



COLLEGE OF COMPUTER AND INFORMATION SCIENCE

Academic Year 2024 – 2025

CS199F (CS PRACTICUM) NARRATIVE REPORT

Submitted by:

Jezreil Velasco LUMBERA

Submitted to:

Professor Jonalyn G. Ebron

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

PetroEnergy Resources Corporation (PERC) is a publicly listed energy company in the Philippines and is part of the well-known Yuchengco Group of Companies (YGC). It was established in 1994 with a primary focus on oil exploration and development. Over the years, the company expanded into renewable energy and power generation, contributing to the country's shift toward clean and sustainable energy sources. The company's head office is located at the 7th Floor, JMT Building, 1600 ADB Avenue, Ortigas Business Center, Pasig City, Metro Manila.

PERC continues to follow its business principles, which include careful project selection based on technical studies, forming partnerships with trusted companies, and managing risks through wise use of capital and strong business practices. Its renewable energy projects are handled by its subsidiary, PetroGreen Energy Corporation (PGEC), which holds investments in several joint ventures. These include Maibarara Geothermal, Inc. (MGI), PetroWind Energy Inc. (PWEI), PetroSolar Corporation (PSC), Rizal Green Energy Corporation (RGEC), Dagohoy Green Energy Corporation (DGEC), Bugallon Green Energy Corporation (BGEC), San Jose Green Energy Corporation (SJGEC), Limbauan Green Energy Corporation (LGEC), Buhawind Energy Philippines (BEP), Buhawind Energy Northern Mindoro Corporation (BENMC), Buhawind Energy East Panay Corporation (BEEPC), Buhawind Energy Northern Luzon Corporation (BENLC), and EcoSolar Energy Corporation (ESEC). Through these projects, PERC continues to support the country's growing energy needs while promoting the use of renewable and sustainable power.

Nature of Assignments

Our internship project at PetroEnergy Resources Corporation (PERC), aimed to address the issue of scattered data and manual visualization methods, which made it difficult for the company to make quick, accurate, and efficient data-driven decisions. The proposed solution was to develop a centralized database and dashboard system that would allow all joint ventures and power plants to store, access, and visualize their data on a unified platform.

The project was assigned to a group of ten student-interns, which was later divided into three teams. Each team was assigned to focus on a specific department: power generation, environmental, economic, and social data. I was part of Team 1, which was responsible for handling the power generation department.

For the database aspect of the system, we used the medallion architecture for data warehousing. This structure included three layers: bronze, which held raw data; silver, which contained cleaned and pre-processed data; and gold, which consisted of business-ready data that the web application would retrieve and display. My main task involved creating stored procedures in PostgreSQL to load data from bronze to silver. I also developed SQL functions that allowed the system to retrieve relevant information directly from the gold-level tables.

For the backend, we used Python's FastAPI to build the API routes that handled GET and POST requests. These routes supported data entry, retrieval, and updates. To test and verify the correctness of the routes I developed, I used Postman to check if routes are working as expected. This tool helped me test my routes quickly.

Throughout the OJT, we held daily meetings to track progress, discuss concerns, and coordinate between teams. I primarily worked alongside one of my teammates, which made the development smoother. We also communicated frequently with people from the office for data gathering. Our supervisor guided us throughout the project, especially in aligning our work with real-world industry needs.

Through this project, I was able to apply my knowledge of data analytics and web development. Although I had some prior experience in backend development, I was less familiar with front-end work. However, this project gave me the opportunity to contribute a small portion to the front end, allowing me to expand my skill set beyond my comfort zone.

Total Hours Rendered

Throughout the duration of the on-the-job training, a total of 384 hours was rendered. These hours were accumulated through various tasks, including project planning, development, testing, and documentation. The time spent was distributed across several weeks, allowing for consistent progress.

Table 1. Project Milestone

Activity	Target Completion Date	Actual Completion Date	Total Hours
Project Kick-off and Scope Definition	April 29, 2025	May 2, 2025	32 hours
Data Familiarization and Analysis	May 2, 2025	May 2, 2025	
Requirements Gathering and Documentation	May 7, 2025	May 9, 2025	40 hours
Technology Research and Selection	May 9, 2025	May 9, 2025	
Data Transformation and Cleaning Plan	May 16, 2025	May 16, 2025	32 hours
Data Modeling and Database Design	May 19, 2025	May 21, 2025	24 hours
Analytics and Reporting Planning	May 23, 2025	May 23, 2025	16 hours
User Interface (UI) Design	May 23, 2025	May 23, 2025	
System Architecture Design	May 23, 2025	May 28, 2025	24 hours
Development Environment Setup	May 28, 2025	May 30, 2025	16 hours
Database Development and Data Migration	June 9, 2025	June 9, 2025	40 hours
Application Development	June 17, 2025	June 23, 2025	72 hours
Testing and Quality Assurance	June 20, 2025	July 3, 2025	56 hours
System Documentation	June 25, 2025	July 3, 2025	
Training Material Development	June 27, 2025	July 8, 2025	32 hours
User Training and Handover	July 2, 2025	July 8, 2025	
Project Closure and Reporting	July 4, 2025	July 8, 2025	

