

WEEK 1

Log Book On 23-09-2024

OBJECTIVE

1. Set up the development environment
2. Begin work on AremaETL project, as per supervisor's guidelines.

ACTIVITIES

1. Set up email, Microsoft Teams, Microsoft Office (Outlook), and other tools.
2. Reviewed the project guideline to understand the context of the project.
3. Installed appropriate software: DBeaver, ActiveMQ, Java, Maven, Postman etc.
4. Cloned AremaPortal and AremaETL repositories.
5. Created an Excel sheet to organize daily scripts.
6. Configured the software and ran scripts for Arema project.

ACHIEVEMENTS

1. Successfully set up the complete development environment.
2. Resolved configuration issues and successfully launched AremaPortal.
3. Executed all necessary SQL scripts for the project, contributing to my growth as a software engineer by enhancing my problem-solving skills, increasing my familiarity with enterprise tools, and deepening my understanding of ETL processes.

Log Book On 24-09-2024

OBJECTIVES

1. Update the ETL installation guideline based on personal experience with AremaETL configuration

ACTIVITIES

1. Tracked steps and issues encountered during AremaETL configuration.
2. Updated unclear instructions in the existing guideline.
3. Added missing sections, such as SpringToolSuite installation within the development environment.
4. Created a new section for AremaETL installation.
5. Documented setup processes, including Apache Maven, ActiveMQ, Finexus SpringBoot Base jar, and Database Initialization & Data Insertion.
6. Finalized and completed the ETL installation guideline.
7. Sent the updated guideline to Mr. Soo.

ACHIEVEMENTS

1. Successfully updated the ETL installation guidelines by clarifying instructions and adding new sections for improved comprehension.
2. Delivered the revised guideline to Mr. Soo.

Log Book On 25-09-2024

OBJECTIVES

1. Update the local database
2. Import dev database into local machine and test its connectivity

ACTIVITIES

1. Updated the local database with new scripts from the Arema daily check-in ETL.
2. Exported and combined multiple SQL files into a single file to streamline the database import process, reducing setup time for future uses.
3. Received and completed Leeks Timesheet, including previous missed entries.
4. Gained access to the dev database and imported it into local DBeaver.

5. Tested the connection of dev database, by uploading a file to a defined ETL rule.
6. Continued reading project documentation and codebase.

ACHIEVEMENTS

1. Optimized the database setup process, significantly reducing the time required.
2. Completed and submitted the Leeks Timesheet.
3. Successfully connected to the dev database and did some testing, which results in success.

Log Book On 26-09-2024

OBJECTIVES

1. Configure the dev database and set up initial file configurations based on template.
2. Define a new company entry in the database for learning purpose

ACTIVITIES

1. Continued configuring the dev database.
2. Attended a meeting with staff - Mr Lim.
3. Created a custom company named TFQ (TAUFIQ) as a learning exercise to better understand the process of defining new clients within the database
4. Created SQL scripts for several file configuration table (DELETE FROM, INSERT INTO).
5. Successfully initialized a file upload to the dev database under a demo company folder named TFQ

ACHIEVEMENTS

1. Better understanding of the process Extract, Transform, Load
2. Successfully created SQL scripts to insert new company configuration, following the guideline.
3. Completed a demo file_upload under the TFQ folder as a trial setup for future client configurations.

Log Book On 27-09-2024

OBJECTIVES

1. Configure the dev database and set up file group configurations, ensuring successful file group record.

ACTIVITIES

1. Fix yesterday's scripts that did not match the expected format, for successful file group record.
2. Created several new scripts for file group configurations.
3. Updated the mq.properties to connect to a hosted invoice mq provider.
4. Successfully created an entry for the file group without any errors, with the status of 00.
5. Reviewed the MQ specification documentation for further understanding.

ACHIEVEMENTS

1. Achieved a successful configuration of the file group table with correct script formatting.
2. Completed the creation of a file group entry without encountering any issues, allowing me to better understand the flow of ETL steps in the system.

WEEK 2

Log Book On 30-09-2024

OBJECTIVE

1. Gain understanding of ETL flow and dependencies in the AremaETL project.

ACTIVITIES

1. Visited the KL Branch and requested an access card for Finexus Campus.
2. Met with several other interns introduced by Ms. Hani, and had a tour of Finexus Campus (KL Branch).
3. Conducted self-study on the ETL format and process flow.
4. Continued reviewing ETL rules, focusing on common functions and building destination data.
5. Worked on understanding the dependencies between different tables in the ETL process.

ACHIEVEMENTS

1. Familiarized myself with the Finexus Campus environment and met key contacts.
2. Enhanced understanding of the structure and flow of the ETL process.
3. Developed a clearer understanding of table dependencies, preparing for more advanced tasks in the AremaETL project.

Log Book On 01-10-2024

OBJECTIVE

1. Continue configuring ETL scripts and resolving issues related to the AremaETL project.

ACTIVITIES

1. Worked on configuring ETL scripts at the KL Branch.
2. Successfully created data.body with the required configuration by extracting columns from the original Excel file and appending the necessary columns.
3. Continued studying the documentation to further understand the process.
4. Encountered an issue while creating an entry in the invoice database and troubleshooting the problem.
5. Had a discussion with team about how to verify file entry (view log) in invoice module database, by using Kubernetes

ACHIEVEMENTS

1. Successfully configured the data.body, enhancing my ability to handle ETL script customizations.
2. Made progress in understanding the documentation for ETL, contributing to my knowledge base.
3. Identified a roadblock in the invoice database entry process, which will guide my focus for troubleshooting in the next session.

Log Book On 02-10-2024

OBJECTIVE

1. Resolve script issues and establish a successful connection to the invoice (external) module in the AremaETL project.

ACTIVITIES

1. Connected successfully to the external invoice module.
2. Fixed ETL scripts according to MQ specifications.
3. Resolved some misconfigurations in the scripts to ensure proper functionality.
4. Successfully created a database entry in the invoice database (SIT environment) for customer etl.

ACHIEVEMENTS

1. Established a connection with the invoice module, facilitating further integrations.
2. Corrected script errors as per MQ requirements, ensuring smoother data processing.

3. Fixed misconfigurations in the ETL scripts, improving overall workflow accuracy.
4. Successfully added an entry in the invoice database, demonstrating progress in handling data transactions within the system.

