



COLLEGE OF COMPUTER AND INFORMATION SCIENCE

Academic Year 2024 – 2025

Practicum Narrative Report

Aaron L. Bernaldez

Practicum Adviser: Alimuddin S. Arriesgado

Submitted to the Faculty of Mapúa Malayan Colleges Laguna
In Partial Fulfillment of the Requirements for the degree of
Bachelor of Science in Computer Science

Overview of the Practicum Engagement

Company Background



Figure 1. PetroEnergy Resources Corporation Logo

I interned at **PetroEnergy Resources Corporation (PERC)**, a publicly listed energy company on the Philippine Stock Exchange and part of the **Yuchengco Group of Companies (YGC)**, a well-known group with diverse business interests. PERC was founded in 1994 and initially focused on upstream oil exploration and development. Over time, it has grown further into a company that now includes renewable energy and power generation in its operations.

Located in **Pasig, Metro Manila**, PERC plays an important role in the country's shift to clean and sustainable energy. Through its subsidiaries and joint ventures like **Maibarara Geothermal, Inc. (MGI)**, **PetroWind Energy Inc. (PWEI)**, and **PetroSolar Corporation (PSC)**, as well as its green energy affiliates namely **RGEC**, **DGEC**, **BGEC**, **SJGEC**, **LGEC**, and the **Buhawind** and **EcoSolar** companies. PERC helps develop and manage renewable energy projects that reduce environmental impact and promote energy security.

PERC focuses on sustainable energy development, particularly in **geothermal, wind, and solar power**. These projects are part of the company's commitment to environmental responsibility and long-term energy solutions for the country.

Overall, PERC continues to grow as a key player in the Philippine energy sector by combining technical expertise with a strong push for sustainability.

Nature of Assignments or Tasks Given

During my internship at Petrogroup, I was assigned to work on the development of an ESG and CSR data management system, aimed at helping the company extract more value from their sustainability data. The system's core purpose was to improve efficiency, reduce operational costs, and provide actionable insights through data analytics. The internship was structured into four key phases.

We started with Phase 1: Project Setup and Data Familiarization. In the first week, we held a project kickoff meeting to align on goals, deliverables, and communication protocols. We then dove into the provided consolidated Excel file, identifying data fields, types, and potential quality issues. The second week focused on requirements gathering through meetings with Petrogroup representatives, where we documented both functional and non-functional requirements and identified relevant KPIs for ESG and CSR reporting. We also researched technology stacks and shortlisted tools that matched Petrogroup's budget and needs.

Phase 2: Data Modeling and System Design involved creating a robust foundation for the platform. This included designing the

data model, defining database schemas, and planning how the data would be integrated and accessed. I also worked on designing the user interface, ensuring the system was intuitive and accessible. After finalizing the UI wireframes, We also set up the development environment, including essential tools, frameworks, and version control.

In Phase 3: System Development and Implementation, the actual building of the project began. We built a web platform that allowed users to enter, retrieve, and visualize ESG and CSR data. The application also integrated basic data analytics features. For the development, I was tasked with creating the frontend of the application. However, I also helped out with the backend, when I could. Throughout this phase, we conducted multiple rounds of testing to ensure the system met the requirements and was free of critical bugs.

The final part of the internship, Phase 4: Documentation and Training, focused on creating deliverables and preparing for project handover. I worked on drafting technical documentation. I helped prepare user manuals and training materials. We wrapped up the project with a final presentation and handed over all necessary documents and credentials to Petrogroup's internal team.

Throughout the internship, I used a variety of tools and technologies. The frontend was developed using **React** and **Material UI**, which helped in building a responsive and visually consistent user interface. For the backend, we used **Python with FastAPI**, a modern and efficient web framework ideal for building APIs. The database used was **PostgreSQL**, selected for its robustness and support for complex data queries. We used **Figma** for prototyping and wireframing the UI components. Most of the development was done using **Visual Studio Code**, while **Postman** was used extensively for testing and validating API endpoints. For

collaboration, we relied on shared **Microsoft Sharepoint** and consistent communication through our MS team chat.

Total Hours Rendered

In total, I completed **352** hours during the internship. The duration of my OJT lasted from April 28, 2025, to July 9, 2025. Originally, the OJT was scheduled to end on June 30, 2025. However, due to unexpected delays and holidays, the duration of our stay has been extended. The schedule followed an 8-hour workday. The work hours for the project were strategically allocated across four main phases to ensure a structured and efficient development process. Phase 1 is allocated 48 hours, covering the initial setup and data familiarization. Phase 2 receives 96 hours, focusing on data modeling and system design. The largest portion, 120 hours, is assigned to Phase 3, which involves the actual development and implementation of the system. Finally, Phase 4 is allotted 60 hours, dedicated to documentation, training, and project closure. I successfully completed their practicum on July 9, 2025.

Phase	Duration (Hours)
Phase 1: Project Setup and Data Familiarization	48 hours
Phase 2: Data Modeling and System Design	96 hours
Phase 3: System Development and Implementation	120 hours
Phase 4: Documentation and Training	60 hours
Total	324 hours

Table 1. Summary of Hours Rendered

Presentation of Output

ESGDASH

Our main task at PetroEnergy was to develop a system that would help them derive value from their ESG and CSR data, with the goal of reducing costs, increasing profits, or generating organizational value through data analytics. In addition to the repository and the modules developed for each department, the system also required the implementation of other modules, including authentication, audit logs, navigation, and more. According to the software development plan, I was responsible for the front-end development of the HR department module.

Screenshots of Modules Developed

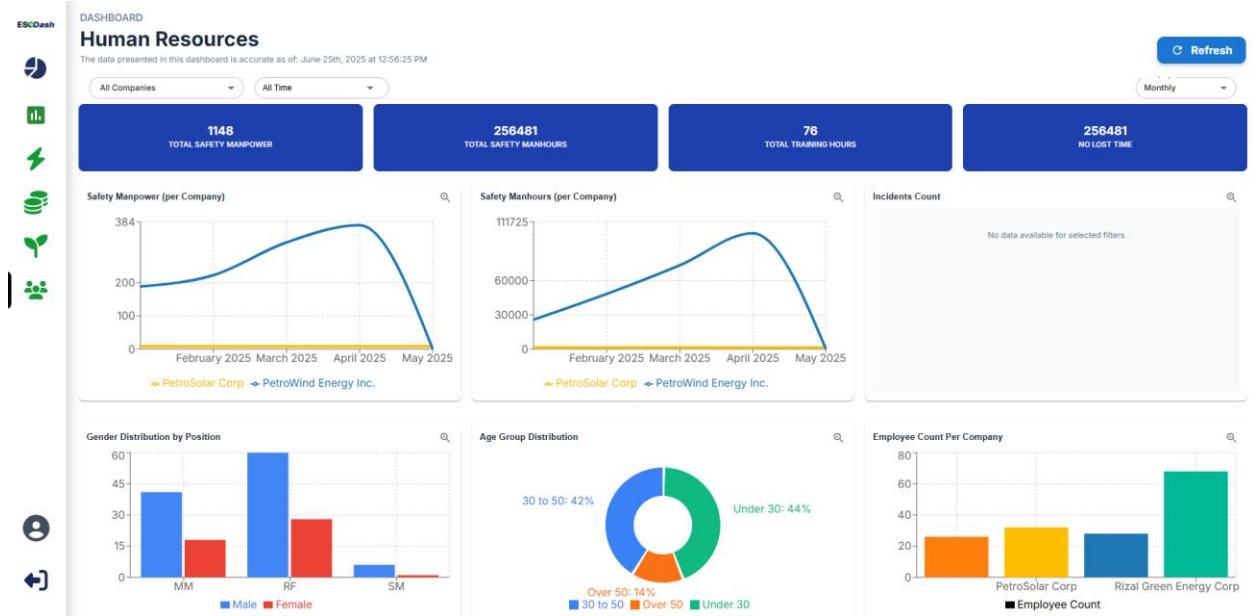


Figure 2. Human Resources Dashboard

The task of creating the frontend for the Human Resources (HR) Dashboard involved designing and developing a user-friendly

interface that visually presents key HR-related ESG and CSR metrics. This included building interactive charts to present the data using Recharts. The dashboard was designed to be responsive, intuitive, and aligned PetroEnergy's requirements, enabling users to easily navigate, view historical trends, and extract insights from the data.

