Overview of the Practicum

As of July 15, 2025, I have rendered a total of 396 hours of on-the-job training and the expected date will be on July 29, 2025 at the Department of Science and Technology – Forest Products Research and Development Institute (DOST-FPRDI), a government research facility located in Los Baños, Laguna. This organization is dedicated to advancing the sustainable use of forest-based resources and supporting local industries through research, technical services and innovation.

I was assigned at the Training Services Division- Training and Manpower Development Services Section (TSD-TMDSS), this section is responsible for planning and conducing training programs across the Philippines.

The stated trainings render in two modalities: face-to-face training courses, and training webinars. Face to face training courses is the traditional way wherein the activity is conducted at FPRDI office or on site, depending on the preference of the requesting party. While training webinars are composed of recorded lecture and technology demonstration.

While my host company is quite far to my course of Information Technology. My task is still related to my taken course. My role was to digitize records and reduce manual workloads for the team in my section.



Figure 1. DOST FPRDI

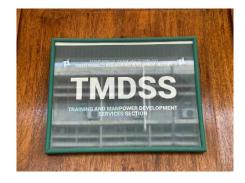


Figure 2. TSD-TMDSS

Presentation of Output

The first project was titled "Mapping of FPRDI Training Services".

System Overview

This system serves as an interactive platform used for visualization and managing 10 years' worth but expandable training records conducted by DOST-FPRDI. It integrates a dynamic filtering mechanism and sorting algorithm that allows users to easily locate training activities by selecting filters such as year, region, province, and city.

As the users apply filters, the system will automatically update the Philippine map view while zooming in on the filtered locations. Moreover, the result box on the left side of the map displays all matching training records. When a specific training is clicked, detailed information about that activity is presented including dates, participant counts, training type and venue details.

To secure the files, an admin page is present with CRUD functions. The system offers data management features: Importing CSV files to do batch uploads and create new training tables in the database, adding individual training records, editing or deleting trainings and viewing of import history for tracking batch data imports.

Objectives:

- To develop a comprehensive database that will allow easy access for the Institute.
- To enable better management of the resources and provide clearer view of the institute's offerings and the organization's impact.
- To serve a support decision-making, facilitate collaboration, provide evidenced of its delivered assistance and promote the broader dissemination of other technical services.

Expected Output:

- Database interface of conducted FPRDI Training Services
- Backend of FPRDI Training Maps
- Map of FPRDI Training Services

Target Beneficiaries:

- FPRDI Researchers
- Staff of TSD-TMDSS

Screenshots of the Output



Figure 2. Landing Page



Figure 3. Sorting and Map Page



Figure 3.1. Sorting and Map Page



Figure 4. Admin Log-in

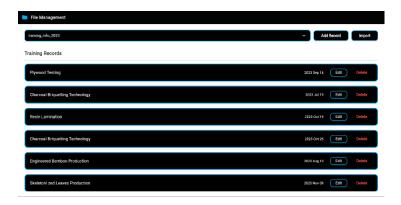


Figure 5. File Management Page



Figure 6. Add Data



Figure 8. Import History

The second Project was Titled "Batch Training Certificate Generator".

System Overview

The Training certificate generator is designed to simplify the creation of certificates for DOST-FPRDI training activities. There are two options to choose in the system. First, the training certificate creator is intended for training activities where participants data is collected through google forms namely evaluation, attendance, while the background information is optional. The system automatically sorts and matches the imported csv files to determine the eligibility of participant in the participant eligible report page. Eligible names are then passed into the certificate editor, where users can upload a certificate template, adjust placements of names and customize font styles, sizes and alignments. Note that the users do not need to adjust each name per certificate, if the user moves one name in the center, all names will be in the same place for easier customization. Once this is done, users can export individual certificates as PDFs or save all certificates in a ZIP folder. In addition, exporting of CSV files of eligible and ineligible participants are allowed by the system.

For cases where no CSV data is required, the second option should be used. The batch certificate creator enables the user to manually enter participant names and generate certificates using the same editing tools.

Overall, this system streamlines certificate creation that ensures accurate record-keeping and provides flexible export options to support effective and efficient documentation.

Objectives:

- To streamline the process of generating training certificates in batches, reducing manual encoding and minimizing errors.
- To enhance customization and professional quality tailored to each training activity.
- To Improve efficiency of record-keeping supporting faster creation of certificates.

