommendations	Actions Taken	Page/Interface	Status
Add button for menu maintenance.	Added button for menu availability.	Menu Dashboard	Complied
mprove UI for ordering anding page and use dropdowns.	Improved UI for ordering and added dropdowns.	Order Dashboard	Complied
Button for categories of nenu.	Changed categories into buttons.	Order Dashboard	Complied
Provide unique name for ables.	Provided names for each table.	Order Dashboard	Complied
Interactions for "Pay Now' and "Pay Later" option.	Created "pop up" notification upon payment.	Payment Dashboard	Complied
/isible summations for otal amount of orders.	Total order amount added.	Payment Dashboard	Complied



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Indicators for staff if new order/reservation is made.	Notifications for staff.	Staff Dashboard	Complied
Confirmation for orders/pending orders.	Confirmation page for pending orders.	Staff Orders Dashboard	Complied

Prepared by:

JEHU EMMANUEL U. BALDAGO

JOSHUA N. MAQUIMOT JUVELYN B. COJA Project Manager Researcher

Programmer

Verified:

JOSE LEO G. REDOBLO, PHO. Capsterie Project Adviser



Appendix H

Certification



Research and Development Services Office

CERTIFICATION

This is to certify that the generated research output of Baldago, Jehu Emmanuel U., Coja, Juvelyn B., and Maquimot, Joshua N. with the research title "IOT Based Restaurant Information System" has gone through Grammarly and Plagiarism Check with 1% rating.

Attaching herewith is the original copy of the manuscript with the following comments and findings issued by the Grammarly software.

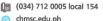
This certification is issued for whatever legal purpose it may serve them best.

Issued this 18th Day of January 2024.

Director, Research & Development Services



research.development@chmsc.edu.ph



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Appendix I

Curriculum Vitae

JEHU EMMANUEL U. BALDAGO

Adress: Brgy. Villamonte, Bacolod City

Contact Number: 09933108297

jehu.baldago@gmail.com Email:



PERSONAL BACKGROUND

Date of Birth: December 14,1999

Place of Birth: **Bacolod City**

Height: 5'1 ft.

Weight: 60 kgs.

Sex: Μ

Civil Status: Single

Religion: **Baptist**

Nationality: Filipino

EDUCATIONAL BACKGROUND

College: Carlos Hilado Memorial State University

Bachelor of Science in Information Systems

S.Y. 2020 - Present

Negros Occidental High School High School:

S.Y. 2018 – 2020

Alternative Learning School

S.Y. 2017 – 2018

Elementary: **Asuncion Lizares Elementary School**

S.Y. 2015 - 2017

SEMINARS ATTENDED

Synology Day 2023 – November 2023



JUVELYN B. COJA

Adress: Brgy. Balaring, Silay City

Contact Number: 09668656106

Email: jbcoja.chmsu@gmail.com



PERSONAL BACKGROUND

Date of Birth: August 24,2001

Place of Birth: Silay City

Height: 5'2 ft.

Weight: 48 kgs.

Sex: F

Civil Status: Single

Religion: Roman Catholic

Nationality: Filipino

EDUCATIONAL BACKGROUND

College: Carlos Hilado Memorial State University

Bachelor of Science in Information Systems

S.Y. 2020 - Present

High School: Silay Institute

S.Y. 2018 – 2020

Dona Montserrat Lopez Memorial High School

S.Y. 2014 - 2018

Elementary: Lantad Elementary School

S.Y. 2008 - 2014

SEMINARS ATTENDED

Synology Day 2023 - November 2023



JOSHUA N. MAQUIMOT

Adress: Brgy. V, Poblacion, Silay City

Contact Number: 09489960176

Email: jnmaquimot.chmsu@gmail.com



PERSONAL BACKGROUND

Date of Birth: August 10,2001

Place of Birth: Silay City

Height: 5'8 ft.

Weight: 60 kgs.

Sex: M

Civil Status: Single

Religion: Iglesia Ni Cristo

Nationality: Filipino

EDUCATIONAL BACKGROUND

College: Carlos Hilado Memorial State University

Bachelor of Science in Information Systems

S.Y. 2020 - Present

High School: Silay Institute

S.Y. 2018 - 2020

Elementary: Barangay Guimbala-on Elementary School

S.Y. 2009 - 2014

SEMINARS ATTENDED

Synology Day 2023 - November 2023