<input type="checkbox"/>	Company ID	Employee ID	Gender	Birthdate	Position	Employee Category	Employee Status	Start Date	End Date	Status	Action
<input type="checkbox"/>	Maibarara Geothermal Inc.	MGI_MM_002	Female	03/06/1979	Middle Management	Professional	Permanent	07/29/2019	N/A	Approved	
<input type="checkbox"/>	Maibarara Geothermal Inc.	MGI_MM_003	Female	08/25/1962	Middle Management	Professional	Permanent	09/18/2019	N/A	Approved	
<input type="checkbox"/>	Maibarara Geothermal Inc.	MGI_MM_033	Male	05/14/1968	Middle Management	Non-Professional	Permanent	01/28/2019	N/A	Approved	
<input type="checkbox"/>	Maibarara Geothermal Inc.	MGI_MM_059	Male	01/01/1972	Middle Management	Professional	Permanent	04/16/2019	N/A	Approved	

Figure 3. Human Resources Repository(Employability)

One of the key responsibilities assigned to me, was to build a repository page for employability data that was user-friendly and presented inputted data in a table format. The table outlined information that represented key employee data. In addition, I also created modals to add employee data, as well as modals to update and view information. These modals included built-in validation logic to ensure the accuracy and completeness of data during both add and update operations. Additionally, separate modals were

integrated to display success messages upon successful actions and error alerts for any issues encountered during the process, enhancing overall user feedback and system reliability. The overall layout was built with usability in mind, allowing users to efficiently manage and interact with the employability records. This feature contributed to the broader goal of improving data accessibility and supporting PetroEnergy's efforts in tracking and analyzing HR-related ESG and CSR metrics.

Action	Status	TL	Date Ended	Date Availed	Employee ID	Company	Company
Edit	Approved	Maternity	07/10/2022	07/03/2022	MGI_MM_033	Maibarara Geothermal Inc.	Maibarara Geothermal Inc.
Edit	Approved	Maternity	02/08/2019	01/22/2019	MGI_MM_133	Maibarara Geothermal Inc.	Maibarara Geothermal Inc.
Edit	Approved	Maternity	07/06/2022	06/29/2022	MGI_RF_015	Maibarara Geothermal Inc.	Maibarara Geothermal Inc.
Edit	Approved	Paternity	05/13/2019	05/05/2019	MGI_RF_035	Maibarara Geothermal Inc.	Maibarara Geothermal Inc.
Edit	Approved	Paternity	08/30/2021	08/27/2021	PSC_MM_028	PetroSolar Corp	PetroSolar Corp
Edit	Approved	Paternity	07/16/2022	07/08/2022	PSC_MM_028	PetroSolar Corp	PetroSolar Corp

Figure 4. Human Resources Repository(Parental Leave)

Similarly, a major task I handled was developing a dedicated repository page for parental leave data that was user-friendly and displayed the inputted information in a structured table format. The table outlined essential details such as employee ID, type of leave (maternity/paternity/SPL), duration(Date Availed and Date Ended), and status. In addition, I implemented modals for adding new parental leave entries, as well as modals for updating and viewing existing records. These modals included built-in validation logic to ensure the accuracy and completeness of data during both add and

update operations. Additionally, separate modals were integrated to display success messages upon successful actions and error alerts for any issues encountered during the process, enhancing overall user feedback and system reliability. The layout was designed with usability and clarity in mind, enabling users to easily manage and review parental leave data.

<input type="checkbox"/>	Company	Contractor	Date	Manpower	Manhours	Status	Action
<input type="checkbox"/>	PetroSolar Corp	Company Owned	02/29/2016	7	1624	Approved	
<input type="checkbox"/>	PetroSolar Corp	Company Owned	02/29/2016	7	1624	Approved	
<input type="checkbox"/>	PetroSolar Corp	Company Owned	02/29/2016	6	1252	Approved	
<input type="checkbox"/>	PetroSolar Corp	Company Owned	02/29/2016	12	3912	Approved	
<input type="checkbox"/>	PetroSolar Corp	Company Owned	02/29/2016	7	2368	Approved	
<input type="checkbox"/>	PetroSolar Corp	Company Owned	02/29/2016	2	398	Approved	

Total 485 records Showing 1-10 records

Figure 5. Human Resources Repository(Safety Work Data)

Another key component I worked on was the development of a repository page for Safety Work Data, which tracks information related monthly safety manpower and manhours contributions from contractors for monitoring. The page was designed to be user-friendly and included a structured table displaying key details such as the name of the contractor, date of work, manpower count, and total manhours. I also created modals for adding new safety work records, as well as modals for updating and viewing existing entries. These modals included built-in validation logic to ensure the accuracy and completeness of data during both add and update operations. Additionally, separate modals were integrated to

display success messages upon successful actions and error alerts for any issues encountered during the process, enhancing overall user feedback and system reliability.

Company	Training Title	Date	Training Hours	NP	TTH	Status	Action
PetroSolar Corp	ASPPi Convention	12/31/2024	16	1	16	Approved	
PetroSolar Corp	BOSH Training	12/31/2024	40	4	160	Approved	
PetroSolar Corp	Fire Drill/Earthquake Drill	12/31/2024	2	54	108	Approved	
PetroSolar Corp	Fire Safety and Fire Fighting Training	12/31/2024	8	50	400	Approved	
PetroSolar Corp	First Aid Training	12/31/2024	16	16	256	Approved	
PetroSolar Corp	Mandatory 8-Hour OSH Training	12/31/2024	8	54	432	Approved	

Total 13 records Showing 1–10 records

Figure 6.Human Resources Repository(Training)

One of the modules I developed was the repository page for Training Data, which captures and organizes records of company training activities. The page consisted of key columns including company, training title, date conducted, training hours, number of participant, and training hours completed. I also implemented modals to allow users to add new training records, as well as modals for updating and viewing detailed information. These modals included built-in validation logic to ensure the accuracy and completeness of data during both add and update operations. Additionally, separate modals were integrated to display success messages upon successful actions and error alerts for any issues encountered during the process, enhancing overall user feedback and system reliability.

REPOSITORY

Social - Human Resources

Employability Parental Leave Safety Work Data Training Occupational Safety Health

Search COMPANY WORKFORCE TYPE LOST TIME INCIDENT TYPE INCIDENT TITLE STATUS

<input type="checkbox"/>	Company	Workforce Type	Lost Time	Date	Incident Type	Incident Title	Incident Count	Status	Action
<input type="checkbox"/>	PetroSolar Corp	Contractors	No	01/31/2019	Accident	Non Lost-Time Accidents (NLTA)	1	Approved	
<input type="checkbox"/>	PetroSolar Corp	Contractors	No	01/31/2019	Accident	Non Lost-Time Accidents (NLTA)	1	Approved	
<input type="checkbox"/>	PetroSolar Corp	Contractors	No	01/31/2019	Accident	Non Lost-Time Accidents (NLTA)	2	Approved	
<input type="checkbox"/>	PetroSolar Corp	Contractors	No	01/31/2019	Accident	Non Lost-Time Accidents (NLTA)	2	Approved	
<input type="checkbox"/>	PetroSolar Corp	Contractors	No	03/31/2019	Accident	Non Lost-Time Accidents (NLTA)	2	Approved	
	PetroSolar					Non Lost-Time Accidents			

Total 15 records Showing 1–10 records

I. Human Resources Repository(Occupational Health Safety)

Lastly, I developed the Occupational Health and Safety (OHS) data repository page, which was designed to record and present workplace incident information in a clear and organized manner. The table included key columns such as Company Name, Workforce Type, Lost Time, Date, Incident Type, Incident Title, and Incident Count. Modals were implemented for adding, updating, and viewing OHS records, all of which featured built-in validation logic to ensure accurate and complete data entry. Additionally, success and error modals were integrated to provide clear user feedback during form submission.

Synthesis of the Practicum Engagement

Learnings Gain from the Practicum Engagement and Realization

During my stay at PetroEnergy, I learned a lot that will help me in my future endeavors. I gained valuable hands-on experience that enhanced my technical skills and deepened my understanding of real-world work environments. Using the knowledge and concepts that I acquired in school, I was able to apply them in creating the software for PetroEnergy. My time in PetroEnergy also taught me and helped me realize the values of teamwork, adaptability, and professionalism in achieving the goal. Overall, this experience gave me a clearer perspective on my career path and the expectations of the industry I plan to pursue.