Presentation of Output

Database

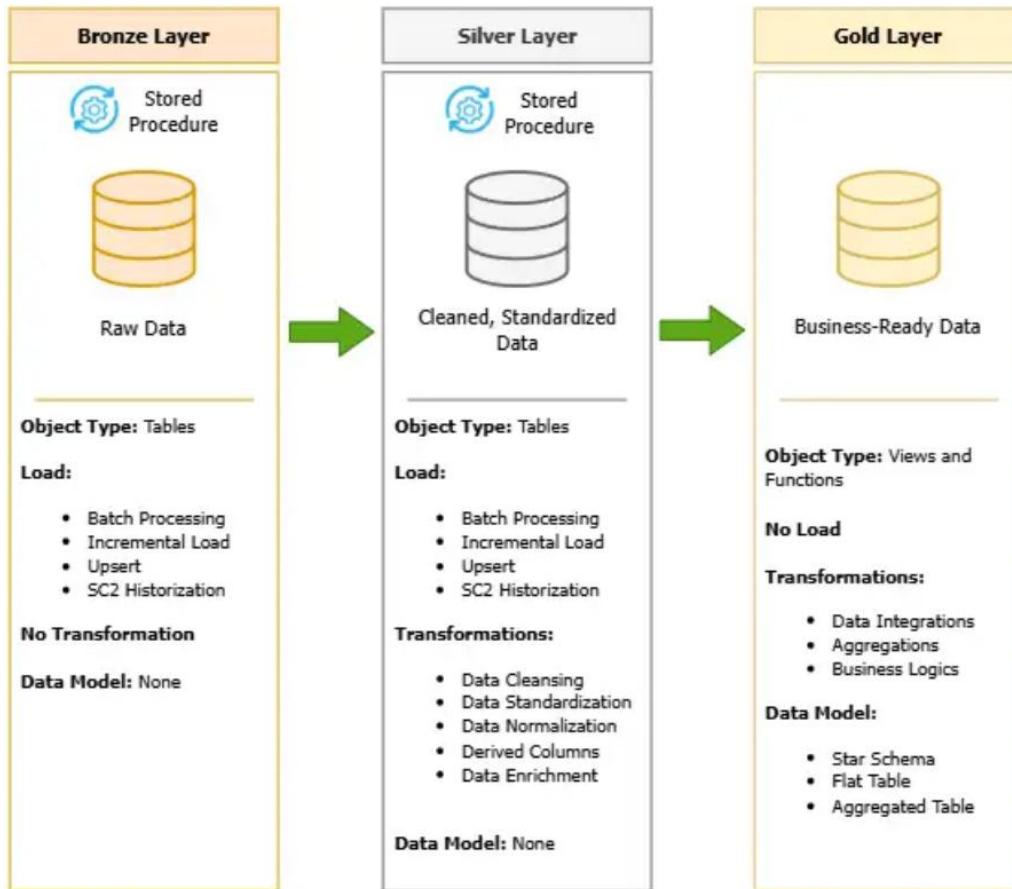


Figure 2. Data Architecture

To support the centralized system for PGEC's data management, our team designed and implemented a data warehouse following the medallion architecture that can be seen in Figure 2. This structure consists of three layers, bronze, silver, and gold. Each of these layers has a specific purpose in organizing and preparing the data for analysis and visualization. We used PostgreSQL as our main database system.

Bronze Layer

The bronze layer is where we store the raw data received from the departments. Most of this data was given to us in Excel format. My task in this layer involved creating table for energy records and writing stored procedures that load and insert raw data

from Excel into the appropriate tables. Figure 3 summarizes the flow the stored procedure to insert data into the bronze layer with excel file as the source.

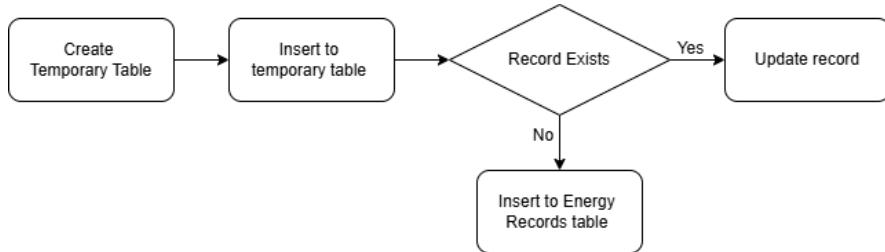


Figure 3. Insert or Update Data in Bronze Layer

Silver Layer

The silver layer contains cleaned and pre-processed data. My role here was to create a table same as the table for energy generated in bronze but with an additional column for computed CO₂ avoidance. Also, part of my task for this layer is to create stored procedures that filter, clean, and transform the raw data from the bronze layer. This involved converting data types and ensuring consistency across records. The flow of loading from bronze to silver layer is shown in Figure 4.

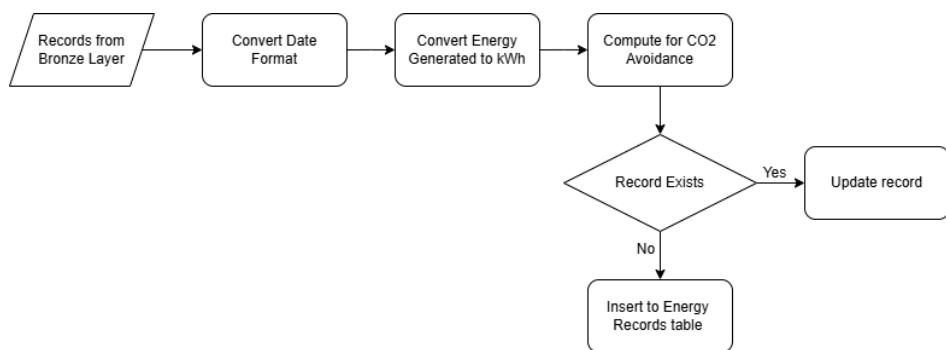


Figure 4. Loading from Bronze to Silver Layer

Gold Layer

The gold layer contains business-ready data that is directly accessed by the dashboard and API. In this layer, I focused on preparing data that was already cleaned and transformed from the silver layer, making it ready for analysis and presentation.

One of my main tasks in this layer was creating SQL views to simplify data access and improve performance. I developed a dimension view for the power plant profile, which stores static information such as plant names, locations, type of energy generated, and other attributes. I also created a fact table that stores records of energy generated, which is based on values from the silver layer.

To make this data easily accessible to the API and frontend, I built several PostgreSQL functions. These functions allow filtered retrieval of records from the gold layer. Specifically, I created:

- A function to return data from the fact table of energy generated with filters for date range, power plant, or company.
- A function that returns a table showing the number of households powered, also with filtering options.
- A function that returns data related to fund allocation, also with filters for category, power plant, or time.

These functions play a key role in ensuring the system can retrieve only the necessary data based on user what the users wants to see, making the dashboard interactive and dynamic. By organizing the gold layer with views and reusable functions, we ensured the system would remain scalable, efficient, and easy to maintain.

API

To connect the database to the web application, we used FastAPI to develop the backend services. The API allows the system to interact with the database by handling requests for adding, retrieving, and updating records.

GET requests

For GET requests, I created API routes that retrieve processed data. These routes include retrieving energy records, which provide historical data on power generation across different plants, and retrieving fund allocation data, which is displayed in the dashboard. These routes call SQL functions allowing users to filter results by plant, category, or date range. The responses are formatted in list of dictionaries. Figure 5 shows an example of a GET request using Postman.

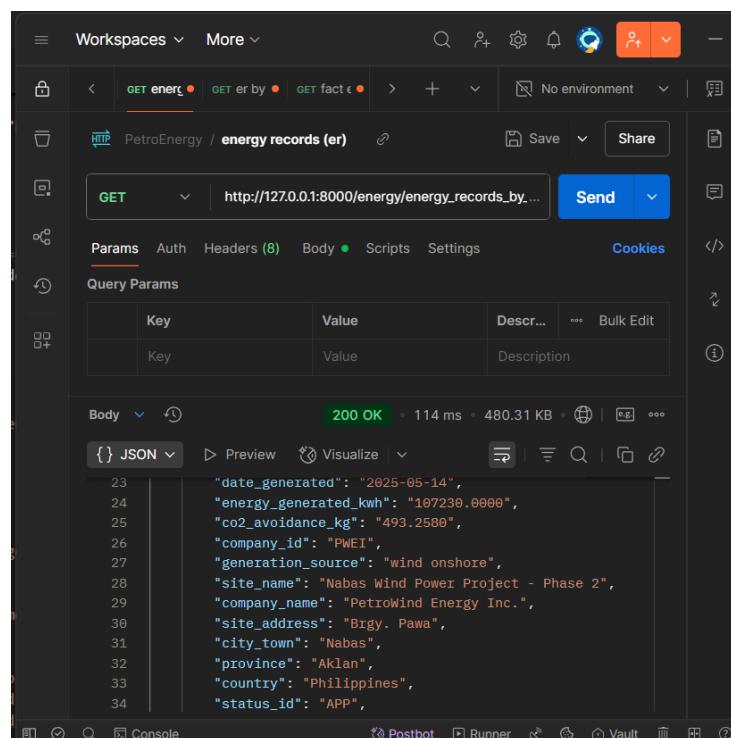


Figure 5. GET Route for Energy Records

POST requests

For POST requests, I implemented three functionalities: adding a single record, adding records in bulk, and editing existing records.