Log Book On 03-10-2024

OBJECTIVE

1. Expand knowledge of command-line tools and work on new ETL rules for the invoice module in the AremaETL project.

ACTIVITIES

1. Downloaded and set up Putty for SSH access.
2. Learned how to use several command-line tools in Kubernetes (e.g., grep, ls, etc.).
3. Viewed and analyzed file logs to troubleshoot and monitor processes.
4. Created new ETL rules, having previously worked on customer profile rules.
5. Studied and applied common functions and conditions in the ETL rules.

ACHIEVEMENTS

1. Gained proficiency in using Putty and essential Kubernetes command-line tools, enhancing efficiency in managing the environment.
2. Successfully created ETL rules for the invoice module, expanding my contribution to different modules in the project.
3. Improved understanding of common functions and conditions, allowing for more sophisticated rule creation and configuration in ETL scripts.

Log Book On 04-10-2024

OBJECTIVE

1. Enhance knowledge of security regulations
2. Continue working with common ETL functions.

ACTIVITIES

1. Morning - Attended an intern meeting focused on security and safety regulations.
2. Learned important precautions regarding information security awareness and best practices.
3. Afternoon - Continue working on scripts and gained an understanding of the group common rule function and the SUM function in ETL.
4. Continued exploring and using other common ETL functions, such as MATH, SUM, and VALMAP.

ACHIEVEMENTS

1. Developed awareness of security protocols and practices, ensuring compliance with company regulations.
2. Improved understanding of group common rule functions and their applications in ETL scripts.
3. Successfully applied various common functions (MATH, SUM, VALMAP), enhancing the complexity and functionality of ETL rule creation.

WEEK 3

Log Book On 07-10-2024

OBJECTIVE

1. Continue working on ETL rules and complete the first draft of necessary scripts for the AremaETL project learning.

ACTIVITIES

1. Continued working on ETL rules and processes.
2. Imported Notepad++ macro to assist with scripting tasks, provided by team.
3. Worked on the rules using Excel for organizing and formatting.
4. Conducted revision and research on different types of invoicing and the invoicing process to better understand the implementation.
5. Completed the first draft of scripts for all configurations.

ACHIEVEMENTS

1. Successfully imported the Notepad++ macro, which improved scripting efficiency.
2. Completed the first draft of multiple ETL configuration scripts, which are key steps in the ETL rule creation process.
3. Gained a deeper understanding of invoicing processes, preparing for implementation of related ETL logic.

Log Book On 08-10-2024

OBJECTIVE

1. Configure the ETL rules, troubleshooting for invoice file uploads and verify entry in invoice module.

ACTIVITIES

1. Configured the ETL database locally after the hosted ETL database connection failed.
2. Tested the file upload for invoice, but it did not work due to missing initial configurations for the new local database.
3. Fixed the database configuration issue.
4. Uploaded the file into the system again, but the file was still not working due to other issues.
5. Fixed multiple file configuration issues (including typos, missing configurations, and incorrect configurations).
6. Submitted the file again to the system, resulting in an invoice being created in the invoice database, but with some exceptions.
7. Fixed the exception, ensuring the invoice is now created without any errors or exceptions.
8. Figured out how to use VALMAP common function to fetch data from table.
9. Fixed the invoice enrichment error.

ACHIEVEMENTS

1. Successfully set up the ETL database locally, allowing for further testing and configuration.
2. Resolved several critical configuration issues related to file upload and invoice creation.
3. Fixed exceptions in the invoice creation process, resulting in error-free invoice generation.
4. Improved understanding of the system's file upload and enrichment processes.
5. Identified future configurations that will improve robustness (null checks, thousands separator).

Log Book On 09-10-2024

OBJECTIVE

1. Continue ETL rule configuration, focusing on KCC rules, and test the invoice uploading process.

ACTIVITIES

1. Uploaded an invoice for testing, and it was successful.
2. Self-studied the eInvoicing process to better understand its workflow and implementation - Differences between consolidated, self billed and individual.
3. Read some news and information regarding LHDN e-Invoice requirements.
4. Received KCC rules and requirements from Mr. Lim. The task now involves configuring ETL rules for a client (KCC), moving beyond training and practice phases.
5. Started configuring the ETL rules for KCC.
6. Reviewed TECHNIP and COLGATE rules for reference and best practices.
7. Completed the file configuration scripts (etl rules not yet).
8. Created a template for configuring future ETL rules to standardize the process and improve efficiency.

ACHIEVEMENTS

1. Successfully tested the invoice upload, ensuring proper functionality.
2. Gained a deeper understanding of the eInvoicing process, preparing for future configurations.
3. Completed initial KCC file configuration scripts as per client requirements.
4. Developed a reusable template for configuring ETL rules, streamlining future work.

Log Book On 10-10-2024

OBJECTIVE

1. Continue configuring KCC ETL rules and test it.

ACTIVITIES

1. Continued configuring the KCC ETL rules.
2. Referred back to TECHNIP and COLGATE rules to ensure required columns.
3. Drafted the rules in Excel initially, then used Notepad++ with macros to streamline the scripting process.
4. Completed the scripts for all rule configurations related to the KCC project.
5. Fixed some misconfigurations found in the files during the process.
6. Requested the KCC file template to test the correctness of the configured rules and validate the implementation.

ACHIEVEMENTS

1. Finalized the scripts for all required KCC rule configurations.
2. Identified and resolved file misconfigurations, ensuring smoother testing in the next phase.

Log Book On 11-10-2024

OBJECTIVE

1. Self study.
2. Test KCC invoice file upload with SFTP (not achieved - file not ready).

ACTIVITIES

1. Requested the client file template from my supervisor, and he contacted QA for the file.
2. QA was unable to provide the file that day.
3. Thus, as the file is not ready yet, I self study regarding the SQL file and rule configurations, read the MQ Specification (documentation for eInvoice creation).
4. I also did some research about SpringBoot and read the project code to understand the flow of the extract, transform and load process.

ACHIEVEMENTS

1. Gained a deeper understanding of the ETL process from a code standpoint and the MQ Specifications for eInvoicing.

WEEK 4

Log Book On 14-10-2024

OBJECTIVE

1. Practice creating invoices and prepare for SQL KCC file testing.

ACTIVITIES

1. Practiced creating invoices to solidify my understanding of the process.
2. Created an entry for a new FCSB invoice as part of ongoing training.
3. Developed a template for the KCC file, while still waiting for the actual file from the QA team.

ACHIEVEMENTS

1. Gained further experience in invoice creation by using the Arema system.
2. Prepared the KCC file template ahead of time to expedite testing once the QA team provides the necessary file.