Conclusion

In Conclusion, my stay in PetroEnergy has proven to be a fruitful experience. I learned many things that I would otherwise not be able to learn in the classroom. The experience and knowledge I gained throughout the practicum will stick with me as I move forward in my career, serving as a foundation for future professional growth and helping me become a more competent and capable person in the workplace. I am grateful for the opportunity to be part of PetroEnergy, and I will carry these lessons with me as I continue to grow both personally and professionally.

Appendices

Appendix A

Competency-Based CV



AARON BENALDEZ

Biñan, Laguna • (+63)939 954 4459

• aaronbernaldez80@gmail.com

SUMMARY

Enthusiastic Computer Science student with hands-on experience in machine learning, data wrangling, and model deployment through academic and personal projects. Proficient in Python, SQL, and data visualization. Eager to contribute analytical and problem-solving skills to real-world tech challenges.

RELEVANT PROJECTS

Fake News Detection Using Various Deep Learning Techniques (Thesis)

- Implemented **CNN**, **BiLSTM**, and **BERT** models, comparing performance using metrics like accuracy, precision, recall, and F1 score to identify the most optimal model for the task.
- **Web Scrapped 4,000+ local Philippine articles** from various news sites, capturing diverse sources of information and enhancing model diversity.
- **Merged and cleaned an additional 60,000+ international dataset entries and 29,000+ local dataset articles** to form a comprehensive dataset, ensuring consistency and accuracy for model training.
- **Deployed the selected model using Flask**, creating a real-time **web app** for fake news classification, offering accessible analysis of articles.

Mobile POS System for Local Business

- Developed the **POS mobile app** using **Android Studio**, providing an intuitive and user-friendly interface for managing sales transactions.
- Designed and implemented **relational databases** to capture business transactions, ensuring data integrity and efficient data retrieval.
- Created a **RESTful API** using **PHP** to interact with a **MySQL database** on **phpMyAdmin**, supporting **CRUD operations** for transaction management.
- Utilized **SQL queries** to extract relevant business insights and transaction data, enabling **data visualization** for business reporting and analysis.

Unity Game – Wanderer

- Developed a **2D platformer game in Unity** that challenges players to achieve high scores through precise movement and power-up usage.
 - Designed and implemented a **relational database schema** with **MySQL**, using **REST APIs (PHP)** to store and retrieve real-time gameplay data.
 - **Integrated backend communication** within the Unity engine using **HTTP requests** to sync data with the server.
-

EDUCATION

Bachelor of Science in Computer Science Mapúa Malayan Colleges Laguna Pulo-Diezmo Road, Cabuyao, 4025 Laguna	July 2019- Present
<ul style="list-style-type: none">• Dean's List (From 1st year to present)• President's List (2nd Year)	

ADDITIONAL INFORMATION

- **Technical Skills:** Python, SQL, Java, C#, PHP, JavaScript, HTML, CSS, Pandas, MySQL, relational databases, Data Cleaning, Data wrangling, Data Modeling, Data Quality Assurance, REST API, Flask, Unity, Android Studio, phpMyAdmin, Git, Excel, Documentation
 - **Soft Skills:** Problem-Solving, Collaboration, Attention to Detail, Clear Communication, Time Management, Adaptability
 - **Interest:** Programming, Personal Development & Self-Improvement, Gym & Fitness, Investing & Financial Literacy, Gaming & Interactive Media, Reading & Literature, Traveling & Cultural Exploration
 - **Languages:** English, Filipino
 - **Certifications:** CompTIA IT Fundamentals (ITF+), Google Data Analytics, Google Cloud Computing Foundations
-

Appendix B

Endorsement Letter



MAPÚA
MALAYAN COLLEGES
LAGUNA



**COLLEGE OF COMPUTER
AND INFORMATION SCIENCE**
MAPUA MALAYAN COLLEGES LAGUNA

08 April 2025

ATTY. ARLAN P. PROFETA

Senior Vice President for Corporate Services, PetroEnergy

THRU: MS. VANESSA G. PERALTA

AVP for Corporate Communications and CIO, PetroEnergy

7th Floor, JMT Building, 1600 ADB Ave., Ortigas Business Center
Pasig, Metro Manila

Dear Atty. Profeta,

The BS Computer Science program of Mapúa Malayan Colleges Laguna requires their students to undergo a Practicum program for a minimum of 324 hours during the third term of our academic calendar.

We would like to request that Mr. Aaron L. Bernaldez be permitted to have his training in your company. We believe that your company can provide the relevant exposure necessary for our students to achieve the intended learning outcomes for the BS Computer Science program. We are confident that he will be able to acquire the practical knowledge and skills expected from a Computer Science graduate which, in turn, would guarantee a continuous supply of CS professionals needed by your company.

We thank you for your favorable action and we look forward to a more meaningful linkage that is mutually beneficial to our students and your company.

With warm regards,

Jonalyn G. Ebron
JONALYN G. EBRON

BS Computer Science Program Chair
College of Computer and Information Science
Mapúa Malayan Colleges Laguna

jgberon@mcl.edu.ph
(049) 832-4076

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

mcl.edu.ph MapuaMCL mapuamcl

Appendix C

Practicum Acceptance



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

PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

IMPORTANT INFORMATION

- STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.
- ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.
- SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.

NAME OF STUDENT	Aaron Bernaldez	STUDENT NUMBER	2021160123
COURSE CODE	CS199F	SYTERM ENROLLED	Sy. 24'-25' / 9th term

This is to certify that Aaron Bernaldez (name of student-trainee) has been accepted for practicum at Petro Energy, 7F IMT Bldg. APM Avenue Antigas Center (name and address of establishment) and will be attached to the Petro Energy departments for a minimum of, but not limited to 324 hours. Training will commence on April 28, 2023 and is expected to end on June 30, 2023. Attached is the list of requirements.

COMPANY REPRESENTATIVE		CIO
	Signature over Printed Name	Official Designation
	IT	vgeperalta@petroenergy.com.ph
	Department	Email and Contact Number/s
NOTED BY		4-23-2023
	Signature over printed name of Practicum Coordinator	Date

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPAA 030B

THIS FORM IS AVAILABLE AT THE OVPAA.



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

PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

IMPORTANT INFORMATION

- STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.
- ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.
- SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.

NAME OF STUDENT	Aaron Bernaldez	STUDENT NUMBER	2021160123
COURSE CODE	CS199F	SYTERM ENROLLED	Sy. 24'-25' / 9th term

This is to certify that Aaron Bernaldez (name of student-trainee) has been accepted for practicum at Petro Energy, 7F IMT Bldg. APM Avenue Antigas Center (name and address of establishment) and will be attached to the Petro Energy departments for a minimum of, but not limited to 324 hours. Training will commence on April 28, 2023 and is expected to end on June 30, 2023. Attached is the list of requirements.

COMPANY REPRESENTATIVE		CIO
	Signature over Printed Name	Official Designation
	Petro Energy IT	vgeperalta@petroenergy.com.ph
	Department	Email and Contact Number/s
NOTED BY		4-23-2023
	Signature over printed name of Practicum Coordinator	Date

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPAA 030B

THIS FORM IS AVAILABLE AT THE OVPAA.

Appendix D

Liability Waiver



STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

IMPORTANT INFORMATION

- THIS FORM IS TO BE ACCOMPLISHED AND SUBMITTED BY STUDENT TRAINEE TO THE PRACTICUM ADVISER BEFORE STARTING THE PRACTICUM.
- READ AND UNDERSTAND THE PROVISIONS OF THIS AGREEMENT AND WAIVER.
- ENSURE THAT ALL SIGNATORIES SIGN THE FORM.