For the single record entry, the process begins by receiving input data from the user. The route first checks if record already exists in the database to avoid duplication. If a duplicate is found, the system returns an error message. If not, the route proceeds to generate a new unique ID, create a new record, and insert it into the bronze layer. Once the data is stored, a stored procedure is automatically called to load the data from the bronze layer to the silver layer, where it is cleaned and prepared.

For the bulk record entry, the route first checks the uploaded file type to ensure it is valid. After validating, the file is opened and converted into a dataframe using Pandas. The route then checks if the columns in the file match the required format. For each row, the system generates a unique ID and determines whether it is a new or existing record. If a record already exists, it is updated; otherwise, it is inserted as a new entry. All records are stored in the bronze layer, and the stored procedure is triggered to process and move the data to the silver layer.

For editing records, the route retrieves the existing record. It then applies updates to the bronze layer. After editing, the updated record is again processed by the stored procedure to reflect changes in the silver layer.

To verify the functionality of these routes, I used Postman to test and simulate real requests. This allowed me to check the status codes, review API responses, and ensure proper error handling. Through this process, we ensured that the system could reliably manage data submission, update, and retrieval, while maintaining data consistency and flow across all layers of the architecture. Figure 6 shows an example of a POST request to add record using Postman.

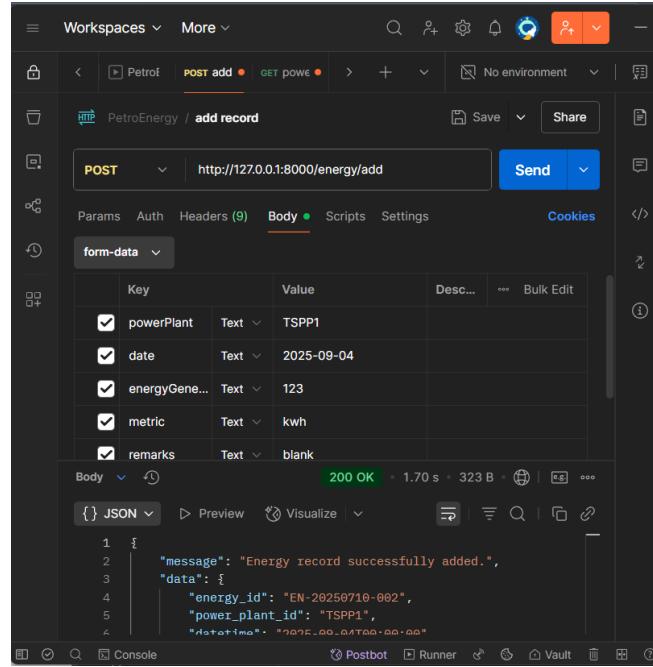


Figure 6. POST route for adding record

Petro Dash

Petro Dash is the name of the web-based dashboard we developed to provide users with a centralized platform to view, analyze, and manage their data from PERC's joint ventures and power plants. The dashboard displays key metrics such as power generation output, fund allocation, estimated household powered and many more, enabling users to make data-driven decisions through clear and accessible visualizations. ReactJS framework was used for the front-end of the webapp. Figures 7 to 13 shows screenshots of the core parts of the website.