Expected Output:

- Automatic sorting mechanism of participant data based on the required CSV file provided by the user.
- Easy editing and positioning of the participants' name and interactive UI.
- Exportable Certificates and Records

Beneficiaries:

- Staff of TSD-TMDSS
- Other Division needed to create batches of certificates

Screenshots of Output:



Figure 9. Landing Page

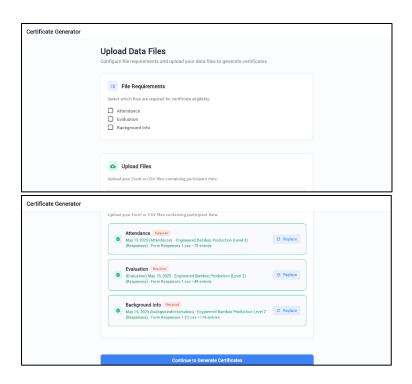


Figure 10. Sorting Mechanism

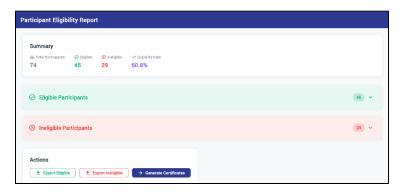


Figure 11. Participant Eligibility Report Page



Figure 12. Certificate Editor

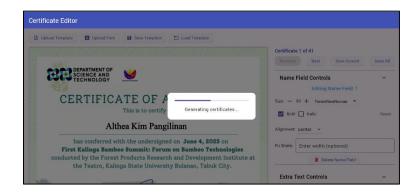


Figure 13. Saving Batch Process

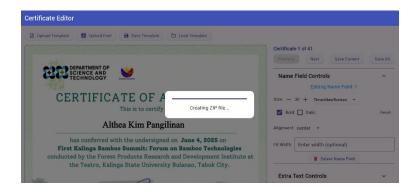


Figure 14. Creating Zip Process



Figure 15. Batch Certificate Creator (no csv)



Figure 16. Batch Certificate Creator (no csv)



Figure 17. Batch Certificate Creator (no csv)

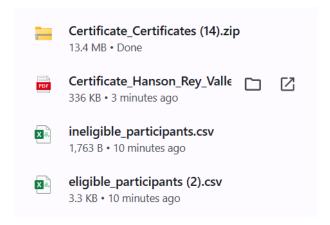


Figure 18. Exportable Certificates and Records

Conclusion

During my On-the-job training at DOST-FPRDI at the section of TSD-TMDSS, I gained both valuable technical and professional skills that enhanced my understanding of how information technology is very useful and versatile in supporting research, development, and training services. My key takeaways in this experience are developing software in a real-life professional setting. The only experience I have was just to develop a system based on Machine Problems, Laboratory Tasks and that setup is flexible where I have full control on how it will work and how will it look. However, this experience improved my ability to design, develop, test systems following a strict guideline from the host company. This taught me how to follow the requirements of my supervisor and give deliverables based on the deadline given to me. Furthermore, I also gained hands-on experience in organizing and migrating data from paper-based to digital system to improve record-keeping. This made me realized how digital solutions is crucial especially in organizations who have heavy files to make file management more efficient and effective.

Making a detailed technical and user documentation while following the user manual by our division. I learned here that sometimes this is being overlooked but this is crucial to support future system maintenance and user training.

On the other hand, soft skills and professionalism are also part of my learnings in this experience. Working with the team taught me how to effectively coordinate tasks, accept feedback, and to adapt to changing requirements. I also experienced the value of time management and to be attentive.

Lastly, this on-the-job training strengthened my professionalism while applying my technical skills and my appreciation for how IT can steer innovation, efficiency and sustainability even in public service.

Appendices

Appendix A

Competency-Based CV



- CONTACT (+639994402556
- altheakimpangilinan@gmail.com
- Blk 4 Lt 6 Southwynd Residences, Calamba Laguna.

EDUCATION

Mapúa Malayan Colleges Laguna

Bachelor of Science in Information Technology

President's List (SY 2021-2022 & 2023-2024) 2021-2025

New Era University

Science, Technology Engineering and Mathematics

2020-2021

University of Mindanao

Science, Technology Engineering and Mathematics

2019-2020

SKILLS

Programming Languages

Dart | C# | Assembly Language | SQL

Computer Related Skills

MS Office HTML & CSS

CCNA: Introduction to Networks Database Management

Soft Skills

Time Management Communication Adaptability

ALTHEA KIM PANGILINAN

ABOUT ME

As a committed fourth-year Information Technology student at Mapúa Malayan Colleges Laguna, I have developed strengths in user interface design and database management. My passion for continuous learning fuels my enjoyment in building intuitive, data-driven applications that enhance both efficiency and user engagement.