I, Aaron Bernaldoz, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL"), do hereby voluntarily undergo on-the-job training at Delta Energy, herein after referred to as the "Host Company", located at 7F JMT Bldg. MAB Avenue Ortigas Center under the following terms and conditions:

- a. That the practicum training will commence on April 20, 2023 and ends on June 30, 2023 and will have to complete a minimum of 324 hours required for the on-the-job training;
- b. That I shall observe proper decorum and act professionally at all times and abide by the Company's rules and regulations and comply with those imposed for the training program, otherwise, I shall be excluded from further participation;
- c. That in the course of my training program, I may have access to information which may be of confidential in nature and proprietary to the Company, for which I may be required to execute a confidentiality and non-disclosure agreement as a prerequisite to my participation in the training program;
- d. That the time I will spend on the training program in the completion of my on-the-job training requirements will not and should not be interpreted or construed as working hours and should be regarded as non-compensable. Provided that, the Company may, as a unilateral act of liberality or generosity on their part, provide me with meal, travel, transportation allowances, accommodations, etc.;
- e. That I fully understand that notwithstanding the allowances enumerated in the preceding section which I may receive, there exists no labor-management and/or employer/employee relationship between me and the Company where I will undergo my training;
- f. That I shall exercise due care and diligence in the tasks assigned to me and personally be made answerable for any and all liabilities for damage to property or injury to third person, which may be occasioned by my intentional or negligent acts during the course of my on-the-job training;
- g. That I shall likewise hold the Host Company and MCL free and harmless from any and all liability and responsibility for any sickness or injury to myself and third parties and damage to property which I may sustain and/or may occur at any time during the training program, including time spent in traveling to and from any and all premises and locations where I may be required to go to as part of my training program;
- h. That the Company reserves the right to discontinue my training on reasonable grounds upon written notice to MCL and myself. Additionally, in the event my training program is discontinued for reasons attributable only to myself, I may be made to reimburse the Host Company for any/all the allowances, stipends, etc., which I may have received from them during and prior to the termination of my training program;
- i. That in addition to my liability under section g and for the pre-termination of my training program provided for under section h hereof, I may be subjected further to disciplinary action in accordance with the school's student manual and/or be a ground for disqualification from graduation;

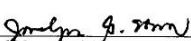
Signed on this 23rd day of April.

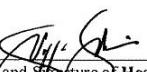

Aaron Bernaldoz
Signature over printed name of Student Trainee

WITH OUR CONSENT:

Signature over printed name of Parent/Guardian
(for minors only)

NOTED BY:

 4/23/23
Printed Name and Signature of Practicum Adviser/Coordinator


Printed Name and Signature of Host Company Representative

Training Plan



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

TRAINING PLAN

NAME	Bernaldez, Agila L.	COURSE CODE	CS199F
PROGRAM & STUDENT NO.	CS / 2071160123	COURSE TITLE	CS PRACTICUM

STUDENT OUTCOMES

- CO1. Identify, analyze, and recommend solution to the computing problem being faced by the organization
- CO2. Apply the different concepts in Computer Science in dealing with the problem-solving process of the organization, and
- CO3. Acquire new knowledge and experience while in the organization

AREAS / PHASES OF TRAINING AND TIME ALLOTMENT

- Phase 1: Project Setup and Data Familiarization (48 Hours)
- Phase 2: Data Modeling and System Design (96 Hours)
- Phase 3: System Development and Implementation (120 Hours)
- Phase 4: Documentation and Training (60 Hours)

EVALUATION GUIDELINES & COURSE OUTCOMES

DEMONSTRATION OF SOFT SKILLS (40%)		DEMONSTRATION OF TECHNICAL SKILLS (60%)	
KEY AREAS	KEY AREAS		
COMMUNICATION SKILLS (20%) Relate to co-trainees/supervisors terminologies and rules Explain procedures and instructions needed for the tasks Identify and describe safety signs and symbols Ask critical questions related to the tasks Produce well-written regular and incident reports Prepares and presents reports using Information and Communication technology (ICT)	Database Modeling and System Design (20%) • Demonstrates understanding of database normalization and relationships • Incorporates business requirements into system design effectively System Development (15%) • Writes clean, maintainable, and well-documented code • Implements core features based on project specifications • Effectively uses version control (e.g., Git) Data Analytics and Visualization (15%) • Uses data visualization tools effectively • Identifies meaningful patterns and trends from data • Communicates insights clearly through reports or dashboards Documentation (10%) • Produces clear and structured technical documentation • Ensures documentation is understandable by both technical and non-technical stakeholders		
PROFESSIONAL DEPARTMENT (20%) Observes proper grooming and attire Reports to work regularly on time and as necessary, even beyond prescribed working hour Dresses according to the job description given by the company Willing to accept new tasks apart from the usual routine and responsibilities Delivers quality output on time Demonstrates respect for different individuals INITIATIVE (+5%) Volunteers to perform tasks beyond routine tasks	Initiative (+5%) • Volunteers to perform tasks beyond routine tasks		

CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
	SIGNATURE OVER PRINTED NAME OF PARENT OR GUARDIAN / DATE Bernadette Bernaldez 2/04/2017		SIGNATURE OVER PRINTED NAME OF PRACTICUM SUPERVISOR / DATE	SIGNATURE OVER PRINTED NAME OF PRACTICUM ADVISER / DATE

BY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPAA-030D

THIS FORM IS AVAILABLE AT THE OVPAA.

Appendix F
Practicum Learning Module Path Proposal

Appendix G
Complete Journal



REVISION NO.: 00
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.
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DATE	April 28, 2025	AREA ASSIGNMENT	Familiarize Project
TASK	: Project Kick-off and Scope Definition	SHIFT/TIME	7:00am-4:00pm

Project familiarization

Today, our team dedicated time to thoroughly familiarizing ourselves with the project documentation for the ESG and CSR Data Management System for Petrogroup.

We started by reviewing the full project document, which outlines the project goal, work plan, data focus, and the expected total work hours (324 hours). We learned that the core objective is to develop a platform that helps Petrogroup derive value from its ESG And CSR data via a central data repository that can be used for analytics, ultimately aiming to reduce costs, increase profits, or create organizational value.

This session allowed us to develop a shared understanding of both the technical scope and strategic purpose of the system. We now have a clear view of how our work contributes to Petrogroup's long-term ESG and CSR goals.

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DATE	April 29,2025	AREA ASSIGNMENT	Familiarize Data and Gantt
TASK	Project Kick-off and Scope Definition	SHIFT/TIME	7:00am-4:00pm

Today, we completed our familiarization with the ESG and CSR data provided by our advisor.

The data is the consolidated Excel file for sustainability reporting.

We thoroughly reviewed all data fields, identified key metrics, and noted any

inconsistencies, missing values, and formatting issues that could affect data processing later on.

The review of the data is in preparation with the actual work that will be done in the upcoming weeks.

We documented our observations and prepared initial notes to guide future data modeling.

and cleansing tasks. After finalizing the data familiarization phase, we began drafting the initial

version of the Gantt chart to outline the project timeline. While the chart is still in progress,

we were able to map out the major phases. This draft will help us visualize task

and organize our work more effectively in the coming weeks.

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DATE	April 30,2025	AREA ASSIGNMENT	Gantt Chart MAKING
TASK	Project Kick-off and Scope Definition	SHIFT/TIME	7:00am-4:00pm

GANTT chart

Today, we focused on organizing the overall timeline of our project by creating a Gantt chart. Based on the project details document, this will help us to visually map out each phase, assign responsibilities, and set realistic deadlines for every task. We used a Gantt chart to arrange the tasks along a timeline. Each task was given a start and end date, accounting for dependencies of certain tasks. By the end of the session, we were able to have a clear project timeline with a visual overview of when tasks are scheduled. The Gantt chart will serve as a reference throughout the project to help us stay on track and monitor our progress.

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DATE	May 2,2025	AREA ASSIGNMENT	Orientation
TASK	Project kick-off and scope definition	SHIFT/TIME	7:00am-4:00pm

To kick Off the start of my OJT at PetroEnergy, we began with an orientation of the Company. The group had to travel to the company's power plant all the way at Tarlac for the orientation. As only a few of us could go to the power plant, I had to Join the orientation online via Ms teams. For the orientation our stakeholders began by giving a brief background on the company. I learned a lot about The company including its other owned power plant as well as the type of Business the company is involved with. After familiarizing ourselves with the company, The stakeholders began discussing the project that we will be undertaking with this OJT. The first discussed the problem currently faced by the company. We learned that the current Method for the repository of their data is through excel. For visualization, they also use excel To generate the charts. This introduces problems for the company because their becomes Difficult to manage with the increase of data. In addition, in order to generate chart the company Must manually generate the pivot chart to create charts. The process of manually inputting data Into excel can also lead to errors because of the manual input. After understanding the problem, Their solution was to create a central data repository management app that can store their data And allow for the inputting of data. The web app can also be used to generate charts for The date. Though the orientation the basic functionalities of the app was understood. With an Understanding of the app, we prepared for next week to begin the requirement gathering.