Log Book On 15-10-2024

OBJECTIVE

1. Study invoicing, eInvoice requirements, and gain a better understanding of AREMA as a system.

ACTIVITIES

1. Learned about the invoicing process and how it integrates with ETL.
2. Studied the eInvoice requirements according to LHDN.
3. Read various online articles and watched videos to learn more about invoicing and taxation.
4. Gained a comprehensive understanding of the invoice process, from ETL, through creation, to reporting.
5. Watched several AREMA-related videos created by Finexus (accessed via LinkedIn) to understand how AREMA operates as a system used by clients.

ACHIEVEMENTS

1. Developed a solid understanding of the eInvoice process and LHDN requirements.
2. Improved my knowledge of the full invoice lifecycle, from ETL through to reporting.
3. Enhanced understanding of the AREMA system, its purpose, and how it benefits clients.

Log Book On 16-10-2024

OBJECTIVE

1. Test KCC invoice configuration and gain exposure to SECURITYWORKS interface.

ACTIVITIES

1. Attended Finexus Campus.
2. Received the MPI template for further work, as a reference for KCC.
3. Extracted the invoice details from the MPI template to input into KCC for testing purposes.
4. Was introduced to the invoice web interface and details relevant to the KCC project.
5. Fixed several scripts that did not align with the correct rules, such as: sheet name corrections, modifying SELECT statements and adjusting the itemuuid() function usage.

ACHIEVEMENTS

1. Gained practical experience with the invoice web interface for KCC.
2. Successfully extracted and input invoice details for testing in KCC.
3. Corrected important script issues, ensuring better adherence to project requirements.

Log Book On 17-10-2024

OBJECTIVE

1. Input legacy data (other client data) for testing purposes.

ACTIVITIES

1. Finalized some of the rules for KCC testing.
2. Used one of the other client's entries to input data for KCC testing.
3. The test resulted in a successful entry, though some parts encountered exceptions as certain rules and requirements are still pending clarification (TBC by the client).

ACHIEVEMENTS

1. Successfully completed a test entry for rules configured - showing there is no issue logic wise with the rules.
2. Identified areas where rules need further refinement once client feedback is provided.

Log Book On 18-10-2024

OBJECTIVE

1. Understand and prepare for the implementation of the updated KCC rules.

ACTIVITIES

1. Received a new update to the KCC rules.
2. Reviewed the updated KCC rules to understand the recent changes.
3. Noted down specific configurations required for the updated rules.
4. Conducted self-study on the rules to ensure accurate implementation.

ACHIEVEMENTS

1. Developed a comprehensive understanding of the new KCC rule updates.
2. Documented necessary configuration changes to streamline the implementation process.

WEEK 5

Log Book On 21-10-2024

OBJECTIVE

1. Implement updates to the template rules.

ACTIVITIES

1. Received a new task to update the template rules.
2. Created several new SQL configurations / rules for the template, including a rule to check totalCount.
3. Reviewed other scripts to ensure the accuracy and consistency of the rules.
4. Continued configuring the rules - have not tested yet

ACHIEVEMENTS

1. Successfully created and updated rules to enable totalCount checks.
2. Verified rule configurations against other scripts for correctness.

Log Book On 22-10-2024

OBJECTIVE

1. Debug issues in the updated template scripts.

ACTIVITIES

1. Began debugging issues in the template scripts/rules.
2. Downloaded several software like BareTail, to debug the log file.
3. Continued debugging, but the error still persists, from morning to evening; work on template rules is currently on hold to prioritize KCC tasks.

ACHIEVEMENTS

1. Got to learn how to debug with STS more efficiently.
2. Learn how to use software like BareTail to debug efficiently with the Highlight feature and others.

Log Book On 23-10-2024

OBJECTIVE

1. Continue configuring KCC rules and test new script implementations.

ACTIVITIES

1. Continued configuring KCC rules based on recent updates.
2. Added new scripts according to the latest rules.
3. Updated the Excel file to document changes and configurations.
4. Fixed several existing scripts to align with updated requirements.
5. Tested the rules by uploading a file into the invoice module.
6. Invoice module server/db was down in the evening (~530pm), so need to wait for tomorrow to test the rules.

ACHIEVEMENTS

1. Successfully implemented new configurations for KCC rules.
2. The updated KCC rules are ready to be sent to the QA team after testing.

Log Book On 24-10-2024

OBJECTIVE

1. Finalize KCC rule configurations and resume work on debugging template rules issues.

ACTIVITIES

1. Continued configuring KCC rules and deleted outdated scripts unrelated to the updated rules.

2. Adjusted file input columns and overall input structure.
3. Conducted multiple tests, and after several iterations, the test was successful.
4. Compiled and sent the finalized KCC scripts to the supervisor, marking the task complete for now.
5. Resumed work on the template configuration task, focusing on identifying issues in the database or scripts.
6. Attended a meeting with the supervisor for guidance and troubleshooting support on the template rules.

ACHIEVEMENTS

1. Successfully completed the KCC rule configurations and confirmed functionality through testing.
2. Made progress on the template task with supervisor assistance, further identifying areas needing attention.

Log Book On 25-10-2024

OBJECTIVE

1. Complete debugging and finalize the FINTANI scripts for transaction and cancellation processes.

ACTIVITIES

1. Continued debugging template scripts, focusing on error resolution.
2. Cleaned the project by fixing dependencies and imports.
3. Conducted a thorough debugging session to identify issues.
4. Found the root issue within the scripts for delflag scripts.
5. Fixed the identified issue.
6. Finalized the scripts for both transaction and cancellation processes.

ACHIEVEMENTS

1. Successfully resolved the issue in the template scripts.

WEEK 6

Log Book On 28-10-2024

OBJECTIVE

1. Work on creating SQL rules for full invoice template configuration.

ACTIVITIES

1. Spent the entire day working on creating new full invoice rules.
2. Developed rules that encompass both buyer and supplier requirements. - Buyer Role, Supplier Role of invoice
3. Focused on ensuring the buyer and supplier rules were correctly implemented to match the full invoice process.

ACHIEVEMENTS

1. Successfully created the full invoice rules, covering both buyer and supplier configurations.
2. Made significant progress in aligning the new rules with the invoice process.

Log Book On 29-10-2024

OBJECTIVE

1. Work on template scripts/rules and prepare for testing.

ACTIVITIES

1. Spent the entire day working on template rules.
2. Set up the necessary files for the template folder to enable testing.
3. Fixed the transaction and cancellation scripts.

ACHIEVEMENTS

1. Successfully prepared the template scripts and files for testing.
2. Made key fixes to the transaction and cancellation scripts, improving their functionality and validation processes.

