# Software Portfolio: Procurement Request System



## Introduction

#### **Problem Statement**

A department needs a system to manage procurement requests.

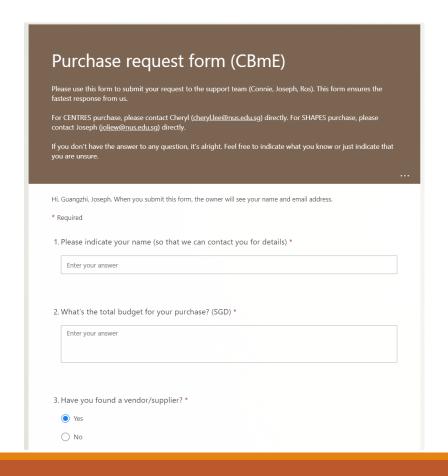
### Requirements

- Managers can view job status and assign tickets to procurement staff.
- Track KPI metrics of request resolution.
- Push-based notification to procurement staff for prompt response.
- Procurement requesters must submit complete data required by procurement staff.



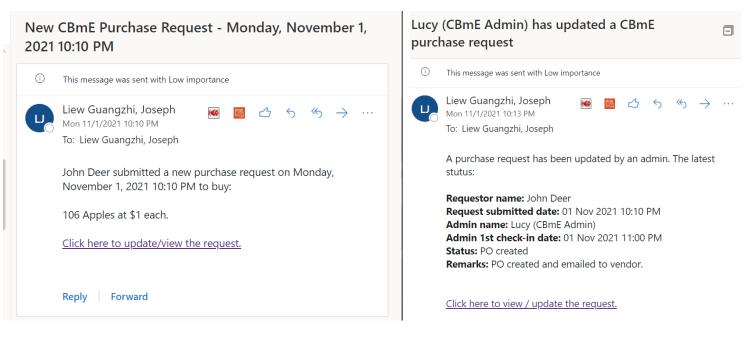
# Showcase: System Features

### **Guided Request Form (MS Forms)**



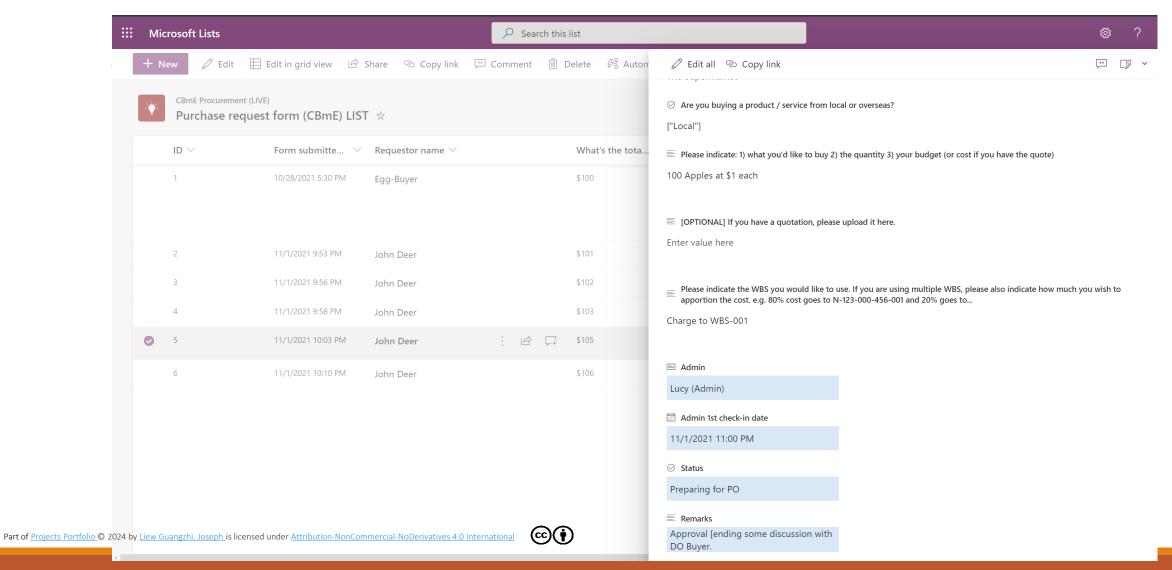
### **Push email notification and status tracking (MS Power Automate)**