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DATE	May 5, 2025	AREA ASSIGNMENT	Making Project Charter
TASK	Requirement Gathering and Documentat	SHIFT/TIME	7:00am-4:00pm

Project charter

To officially start our work for the week, we were tasked with finishing the project charter That will presented to the stakeholders. The project charter is a formal document that describes a project to create a shared understanding of its goals, objectives, and resource Requirements before working on the project. The document required us to identify the Objectives os the projects, as well as the deliverables needed to be accomplished and Presented to the shareholders. In addition, any risks that might appear that can hinder The progress of the project and the dependencies and budget were identified.

In addition to the project charter, we also have to identify each team's scope for each phase Of the project. The scope that we set for each phase we're realistic in establishing clear boundaries and expectations for the project. Lastly, as we were assigned to different Teams we had to choose who among us will lead the teams in the project moving forward.

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DATE	May 6, 2025	AREA ASSIGNMENT	
TASK	Requirement Gathering and Documentat	SHIFT/TIME	7:00am-4:00pm

Requirement specification / interview

Today officially starts the first F2F session for our on the job training. At the start of the day, We had a quick meeting with Ma'am Vanessa, our stakeholder. During the meeting, she Reiterated the goal of the project that she wanted to achieve as well as gave us some insights Into the data. She also introduced us to the different locations of the office, also who and where To go to if we have any questions to ask regarding the data. After the meeting, we went to our Stations to start working on the requirement gathering.

Throughout the day, we worked on creating a presentation to clarify the system requirements, addressing the initial vagueness from the stakeholder and resolving our team's uncertainties. We worked on this presentation to be presented after lunch. After lunch, we conducted a Meeting with the stakeholders and were able to clarify the initial uncertainties of the project. After the meeting, we were assigned to interview different departments to familiarize ourselves With their data as well as identify any necessary indicators to be presented in the final output. I assigned to interview the hr department, so I conducted a formal interview with them and gained4 The necessary insights to their data

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DATE	May 7, 2025	AREA ASSIGNMENT	
TASK	Requirement Gathering and Documentat	SHIFT/TIME	7:00am-4:00pm

Tech stack

Today we were assigned to WFH, while another team goes to the office for F2F Work.

For our task today, we had to reaserch several technologies that can be used for the

Final output of the project. I conducted research on different technologies that can be

Used for the frontend and backend of our project. Through the research, We were able

To gain an idea for the possible tech stack that is compatible with project at hand.

After identifying a possible tech stack, we helped the second team come up with a presentation to

Present to the stake holders for the approval of our tech stack recommendation. The meeting

Centered on recommending possible tech stack to be used on the project as well as

Clarifying any questions we may have regarding the data of the company. During the meeting,

We were able to present our recommendations for the technologies to be used and also ask

Questions on the data the were uncertain of. The stake holders were able to provide us with any

Insights for possible alternatives for tech stack recommendation and answers to the uncertainty

We may have on the data.



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DATE	May 8, 2025	AREA ASSIGNMENT	
TASK	Technology Research and Selection	SHIFT/TIME	7:00am-4:00pm

For today, we looked into the possible alternative tech stack the petroenergy has recommended.

We research the different technology that should be used as an alternative for the project.

Taking into consideration the clients needs and requirement we evaluated whether these

Technology is a perfect fit for the project. By the end, we finalized tech stack that we will be using

For the project.

In addition, in preparation for next week, we had a meeting with petroenergy to get a little

More insights into the data that he will be processing and cleaning. We reviewed the ESG and

CSR data to formulate any question for the upcoming meeting. With the Q& A session with

The client we were able to get better understanding of the data. We learned about

The input frequency of the data and verify the available sources of the date. In addition, we

Were able to clarify each data's owner. We learned which department is incharge of each

Data and where we can find them in the office. Furthermore we learned about the data

Definition of the data. Through this we were able to describe and specify the structure, format

And meaning of the data.

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DATE	May 9,2025	AREA ASSIGNMENT	
TASK	Technology Research and Selection	SHIFT/TIME	7:00am-4:00pm

Finalize detail

For our WFH sessions for today, we compiled what each team did throughout the week to have a common understanding of the requirements of the final system. Each team met together via an online meeting to finalize the details of our project. We helped each other by answering any questions other teams may have regarding the project. We also chose which software development life cycle we plan to use for the development of the systems. We chose Scrum since it aligned with the goals we want to achieve with the system. Furthermore, during the meeting, we chose the members to represent key roles in the agile scrum methodology. Lastly, we planned what we task we will be performing the next week.

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DATE	May 13, 2025	AREA ASSIGNMENT	
TASK	Technology Research and Selection	SHIFT/TIME	7:00am-4:00pm

Database normalization (hr) /// sprint planning

During today's F2F work, we were tasked by our project leader to normalize the data that we collected To prepare it for the next phase of our project development. Since, I interviewed and collected the data Of HR, I had to normalize the data collected. In addition, a ERD diagram was made using the Normalized table. The ERD serves as a visual representation of each of the entities found in relation To the HR table.

Furthermore, As I was assigned as Scrum master of our project development. I planned out the task In preparation for the upcoming phase of development. I created a product backlog, a artifact in the scrum process, that outline the task to be performed that indicated by the user stories. In addition, the Priority of each task, as well as the which sprint it will fall under and progress started can be seen in The backlog.

Lastly, we conducted a presentation with the shareholders to recap what was accomplished last week, To give a detail plan on the data cleaning process and describe the software methodology that will be Used for the development phase of the project.



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DATE	May 14, 2025	AREA ASSIGNMENT	
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

During today's WFH session, we were tasked with finishing the bronze layer of our three part layer For our data architecture. The bronze layer that we were tasked to make consists of creating The tables to be used to load the raw data of PetroEnergy that we collected though-out the Data familiarization phase of our project. So throughout the day I created several SQL commands To define and create the table that will store the raw data without pre processing. Based on the Raw data of the department that I interviewed last week, I created five tables for the raw data of the Hr department. This tables consists of demographics, parental leave, tenure, training, and safety. The sql commands that I created were able to successfully define the tables and columns within The table with the correct data types.

After creating the tables, I had to create a stored procedure to batch load all the raw data into the Tables. The stored procedure helps in mass importing the raw data from each department into The tables. I was able to create a procedure that filled up the tables of the hr department.



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DATE	May 15, 2025	AREA ASSIGNMENT	
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

After working on the bronze layer, we moved on to the next layer of our data architecture which is the silver layer. The silver layer is where the raw data is pre processed and cleaned before being used in the gold layer to extract business insights. In addition, any derived columns were added from the raw columns in order to enrich the data for more meaningful insights in the next layer. Throughout the day, I was tasked with cleaning the data. I had to handle any missing values, remove duplicates, handle inconsistent values, and standardize the format to ensure the accuracy and consistency of the data.

In addition to this, since we had to create new tables for this new layer, we also had to create a stored procedure that can load the necessary data for the silver layer tables. This stored procedure was able to get and clean the data from the bronze layer then append them to the newly created silver tables. Any derived columns were also able to be loaded through the stored procedure.

However, because of the rigorous nature of the silver phase, we were not able to finish within the day and had to continue our work tomorrow.

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DATE	May 16, 2025	AREA ASSIGNMENT	
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

Today's WFH session, required us to finish the silver layer that we started yesterday and also Finish the gold layer of our architecture. At the start of the day, I had to work on the finishing Touches of our silver layer. Since majority of the work was accomplished yesterday, I was able To finish the remaining work of the silver layer quite quickly. After finishing the silver layer, I started Working on the gold layer. The gold layer was the culmination of our work in the data architecture. Here the data that was cleaned and processed was used for the specific business logic that Was required by PetroEnergy. Throughout the day, I created SQL commands the aggregated The data and calculated formula to extract the specific information that PetoEnergy is looking for.

After, similar to the other layers, I created a stored procedure to get the data from the silver layer Tables and extract the necessary information. Since this was the final layer for the task at hand, We had to meet with the stakeholders, in order to show the product of our work. In the meeting, We had to present the gold layer for each department as well as ask any questions we might have. We presented the gold layer of the Hr department.