Figure 7. Landing Page

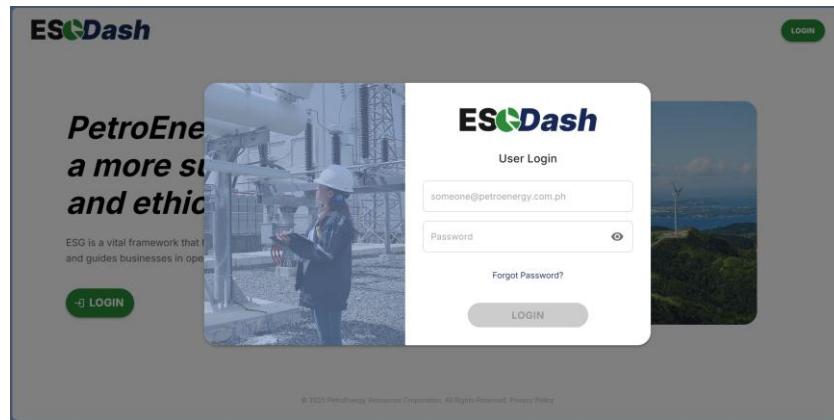


Figure 8. Login Page

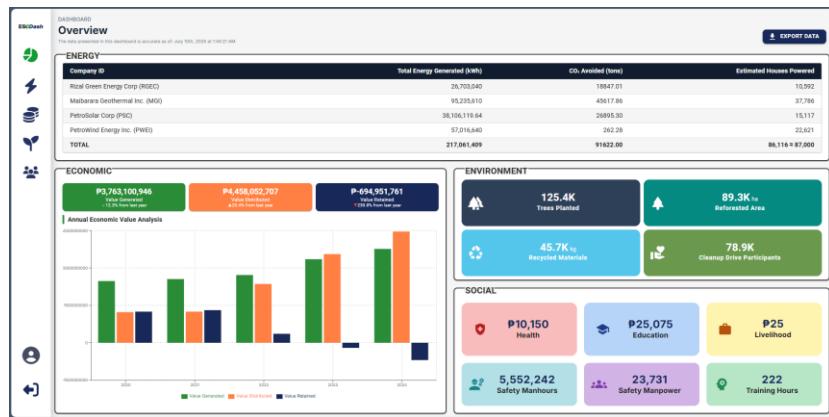


Figure 9. Overview of the Dashboard

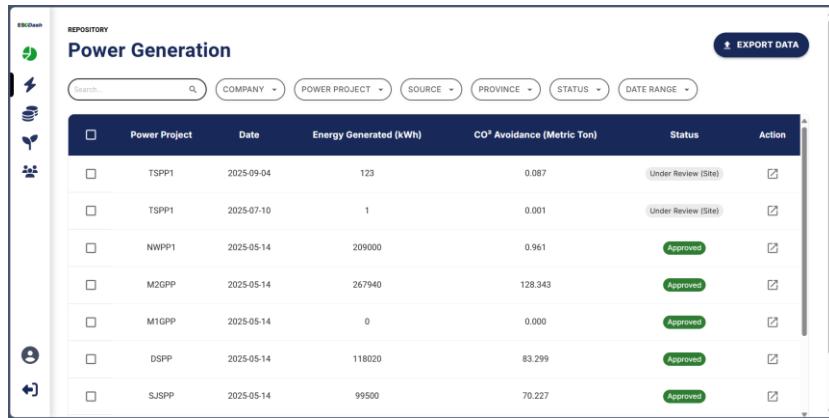


Figure 10. Power Generation Repository



Figure 11. Power Generation Dashboard

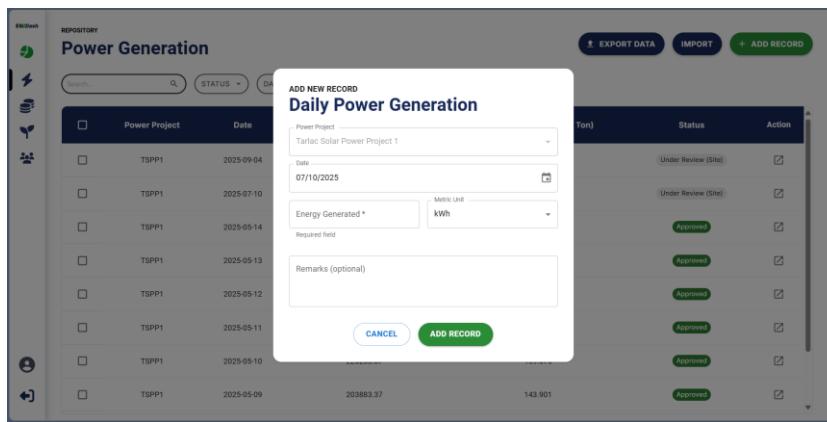


Figure 12. Single insert of record

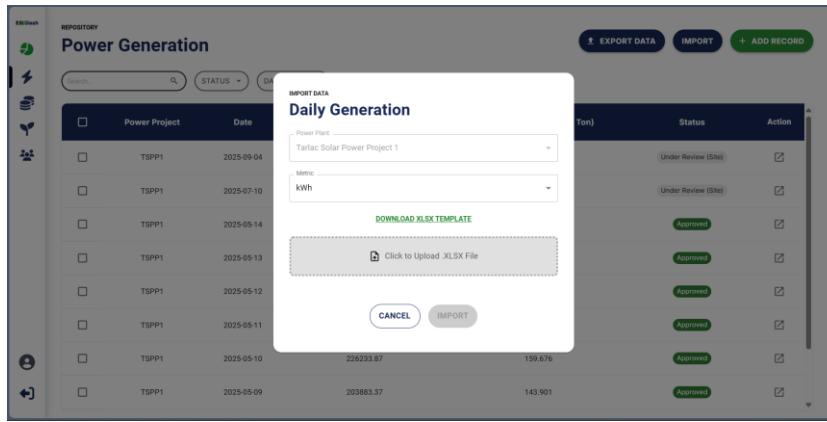


Figure 13. Bulk insert of records

Modals

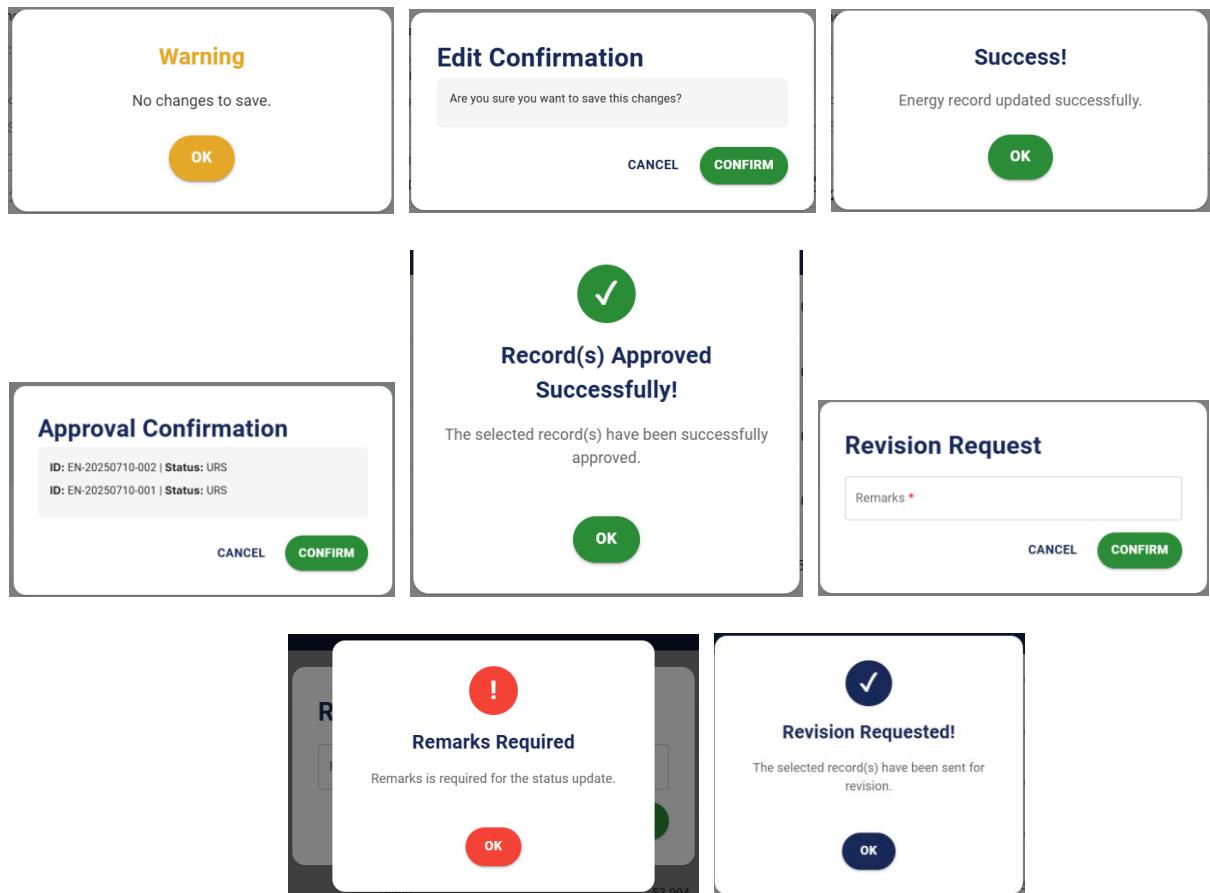


Figure 14. Modals

Although I was primarily assigned to backend and database development, I also contributed to a few frontend components of PetroDash. One of my tasks involved creating and implementing modals. I helped ensure they functioned correctly when users entered or edited information, improving their responsiveness and visual consistency. Figure 14 shows the modals that I created for the repository page of the website. These modals were done using ReactJS framework which before this project, I know nothing about.

Synthesis

My on-the-job training at PetroEnergy Resources Corporation (PERC) was a valuable and eye-opening experience that allowed me to apply the learnings I gained from school to real-world work scenarios. During our practicum, our team was tasked with addressing a problem in the company which was scattered and uncentralized data, which made it difficult for departments to generate timely reports and make data-driven decisions. To solve this, we developed a centralized data platform called PetroDash, where data from all power plants and joint ventures could be stored, processed, and visualized in one place.

Learnings:

Throughout the internship, I gained practical experience in backend development and database management. I handled data organization through multiple stages which are raw, cleaned, and processed data. I also built stored procedures and functions using PostgreSQL to automate data preparation. I also developed APIs using FastAPI in Python, allowing seamless communication between the database and the dashboard. These tasks significantly improved my understanding of backend processes and system integration.

In addition, I had the opportunity to assist with minor frontend development using React, such as creating modals and fixing graph display issues. This helped me appreciate the importance of frontend-backend integrations and gave me experience with frontend frameworks, which was an upgrade from using just Bootstrap in the past. I also learned the importance of using clean, structured data and how it affects the quality of decision-making in organizations.

Realization:

One key realization during my practicum was the importance of team collaboration and communication. Working with a group of ten interns and collaborating with various departments within the company showed me that no matter how strong your technical skills are, successful project execution depends greatly on teamwork, coordination, and mutual respect. Regular progress meetings helped us stay aligned, and the supportive company environment taught me the value of a workplace culture that contributes to growth and learning.