CERTIFICATES

CompTIA IT Fundamentals (ITF +) Certification

July 2024

AWS Academy Graduate - AWS Academy Cloud Foundations

November 2023

CCNAv7: Introduction to Networks

November 2022

WORK EXPERIENCE

March 2021

Immersion at CREOTEC Philippines Inc Laguna Center

117 Technology Ave, Laguna Technopark, Biñan, 4024 Laguna

Functional leader of Developing Team of Technical group

Functional leader of Developing Team is responsible in guiding the team's work from planning to execution to ensure that the deliverables are in high quality and it reached the organization's standard and project requirements.

April - July 2025

On-The-Job Training at DOST FPRDI

Domingo Lantican Ave (Formerly Narra RD.) UPCFNR Campus, UPLB, College, Laguna 4031

Software Development Team of Training Services Division

Responsible for developing a GIS-based training tracker with 10 years of data. Built a certificate generator to automate creating and exporting training certificates. Supported the Training Services Division in managing and digitizing nationwide training programs.

Appendix B

Endorsement Letter





27 March 2025

DR. RICO J. CABANGON

Department Head

DOST-FPRDI

Narra Rd., Forestry Campus, University of the Philippines Los Baños Campus, College, Laguna, 4031

Dear Dr. Cabangon,

The B.S. in Information Technology program of Mapúa Malayan Colleges Laguna requires their students to undergo Practicum program for a minimum of 486 hours in an academic calendar that will prepare our students to be job-ready after completing their curriculum. This program intends to enable our students to acquire and practice the knowledge and skills expected of a graduate of a B.S. IT program which, in turn, would guarantee continuous supply of IT professionals needed by your company.

We believe that your company can provide the relevant exposure necessary for our students to achieve the intended learning outcomes for the B.S. in Information Technology program. In this regard, I would like to endorse Ms. Althea Pangilinan to have his practicum activities in your company as requested.

We thank you for your confidence and trust with us and we look forward to a more meaningful linkage that is mutually beneficial to our students and your company.

With warm regards,

ADOMAR L. ILAO, DIT BSIT Program Chair

College of Computer and Information Science

Mapúa Malayan Colleges Laguna

alilao@mcl.edu.ph

(049) 832-4076

Address : Pulo Diezmo Road, Cabuyao City, Laguna 4025 Trunkline: +63 (49) 832-4000 : +63 (49) 832-0017, +63 (2) 8520-8975 Email : mclies/@mcl.cdu.ph





Appendix C

Practicum Confirmation and Acceptance Form

MCL			REVISION NO. 00 REVISION DATE May 10, 2
Malayan Colleges Laguna	PRACTICUM CONFIRMATION AND	ACCEPTANCE FORM	
IMPORTANT INFORMATION	PROCTICON COM MANATON AND		
STUDENTS ACCEPTED FOR P ASK THE PRACTICUM SUPER	RACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH TH VISORY COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF I ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.	HIS FORM. THE TRAINING.	
NAME OF STUDENT	Althea Kim M. Pangilinan	STUDENT NUMBER	2021150556
COURSE CODE	IT199F	SY/TERM ENROLLED	2024-2025/ 3 RD TER
Development Services Section Training will commence on App. COMPANY REPRESENTATIVE.	on, Technical Services Division department/s for il 22,2025 and is expected to end on Suly 30, 20	Attached is the list of	r requirements.
CerleneTo		Admin A	as4. J Designation
Signature over			
Hlms - F		The second secon	и цірол © f<i>prdi-</i> daH . g ov · p i ntact Number/s
Depart	ment	Email and Col	ILBUT NUMBORS
Admar Italian Signature over printed name of Practice	ticum Coordinator	3/1	0 2025 Date
			50011010111
PY: (1) STUDENT; (2) HOST COMPANY; (3) PRACT	CUM COORDINATOR		FORM OVPAA 03 THIS FORM IS AVAILABLE AT THE OV
			THIS FORM IS ANALASIE AT THE CV