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DATE	May 19, 2025	AREA ASSIGNMENT	
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

For the day, we started by finishing the gold layer for our department. We followed a star schema, Where we have a main fact table that contains all the measurable data. Then, we created several Dimensions table that contains descriptions giving context to the fact table. Through this approach to Data warehousing ,we are able to simplify our queries for data analysis. So, we started working With the schema for the hr department. We created the fact table that will hold the measurable Data of the hr department, then the dimension table that give context to the fact data.

After creating the the star schema for the hr department, we created the ERD diagram for Each department. The ERD diagram is used so that we can visually represent the databases That we will use as well as their relationship. Several ERD were created representing each Output tables from the bronze,silver, and gold layer of our data architecture.

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DATE	May 20, 2025	AREA ASSIGNMENT	
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

During our F2F work session for this Tuesday, we had to present our ERD design of the entire Team's database. So we finished working on the different ERD used for the system. With the Data warehousing of petroenergy being complete, we created a finalized ERD that would Be presented to our stakeholder. As we are the team in charge of presenting progress every week, We had to finalize the ERD and ensure there were no errors before presenting to the stakeholders.

Furthermore we had to create a reporting and presenting plan, that we will use in the design Of the web app. We had to create a simple draft of the charts and the visualizations that Will be used in presenting the data in the app. As we were in charge of the HR department, We created a reporting plan that we will use in Hr section of the app. We created our draft Using excel, we made use of excel's pivot chart to create a sample visualization to present to The stake holders.

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DATE	May 21,2025	AREA ASSIGNMENT	
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

For the workday today, we had to reevaluate the gold layer that we created previously. As we had noticed areas for improvement, we started the day working on our gold layer. We added several new SQL statements, that we thought would be useful for the web application moving forward. By revisiting what we created earlier, we had to determine what scripts were truly useful and whether additional scripts were needed for the reporting of the data. We decided on adding four more scripts that could be useful for extracting the data in key areas of the HR department. We evaluated that the previous scripts we created still held value for reporting so we kept them in the final gold layer. However we realize that by adding these four scripts, we can extract the data better with additional context and information for reporting.



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DATE	May 22,2025	AREA ASSIGNMENT	
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

For the day, we created the functions that will allows the filtering of the sql statement created in the gold layer. Although we had already created the ddl for queries used for getting data from the database, we created additional statement that could help in the the filtering of the Data. So we created these scripts taking into account how we would want to filter the data.

Furthermore, we also finalized the gold layer of the hr department. We completed the finishing touches of the gold layer for our section. We accomplished the gold layer that we will use for the reporting and analytics of the data.

Lastly, we began the drafting of the UI of the web app. We created wire frames that will serve as simplified visualization of the web app before more details are added. We started creating the layout that will be seen in the dashboard of the hr section.

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DATE	May 23,2025	AREA ASSIGNMENT	UI Layout Creation
TASK	Data Modeling and Database Design	SHIFT/TIME	7:00am-4:00pm

Ui for dashboard

For the day, we created the UI for the dashboard of the section that we were in charge of. Since. We were in charge of HR, we had to create a dashboard that will be seen by the users When they first open up the app. From the draft of the reporting and analytics plan that we Created previously, we had to reevaluate the key kpi and chart that would be presented in The dash board of our web app. So we chose the key kpi and charts that would provide the Stakeholders with a visual overview of the most important information that we believe should Be presented.

After identifying the key kpi and chart, we began drafting the layout of the dashboard for Each department. Using Figma we created a layout of the dashboard for the HR section. We created the layout of the dashboard with the most important information at the top then Followed by any additional information below. By the end of the day, we had all created The layout of the dashboard for each section of the app.

In addition, we also planned what we will be doing next week.



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DATE	June 2, 2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

We officially begin the start of the Phase 3 of this project. This phase focuses on the system development and implementation based on the requirement gathered from the clients during the previous phase of the project. Each group began the development of their assigned department with one member focused on the backend and another on the front end. For the HR Department my team agreed that I would be incharge of the frontend of development. Although I usually manage the backend in my previous projects development, I decided to take charge of the frontend just to step out of my boundaries and gain valuable knowledge. So as the developer incharge of the frontend of the hr development, I had to adapt and learn what I needed to know about React and Materials UI, since till now I have not yet used this techstack in any of my previous project. Nevertheless, I was able to overcome this challenge and I gained new knowledge on an additional techstack that I can use in my portfolio for future use. After getting the basics of the frontend UI, I began developing the rough prototype of the different sectors of the hr department. I began by first creating the employability repository for the hr department. In addition to this, I also created the first add record modal and bulk upload modal ui that I will be using in the repository page.



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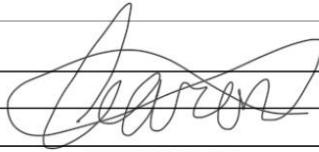
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DATE	June 3, 2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

For the next day, we continued focusing on developing the initial iterations for the development of the repository page. As I was able to finish the initial development of the employability section for the repository of the HR department, my goal for today was to finish the initial prototype of the remaining sections of the HR department. In addition to the employability section, the HR department also had other sections namely, parental leave, safety work data, training, and occupational safety health. I wanted to be able to finish the development of the repository pages for these sections. I began with creating the parental leave repository page. I didn't have much problem creating this page since the design was similar to the first employability repository that I made yesterday with some minor changes to the table and data. So all I had to do was copy and make some minor adjustments to the parental leave repo. In addition, I had to create the add record modal for this repo. The data that was collected and stored in this repo was different to the employability add record modal, so I had to change the textbox in order to accommodate the data collected in the parental leave add record. I was able to accomplish the same task for the other sections of the HR department. I finished the development of the repository page of the parental leave, safety work data, and training. However, I was not able to finish the repo for occupational safety health. Nevertheless I was able to make great progress in the development of the repo pages and add records for the remaining sections of the HR department.



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DATE	June 4, 2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

The subsequent day, I had the goal of finishing all the initial prototype for the repo of the hr department. I began with finishing the last repo that I was not able to accomplish yesterday which was the occupational health safety repo. I quickly copied the template of the previous developed repo with some minor adjustments in order to accommodate the data of the occupational health safety data. I also adjusted the add record modal to handle the data collected for this repo. After creating a base repo page for all the sections, I added upon them by creating additional functionalities to them.

So I began by first creating the filters so that the user can filter data based on their criteria. The implemented filters of the data was able to work and filtered the data based on the selected data. I created the filters for each repo in the hr department. In Addition to the filters, I also created a search bar that allowed the user to search for specific information from the repository pages. Lastly, I added page buttons that allowed the user to navigate through the different repos in the Hr department.



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DATE	June 5, 2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

On the next working day, I continued by adding some additional features to each repo page. One such change was the addition on the export data. This function allowed users to export the data currently seen in the table. I had a little trouble implementing the export function with the filters allowing the user to export only the filtered data. But, I was able to resolve this issue and fixed the export functionality with filters. Moving on, I made some changes to the update modals for each repo, in order to match the design and layout of the other departments. The text boxes remained the same, But I added additional headers and titles of the modal. I also finished creating the first prototype of the view modal, that allowed users to view selected record. For each repo, I finished the development of UI for the view modal. I also had to update the UI of the add record modal to match the design of the other department. Similarly to the update modal, the text boxes remained the same, but I added additional headers to the modal so that the user can correctly identify which modal is opened.

In regards to the data in the table, I updated time columns to remove the time from the datetime since the database also stores the time in date. I removed it so that only the date can be seen in the table. I also removed it from when searching a date in the search box.



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DATE	June 9,2025	AREA ASSIGNMENT	Hr Department-Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

Progressing to the following day, although I finished the development of the frontend of the different modal used in the repos. They still remained nonfunctional as I had to wait for the backend api to finish. One such challenge faced in this project is that there were cases where the UI was finished but remained non functional as the backend api was not yet completely. I was able to overcome this obstacle by focusing on the development of other UI elements as well as helping out with the backend, if I had nothing to accomplish. So as I was waiting for the api development, I updated the import modal for bulk upload to match the design of the other departments. Since the api to download the template of the bulk import was accomplished, I also added the functionality that allowed the users to click a button and download the template of the bulk import of the data. I also added validation logic in the frontend for the handling of the data throughout the different modals. In the employability record, I also added additional columns to the table that I overlooked when I first made the repo. The start and ended for tenure was added to the column of employability.