Conclusion:

Overall, the experience broadened my perspective on the IT field and helped bridge the gap between theory and practice. I became more confident in using tools like Python, FastAPI, PostgreSQL, and React. Beyond technical growth, I developed soft skills such as adaptability, communication, and teamwork. This practicum served as an important stepping stone that not only strengthened my readiness for future employment but also confirmed my passion for building solutions that make processes more efficient and data more meaningful in real-world settings.

Appendices

Appendix 1.0

Competency-Based Resume



JEZREIL LUMBERA

jezreilv lumbera@gmail.com | 0919 609 6153
www.linkedin.com/in/jezreil-lumbera-44474929b

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Mapua Malayan Colleges Laguna

EXPECTED NOVEMBER 2025

RELEVANT COURSES:

- Data Structures and Algorithms
- Software Engineering
- Web Systems and Technologies
- Data Analytics
- Machine Learning

TECHNICAL SKILLS

Languages: Python, JavaScript, C#, SQL, HTML, CSS, Java

Frameworks: .Net, Django, Flask, Bootstrap

Databases: MSSQL, SQLite3

Applications: GitHub, Unity, Firebase

PROJECTS

BIOMARKER PREDICTION SYSTEM

DECEMBER 2024 – PRESENT

- Developed a web-based tool that predicts CA 19-9 levels using input from urinary biomarkers.
- Developed and applied machine learning techniques to build a predictive model for CA 19-9 levels.
- Utilized Django for backend development and SQLite3 for database management.
- Used Bootstrap for responsive UI design and Plotly for interactive data visualization.
- Collaborated via GitHub for version control and project collaboration.

BLUE AND SILVER RESERVATION SYSTEM

JANUARY - JUNE 2024

- Developed a web-based reservation system to manage reservations and inventory.
- Built using the ASP.Net MVC framework for the backend and MSSQL for database management.
- Designed a responsive user interface with Bootstrap and integrated Chart.js for visualizing reservation trends and inventory data.
- Hosted on Azure.
- Collaborated via GitHub for version control and project collaboration.

OTHER NOTABLE PROJECTS

- **Parking Lot Detection (2023)** – A computer vision system that detects cars in a parking lot from a top view and counts the number of occupied and vacant slots – Python, OpenCV
- **Batuhan (2023)** – Locally hosted 2 player game – Unity, C#

ACHIEVEMENTS

Awards:

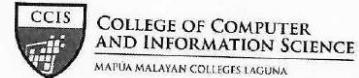
- Consistent Dean's Lister (2021 - 2024)
- President's Lister (2022, 2023)

Certifications:

- CompTIA IT Fundamentals+

Appendix 2.0

Endorsement Letter



02 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. Jezreil V. Lumbera 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. EBON
BS Computer Science Program Chair
College of Computer and Information Science
Mapúa Malayan Colleges Laguna

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

Appendix 3.0

Practicum Confirmation and Acceptance Form



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	Jezreil V. Lumbera	STUDENT NUMBER	2021150102
COURSE CODE	CS199F	SY/TERM ENROLLED	2024-2025 3rd Term

This is to certify that Jezreil V. Lumbera (name of student-trainee) has been accepted for practicum at Petro Energy Resource (7F JMT Building, ADB Avenue, Ortigas Center, Pasig City) (name and address of establishment) and will be attached to the PetroEnergy department/s for a minimum of, but not limited to 324 hours. Training will commence on April 28, 2025 and is expected to end on June 30, 2025. Attached is the list of requirements.

COMPANY REPRESENTATIVE

 Signature over Printed Name IT Department	CIO Official Designation <u>vaperalta@petroenergy.com.ph</u> Email and Contact Number/s
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NOTED BY

<u>Jezreil V. Lumbera</u> Signature over printed name of Practicum Coordinator	<u>4-23-2025</u> Date
---	--------------------------

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

FORM OVPAAC 030B

THIS FORM IS AVAILABLE AT THE OVPAAC.
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	Jezreil V. Lumbera	STUDENT NUMBER	2021150102
COURSE CODE	CS199F	SY/TERM ENROLLED	2024-2025 3rd term

This is to certify that Jezreil V. Lumbera (name of student-trainee) has been accepted for practicum at PetroEnergy Resource (7F JMT Building, ADB Avenue, Ortigas Center, Pasig City) (name and address of establishment) and will be attached to the PetroEnergy department/s for a minimum of, but not limited to 324 hours. Training will commence on April 28, 2025 and is expected to end on June 30, 2025. Attached is the list of requirements.

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 Signature over Printed Name IT Department	CIO Official Designation <u>vaperalta@petroenergy.com.ph</u> Email and Contact Number/s
---	---

NOTED BY

<u>Jezreil V. Lumbera</u> Signature over printed name of Practicum Coordinator	<u>4-23-2025</u> Date
---	--------------------------

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

FORM OVPAAC 030B

THIS FORM IS AVAILABLE AT THE OVPAAC.

<small>NOTED BY</small> <u>Jezreil V. Lumbera</u> Signature over printed name of Practicum Coordinator	<u>4-23-2025</u> Date
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FORM OVPAAC 030B

THIS FORM IS AVAILABLE AT THE OVPAAC.

Appendix 4.0

Liability Waiver



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

STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

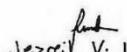
IMPORTANT INFORMATION

- 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.

1. Jezreil V. Lumbera, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL"), do hereby voluntarily undergo on-the-job training at PetroEnergy Resources Corporation, hereinafter referred to as the "Host Company", located at 7F JMT Building, ADB Avenue, Ortigas Center Pasig City, under the following terms and conditions:

- a. That the practicum training will commence on April 28 2025 and ends on June 30, 2025 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;

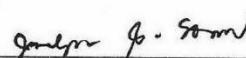
Signed on this 23 day of April, 2025.


Jezreil V. Lumbera
Signature over printed name of Student Trainee

WITH OUR CONSENT:

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

NOTED BY:



Printed Name and Signature of Practicum Adviser/ Coordinator

Printed Name and Signature of Host Company Representative

Appendix 5.0



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

TRAINING PLAN

NAME	Jezreil V. Lumbera	COURSE CODE	CS199F
PROGRAM & STUDENT NO.	CS / 2021150102	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%)
<p>KEY AREAS</p> <p>COMMUNICATION SKILLS (20%)</p> <ul style="list-style-type: none"> • Relate to co-trainees/supervisors terminologies and rules • Excite 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) <p>PROFESSIONAL DEPORTMENT (20%)</p> <ul style="list-style-type: none"> • Observes proper grooming and attire • Reports to work regularly on time and as necessary, even beyond prescribed working hour • Acts 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 <p>INITIATIVE (+5%)</p> <ul style="list-style-type: none"> • Volunteers to perform tasks beyond routine tasks 	<p>KEY AREAS</p> <p>Database Modeling and System Design (20%)</p> <ul style="list-style-type: none"> • Demonstrates understanding of database normalization and relationships • Incorporates business requirements into system design effectively <p>System Development (15%)</p> <ul style="list-style-type: none"> • Writes clean, maintainable, and well-documented code • Implements core features based on project specifications • Effectively uses version control (e.g., Git) <p>Data Analytics and Visualization (15%)</p> <ul style="list-style-type: none"> • Uses data visualization tools effectively • Identifies meaningful patterns and trends from data • Communicates insights clearly through reports or dashboards <p>Documentation (10%)</p> <ul style="list-style-type: none"> • Produces clear and structured technical documentation • Ensures documentation is understandable by both technical and non-technical stakeholders <p>Initiative (+5%)</p> <ul style="list-style-type: none"> • Volunteers to perform tasks beyond routine tasks