Appendix D

Student Training Agreement and Liability Waiver

MCL	REVISION DATE May 10, 20
Malayan Colleges Laguna A MAPUA SCHOOL STUDENT TRAINING AGREEMENT AND LIABILITY	WAIVER
STUDENT TRAINING AGREEMENT AND LIABILITY	407(14)=17
#PORTANT INFORMATION THIS FORM IS TO BE ACCOUNTING AND SUBMITTED BY STUDENT TRAINEE TO THE PRACTICUM ADVISER BEFORE PREAD AND UNDERSTAND THE PROVISIONS OF THIS AGREEMENT AND WAIVER POSSURE THAT ALL SIGNATORIES SIGN THE POPM	STARTING THE PRACTICUM
L. Althea Kim Pangilinan, and a student of MAPUA MALAYAN COLLEGES LAGUNA (herein voluntarily undergo on-the-job training at DOST Forest Products Research and Development Institute. Company**, located at Narra Rd., Forestry campus, UPLB Campus, College, Laguna, under the following term	herematter referred to as the "Hos
a. That the practicum training will commence on April 22, 2025 and ends on July 50, minimum of 486 hours required for the on-the-job training;	2025 and will have to complete a
 That I shall observe proper decorum and act professionally at all times and abide by the comply with those imposed for the training program, otherwise, I shall be excluded from further participation; 	Company's rules and regulations and
c. That in the course of my training program, I may have access to information which n proprietary to the Company, for which I may be required to execute a confidentiality and non-disclosure participation in the training program:	may be of confidential in nature and e agreement as a prerequisite to my
d. That the time I will spend on the training program in the completion of my on-the-job train not be interpreted or construed as working hours and should be regarded as non-compensable. Provided that, of liberality or generosity on their part, provide me with meal, travel, transportation allowances, accommodation.	the Company may, as a unilateral act
e. That I fully understand that notwithstanding the allowances enumerated in the preceding exists no labor-management and/or employer/employee relationship between me and the Company where I will	
f. That I shall exercise due care and diligence in the tasks assigned to me and personally liabilities for damage to property or injury to third person, which may be occasioned by my intentional or no on-the-job training:	
g. That I shall likewise hold the Host Company and MCL free and harmless from any and a sickness or injury to myself and third parties and damage to property which I may sustain and/or may or program, including time spent in traveling to and from any and all premises and locations where I may be re- program.	cour at any time during the training
h. That the Company reserves the right to discontinue my training on reasonable grounds upo Additionally, in the event my training program is discontinued for reasons attributable only to myself, I r Company for any/all the allowances, stipends, etc., which I may have received from them during and prior program;	may be made to reimburse the Host
 That in addition to my liability under section g and for the pre-termination of my training phereof, I may be subjected further to disciplinary action in accordance with the school's student manual and/or graduation. 	
Signed on this 23 day of May Alth Signature over	hea Kim/M. Pangilinan printed name of Student Trainee
WITH OUR CONSENT:	
Signature over printed name of Parent/Guardian (for minors only) NOTED BY: A = may 1 m	
Frinted Name and Signature of Practicum Adviser/Coordinator Printed Name and Signature of He	ost Company Representative

Appendix E

Training Plan

Malayan Colleges Laguna A MAPUA SCHOOL	RAINING PLAN			REVENIEN PUR	May 10, 2016	
NAME	Althea Kim M. Pangilir	nan cours	E CODE	Г	T199F	111/02/
PROGRAM & STUDENT NO.	BSIT- 2021150556	COURS	SE TITLE	I.T. PRACTICUM		
STUDENT OUTCOMES						
AREAS / PHASES OF TRAINING A. Company Orientati B. Software Developr C. Technical Docume	on nent	ence and continuous lear	ming –	8 hrs 438 hrs 40 hrs		
EVALUATION GUIDELINES & C DEMONSTRATION OF SOFT SK KEY AREAS	ILLS (40%)	KEY AREAS	ON OF TECHNICA			
ICT) PROFESSIONAL DEPORTME Disserves proper grooming and a keports to work regularly on tin working hours tots according to the job descrip	terminologies and rules Recite ded for the tasks Identify and ols the tasks I incident reports ing Information and Communication Te NT (20%) ttire ue and as necessary, even beyond prescrition given by the company t from the usual routine and responsibility	- D - A - Able to chnology - Si - Ii - Able to - A - Able to - A - E - TECHNICAL - Creato - Able t - Docui - Prepi	o deliver bug-freelivered stable at Met all project do integrate and uccessfully integraphemented key or implemented despipiled consistent assured user-free DOCUMENTA ed and maintain or write Testing mented test cas ured easy-to-fol	ree modules on modules with no caddines consists implement the grated Supabase features with s ood UI/UX prin at design and res andly navigation CTION SKILL and clear proje Activities doce es and tracked	major bugs reportently (10%) enew modules (16 e. (5%) mooth functionality ciples in the mod sponsive layout. (5 and interaction. (5 S (20%) cet timelines. (5%)	9%) ty. (5%) lules (10%) 5%)
ITIATIVE (+5%) /oluntoers to perform tasks beyon	d routine tasks	Volunteers to peri	form tasks beyond	routine tasks		

CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
Althea kim M. Pangilinan	MONATURE OVER PRINTED-MAKE OF PARENTOR GUARDAN / DATE	BICHATURE OVER FINITED HAME OF PRACTICUM SUPERVISOR / OATE	Mr. Ademia L. Itale BIGNATURE OVER PRINTED HAME OF PRACTICUM ADVISER / CATE	NV. Adventor L. Tibel BIGHAT-LIRIC CALIF PRINTED MANE OF PROGRAM CHAIR / DATE