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DATE	June 10,2025	AREA ASSIGNMENT	Hr Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

The new day was focused on adding the database functionalities to the frontend. As the backend api for the different actions in the repo was about to finish, i began adding the backend api calls to the frontend. I began by fixing the the add record functionality for the individual insertion of data. Now when users add a record to the repo, the data is added to the the databse via the api calls. In addition to implementing the backend api call to the add record modal, I also made some minor fixes to the ui of the modal. A challenge that was occured in the hr department, was that when adding a record the data in the repo would all disappear. We struggle to understand why this problem occured, but with our determination, we were able to resolve the issue. We found that there was an error in the loading procedure that we created in the previous phases. Because of this error when adding the data to the db, it would only add to the bronze layer and wouldnt load to silver, that contains the data seen in the repo page. We fixed this by adding upserts into the load procedure from bronze to silver. Next I focused on implementing the backend api calls to the update. There were minor issues where the data was not updating but that was because the backend call didnt use the same column name as the one in the database. After fixing this the backend was able to function as expected. I also fixed an issue where once a user is added or updated, the table does not reload to show the data changes. Instead the user would need to manually refresh the page to see the changes. I made the fix by automatically reloading after performing a data change.



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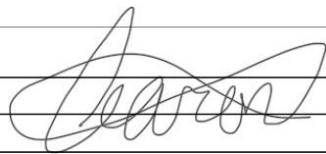
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DATE	June 11,2025	AREA ASSIGNMENT	Hr Department-Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

Moving into the next day, I began working on the layout of the dashboard UI. In order to keep track with the sprint plan, I began working on the dashboard ui despite needing to make some minor improvements to the repo. I added the routes that would lead to the dashboard page for hr. In addition, I also added the Ui that would display the KPI needed to be seen by the hr department, Although the data currently displayed in just a regular text as a placeholder since the backend api to get the kpi from the database is not complete. After laying the groundwork for the dashboard UI, I went back and set my focus on fixing the bugs and necessary improvements to the repo pages. I made some changes to the Ui of the update modal as well as some fixes to the backend api call of the update modal.



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DATE	June 13,2025	AREA ASSIGNMENT	Hr Department-Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

The day that followed, we had a meeting the petroenergy group to present our progress as well as gain some feedback for our work. There response was the our progress was going well and gave some minor feedback for changes that we will incorporate to our development of the project.

I continued working with the dashboards for the hr department. I added the charts that will be seen in the dashboard albeit the data used for creating charts consists of dummy data as the backend api to get the data has not yet been completed. After I made some changes to the repo.

I added the correct status when adding a record or updating it. Now when performed it shows the correct status in the repo table. I was able to accomplish the repo for the employability, parental leave and training sections of the hr department. I still need to completely finish the safety work data and occupational health safety sections. Moving back to the dashboards I fixed the layouts of the charts so that It matched the figma design that was developed during the last phase. I also added and removed some KPI based on the feedback with meeting that was conducted earlier. Some charts and KPI was deemed not necessary so we opted to remove and replace them with some more valuable charts or KPI.



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DATE	June 16, 2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

For today, I continued working on the dashboard page of the hr department. The current dashboard displayed data that was inaccurate and meant to be a placeholder since the backend api to get the data from the database was not yet complete. So for today, I aimed at being able to populate the charts with data that was accurate and represent the company's actual operations, and not just some placeholder data. So as I was waiting for the frontend to complete I created mechanism in my code that would be able to get the data and use it for the charts. With this mechanism, all I needed was to put in the api then I would be able to populate the charts. little by little, as my teammate was finishing the backend api for each charts, I would update my frontend to use the backend that mt teammate finished to populate the charts. By the end of the day, we were able to create a dashboard that fully represented the company and the data that was stored.



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DATE	June 17,2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

The day after, I continued with the development of the hr department UI. Since majority of the frontend has already been completed, I plan to spend the remaining days fixing minor fixes with the UI to further refine the system frontend. So I began refining the dashboard. My first fix was to resolve an issue where the charts would not be displayed. I was able to fix the charts so that each charts is properly displayed when going to the dashboard page of the hr department. Next, I added a feature that would allow the user to click on the charts so that it would enlarge the charts. This was part of the requirements that was gathered during the previous phase. Another requirement that was added, was the ability to download the charts that was displayed on the dashboard. So I added a download button to the modal of the enlarged chart that would download the chart when clicked. After that, I added a refresh button to the dashboard page that would update the charts based on the updated data. When clicked, the date timestamp that shows when the charts was last updated to show which data would be refreshed and updated to show current data. Lastly, as another feature added to the dashboard, I added filters. These filters allowed the user to filter the data by company and time frame to display the charts based on the criteria that they set upon.



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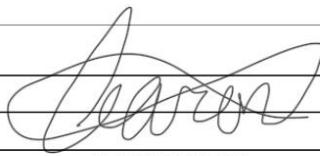
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DATE	June 18,2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

For Today, We continued fixing the website as the time period for the UAT approaches near.

Firstly, we started with fixing the dashboard page. Based on the feedback given to us previously, the shareholders of petroenergy wanted the data to be able to be seen in one screen for each department. So I made the charts take up the entire screen size. Now It will adjust to fit the screen and wont be scrollable unless on really small screens. Next we found an issue in the backend where certain table would not add due to a schema mismatch. We fixed the problem by matching the schema in the backend to the database. After, I added the a small text at the bottom right of the table that would show the number of records selected and as well as what each page's data shown. After, I added a modal that would pop up when a data that was added was updated as revised. This modal will pop up and contains a textbox that would allow the user to add remarks as to why the record has been set to revised. I also added validations that would prevent any faulty inputs such as blank. When an error occurs an error modal pops up informing of the error. Then when the remark inputs was successful a success modal will appear.



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DATE	June 19, 2025	AREA ASSIGNMENT	Hr Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am-4:00pm

For today, I continued the development of the website by minor fixes. One such minor fix that I did Today was the implementation of validation logic. I added validation logic to all input fields that Is requires input from the user. I made sure to take into account all types of misinputs the user Could possibly make. In addition, I added a modal that would inform that would pop out when A misinput has occurred. The modal will inform the user of their mistake and which field the mistake Has occurred. A success modal will appear if there are no mistakes and the information has been Submitted successfully. I added these validation logic and UI to both the update and add record modal For each of the hr department sections that require user input. Another fix that I implemented was For the updating the fields of the date. In both the backend and frontend when the date is changed Via the calendar textbox, the dates would not update. In the frontend, I fixed this by creating a separate Function that would handle the changing of data for date information. Next, for the backend, the issue Resolved by standardizing the date into a ISO format so that it will be accepted by the database.

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DATE	June 20, 2025	AREA ASSIGNMENT	HR Department- Frontend
TASK	Application Development	SHIFT/TIME	7:00am to 4:00pm

At the start of the day, I focus on fixing the flow of the added data. I removed site checkers status since during the requirement gathering the client said that there will be no site checker for the HR departments because all the HR data is processed at the head level office site.

Now the flow of the input data goes from "Under review (Head Level) to "For revision (Head Level)" to → "Approved."

Next a minor fix that I performed, is that when clicking a date field then clicking another the first calendar textbox would not close and remain open while the second textbox is still open. Now, When clicking a date textbox, it will close any currently opened calendar textbox before opening a new one.

In regards to the charts dashboard, I added guides to pie chart that will allow the user to easier read the data. Now there are tooltips to the pie charts that will help the user better interpret the data. In addition, I also enlarged the KPI text based on the feedback of the clients. During the meeting with the client, they noted that the KPI text was too small. Now they have been adjusted to better be visualized in the dashboard. For the frontend, the hr department repository and dashboard is basically done. Now, I'm preparing for the testing that will happen next week as well as looking for bugs that I have overlooked.



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DATE	June 23,2025	AREA ASSIGNMENT	HR Department- UAT Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am to 4:00pm

With the application development being complete, for the week the focus of our tasks will be the conducting of testing of the developed application. While we didn't have test cases yet for the HR department and we could not yet conduct UAT testing with clients that will use the application, I performed some unit testing, integration testing, and system testing of the HR department. I made sure that all actions that can be performed are working as expected and follow the user requirement specification. I made sure that all the buttons perform what they are expected to perform. I also tested the navigation to ensure the HR department's navigation leads to the correct routes. I checked if the database is being updated with the user's actions. And I also made sure that the correct modal appears depending on the action performed. So far, I have not found any bugs yet that would require fixing in the main functionalities of the application.