CONFORME	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
<p><i>J. Lumbera</i></p> <p>Jezreil V. Lumbera 04-26-25 SIGNATURE OVER PRINTED NAME OF STUDENT / DATE</p>	<p>SIGNATURE OVER PRINTED NAME OF PARENT OR GUARDIAN / DATE</p>	<p><i>J. Lumbera</i></p> <p>SIGNATURE OVER PRINTED NAME OF PRACTICUM SUPERVISOR / DATE</p>	<p><i>J. Lumbera</i></p> <p>SIGNATURE OVER PRINTED NAME OF PRACTICUM ADVISER / DATE</p>	<p><i>J. Lumbera</i></p> <p>SIGNATURE OVER PRINTED NAME OF PROGRAM CHAIR / DATE</p>

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

FORM OVPAA-030D

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Appendix 6.0

Journal



Malayan Colleges Laguna
A MAPUA SCHOOL

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	Week 1 (April 28 - May 2)	AREA ASSIGNMENT	PetroEnergy
TASK	Project Kick-off, Scope Definition, Data Familiarization and Analysis, Requirements Gathering	SHIFT/TIME	8:00am - 5:00pm

From April 28 to May 2, we officially started our project with a kickoff meeting where I reviewed the work plan to better understand the goals of the project, the tasks we need to do, and the time given for each one. This helped me see the bigger picture of how the project will move forward. We also talked about the upcoming plant tour on May 2 and scheduled when each team member needs to report to the Head Office in Ortigas. On April 29, I focused on reviewing the data summary that we will be using for the project. Since I wasn't very familiar with the type of data, I found it a bit hard to understand. To help myself, I decided to spend the rest of the day taking online lessons to refresh and improve my skills in data analysis. On April 30, I continued understanding the data given, but there were still some parts I didn't fully get because of unfamiliar terms. I continued taking online courses, this time focusing on data analytics and data warehousing, so I can be better prepared for the tasks ahead. We also finalized the plans for the plant tour, including who would go onsite and what those attending online would do. On May 2, the plant tour in Tarlac took place, but because there was limited space in the company car, I joined the session online. During the orientation, the speaker explained the company's background, how their current system works, and why there's a need for improvement. They also told us who we can contact if we have questions about the project or data and shared some of the features they want us to include. Even though I had a hard time understanding the data at first, I tried to solve the problem by learning more on my own. Overall, this week helped me understand what the project is about, what is expected from us, and what I still need to learn to do a better job.


TRAINEE'S SIGNATURE

DAILY JOURNAL

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DATE	Week 2 (May 5 - May 9)	AREA ASSIGNMENT	PetroEnergy
TASK	Requirements Gathering, Technology Research and Selection	SHIFT/TIME	7:00am - 4:00pm

From May 5 to May 9, our team focused on planning, coordination, and getting familiar with the tools and data we'll be working with. On May 5, we started creating our project charter by identifying the goals, deliverables, risks, and assumptions that would help guide our planning. We also defined the project scope to avoid confusion later on. On May 6, I reported onsite for the first time and met Ma'am Vanessa, the AVP for Corporate Communication and CIO of PetroEnergy, who will be our main point of contact. We had a meeting to discuss the data we need and the people we should coordinate with. Afterwards, we prepared and presented our proposed solution along with our questions and concerns. We were then split into groups for interviews, my group focused on gathering information about the power plant data. On May 7, we worked from home, and I spent the day reviewing the data and researching possible tech stacks to recommend. In the afternoon, we had a hybrid meeting to discuss the system requirements and present our proposed technologies. On May 8, I continued reviewing the dataset and studied data warehousing concepts to better understand how to manage and store the data properly. We also had a meeting where we shared what we understood so far and raised any concerns. On May 9, I worked on setting up tools like Notion to help track our progress, cloned our project's GitHub repository, and installed PostgreSQL in preparation for handling the data. Later, all three teams met to share their findings and align on technologies and plans for the next phase. This week helped me improve my understanding of data handling and project management, and although I faced challenges in understanding some parts of the data, I addressed it by researching and doing interviews. Overall, the week was productive, and I would recommend doing regular updates and team coordination to maintain smooth progress.


 TRAINEE'S SIGNATURE



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REVISION DATE: May 10, 2016

DAILY JOURNAL

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DATE	Week 3 (May 13 - May 16)	AREA ASSIGNMENT	PetroEnergy
TASK	Data Transformation and Cleaning Plan	SHIFT/TIME	7:00am - 4:00pm

From May 13 to May 16, our team focused on reporting our progress, building the data warehouse structure, and preparing for the next phase of development. On May 13, we worked onsite and spent the morning preparing a progress report summarizing the accomplishments of Phase 1. In the afternoon, we presented the report to the team, where we also discussed our data cleaning strategy, the proposed system architecture, and the software development life cycle (SDLC) that will guide our workflow. Several questions and concerns about the next steps were also raised and clarified during the meeting. On May 14, I began developing the bronze layer of our data warehouse. I wrote a DDL script to create tables specific to my assigned section and developed a stored procedure to load data from a CSV file. Afterward, I moved on to the silver layer by preparing another DDL script and starting a stored procedure to transform and load data from the bronze layer. We ended the day with a meeting to share our progress on the Data Transformation and Cleaning Plan. On May 15, I finalized the initial setup for both the bronze and silver layers, making sure the data flowed properly between them. I reviewed the transformations to ensure consistency and accuracy. In the afternoon, we had another team meeting to report progress and raise project-related issues. On May 16, I started working on the gold layer, where I planned the table structure and wrote scripts to turn the cleaned data into a format suitable for analysis and reporting. I also reviewed the final outputs to ensure they matched the project requirements. We concluded the day with another progress meeting, which helped clarify remaining concerns and aligned everyone on the upcoming tasks. This week gave me a better understanding of how structured data warehousing supports clear and accurate reporting, and I recommend regular reviews of the data flow to catch issues early and keep everything in sync.


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DAILY JOURNAL

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DATE	Week 4 (May 19 - May 23)	AREA ASSIGNMENT	PetroEnergy
TASK	Data Modeling, Database Design, Analytics and Reporting Planning, UI Design	SHIFT/TIME	7:00am - 4:00pm

From May 19 to May 23, I focused on refining the structure and functionality of our data warehouse, improving data accuracy, and beginning work on data visualization and user interface design. On May 19, I updated the bronze and silver layers to better fit the structure of our CSV files and created Entity Relationship Diagrams (ERDs) for both layers to document and visualize the design. After finalizing these layers, I began developing the gold layer, creating views and functions for data aggregation and analysis. I made sure to coordinate with teammates to maintain consistency across all datasets. On May 20, I reported onsite and added a new function to the gold layer, along with filters to improve accuracy. In the afternoon, we had a meeting to review our ERDs and discuss how data would be presented on the website. We also showed sample graphs using Excel to help visualize future analytics features, and gathered feedback on the types of graphs they preferred. On May 21, I moved some bronze and silver tables into a new schema called "ref" to be used as reference tables. I also merged some of the related tables into a consolidated structure. In our afternoon meeting, we reviewed table data types and field lengths, and I presented the initial design of the user interface to get feedback. On May 22, I added a new fact table in the gold layer to support additional reports and updated existing functions to match recent data structure changes. I also reflected updates in the gold layer due to changes made in the ref schema. We had a progress meeting where we shared updates, and we merged our team's database with another team's to ensure data consistency. Finally, on May 23, I refined a function in the gold layer for more accurate report output and exported this data into a CSV file. Using Google Colab, I began generating charts to help visualize the information. We wrapped up the day with a meeting to review the UI design in preparation for our upcoming presentation on Monday. This week strengthened my understanding of data warehouse structures and visualization tools, and I recommend continuing regular coordination and meetings between teams to maintain alignment.