Appendix F

Practicum Learning Module Path Proposal

	MALAY	APÚA AN COLLEGES		REVISION NO.: 02 REVISION DATE: Nov. 8, 2019
		PRACTIC	UM INTEN	TFORM
IMPORTANT INFO	RMATION			
TO BE SUBMI	T TED TO T	P BY THE STUDENT TO SIGNIFY INTENTION THE PROGRAM CHAIR ONE TERM BEFORE THE TO TRAIN WITH A COMPANY THAT IS NOT	HE PRACTICUM	TICUM COURSE MUST COMPLYTO APPLICABLE POLICIES AND DUE PROCEDURES.
PERSONALIN	FORM	ATION		
NAME OF STU	DENT	Althea Pangilinan		STUDENT NUMBER RUZURVESU
PROGRAM ANI	YEAR	BITT 14th Ucar CO	ONTACT NO. AND -MAIL ADDRESS	09994402556/ 2021akmpangilinan@live.mcl.edu.ph
	PRACT	CUM INFORMATION	-MAIL ADDRESS	PREFERRED / TARGET HOST COMPANIES
PRACTICUM COURSE CODE	17	195	Ox	DEST Forest Product Research and Development Institute
COURSES TO BE TAKEN WITH PRACTICUM	12	91 (17200 - 20		etmicroelectronics W
TOTAL UNITS	,	f2		
TOTAL NO. OF UNITS TAKEN		142		Municipality of Binan OV
Malayan Colleges I (HTE). Hence, by signand/or the HTE to personal data that and/or the HTE t assessment reports	aguna (figning this generate may be ro obtain as part (figure)	wide all relevant information as req MCL) and/or the Host Training Establis document I hereby give my consent control, extract, use, store, and dispose an necessary. Furthermore, I am authorize copies of my medical and psyclo- of the practicum requirements.	ishment for MCL yand all ting MCL hological	1/28/WFF Adamay For Signature over printed name of program chairidate
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APPROVAL		Associal Tol	Practician	
REMARKS/CONU			Macheum	<u></u>
	RE	COMMENDED BY		APPROVED BY
	sicili	Semal Day 3/26/20 WE OVER PRINTED NUMEROATE PROGRAM CHANG	ns	SIGNATURE OWNER DANGE OF THE STREET OWNER
	GORAN ON			Contract Con

DATE



REVISION NO.:	00
REVISION DATE:	May 10, 2016

GIS BASED TRAINING TRACKER

DAILY JOURNAL

AREA ASSIGNMENT

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC. SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS. HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

April 22- 25, 2025 (Week 1)

TASK	Overview of the company and the responsibilities for the upcoming project	SHIFT/TIME	7AM-4PM				
Our fir	rst week began by onboarding at DOST-FI	PRDI. It was a	warm welcome and orientation.				
Our supe	Our supervisor introduced us to the department members and gave a quick overview of what the company's mission, vision and structure.						
We we	ere also given a tour of the building for us to be fa	amiliarized with th	he work environment. Furthermore, we				
attended a	meeting led by Ms. Margie and Sir Jeriel, our supervisor and our GIS expert in	our department where they	discussed the projects, including the purpose, expected output,				
and the	e goals of implementation goals. This meeting a	lso included our i	nput in identifying what possible				
technol	logies, tools and features needed for the said proj	ect. This helped u	s understand the importance of aligning				
delivera	ables with the needs of the department. Within th	nese days, we gai	ined valuable into a formal and effective				
project	planning, formal stakeholder communication. We	also tasked to hel	lp in their technical seminar, despite the				
unfami	iliar set up procedure, we adapted by asking o	questions with re	espect, documenting plans and most				
import	tantly, collaborating with team members.	-	•				
	3						
Finally	y, I observed that having more structured of	onboarding mat	terials, formal project outlines				
does i	improve our operational efficiency and futu	re developmer	nt.				
	<u> </u>	-					

DATE

Week 2 Journal



REVISION NO .: REVISION DATE: May 10, 2016

GIS based Training Tracker

00

DAILY JOURNAL

AREA ASSIGNMENT

- FOR TAN I INFORMATION

 INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.

 SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.

 HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

April 28- May 2,2025 (WEEK 2)

TASK	Database Population and Initial Front-End Development	SHIFT/TIME	7AM-4PM			
		<u></u>				
In this we	ek, We were given all the training seminars from 2014 to 20	124. However, it is pri	nted and the soft copy is not in a csv or excel file.			
We need	the csv file for easier importing in our database. With that	said, we manually in	putted all the training seminars and the needed			
fields fo	r our project. So, I focused on uploading and s	tructuring data fo	r those years. Moreover, I encountered			
some is	ssues in inconsistencies of file formatting b	ut this is resolve	ed by cleaning and double checking			
the data	and aligning it with the required fields.					
In addi	tion, the planning of structure of the UI, b	uttons needed	and required input fields were			
discuss	sed between the supervisors. I also succe	essfully establis	shed a database connection			
with the	e web application.					
This we	ek taught me the crucial role of systematic data	organization eve	en in hard copies. To ensure seamless			
front e	end- back- end interaction. Moreover, one	challenge was	to manage a large sets of historical			
data, w	hich solved through batch processing an	d repeated ver	ification.			
Lastly,	the accomplishments this week provided a	strong foundat	ion for both system's database and			
user in	terface components.					
	ρ					
	PGANKIAN					
	TRAINEE'S SIGNATURE					

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPAA 030G

THIS FORM IS AVAILABLE AT THE OVPAA.

Week 3 Journal



REVISION NO .: REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DA	ATE	May 5- May 8 (Week 3)	AREA ASSIGNMENT	GIS Based Training Tracker
TA	ASK	UI Development, Data Filtering Integration for GIS-Based Training Tracker	SHIFT/TIME	7AM-4PM

This week, we continued the development of our assigned project. We first started to work on the front-end and back-end components of the GIS-Based Training Tracker. My task for this week was to create a splash screen, landing page, and to start the sorting page. Moreover, SQL functions were properly initiated and created a simple UI to test if the sorting functions are working properly. Additionally, this week the UI design for the login page is finished. Lots of errors and bugs were also encountered this week especially in the filter page. Certain locations are not sorted properly or no locations can be found in the page, but this is solved by carefully reading the program, identifying what caused it, testing different conditions, and validating data inputs. Moreover, we started creating the navigation rail, navigating icons and ensuring that all pages are properly linked in sequence. Our supervisor, also asked as to show our progress, saying that we did well and ask if we can add a month-range filter function. To enhance data sorting capability and for it to be efficient in their reporting.

This series of tasks helped me deepen my understanding of UI/UX design, data driven filtering using SQL functions and proper system routing. A major problem that we encountered was fixing the filter page as it sorts worth 10 years of training. This experience emphasized the importance of testing every part of the code before combining them. I also noticed that the continuous communication with our supervisor helped ensure the project still aligned with its objective. I also recommend for us to improve development flow was to have a clear outline of the expected structure and visual output beforehand to reduce the repetition of adjustments.



Week 4 Journal



 REVISION NO.:
 00

 REVISION DATE:
 May 10, 2016
 REVISION NO .:

DAILY JOURNAL

- IMPORTANT INFORMATION

 INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.

 SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.

 HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 12- May 16 (week 4)	AREA ASSIGNMENT	GIS based Training Tracker
ASK	Development of File Management UI, CSV Import Function.	SHIFT/TIME	7 AM- 4PM
File I and n	is week of development, I focused on desig Management role of the web app. This wee map functionalities. I began by outlining the UI lay Id the stakeholders interact to these feature rvisor requested to implement a list that displays a	k is also our in out for the file mands. For the file	tegration of the sorting anagement pages and how management screen, our
Each	n seminars includes two buttons with Edit ar	nd Delete, thes	se features were created
with	UI for the mean time. Add and Import butto	n screens are	designed and structured
care	fully enhancing its usability and functionality	to support da	ta entry.
to the as I i	of the challenges, I encountered was I am ha e dropdown. To manage time efficiently, I p reused object-oriented components from m o encountered limitation where Supabase do	rioritized devel y past projects not allow creat	loping the import function, to speed up development. e a new table using SQL Functions,
I res	olved this by implementing a Remote Proce	dure call that	can execute raw SQL commands
	ugh PostgREST to enable CSV imports into ugh the showing the numbers of training alo	<u> </u>	
Fina	lly, this week's accomplishments brought sign	gnificant functi	onality to the system and
taug	ht me to properly decide what to prioritize to	save time wh	ile giving a quality output.
	P. Alica		