Log Book On 30-10-2024

OBJECTIVE

1. Finalize template rules based on updated requirements.

ACTIVITIES

1. Worked on template rules throughout the day.
2. Managed several changes in requirements from the QA team.
3. Received the necessary file from QA for further adjustments.
4. Finalized the template rules according to the updated requirements.
5. Did some testing on the rules.
6. Sent the completed template rules to the supervisor for review.

ACHIEVEMENTS

1. Successfully implemented the updated requirements for the template rules.
2. Completed and sent the final version of the rules to the supervisor.

Log Book On 01-11-2024

OBJECTIVE

1. Day of Leave

ACTIVITIES

1. Family matter

ACHIEVEMENTS

1. N/A

WEEK 7

Log Book On 04-11-2024

OBJECTIVE

1. Expand knowledge about Unit Testing (mainly focusing on Java - JUnit test case).

ACTIVITIES

1. Conducted additional testing for the template file to verify that the rules are correctly implemented (previous week work verification).
2. Learned Unit Testing fundamentals to enhance test coverage.
3. Studied the concept of Mockito for creating mock objects in Unit Tests.
4. Researched Unit Testing methods specifically for file browse and file group browse functions.

ACHIEVEMENTS

1. Verified the accuracy of the template file rules through testing.
2. Developed a foundational understanding of Unit Testing and Mockito.

Log Book On 05-11-2024

OBJECTIVE

1. Understand the code structure of Arema ETL browse method
2. Complete KCCP configuration.

ACTIVITIES

1. Reviewed the code for the browse and other related methods to grasp the underlying concepts.
2. Analyzed and documented conditions and outlined test cases for effective coverage.
3. Got another task to work on - KCCP configuration (previously focused on KCCC configuration).
4. Did KCCP configuration accordingly
5. Sent the completed KCCP configuration to the supervisor for feedback.
6. Continued learning about test case development to enhance testing skills.

ACHIEVEMENTS

1. Developed a deeper understanding of the browse method and relevant code structure.
2. Successfully completed and submitted the KCCP configuration to the supervisor.
3. Progressed in test case formulation, building foundational skills in testing.

Log Book On 06-11-2024

OBJECTIVE

1. Begin developing test cases for FileBrowse & FileGroupBrowse and deepen understanding of test case design.

ACTIVITIES

1. Started writing test cases for FileBrowse, focusing on different conditions and expected outcomes.
2. Continued learning about test case design principles for improved coverage and effectiveness.
3. Reviewed the codebase to understand the program flow and identify areas critical for testing.
4. Engaged in a discussion with Mr. Lim Swee Keong to clarify concepts and best practices in test case formulation.

ACHIEVEMENTS

1. Initiated the creation of some test cases for FileBrowse.
2. Gained insights into effective test case design through study and guidance from Mr. Lim.

Log Book On 07-11-2024

OBJECTIVE

1. Test case development for FileBrowse and FileGroupBrowse
2. Update template scripts

ACTIVITIES

1. Continue writing test cases for FileGroupBrowse, focusing on thorough condition coverage.
2. Developed parameterized test cases to streamline testing and improve flexibility.
3. Learned from Mr. Lim Swee Keong about advanced topics, including test cases, dependency injections, and the builder design pattern.
4. New task received - Updated the template scripts to reflect changes requested by QA, specifically modifying the Internal Group Code.
5. Sent the finalized test cases to Mr Lim.

ACHIEVEMENTS

1. Finished the test cases and sent for verification.
2. Enhanced understanding of design patterns and testing techniques through discussions with Mr. Lim.
3. Successfully updated template scripts to align with new requirements.

Log Book On 08-11-2024

OBJECTIVE

1. Gain foundational knowledge of Apache Spark and explore the factory design pattern.

ACTIVITIES

1. Studied Apache Spark, focusing on its core components and operation.
2. Watched videos to understand how Spark processes data and its core functionalities.
3. Wrote a small Java program using Spark that reads from a CSV file and calculates the occurrence of each word in the file.
4. Explored the factory design pattern in depth to enhance software design skills.

ACHIEVEMENTS

1. Acquired a solid understanding of Apache Spark's fundamentals and core components.
2. Successfully implemented a basic word count program in Java using Spark.
3. Strengthened knowledge of the factory design pattern for application in future tasks.

WEEK 8

Log Book On 11-11-2024

OBJECTIVE

1. Set up testing files and experiment with performance comparisons between Excel and CSV.

ACTIVITIES

1. Configured new testing file configuration for performance evaluation.
2. Planned and initiated an experiment to compare the performance of Excel files versus CSV files.
3. Encountered a configuration issue with the Excel footer and proceeded with the experiment without implementing footer format.
4. Tested the CSV file using a dataset of 90k rows, but faced limitations due to laptop processing power.

ACHIEVEMENTS

1. Completed the initial configuration of testing files.

Log Book On 12-11-2024

OBJECTIVE

1. Continue performance experiments.
2. Understand process and fix bug of Insert Transaction URN.

ACTIVITIES

1. Code bug
 1. Read the code and gained a deeper understanding of its workflow.
 2. Created a new branch for testing and bug replication.
 3. Received a file to replicate a reported error and began addressing it.
2. File Experiment
 1. Continued the performance experiment by reducing data volume.
 2. Tested with 3.5k rows across 10 files rather than 9k records across 10 files.
 3. Laptop handled up to the 8th file before encountering an out-of-memory error.
 4. Presented the experiment's output and failure findings to Mr. Lim for feedback.

ACHIEVEMENTS

1. Successfully initiated the process before fixing the insert transaction URN bug.
2. Progressed with the performance testing and presenting findings to Mr Lim.

Log Book On 13-11-2024

OBJECTIVE

1. Resolve JIRA issues - fix file template (previously was misconfigured by me :<) - SQL
2. Fix Insert TRX bugs - Java code

ACTIVITIES

1. Fix template configuration
 1. Received a JIRA issue related to template configuration.
 2. Updated the template configuration based on the reported issue.
 3. Conducted experiments with the checkAmount function to ensure its correctness and functionality.
2. Fix bug
 1. Created a new branch to address the bug in the insert transaction URN process.
 2. Fixed the code for the bug and created a pull request for review.

ACHIEVEMENTS

1. Successfully made progress on the template configuration - have not completed yet.

2. Gained insights from experimenting with the checkAmount function.
3. Completed and submitted a pull request for the insert transaction URN bug fix.

