

# CAPSTONE BIWEEKLY LOGS

Name:	ONG JIA EN, DARRYL	Time Period [Start date – End date]:	01/09/25-10/04/26
Student ID:	2301402	Log Period:	Trimester 1/ Week 3 & 4
Company:	WizVision Pte. Ltd		

Provide concise 1-2 lines for each of the sections highlighted in yellow below (do not exceed 1 page)

## Problem Tackled

Batch jobs in enterprise systems are often created and left running without regular monitoring. This leads to forgotten, redundant, or silently failing jobs over time. This capstone project aims to develop a Batch Job Lifecycle Monitor – a rules-driven system that tracks, classifies, and alerts on batch jobs to improve reliability, governance, and efficiency.

## Task(s) and Action(s)

- Requested and reviewed industry-proposed capstone ideas for consideration from Francis, my industry supervisor, CEO of WizVision
- Met with Francis to discuss potential directions and aligned scope with integrated Edusave Awards Selection & Administration (iEASA) while ensuring separation from IWSP
- Researched possible project topics such as a Batch Job Creation Platform and Report Modernization (Convert use of Jasper to Apache POI)
- Discussed common pain points with batch jobs, such as forgotten jobs and failures caused by password updates, with Francis and Jia Jun, my project leader
- Decided on Batch Job Lifecycle Monitor – drafted a idea proposal for approval from both my academic and industry supervisor, Prof Jacob and Francis, respectively
- Refined my idea after getting approval and improvement suggestions from both Prof Jacob and Francis
- Defined a tentative technology stack – Java Spring Boot (backend), Vue.js (frontend), Quartz (scheduler), MySQL (database) and a custom metadata-driven rules engine

## Result(s) and Learning(s)

- Finalized my Capstone Project as the Batch Job Lifecycle Monitor, which will help to detect, manage, and prevent failures in batch jobs
- Gained experience in problem scoping and learned how to align project scope with industry needs while ensuring feasibility
- Understood the importance of stakeholder feedback – as both Prof Jacob and Francis have vast experience in this industry, their feedback and suggestions will make my idea more well-rounded and complete. Suggestions include role-based access control and anomaly detection
- Established a technology stack aligned with industry practices, ensuring relevance and future extensibility

## Future Tasks

- Transfer my idea proposal into the official capstone project proposal template given by SIT, run by Francis for vetting and submit by the deadline on 29<sup>th</sup> September.
- Break down the project into achievable phases and plan initial milestones
- Set up the development environment (Spring Boot + MySQL + Vue.js)
- Begin system design, including drafting the database schema and defining lifecycle rules

☒ I acknowledge that I have got approval from my Industry supervisor before submitting the logs and there is no sensitive information in this log.

Student's signature



Date: 12/09/25