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DATE	Week 5 (May 26 - May 30)	AREA ASSIGNMENT	PetroEnergy
TASK	Development and Environment Setup, Database Development and Data Migration	SHIFT/TIME	7:00am - 4:00pm

From May 26 to May 30, I continued contributing to the preparation for the development phase by refining the user interface, updating data layers, and assisting with API setup. On May 26, I reported onsite and focused on enhancing our Figma UI mockup by adding charts that visually represent important project data. I also created a PowerPoint presentation summarizing our progress, which was presented during our meeting that afternoon. In the session, we reviewed the updated UI, received feedback, and discussed our transition into the development phase. On May 27, I cloned a repository containing backend and API files and installed Postman for future API testing. I also supported Team 2 in preparing for their executive presentation by updating UI elements based on feedback. On May 28, I revised the data warehouse layers to improve structure and usability, reflecting new details discussed in recent meetings. I experimented with using Postman to connect to the database via a simple API. This was only for practice and won't be part of the final system. In our afternoon meeting, we shared progress, reviewed UI improvements, and discussed the technical roadmap for system development. On May 29, we held a meeting in the morning to refine the UI mockups further by identifying which dashboard elements should be kept or removed for better usability. I then researched additional metrics that could add value to the dashboard for end-users. In the afternoon, we had a progress report meeting to assess where we are in the project timeline. Finally, on May 30, I updated several CSV files based on corrected data formats and applied changes to the DDL and loading procedures for the reference schema. I also synced my local project repository with the latest versions of the API, database, and frontend code. We ended the week with a meeting to discuss system changes aligned with client requirements. Overall, this week allowed me to apply and reinforce both technical and communication skills while preparing our team for the development phase.


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DATE	Week 6 (June 2 - 6)	AREA ASSIGNMENT	PetroEnergy
TASK	System Development and Implementation	SHIFT/TIME	7:00am - 4:00pm

From June 2 to June 6, our team focused on backend development and enhancing API functionalities, while also addressing data structure updates in the database. On June 2, I made changes to the database by updating the data size of a specific column to better accommodate the values it stores. I also added new API routes: one for retrieving energy records based on their status and another for accessing fact energy data, helping improve how information is fetched from the system. On June 3, I made adjustments to the bronze schema by changing a column's data type to better match the incoming data format. I also modified the add_energy_record API and updated the bulk_add_energy_record function to improve its performance and accuracy. There was no meeting that day, so I used the time to focus on debugging and testing the updated API functions. On June 4, I created a new checker status model to help track and manage energy record statuses more effectively. I updated both the single and bulk insert APIs and added functionality that allows users to edit and update the 'status' field, providing more flexibility in managing data records. We also held a meeting in the afternoon to discuss backend progress and upcoming development tasks. On June 5, we had another meeting to finalize the API structure and make sure that all routes were aligned with the project requirements. I also continued testing and refining the new features to ensure they function as expected. June 6 was a rest day with no OJT activities scheduled. This week allowed me to deepen my understanding of API design and backend logic while contributing to features that directly support the project's functionality and data management.



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DATE	Week 7 (June 9 - 13)	AREA ASSIGNMENT	PetroEnergy
TASK	System Development and Implementation	SHIFT/TIME	7:00am - 4:00pm

From June 9 to June 13, the focus of the week was on enhancing the system's dashboard functionalities and improving the process of importing bulk data. On June 9, I worked on fixing parts of the backend code to improve readability and structure. I also began preparing the backend for upcoming dashboard features by reviewing the existing routes and identifying areas for improvement. This was a good opportunity to clean up redundant logic and make the codebase more maintainable as we move into more complex functionalities. On June 10, I added an API specifically designed to provide energy related data for dashboard graphs. This will allow the frontend to display visual summaries of the energy data, such as trends and breakdowns. Although we were supposed to have a meeting to discuss dashboard progress and align tasks, it was canceled, giving me more time to focus on API testing and adjustments. On June 11, I created a downloadable template for energy records to allow the bulk insert process for users. This included updating the backend logic to handle the adjusted template format and making improvements to the bulk import process to ensure data consistency. I also added features on the frontend that allow users to download the template and upload their CSV files directly into the system. This is expected to improve data entry efficiency and reduce manual errors. June 12 was a national holiday, so no OJT activities took place. On June 13, I added another API to generate fund allocation data for dashboard visualization. This feature supports clearer reporting by using graph to visualize their fund allocations. We also had a meeting to present updates, gather feedback, and finalize the next steps for dashboard development and system integration. Overall, this week strengthened my skills in building user focused backend features and connecting them to the frontend interface. It also showed the importance of designing tools like templates and bulk imports to be clear, easy to use, and less prone to user errors.



TRAINEE'S SIGNATURE



Malayan Colleges Laguna
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DATE	Week 8 (June 16 - 20)	AREA ASSIGNMENT	PetroEnergy
TASK	System Development and Implementation	SHIFT/TIME	7:00am - 4:00pm

From June 16 to June 20, the focus was on improving frontend user experience and enhancing backend functionality adding bulk operations. On June 16, I worked on improving the pagination system on the frontend to make data browsing more efficient and user-friendly, especially for large datasets. This improvement helps users navigate through data more smoothly without performance issues. On June 17, we had a meeting to review the recent updates, clarify tasks for the week, and discuss how we would approach the implementation of bulk actions for data status changes. On June 18, I made backend adjustments by adding new columns to an existing function in the database to support additional data fields required for upcoming features. This was done to accommodate new display and filtering needs on the frontend. On June 19, I implemented the bulk update functionality that allows users to approve multiple selected data entries by updating their status in a single action. Along with this, I added modals for validation, confirmation, and success messages to guide the user throughout the process and prevent accidental updates. On June 20, I built on this feature by implementing the bulk update for entries for revision, following the same structure of selecting rows and updating their status. I also included similar modals to ensure consistency and good user experience. This week helped me understand how important it is to build user flows that are both functional and intuitive, especially when dealing with large volumes of data and repetitive actions. These updates not only make the system more efficient for users but also reduce the chance of human error by adding proper validation steps.