Log Book On 14-11-2024

OBJECTIVE

1. Finalize template configuration
2. Continue performance experiments.

ACTIVITIES

1. Did some finishing touch to the template configuration
2. Completed and submitted the configuration to the supervisor.
3. Continued the performance experiment, testing with adjusted data sizes, allocate different memory for the IDE.
4. Encountered limitations due to excessive memory consumption, as the laptop was not powerful enough to handle the dataset efficiently.
5. Reported the experiment's findings and challenges to Mr. Lim for further guidance.

ACHIEVEMENTS

1. Successfully finalized and sent the template configuration to be reviewed in SIT.
2. Identified key performance issues during the experiment and shared findings for resolution planning.

Log Book On 15-11-2024

OBJECTIVE

1. Take an annual leave

ACTIVITIES

1. Attending family matter

ACHIEVEMENTS

1. Attended family matter

WEEK 9

Log Book On 18-11-2024

OBJECTIVE

1. Install and configure SonarQube and SonarScanner for code quality analysis.

ACTIVITIES

1. Installed SonarQube and SonarScanner for continuous integration and code quality checks.
2. Configured SonarQube and SonarScanner for the project.
3. Requested details for SonarQube configuration to ensure proper setup.
4. Completed the configuration for both SonarQube and SonarScanner, ensuring proper integration for code quality monitoring.

ACHIEVEMENTS

1. Successfully installed and configured SonarQube and SonarScanner.
2. Ensured all configurations were completed and access was requested to integrate the tools into the development workflow.

Log Book On 19-11-2024

OBJECTIVE

1. Understand the relationship between `@ConditionalOnProperty` and `ApplicationContext.getBean()`.

ACTIVITIES

1. Conducted an experiment on the behavior of `ApplicationContext.getBean()` with `@ConditionalOnProperty`.
2. Created a simple Spring Boot project to test and verify findings regarding bean initialization.
3. Documented and shared the findings with Mr. Lim.

ACHIEVEMENTS

1. Discovered that if `@ConditionalOnProperty` evaluates to false, attempting to retrieve the bean using `ApplicationContext.getBean()` results in a "bean not found" error.
2. Gained a deeper understanding of Spring's conditional bean management.

Log Book On 20-11-2024

Objective

1. Take MC

Activities

1. Go to clinic
2. Rest

Achievement

1. Body recovery

Log Book On 21-11-2024

OBJECTIVE

1. Develop and test STRUCT and LISTSTRUCT common functions.

ACTIVITIES

1. Assigned two new tasks: implementing STRUCT and LISTSTRUCT common functions.
2. Analyzed the existing codebase to understand the process flow and integration points.
3. Began working on the STRUCT common function.
4. Started writing test cases for the STRUCT function to ensure correctness and coverage.

ACHIEVEMENTS

1. Gained insights into the implementation of STRUCT and LISTSTRUCT functions.
2. Initiated development and testing of the STRUCT function.

Log Book On 22-11-2024

OBJECTIVE

1. Complete the STRUCT common function and integrate it into the system.
2. Create new branch for bugfix into UAT branch.

ACTIVITIES

1. STRUCT Common Function
 1. Completed the STRUCT common function and developed comprehensive unit test cases (using parameterized test cases and good test case practices).
 2. Requested necessary access permissions for repository operations.
 3. Created a pull request for the Arema ETL Gateway branch, to merge the changes.
2. Bugfix
 1. Created a new branch from the Arema ETL UAT branch to address additional issues.
 2. Updated code to fix a bug identified during development.
 3. Submitted a pull request to the Arema ETL UAT repository.

ACHIEVEMENTS

1. Successfully implemented and tested the STRUCT common function.
2. Contributed to bug resolution.

WEEK 10

Log Book On 25-11-2024

OBJECTIVE

1. Develop the LISTSTRUCT common function and ensure functionality with unit tests.

ACTIVITIES

1. Started coding the LISTSTRUCT common function.
2. Spent the day implementing the function and writing corresponding unit tests.
3. Identified areas to refine and improve, with plans to continue the task the following day.

ACHIEVEMENTS

1. Made significant progress on the LISTSTRUCT function and its unit tests, laying the groundwork for completion.

Log Book On 26-11-2024

OBJECTIVE

1. Finalize the LISTSTRUCT common function
2. Begin enhancements for the configuration template.

ACTIVITIES

1. Completed the LISTSTRUCT common function with detailed unit test cases (incorporating parameterized testing and effective test case practices).
2. Submitted a pull request for the Arema ETL gateway.
3. Assigned a new task: Development of foreign entity fields for customer profile and transaction files in the ETL template.
4. Enhanced the ETL template for improved clarity and usability.

ACHIEVEMENTS

1. Successfully completed the LISTSTRUCT function with robust testing practices.
2. Initiated work on foreign entity field enhancements, ensuring seamless integration into the ETL process.
3. Improved the overall template design, contributing to better workflow efficiency.

Log Book On 27-11-2024

OBJECTIVE

1. Enhance and finalize the template file for improved functionality and future usability.

ACTIVITIES

1. Completed work on the template file.
2. Added and refined the required columns to align with updated requirements.
3. Ensured the file structure supports seamless integration and future scalability.

ACHIEVEMENTS

1. Delivered an optimized template file tailored for improved clarity and usability.
2. Enhanced the file structure to facilitate future use and reduce rework efforts.

Log Book On 28-11-2024

OBJECTIVE

1. Begin configuration for a new client.

ACTIVITIES

1. Received assignment to configure for the new client SQL configuration.
2. Reviewed and analyzed the provided requirements in detail.

3. Listed out all necessary configurations and organized them into a structured format for clarity and planning.

ACHIEVEMENTS

1. Developed a clear understanding of the Cheil requirements.
2. Created a structured steps to approach the configuration process effectively.

Log Book On 29-11-2024

OBJECTIVE

1. Refine and validate code updates to meet current requirements while maintaining code quality.

ACTIVITIES

1. Adjusted a previously submitted pull request to align with updated requirements.
2. Utilized SonarQube and SonarScanner to detect and resolve potential errors or bugs in the modified code.
3. Verified that no additional bugs were introduced during the fixes.
4. Participated in the company's annual dinner event - evening.

ACHIEVEMENTS

1. Successfully updated the pull request to meet the latest requirements.
2. Ensured code quality and stability through static analysis tools.
3. Enjoyed team bonding and celebrations at the annual dinner.

WEEK 11

Log Book On 02-12-2024

OBJECTIVE

1. Develop and configure rules for CHEIL to extract state information accurately from addresses.

ACTIVITIES

1. Configured CHEIL customer profile and supplier profile to extract state information from address fields.
2. Implemented regex to perform state extraction while handling different scenarios.
3. Conducted research and deepened understanding of regular expressions, focusing on some cases such as street names containing state names (e.g., Jalan Perak, KL).

