PROBLEM ARCHITECTURE

DATE	01 OCTOBER 2022
TEAM ID	PNT2022TMID08878
PROJECT NAME	Retail Store Stock Inventory Analytics
MAXIMUM MARKS	4 MARKS

Shop System

Services (Payments, logistics)

- Catalogue
- Cart
- Check-out

Backend

B2B Gateway

- Customer
- Supplier

Core Entity Management

- Web content
- Product information
- ERP

Logistics

- Stock management
- Consignment
- Stock receipt
- Return Shipments

Analytics And BI

Service Customer (Retail Chain)

Cash Desk PC Store 1 / Cash Desk 1
RetailSolution Client

Cash Desk PC Store n / Cash Desk m
RetailSolution Client

Service Provider

Main Server
- Payment Service
- Inventory Service

Database Server
- Inventory

External Service Provider(s)

Bank Server
- Bank Service

Retail Chain Enterprise

Inter-store interactions

Retail Store Boundary

Suppliers

Seamless supplier sourcing

Warehousing Systems

Back-office Systems

Supplier Sourcing Systems (B2B)

Internal Systems

Fast, responsive internal ops

Manufacturers

Inventory Systems

Financial/ HR & Other Systems

Employees

Intermediaries

Efficient, self-service consumer touchpoints

In-Store Device Touchpoints

Fixed POS/ Kiosk

Price Checker

Self-Checkout

Point-of-Sale System

Fast & efficient interactions

Ecosystem Services

Senior Citizens' Benefit Providers

Lottery Provider

Text

In-Store Shoppers

Online presence, secure access & payments

Hybrid Store (Physical+Digital) Eg: AmazonGO

Digital Store

Consumer Mobile

E-Commerce Website

Order online Fulfill Anywhere

Integrated customer experiences

Omnichannel experiences

Delivery Partners

Shoppers

Legend:
- *Desired business objectives*
- *Retail systems*
- *Digital Store components*
- *External systems*

Logistics companies

Shared-economy delivery

Store delivery service