

Microsoft Power Platform

# Asset Management App – Streamlining Organisational Asset Lifecycle

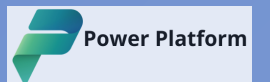
Developed by Solomon Okpuno | Microsoft Power Apps + Power Automate



Power FX

October 2025 v1.0

Dataverse



# Executive Summary

- 🔄 Digitally transforms asset requests, approvals, and allocations
- 🔄 Automates manual tracking through Power Automate and Dataverse
- ✅ Enhances compliance with audit trails and policy validation
- 👁 Improves visibility for managers and IT admins

## Before vs After

### Manual Process



- × Paper-based forms
- × Email approvals
- × Spreadsheets
- × Limited visibility

### Automated Process



- ✅ Digital forms
- ✅ Automated workflows
- ✅ Centralized data
- ✅ Real-time tracking

# Business Context & Problem Statement



## Delays and Lost Equipment

Manual asset tracking processes created bottlenecks and increased risk of misplacing valuable assets



## Lack of Accountability

No clear ownership or responsibility tracking for assigned assets across the organization



## Limited Audit Visibility

Insufficient tracking mechanisms and policy enforcement created compliance risks



Processing Delays



Lost Assets





Compliance Risks

# Introducing the Asset Management App

A Model-Driven App using Microsoft Dataverse as the data backbone






## Dataverse Tables

-  Assets
-  Allocations
-  Employees
-  Approvals






## Power Automate Flows

-  Approval Flow
-  Outside Policy Flow
-  Update Asset on Allocation



## Business Rules

-  Conditional Field Visibility
-  Validation Logic
-  Automated Notifications



Power Apps



Power Automate



Dataverse

# Workflow & Process Logic



■ Standard Process Flow    ■ Exception/Conditional Flow

# Key Features & Automations



## Automated Approvals

Streamline approval workflows with Power Automate, reducing manual intervention and processing time



Approval Flow Mockup



## Policy Validation

Business rules automatically validate requests against organizational policies before approval



Validation Rule Mockup



## Real-time Notifications

Instant alerts in Teams and Email keep stakeholders informed throughout the asset lifecycle



Teams Notification Mockup



## Dynamic Dashboards

Role-based views provide relevant insights and data visualization for different user types



Dashboard Mockup



## Audit Logging


Complete audit trail in Dataverse tracks all asset transactions for compliance and reporting



Audit Log Mockup


# Benefits & Impact

⌚ Before Automation




2 days

Average approval time




Partial

Asset traceability



85%


System uptime



65%

User satisfaction


✨ After Implementation



<24 hours

Average approval time


↘️ 92% faster



100%

Asset traceability


↗️ Complete



99%

System uptime


↗️ +14%



90%+


User satisfaction

↗️ +25%




92%

Process Efficiency Improvement



75%

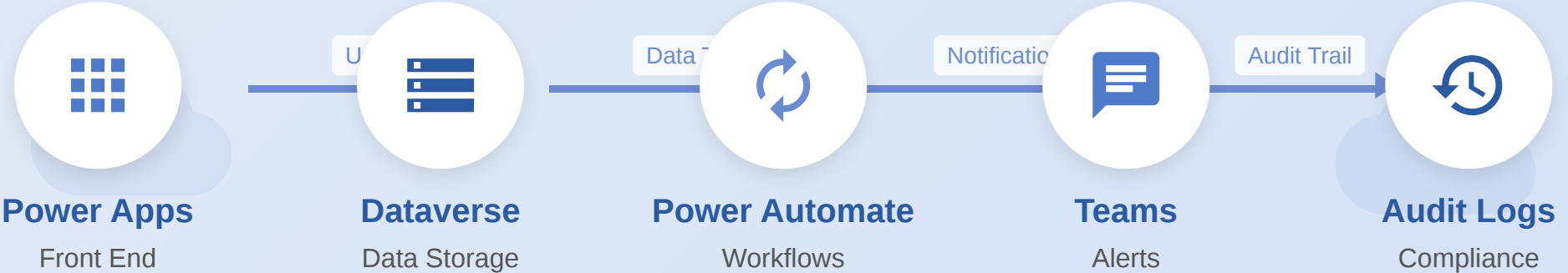
Cost Reduction in Asset Management



80%

Reduction in IT Support Tickets

# Technical Architecture






Integrated solution architecture leveraging Microsoft Power Platform components for end-to-end asset lifecycle management