ACHIEVEMENTS

1. Successfully implemented a regex-based solution to address the challenging requirement for state extraction.
2. Gained advanced knowledge of regex to handle complex address parsing scenarios effectively.

Log Book On 03-12-2024

OBJECTIVE

1. Complete configuration tasks for CHEIL's customer and supplier profiles.

ACTIVITIES

1. Finalized the configuration for CHEIL customer profile and supplier profile, ensuring compliance with the requirements.
2. Reviewed and tested the configurations for accuracy and completeness.
3. Submitted the completed configurations to Mr. Swee Keong for review.

ACHIEVEMENTS

1. Delivered the CHEIL profile configurations to Swee Keong for review.
2. Ensured the configurations align with client requirements and organizational standards.

Log Book On 04-12-2024

OBJECTIVE

1. Fix and refine the CHEIL customer and supplier profile configurations.

ACTIVITIES

1. Identified a missed requirement in the previously submitted configuration.
2. Fixed the issue to align with CHEIL's requirements.

ACHIEVEMENTS

1. Ensured the CHEIL configuration met all requirements and resolved any discrepancies.

Log Book On 05-12-2024

OBJECTIVE

1. Test and refine the CHEIL configuration, addressing any issues identified during testing.

ACTIVITIES

1. Performed testing on the CHEIL configuration to ensure it met the required standards.
2. Addressed and fixed issues in the previous pull request based on the testing results.
3. Met some problems and debugging the issue.
4. Used Putty to debug the process and identify any underlying issues in the configuration.

ACHIEVEMENTS

1. Ensured that the CHEIL configuration was fully functional by identifying and fixing errors.
2. Debugged effectively using Putty, reading the log through Kubernetes interface.

Log Book On 06-12-2024

OBJECTIVE

1. Merged bugfix code done last week to UAT branch.
2. Finalize CHEIL customer profile configuration.

ACTIVITIES

1. Pull request is reviewed and accepted.
2. Merged the pull request into the UAT branch.
3. Completed the customer profile configuration for CHEIL.
4. Sent the updated configuration to Mr. Swee Keong for review.

ACHIEVEMENTS

1. Successfully completed the configuration and bug fix.
2. Ensured the customer profile was finalized and submitted for further review.

WEEK 12

Log Book On 09-12-2024

OBJECTIVE

- Complete KCC IGC update
- CHEIL invoice configuration.

ACTIVITIES

- Completed the KCC IGC update and related rule configurations.
- Worked on the CHEIL invoice configuration.
- Sent the rule to Mr. Swee Keong for forwarding to the SIT database.

ACHIEVEMENTS

- Finalized updates for KCC IGC
- Made progress for CHEIL invoice configuration.
- Ensured the rule was forwarded for SIT testing.

Log Book On 10-12-2024

OBJECTIVE

- Continue working on CHEIL configuration.

ACTIVITIES

- Continue configuring CHEIL rule.
- Encountered a requirement that doesn't align with MQ specs (impossible to be implemented as for the current system).
- Asked QA for clarification regarding the requirement.
- Continued working on other parts of the CHEIL configuration while waiting for the response.

ACHIEVEMENTS

- Made progress on the CHEIL configuration, addressing other aspects while awaiting QA feedback.

Log Book On 11-12-2024

OBJECTIVE

- Continue CHEIL configuration and align its requirements with MQ specs.

ACTIVITIES

- Reviewed the CHEIL configuration with QA for completeness and accuracy.
- Reconfirmed the requirements to ensure consistency.
- Proposed adjustments to align the conflicting requirement with MQ specs.
- Tested the CHEIL transaction configuration for functionality and correctness.

ACHIEVEMENTS

- Completed the base CHEIL configuration and do some testings.

Log Book On 12-12-2024

OBJECTIVE

- Adapt to updated requirements and prepare for implementation.

ACTIVITIES

- Reviewed the recent requirement changes to ensure clarity and feasibility.
- Planned the SQL logic to accommodate the new requirements effectively.
- Continue doing the updated requirements.

ACHIEVEMENTS

- Established a clear plan for implementing the updated requirements.

Log Book On 13-12-2024

OBJECTIVE

- Implement and adapt to new requirement changes.

ACTIVITIES

- Received updated requirements following the QA meeting with CHEIL clients.
- Reviewed and analyzed the changes to ensure alignment with the system's specifications.
- Updated configurations and rules to accommodate the new requirements.
- Fixed several parts of the existing implementation to address compatibility and completeness issues.

ACHIEVEMENTS

- Successfully integrated the new requirements into the configuration.
- Resolved minor issues to improve overall implementation quality.

WEEK 13

Log Book On 16-12-2024

OBJECTIVE

- Finalize the CHEIL requirements implementation.

ACTIVITIES

- Worked on completing the CHEIL configuration according to the provided requirements.
- QA informed about missing requirements.
- Updated the configuration to include the missing aspects.

ACHIEVEMENTS

- Completed and refined the CHEIL configuration to meet all specified requirements.

Log Book On 17-12-2024

OBJECTIVE

- Address CHEIL updates and start working on a newly assigned bug fix.

ACTIVITIES

- Updated the CHEIL configuration to incorporate the revised country list.
- Submitted the updated scripts to Mr Swee Keong.
- Assigned a new task to fix a reported bug in the system.
- Awaiting the necessary file to replicate the error for testing purposes.

ACHIEVEMENTS

- Successfully updated and delivered the CHEIL country list configuration.

Log Book On 18-12-2024

OBJECTIVE

- Address updates for CHEIL
- Reading code to begin enhancing the SendService functionality.

ACTIVITIES

- Received a new update for CHEIL requirements.
- Modified the rules and configuration to align with the updated requirements.
- Assigned a new task to enhance the SendService code.
- Started analyzing the existing SendService implementation to plan improvements.

ACHIEVEMENTS

- Successfully updated the CHEIL configuration with the latest changes.
- Began groundwork for enhancing the SendService functionality.

Log Book On 19-12-2024

OBJECTIVE

- Enhance the SendService functionality and update the KCC rules based on new requirements.

ACTIVITIES

1. Continued working on the SendService code
 - Analyzed and tested the existing implementation
 - Made initial enhancements but identified the need for deeper understanding of the system for further improvements.
2. Received an update for the KCC rules.
 - Give the KCC rule update a read.

ACHIEVEMENTS

- Progressed in enhancing the SendService functionality.

- Planned tomorrow's work for KCC.