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Week 5 Journal



REVISION NO.: REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

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ATE	May 19- May 23 (Week 5)	AREA ASSIGNMENT	GIS - TRAINING TRACKER
ASK	Add Function and Data Validation for Dynamic Table Integration	SHIFT/TIME	7 AM - 4PM
This	week, my main task was to develop the log	ic for the Add	function inside the file management
syste	em. This function is for adding a training in the re	ecent years. As	per the meeting with our supervisors,
the p	process needs to begin with implementing a dropo	down for recent o	database tables. Upon selection
the s	system should generate an automatic uniqu	e training ID. N	Ny first Issue is new IDs were
not g	enerating properly according to the format. I resolve	d this by querying	the last ID in the table and incrementing
it by	1. Moreover, another issue involved the submis	sion process wh	nere data passed null to the database.
I res	olved this, by ensuring that all fields in the coo	de matched the	database schema and the headers
in th	e uploaded Excel file.		
Тое	nsure data integrity, all form validations is imple	emented. Testir	ng the functions repeatedly helps me
iden	tify what part of the function needs refineme	ent.	
Thro	ough this task, I gained experience in handli	ng backend for	rm processing and dynamic table
targe	eting. This also a practice for me to have co	nsistent namin	ng conventions.
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AREA ASSIGNMENT | GIS Based- Training Tracker

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May 26- May 30 2025 (Week 6)

TASK	File Management with Edit and Delete Function SHIFT/TIME 7 AM- 4PM
In thes	se week, my focus was the creation of a fully functional File Management Page.
Other f	functions such as add and import are already done. This week, I developed viewing, deleting and
editing	record based on user interaction. The edit functionality was one of the functions I always struggled.
The fie	elds were not updating correctly because the system can't retrieve the selected data.
Howev	er, I noticed that the selected data in the file management page is not correctly passed in the Edit
page.	So, i solved it by revising the way how data is fetched and passed correctly to the
edit pa	age. To ensure that no duplicates are made, I added condition to prevent same entries inside
the tal	ole. Moreover, since the data that we are handling are crucial, I implemented a confirmation
dialog	to prevent accidental deletions. This ensures that users will be fully aware before removing
a reco	rd.
This w	reek taught me the importance of data integrity, backend consistency as well as correct
state r	management in the code especially in handling dynamic content.
Overal	I, despite the struggles all features of file management are done improving the system's interactivity.
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Week 7 Journal



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DATE	June 2-6 2025 (Week 7)	AREA ASSIGNMENT	GIS based training tracker
TASK	System Testing, Validation, and Supervisor Review	SHIFT/TIME	7AM-4PM
		<u>'</u>	
This	week was focused on validation and testing	g of all features	, although our progress was
slowe	er due to our defense schedule. There were	e days that I co	uldn't attend my OJT, but
	the remaining days of the week to double check	all functionalitie	s, to ensure that they are working
as int	ended.		
Loon	ducted test across different scenarios to ide	ontify bugs or o	won missing validations and
	any issues for further refinements. Addition		
	reb application to our OJT supervisor, Ms. I	,	
	pack. Minor changes and feature adjustmen	<u> </u>	<u> </u>
	the upcoming development week.	no were sugge	stea, when will be dudiessed
all III	the upcoming development week.		
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REVISION NO.: REVISION DATE: May 10, 2016

AREA ASSIGNMENT | GIS based Training Activities

DAILY JOURNAL

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June 9 - June 13, 2025 (week 8)

TASK	Map Page Integration with Region-Based Zoom and Training Results Display	SHIFT/TIME	7AM-4PM		
In this	week, our focus was improving the Map F	Page by enabli	ng the zoom feature based		
	selected filters such as region, province,	0 0			
	w displays a list of filtered trainings and clicking				
also di	isplay the detailed information below. How	vever, we enco	untered challenges such as		
finding	the right Map API. We studied and tested APIs	including OpenS	StreerMap, Nominatim, Mapbox and		
Google	e Maps, and after careful research some	API is not work	ing and concluded that the Google		
Maps	API is the most viable option because of ϵ	ease of use. Ur	nfortunately, google map		
require	es a billing account for activation and curre	ently, we are s	till waiting for the host company to		
provid	e access. We also need to use a manual	GeoJSON for I	abeling the map.		
While	we are waiting, we continue to plan and e	xplore how car	n we implement this feature best.		
This z	oom page is expected to be one of the fin	al additions to	the system.		
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Week 9 Journal



REVISION NO.:	00
REVISION DATE:	May 10, 2016

DAILY JOURNAL

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DATE	Week 9	AREA ASSIGNMENT	Batch Training Certificate Generator		
TASK	Requirements Gathering and System Planning	SHIFT/TIME	7am-4pm		
		•			
In this	week, I started my second project for my	internship. Thi	s is about Batch Training Certificate		
Genera	tor. I focused on gathering and organizing deta	ailed requiremen	its for the certificate generator system.		
I condu	cted an in-depth analysis of the manual certifica	ate process to id	entify what should I improve and		
	nefficiencies are present such as time-cor	•			
across	3 csv forms and the repetitive encoding names	into the certificat	tes.		
	this week, I started to plan the core softv	•			
	the main pages, screens and what eleme	ents and function	ons present to establish		
a clear	and user friendly workflow.				
Techni	ical documentation such as project scope	, objectives an	d functional score are also drafted		
in this	in this week. I outlined a checklist of all current manual steps to ensure that there are addressed				
proper	properly.				
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Week 10 Journal