# Governance & Security






## Dataverse Role-Based Access

-  **Employee:** View and request assets
-  **Manager:** Approve requests and monitor team assets
-  **Admin:** Full system access and configuration






## Data Integrity & Compliance

-  Complete audit trail for all asset transactions
-  Automated policy validation and enforcement
-  Compliance with organizational and regulatory standards






## Environment Security

-  **Development:** Isolated testing environment
-  **UAT:** User acceptance testing with validation
-  **Production:** Secure deployment with monitoring



## Backup & Restore Strategy

-  Automated daily backups of all Dataverse data
-  Point-in-time recovery capability for critical assets
-  Regular disaster recovery testing and validation

# Lessons Learned & Future Enhancements



## Power BI Integration

Advanced trend analysis and predictive asset lifecycle reporting



## Barcode Scanning

Physical asset verification with mobile device integration



## AI Copilot Integration

Predictive maintenance and automated asset recommendations



## Mobile-First Experience

Enhanced responsive design for field technicians and remote workers



## Next Steps

1

### Power BI Dashboard Integration

Q4 2025



2

### Mobile App Enhancement

Q1 2026



3

### Barcode Scanning Implementation

Q2 2026



4

### AI Copilot Integration

Q3 2026



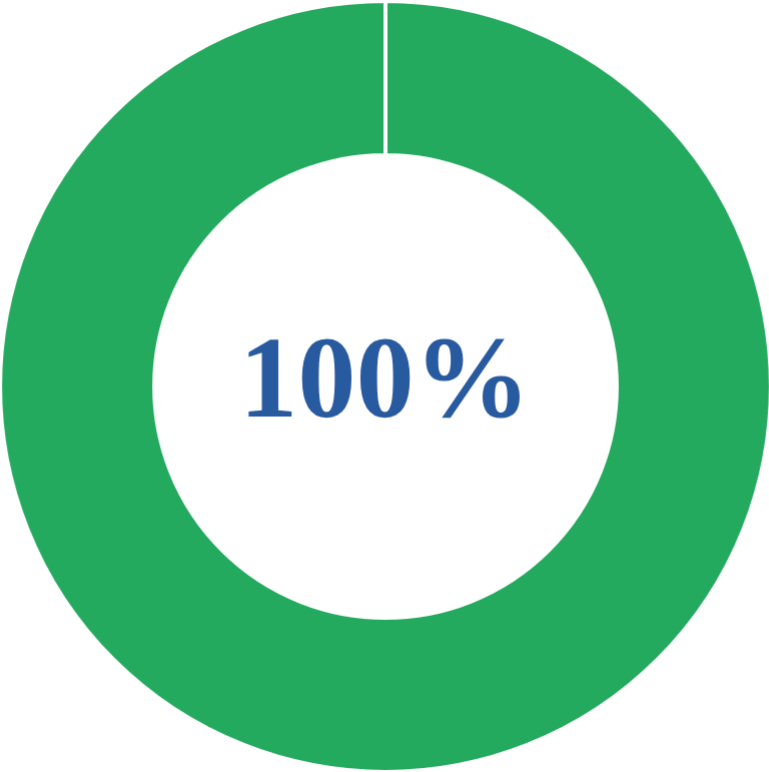
# UAT and Success Metrics



## UAT Plan Summary

- ✓ **10 test cases** executed successfully
- ⚙️ All **major defects** resolved
- 🕒 UAT completed **on schedule**

 **Final Sign-Off**  
IT Admin and Department Manager

## Test Coverage & Pass Rate



 Passed (100%)  Failed (0%)

# Microsoft Power Platform

The Asset Management App demonstrates how low-code automation can modernise asset lifecycle management while enforcing accountability, speed, and data transparency.

Power BI  
Business analytics

Power Apps  
Application development

Power Automate  
Process automation

Power Virtual Agents  
Intelligent virtual agents

Power Pages  
External facing v



Power Platform



Microsoft

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AI Builder

Dataverse

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