Log Book On 20-12-2024

OBJECTIVE

- Ensure system stability through regression testing (KCC)
- Continue configuring CHEIL requirements.

ACTIVITIES

- Conducted regression testing for the updated KCC requirements:
 - Verified compliance with new requirements.
 - Ensured no regressions or issues were introduced to previous configurations.
- Worked on implementing the CHEIL requirements:
 - Analyzed and updated the configuration based on the latest instructions - stuck on error.

ACHIEVEMENTS

- Confirmed that the KCC configuration changes met the new requirements without impacting existing functionality.

WEEK 14

Log Book On 23-12-2024

OBJECTIVE

- Do testing for CHEIL requirements and address encountered issues.

ACTIVITIES

- Tested the CHEIL requirements implementation.
- Faced an error during testing due to dev database downtime - I cant do anything :(have to wait.
- Continued testing CHEIL requirements once the database was operational.

ACHIEVEMENTS

- Identified potential issues for further refinement.

Log Book On 24-12-2024

OBJECTIVE

- Resolve issues with CHEIL and KCC configurations and finalize the requirements.

ACTIVITIES

- Fixed the configuration for CHEIL to meet updated requirements.
- Encountered a problem with a previous KCC requirement:
- Discussed the issue with Swee Keong.
- Found the cause- one of the previous scripts was not ran. Implemented the necessary fixes.
- Updated and completed the CHEIL requirement after addressing the outstanding tasks.

ACHIEVEMENTS

- Successfully resolved the KCC requirement issue through collaboration.
- Finalized and delivered the CHEIL configuration.

Log Book On 26-12-2024

OBJECTIVE

- Fix unconsumed messages in ActiveMQ and transition retry handling to ActiveMQ instead of hardcoding retries.

ACTIVITIES

- Received new task to address unconsumed messages in ActiveMQ.
- Current process uses manual retry backoff; task is to transition retry handling to ActiveMQ's built-in functionality.
- Watched tutorials on ActiveMQ to understand retry handling mechanisms.
- Continued learning about Spring Boot and microservices to better implement the solution.

ACHIEVEMENTS

- Gained a deeper understanding of ActiveMQ and its retry capabilities.
- Expanded knowledge of Spring Boot and microservices for the implementation of the solution.

Log Book On 27-12-2024

OBJECTIVES

- Progress for unconsumed message JIRA issue

ACTIVITIES

- Watched videos on ActiveMQ to better understand its flow and retry handling mechanisms.
- Studied the concepts of message consumption, retry strategies, and how to optimize the system using ActiveMQ's built-in features.
- Refactored some codes, using try with resource block - new concept learnt!

ACHIEVEMENTS

- Gained insights into enhancing the system by leveraging ActiveMQ's automatic retry capabilities.
- Refactored some codes and pushed to new branch.

WEEK 15

Log Book On 30-12-2024

OBJECTIVE

- Optimize queue destination method for activeMQ.

ACTIVITIES

- Received the ActiveMQ XML configuration from Mr Swee Keong.
- Studied the XML code to deepen understanding of the system's current configuration.
- Conducted experiments with the ActiveMQ XML to test various configurations and parameters, specifically focusing on the queue destination settings.

ACHIEVEMENTS

- Enhanced knowledge of ActiveMQ XML structure and how it interacts with the queue system.
- Identified potential configurations to include in the queue destination parameter for better customization and performance.

Log Book On 31-12-2024

OBJECTIVE

- To optimize system performance by understanding and implementing activeMQ configurations related to storage and failover mechanisms.

ACTIVITIES

- Researched ActiveMQ documentation focusing on:
 - storageHighUsageWaterMark: Determines the threshold for high storage usage.
 - sendFailIfNoSpace: Configures behavior when storage space is insufficient.
- Continued experimenting with the configurations to test their impact on performance and reliability.
- Developed and refined code to implement the learned configurations effectively.

ACHIEVEMENTS

- Gained deeper insight into ActiveMQ's storage management and failover settings.
- Made progress for the code.

Log Book On 02-01-2025

OBJECTIVE

- Continue enhancing system's message queue by researching and implementing improvements for activeMQ configuration.

ACTIVITIES

- Read ActiveMQ documentation to understand its configurations and optimization strategies.
- Conducted research on enhancing the message queue's performance and scalability.
- Continue coding to implement the configuration.

ACHIEVEMENTS

- Gained a deeper understanding of ActiveMQ's message queue configurations.
- Identified potential improvements for performance optimization and reliability.

Log Book On 03-01-2025

OBJECTIVE

- To optimize ActiveMQ message handling by implementing an internal queue using BlockingQueue and adjusting configurations for destination-based queues.

ACTIVITIES

- Changed the code to utilize an internal queue (BlockingQueue) for more efficient message processing.
- Updated ActiveMQ XML configuration to set up destination-based queues for better message routing.

ACHIEVEMENTS

- Made some progress on the code.

WEEK 16

Log Book On 06-01-2025

OBJECTIVE

- To debug and refactor existing code to resolve issues with @Value annotation in Spring Boot while pushing to SIT environment.

ACTIVITIES

- Attempted to push the changes to SIT but encountered issues related to the @Value annotation.
- Refactored unused code for optimization and better structure.
- Debugged existing code to understand why Spring Boot was not handling the object correctly with @Value. (This is because, the object created was not instantiated automatically by Spring, but it was created manually through *new* keyword. Thus Spring wont do dependency injection for that particular object)

ACHIEVEMENTS

- Successfully identified areas to refactor and began debugging to resolve @Value-related issues in the Spring Boot application.

Log Book On 07-01-2025

OBJECTIVE

- To fix issues with @Value annotation
- Correct database configuration for CHEIL - BAQA request.

ACTIVITIES

- Created a pull request for the enhancement addressing the @Value annotation issue.
- Fixed the CHEIL configuration by correcting the mistyped orilnvNo in the database.

ACHIEVEMENTS

- Successfully addressed the @Value annotation issue and fixed the CHEIL configuration for proper database handling.

Log Book On 08-01-2025

OBJECTIVE

- To fix the infinite waiting issue and implement retry backoff for the current fix, while also sending the orilnvNo fix to Swee Keong.

ACTIVITIES

- Identified and addressed the infinite waiting issue in the current fix.
- Updated pull request.
- Worked on implementing retry backoff to ensure proper handling of failed attempts.
- Sent the corrected orilnvNo fix to Swee Keong.

ACHIEVEMENTS

- Progressed in resolving the infinite waiting issue and retry mechanism
- Sent CHEIL fix to Swee Keong.