REVISION NO.: REVISION DATE: May 10, 2018

DAILY JOURNAL

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DATE	June 23- 27, 2025	AREA ASSIGNMENT	Batch Training Certificate Generator		
TASK	UI Development, Logic Implementation, and Testing	SHIFT/TIME	7AM-4PM		
This	week, my focus was to build and integrate	the splash scre	een for the certificate generator		
appli	cation. This is to improve the user experien	ice during the i	nitial loading of the web app.		
Furthe	ermore, I also developed and implemented the sort	ing of the particip	ants based on the csv forms required to		
accui	rately determined which participants are qu	alified for certif	fication. I started to fix major issues		
relate	d to template handling, such as all names of the	participants were	e rendered onto one certificate		
instead	d of generating individual certificates each participant	. The template pla	cement and visibility logic is also corrected		
to en	sure that all certificates are displayed corre	ctly with prope	erly positioned names.		
In the	technical testing and documentation, I throughly	y tested the parti	cipant sorting and filtering functionality		
in diff	ferent set of csv training files to ensure that	participants w	ere correctly categorized.		
More	over, test cases were executed to confirm	that template is	s rendering is accurate and		
only s	only single participant appears in each certificate, as well as the steps taken to solve them.				
Lastly	Lastly, the test documentations included updated instructions for template placement				
and t	est logs verifying that fixes were applied su	iccessfully.			
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Week 11 Journal



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DATE	June 30 - July 4, 2025 - week 11	AREA ASSIGNMENT	Batch Training Certificate Generator	
TASK	Feature Enhancements, Bug Fixes, and Testing	SHIFT/TIME	7 AM- 4PM	
During	this week, I had a big progress in both so	oftware develo	pment and technical/ documentation.	
On the development of front end, several key features were successfully implemented to enhance the functionality and user experience of the user. Lincluded the export buttons, enabling users to				

download generated certificates in a zip format and a pdf format. The integration of save and load template, allows users to reuse the customized certificate template. Moreover, the addition of different font styles, size and alignment provides a flexible design when formatting the recipient names and the text of certificate. A draggable name positioning was integrated, that will give the user full control to move the name element anywhere within the loaded template. In addition, multiple bugs and issues were addressed, including fixing problem where font styles were not changing as intended, also resolved text alignment errors and corrected issues with the group renaming and formatting process during large data entry. From the technical testing and documentation, all new features were thoroughly tested for reliability and usability. Functional testing was performed on export actions, template saving/loading, font style switching, and movable text positioning.

Usability testing confirmed that the drag-and-drop feature worked easily and consistently. Bug fixes were validated to ensure fonts applied correctly and alignment worked as expected. Bulk renaming functionality was also tested again to confirm proper formatting throughout all imported names. Overall, this week marked good progress in both the stability and capabilities of the Certificate Editor.



Week 12 Journal



REVISION NO .: REVISION DATE: May 10, 2016

DAILY JOURNAL

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DATE	July 7 - July 11, 2025	AREA ASSIGNMENT	BATCH TRAINING CERTIFICATE GENERATOR
TASK	Improving Stability and Export Functionality	SHIFT/TIME	7AM-4PM

Week twelve prioritized on refining export features to ensure accuracy, efficiency, and user-friendly certificate handling. this focuses on debugging, optimizing, and validating these features to align fully with expected system responses.

On the Software Development, enhancements were made to the certificate export system. The Save Current and Save All functions were successfully developed, enabling users to export individual or multiple certificates as needed, we have focused on ensuring with the consistency with name saving and file outputs, which previously caused mismatches and confusion. The export process was also optimized, especially for mass exports using ZIP packaging.

This included improvements in performance and reliability when handling multiple certificate files. Additionally, export-related crashes were analyzed and resolved to make it easier for the user.

Also, for Technical Documentation and Testing, validation tasks were conducted to confirm that the Save Current and Save All features functioned accurately and correct. We've verified that the exported ZIP files correctly matched the state of the editor at the time of export. previously we have experienced minor issues, such as crashes during batch exports conflicts in saved names, were identified and fixed. These testing efforts helped ensure that both single and bulk export features functions as intended throughout multiple testing.

Overall, the export system had reached a more stable and consistent state, allowing for reliable certificate output in different ways it might be used.



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