TRNEE'S SIGNATURE

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

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DATE	Week 9 (June 23 - 27)	AREA ASSIGNMENT	PetroEnergy
TASK	Application Development, Testing and Quality Assurance	SHIFT/TIME	7:00am - 4:00pm

From June 23 to June 27, the focus shifted to preparing for the user acceptance testing and finalizing key frontend features related to data entry and editing. On June 23, I reached out to one of our data sources to request the contestants that they want us to update to match the constant that they really use. I also began preparing for the UAT, which was scheduled to start the next day. This involved reviewing existing features and making sure the system was ready for testing. On June 24, I pushed an update for the single record addition feature, which now includes proper error handling for invalid inputs and duplicates, along with a success modal to notify users when a record is added correctly. On June 25, I continued improving the frontend by adding modals for the edit record process. These included alerts for confirmation before saving, successful edits, no changes made and failed save attempts, all of which improve the user experience and reduce confusion during the editing process. On June 26, we reported onsite and began preparing the UAT test guide using excel. I also created a separate excel file specifically for bulk input testing, which would be used by the tester to test the bulk input process. On June 27, I continued refining the UAT guide to make sure that the steps are clear and the test cases cover all expected output of the functions of the website. This week gave me hands on experience in preparing a system for testing and this helped me to better understand the importance of guiding user clearly through error handling, success modals, and testing documentation. These are small but important parts of the UI that makes the system more reliable and user friendly, especially when it is already deployed and used for their process.



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Malayan Colleges Laguna
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REVISION DATE: May 10, 2016

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DATE	Week 10 (June 30 - July 4)	AREA ASSIGNMENT	PetroEnergy
TASK	Testing, Quality Assurance and Documentation	SHIFT/TIME	7:00am - 4:00pm

From June 30 to July 4, this week was focused on wrapping up the project through user acceptance testing and documentation. On June 30, I spent the day preparing for UAT by reviewing system features, checking for any issues, and ensuring that all necessary files and guides were ready. On July 1, I reported onsite to conduct UAT and was assigned to the Economics Department, where I worked directly with one of their representatives to walk through the system's functionalities. I guided him through various features, addressed his questions, and took notes of his feedback. After conducting the UAT, I sent my notes to the team 3 to give them the feedback from the user of their module. This experience helped me better understand how UAT works in real world application, including the importance of preparing detailed test cases, guiding users clearly, and collecting useful insights to improve the system. From July 2 to July 4, I did not have any assigned tasks since I had already completed my required OJT hours. My teammates took over the documentation and user manual preparation during that time. Although I wasn't directly involved in the final documentation, it was fulfilling to see the system reach a point of completion and readiness for handover. This week provided a meaningful conclusion to our practicum, especially by allowing us to see our work in action through real user interaction.



TRINEE'S SIGNATURE

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

FORM OVPA 030G

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Appendix 7.0

Daily Time Record

NAME OF STUDENT		Jezreil V. Lumbera				NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO		PetroEnergy	
MONTH		June				MONTH		July	
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1	7:00 am	4:00 pm	8 hrs		1	7:00 am	4:00 pm	8 hrs	
2	7:00 am	4:00 pm	8 hrs		2	—	—	—	
3	7:00 am	4:00 pm	8 hrs		3	7:00 am	4:00 pm	8 hrs	
4	7:00 am	4:00 pm	8 hrs		4	7:00 am	4:00 pm	8 hrs	
5	7:00 am	4:00 pm	8 hrs		5	—	—	—	
6	—	—	—		6	—	—	—	
7	—	—	—		7	7:00 am	4:00 pm	8 hrs	
8	—	—	—		8	7:00 am	4:00 pm	8 hrs	
9	7:00 am	4:00 pm	8 hrs		9	7:00 am	4:00 pm	8 hrs	
10	7:00 am	4:00 pm	8 hrs		10	—	—	—	
11	7:00 am	4:00 pm	8 hrs		11	—	—	—	
12	—	—	—		12	—	—	—	
13	7:00 am	4:00 pm	8 hrs		13	—	—	—	
14	—	—	—		14	—	—	—	
15	—	—	—		15	—	—	—	
16	7:00 am	4:00 pm	8 hrs		16	—	—	—	
17	7:00 am	4:00 pm	8 hrs		17	—	—	—	
18	7:00 am	4:00 pm	8 hrs		18	—	—	—	
19	7:00 am	4:00 pm	8 hrs		19	—	—	—	
20	7:00 am	4:00 pm	8 hrs		20	—	—	—	
21	—	—	—		21	—	—	—	
22	—	—	—		22	—	—	—	
23	7:00 am	4:00 pm	8 hrs		23	—	—	—	
24	7:00 am	4:00 pm	8 hrs		24	—	—	—	
25	7:00 am	4:00 pm	8 hrs		25	—	—	—	
26	7:00 am	4:00 pm	8 hrs		26	—	—	—	
27	7:00 am	4:00 pm	8 hrs		27	—	—	—	
28	—	—	—		28	—	—	—	
29	—	—	—		29	—	—	—	
30	7:00 am	4:00 pm	8 hrs		30	—	—	—	
31	—	—	—		31	—	—	—	

DAILY TIME RECORD*

REVISIION NO.: 00
REVISIION DATE: May 19, 2014

VERIFIED BY _____

Signature over printed name of Practicum Supervisor _____ Date _____

* To be validated once a week by the Practicum Adviser/ Coordinator

** This may be replaced by the DTR officially used by the company

FORM OVPA A 030H

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DAILY TIME RECORD*

REVISION NO.: 00
REVISON DATE: May 10, 2018

NAME OF STUDENT	Jezreil V. Lumbera			NAME OF HOST COMPANY/ DEPARTMENT ASSIGNED TO	PetroEnergy				
MONTH	April			MONTH	May				
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1					1	—	—	—	
2					2	7:00 am	4:00 pm	8 hrs	
3					3				
4					4				
5					5	7:00 am	4:00 pm	8 hrs	
6					6	7:00 am	4:00 pm	8 hrs	
7					7	7:00 am	4:00 pm	8 hrs	
8					8	7:00 am	4:00 pm	8 hrs	
9					9	7:00 am	4:00 pm	8 hrs	
10					10	7:00 am	4:00 pm	8 hrs	
11					11	—	—	—	
12					12	—	—	—	
13					13	7:00 am	4:00 pm	8 hrs	
14					14	7:00 am	4:00 pm	8 hrs	
15					15	7:00 am	4:00 pm	8 hrs	
16					16	7:00 am	4:00 pm	8 hrs	
17					17	—	—	—	
18					18				
19					19	7:00 am	4:00 pm	8 hrs	
20					20	7:00 am	4:00 pm	8 hrs	
21					21	7:00 am	4:00 pm	8 hrs	
22					22	7:00 am	4:00 pm	8 hrs	
23					23	7:00 am	4:00 pm	8 hrs	
24					24				
25					25				
26					26	7:00 am	4:00 pm	8 hrs	
27					27	7:00 am	4:00 pm	8 hrs	
28	8:00 am	5:00 pm	8 hrs		28	7:00 am	4:00 pm	8 hrs	
29	8:00 am	5:00 pm	8 hrs		29	7:00 am	4:00 pm	8 hrs	
30	8:00 am	5:00 pm	8 hrs		30	7:00 am	4:00 pm	8 hrs	
31					31				

VERIFIED BY _____
Signature over printed name of Practicum Supervisor _____ Date _____

Signature over printed name of Practicum Supervisor _____ Date _____

* To be validated once a week by the Practicum Advisor/ Coordinator
** This may be replaced by the DTR officially used by the company

FORM OVPAAA 030H
THIS FORM IS AVAILABLE AT THE OPM.