Log Book On 09-01-2025

OBJECTIVE

- To fix the code issue by updating error handling
- Plan for addressing a new CHEIL requirement change.

ACTIVITIES

- Fixed the code issue by updating the logic to throw the error to the parent, stopping further progress.

- Received a new CHEIL error, which is actually a requirement update.
- Started planning the approach to fix the new CHEIL requirement change.

ACHIEVEMENTS

- Successfully updated the error handling in the code and began planning the solution for the new CHEIL requirement change.

Log Book On 10-01-2025

OBJECTIVE

- To implement all the requirements for the ActiveMQ enhancement task and refactor old code while working on CHEIL configuration.

ACTIVITIES

- Fixed the code to implement all the requirements for the ActiveMQ enhancement task.
- Created a pull request for the ActiveMQ enhancement.
- Received a new task to refactor old code.
- Continued working on the CHEIL configuration.
- Create new branch for UAT for another pull request

ACHIEVEMENTS

- Completed the ActiveMQ enhancement and refactored the necessary code.
- Began progress on the new task and continued working on the CHEIL configuration.

WEEK 17

Log Book On 13-01-2025

OBJECTIVE

- To continue progress on CHEIL configuration, perform regression testing on the ActiveMQ code, and implement updates for retry backoff.

ACTIVITIES

- Continued with CHEIL configuration.
- Performed regression testing on previous progress, specifically the runSendMsg code.
- Updated the code to utilize retry backoff, identified this after regression testing.
- Received confirmed requirements from CHEIL QA and proceeded with the updates.

ACHIEVEMENTS

- Successfully completed regression testing and implemented the necessary fixes for retry backoff. Continued progress on CHEIL configuration based on confirmed requirements from QA.

Log Book On 14-01-2025

OBJECTIVE

- To complete the CHEIL configuration
- Start working on code refactoring for Apache Spark Initialization.

ACTIVITIES

- Sent the completed CHEIL configuration to Swee Keong.
- Received a new task for code refactoring.
- Reviewed the code to understand what needs to be fixed and added, and studied the flow of the process.

ACHIEVEMENTS

- Successfully completed the CHEIL configuration
- Began the refactoring process by analyzing the code flow.

Log Book On 15-01-2025

OBJECTIVE

- To refactor the existing code by understanding its flow and making necessary improvements.

ACTIVITIES

- Studied the code to understand its structure and identify areas for improvement.
- Started refactoring the code, focusing on optimization and enhancing readability.

ACHIEVEMENTS

- Progressed with the code refactoring task, focusing on improving the code quality and performance.

Log Book On 15-01-2025

OBJECTIVE

- To refactor the existing code by understanding its flow and making necessary improvements.

ACTIVITIES

- Studied the code to understand its structure and identify areas for improvement.
- Started refactoring the code, focusing on optimization and enhancing readability.

ACHIEVEMENTS

- Progressed with the code refactoring task, focusing on improving the code quality and performance.

Log Book On 17-01-2025

OBJECTIVE

- To complete the refactoring task, ensure code quality, and address identified issues.

ACTIVITIES

- Created a pull request for the refactored code.
- Fixed some identified issues in the code - reviewed by Swee Keong.
- Ran the code through SonarQube for static analysis.
- Addressed and fixed SonarQube bugs.
- Created an updated pull request with fixes.

ACHIEVEMENTS

- Successfully completed the refactoring task, ensuring code quality through SonarQube analysis and making necessary fixes.

WEEK 18

Log Book On 20-01-2025

OBJECTIVE

- Take annual leave

ACTIVITIES

- Family matter

ACHIEVEMENTS

- Relationship bonding

Log Book On 21-01-2025

OBJECTIVE

- Ensure the UAT deployment process is smooth by resolving any bugs and verifying the code through thorough testing.

ACTIVITIES

- Merged the pull request for SIT and proceeded with the UAT deployment.
- Submitted a pull request for UAT after verifying initial changes.
- Conducted extensive testing to validate the implementation.
- Identified a bug during testing and implemented a fix.
- Resubmitted updated pull requests for both SIT and UAT.
- Awaiting code review and approval.

ACHIEVEMENTS

- Progressed the changes to UAT while maintaining code quality through testing and debugging.

Log Book On 22-01-2025

OBJECTIVE

- Ensure the program runs without errors and begin implementing the newly assigned task.

ACTIVITIES

- Captured and documented the program output, confirming successful file processing with no errors.
- Shared the output with Mr. Soo Keun Fei for verification.
- Received a new task assignment and reviewed its requirements.
- Analyzed the underlying concept to understand the implementation approach.
- Started coding the initial parts of the task, testing different implementations.

ACHIEVEMENTS

- Verified program correctness, communicated progress, and initiated development on the new task.

Log Book On 23-01-2025

OBJECTIVE

- Refactor the getConfiguration code while exploring advanced Spring Boot functionalities.

ACTIVITIES

- Continued working on the task, focusing on refactoring getConfiguration.
- Experimented with Spring Boot features, including Immutable, OneToMany, and read-only restrictions.
- Received approval for a previous pull request.
- Requested Swee Keong to test the approved changes.

ACHIEVEMENTS

- Enhanced understanding of Spring Boot functionalities and progressed with the refactoring task.

Log Book On 24-01-2025

OBJECTIVE

- Continue working on the task
- Faculty supervisor visit

ACTIVITIES

- Continue debugging the code
- Tracking the code flow with debugger
- Did a 1 to 1 session with Swee Keong to better understand the code
- After solat Jumaat, presented the Industrial Training Visit presentation to Dr Norhaida
- Next, continue working on the task

ACHIEVEMENTS

- Made progress for the task
- Successfully presented the industrial training slide to supervisors.

WEEK 19

Log Book On 27-01-2025

OBJECTIVE

- Refactor the getConfiguration code for improved efficiency and clarity.

ACTIVITIES

- Continued refining the getConfiguration logic to enhance maintainability.
- Gained a deeper understanding of the code through extensive analysis.

ACHIEVEMENTS

- Improved comprehension of the existing implementation, aiding in effective refactoring.
- Progressed further in optimizing the getConfiguration functionality.

Log Book On 28-01-2025

OBJECTIVE

- Optimize the getConfiguration functionality by improving data structure handling.

ACTIVITIES

- Implemented the planned changes and validated the functionality.
- Restructured the HashMap to retrieve conditions and results from the rule parent instead of creating a new parent for cond and rst.

ACHIEVEMENTS

- Improved data retrieval efficiency by optimizing HashMap structure.
- Ensured the implemented changes function correctly without introducing new issues.