Project Design Phase
Problem – Solution Fit

Date	24 June 2025
Team ID	LTVIP2025TMID29498
Project Name	Asset Management Portal
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Maximum Marks	2 Marks

Problem–Solution Fit: Asset Management Portal

The **Problem–Solution Fit** for the Asset Management Portal highlights how the system effectively addresses key challenges organizations face in managing both physical and digital assets. By aligning with real-world workflows, administrative requirements, and employee needs, the solution improves operational efficiency, reduces losses, and enhances informed decision-making.

Purpose

- Solve complex asset tracking and allocation problems by aligning with real organizational structures and needs.

- Accelerate system adoption by streamlining asset request, approval, and allocation processes for employees.

- Enhance transparency and accountability by providing real-time visibility into asset status and history.

- Build trust through proactive alerts for maintenance and asset lifecycle events, reducing downtime and losses.

- Automate asset operations to reduce administrative overhead and improve record-keeping accuracy.

Problem–Solution Summary

Identified Problem	Proposed Solution
Lack of centralized tracking for physical and digital assets	Unified platform managing the full asset lifecycle
No standardized request and allocation process	Role-based access for employees to request and track assets
Delays or misses in asset maintenance and replacement	Alert system for maintenance and lifecycle management
Poor visibility into asset utilization	Real-time reports and dashboards showing asset status, usage, and allocation
High risk of asset loss or underutilization	Automated logging, auditing, and assignment history

Identified Problem

Manual record-keeping prone to errors

Difficulty identifying which assets are underperforming or due for replacement

Proposed Solution

Custom forms, validation rules, and automated updates

Performance metrics and condition-based triggers for review or replacement

Outcome

By achieving a strong **problem–solution fit**, this project ensures that:

- Organizations can efficiently **track, allocate, and maintain** assets across departments.

- The portal integrates seamlessly into existing **organizational workflows** and employee habits.

- The system proactively **reduces downtime, improves transparency**, and prevents asset mismanagement.

- Decision-makers have **real-time insights** that support cost-effective and data-driven operations.

- The platform fosters **accountability and trust**, ensuring long-term engagement and consistent use.

Template:

Problem-Solution fit canvas 2.0

Purpose / Vision

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) `CS`
- IT/Admin teams managing asset lifecycles
- Employees requesting, using, or returning assets
- Procurement and finance departments tracking usage and cost

6. CUSTOMER CONSTRAINTS `CC`
- Limited time and manpower to manage assets manually
- Budget limitations for complex asset management tools
- Need for a user-friendly interface for non-technical staff

5. AVAILABLE SOLUTIONS `AS`
- Excel/Google Sheets — decentralized, manual, and error-prone
- Email-based or paper request processes — time-consuming and lacks auditability
- ERP systems — powerful but often overly complex and costly
- No dedicated, lightweight portal focused on organization-wide asset lifecycle

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS `J&P`
- Track and manage physical and digital assets in a centralized system
- Monitor asset condition, allocation, and usage
- Automate asset assignment and approval processes
- Receive timely alerts for maintenance or replacements
- Generate real-time reports for asset utilization and planning

9. PROBLEM ROOT CAUSE `RC`
- No dedicated, centralized system for tracking asset allocation, lifecycle, and usage
- Manual tracking tools lead to errors, inefficiencies, and lost records
- Lack of real-time visibility into asset condition and performance

7. BEHAVIOUR `BE`
- Track assets using spreadsheets or ad-hoc systems
- Assign assets informally via email or verbal approvals
- Maintain maintenance logs manually (if at all)
- Only audit or verify asset condition during periodic reviews or when issues arise

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS `TR`
- Asset losses, misplacement, or theft
- Sudden downtime due to unmaintained or failed assets
- Pressure to optimize resource allocation and reduce overhead
- Audits and compliance requirements

4. EMOTIONS: BEFORE / AFTER `EM`
- Before: Frustrated, overwhelmed, anxious about asset mismanagement
- After: In control, confident with streamlined operations and accurate records

10. YOUR SOLUTION `SL`
- A centralized Asset Management Portal with:
- Role-based access for employees and administrators
- Asset lifecycle tracking: request → approval → allocation → maintenance → disposal
- Automation: alerts, approvals, audit trails
- Reporting dashboards for asset condition, usage, and history
- Scalable for organizations of varying sizes

8. CHANNELS of BEHAVIOUR `CH`
8.1 ONLINE
- Use internal tools like shared drives or spreadsheets
- Search for basic asset tracking templates or free software

8.2 OFFLINE
- Rely on verbal communication or paper-based asset registers
- Manual approval and allocation via printed forms

Extract online & offline CH of BE

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