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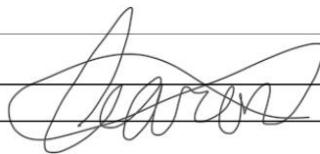
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DATE	June 24,2025	AREA ASSIGNMENT	Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am to 4:00pm

For today, I continued conducting the testing for the application. Supposedly, our group was meant to go to the office today for F2F work however in preparation for conducting the UAT Testing, Group 3 went to work today to deploy the application in the servers of PetroEnergy. So instead, our group will go to work on Thursday to conduct the UAT testing, of the department that we are in charge of. As I continued the testing of the HR Department, I checked the role based access to the HR Department. I found a bug that needed my immediate attention to fix. The main problem was that certain roles were able to perform actions that were not meant for them to be performed. For instance, the Executive was able to perform the adding of information when they are meant to just view charts. Another was that encoder was able to change the status of inputted data when they can only add information to the repository. I fixed this issue and now roles are able to perform functions that they are meant to perform based on the requirement specification.



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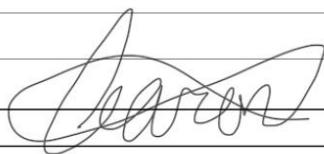
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DATE	June 25,2025	AREA ASSIGNMENT	Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am to 4:00pm

For today, I created the test cases that will be used for the UAT testing of the HR Department section.

The goal was to ensure that the application's key features are covered from an end-user perspective to validate functionality, usability, and overall business process alignment. I made sure that each test case was clear, with the right inputs, expected outputs, and aligned with the actual flow of how users will interact with the system. I also organized the test cases by roles to keep things structured and easier to follow during execution. Overall, I focused on making test cases as realistic and complete as possible to help catch any issues before going live for actual use of the client.



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DATE	June 26,2025	AREA ASSIGNMENT	Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am-4:00pm

Today, as mentioned in my previous journal entry, I went to work to the office for F2F session.

I was expecting to conduct UAT testing for the HR section, however due to conflicts of schedule we were not able to complete it today. When we went to the office, we asked our supervisor who will we be conducting UAT Testing with. So our supervisor had to coordinate with other employees to see which were free to conduct the UAT Testing. Unfortunately, due to their busy schedule, no one was able to conduct the UAT testing. As such, we consulted our supervisor and he suggested that the UAT testing be conducted either online or moved to next week with scheduled appointments with certain employees. As result, the UAT for the Hr department was not able to be completed. Instead, our team just pulled the latest push to the github repo to update the deployed application in the petro energy server to have the deployed application be the latest iteration with the last minutes changes and any bugs found during the testings.



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DATE	June 27,2025	AREA ASSIGNMENT	Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am to 4:00pm

For today, I changed the format of the UAT test cases based on the feedback we received from the clients yesterday. Originally the test cases were made in word, with numbered lists of each task that they needed to be performed. However, the client said that they would prefer that the test cases be in excel with separate sheets for each role. This helps to better structure the UAT test cases separating task by role making it easier for the test user to read the test cases. So I transformed the original test cases in word to one that is in excel and separated by the roles.

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

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DATE	June 30, 2025	AREA ASSIGNMENT	Documentation
TASK	System Documentation	SHIFT/TIME	7:00am-4:00pm

I began the day writing the User Manual. The user manual is a guide on how to use the developed System. I focused on writing parts that involved the HR department. I wrote taking into account The users to ensure that they could easily understand, navigate and use the system. Within the manual, the important terms, button names, and menu items related to the hr department We're highlighted in bold to better emphasize this items. I included warning boxes to highlight any Critical actions that require immediate actions. Tip boxes were also included in the manual That informed the users of suggestions and best practices. And any additional and supplementary Information were contained in not box. By developing, the user manual the user is able to Understand the system and how to properly use it.



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DATE	July 1, 2025	AREA ASSIGNMENT	Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am-4:00pm

As mentioned in my journal last week, because of the conflict of schedule with the users meant To conduct the UAT, it had to be moved to this week. So for our F2F work session today, we Conducted the UAT. Because others group was not able to finish their UAT, our group had to Also interview other departments for the UAT. Each member of our group was assigned one Department for UAT Testing. I was in charge of UAT testing for the HR department. Our Supervisor informed me that the UAT was scheduled for the afternoon, so in the meantime I continued writing the User Manual as well as checking for bugs in the system. Before the UAT, we redeployed the latest punch of the system to the GitHub repo, to handle any changes that Were made to the system. At afternoon, I had to conduct the UAT with a member of the Hr Department. I had a one-on-one with her and carefully guided her through the test case. I thoroughly documented any feedbacks that she had towards the systems. By the end, I showed Her each functions of the system and documented which cases passed.

A handwritten signature in black ink, appearing to read 'Daron'.

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DATE	July 3, 2025	AREA ASSIGNMENT	Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am-4:00pm

After getting the feedback with the HR department, I quickly made changes to the application.

The feedback that I received from the HR department representative was that they wanted Tooltips added to the navigation bar and they wanted so the Head Level checker cannot add Any data, only the encoder. We added tooltips to the navigation bar that when collapsed and the Mouse is hovered over an icon, a tooltip will appear showing the name of the icon. In addition, I made changes to the actions that the role head level checker can perform. So now, their Only job was to accept and reject inputted data. Before, in addition to accept and reject, they Were also allowed to add or import data. Now, only encoders can perform this action. The feedback that was gathered from the UAT of the hr department was implemented And used to improve the system to fit the preference of the actual users of the application.

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DATE	July 4, 2025	AREA ASSIGNMENT	Testing
TASK	Testing and Quality Assurance	SHIFT/TIME	7:00am-4:00pm

My groupmate conducted UAT on a safety officer, and gained feedback for the safety work

Data and occupational safety health section of the hr department. Since I was in charge of the HR department, I had to improve these pages based on the feed back received.

First changes I worked on was that they wanted the data seen in the repository table for encoders

To only be from the same company they worked in. So we made some minor adjustments to the API to allow the passing of the company to get only the day from the company. In the frontend, I had

To get the company of the current login user and pass it to the API call to get the data.

Next I changes the yes or no field in the OSH lost time record from dropdown to a radio button.

I also change the format of the date to make the input monthly. Now for dates, users must input month

And year (MMMM yyyy) format. I also fixed a bug where inputted date would not be seen in repo

And the number of selected record not shown. I was able to fix the website based on the input

Of feedback for the safety work data and OSH data.

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DATE	July 7, 2025	AREA ASSIGNMENT	Presentation
TASK	Project Closure and Reporting	SHIFT/TIME	7:00am -4:00pm

Today , I helped on creating the presentation that we will be using on tomorrow reporting.

A meeting will be held with petroenergy as well as sir Ronald Mesina to showcase the output of our work. the presentation was created highlight necessary information that we would want to chow case. Additionally ,some last meet additions were added to the website. Although, seen as a low priority task, becasue of some extra time, we were able to implement an audit trails. So I had to add audit logs to each tasks the user can perform. Each action in the hr department now added a audit log to the database whenever a user performs a action. The information that is audited includes the user who performed the actions, date, action performed, and the old and new value of the data as a result of the action. Now an additional layer of security was added to the site with the help of audit logs that tracks action.



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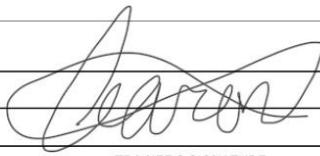
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DATE	July 8, 2025	AREA ASSIGNMENT	Presentation
TASK	Project Closure and Reporting	SHIFT/TIME	7:00am -4:00pm

In the morning ,we prepared for the final presentation that will happen in the afternoon. So we quickly deployed the latest and last push committed to the git hub repo of the website and updated the database. We skimmed the Manual and website for any errors or bugs, before the presentation of the final output. Also in the morning, the professors in charge of us students came to the office to conduct the company visit. They examined the work environment thoroughly to see if the work environment was appropriate for the students to learn. Through the visit They are able to ensure that the trainees were engaged in meaningful and relevant tasks aligned with their academic program. After the evalution, we had lunch in a restaurant with our supervisors, as a final celebration for the job that we were able to accomplish. Then in the afternoon, we conducted a meeting with clients of petroenergy and Sir Ronald Mesina, showcasing our final output throughout our OJT. We presented important processes that we took to accomplish the task as well as had a live demonstration of the system. Overall they were very pleased with the work that we accomplished during our OJT.



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