Features:
 Summary, timestamp, link to Procurement Request System



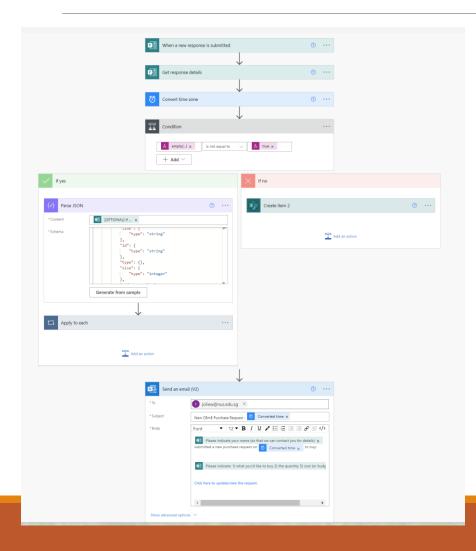


## Jobs System: View and update job status (SharePoint Lists)



## Data flow (Power Automate)

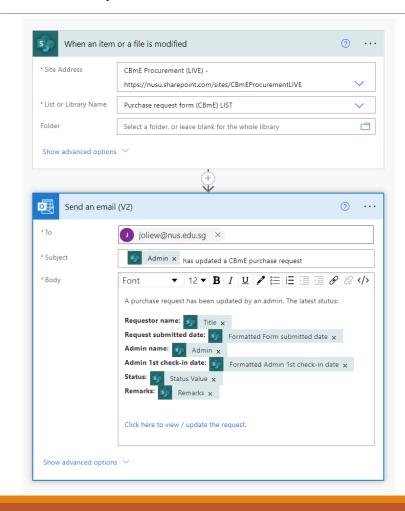
#### Job ticket automation



- 1. Requester submits data and attachment through MS Forms as JSON.
- Submission time captured.
- 3. Automated logic to parse attached files from JSON into HTML hyperlink.
- 4. Automated logic to parse data into Jobs System.
- 5. Push email notification to procurement staff with autopopulated summary.

## Data flow (Power Automate)

### Status update automation

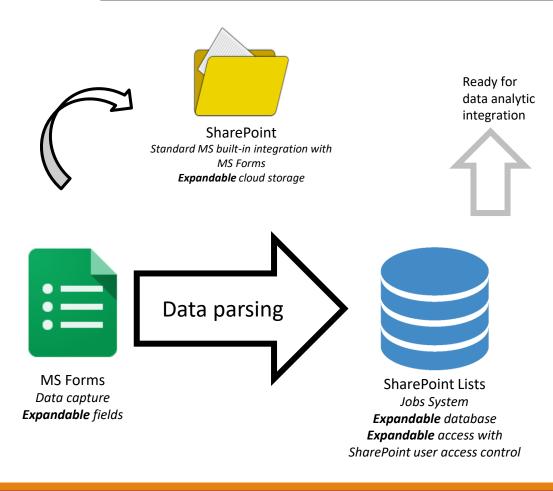


- Logic auto-detects updates in Jobs System.
- Push email notification to procurement staff with autopopulated summary.
- Special feature:
  Faster automation. Push notification within 30s.
  - No data parsing for MS Power Automate.
  - Faster processing for Power Automate server.
  - When user updates job in Jobs System, data is instantly parsed within Jobs System.
  - Parsed data ready to export for business analytics.



## Scalable Design

Designed for scalability. Clean system in 3 steps.



- Scalable:
  - Data storage
  - User access
- Data analytics ready
- Minimal steps stay fast and efficient in scale up
- Minimalist workflow support easy upgrades and debugging

