

*Development of a
Computerized Inventory
Management System*

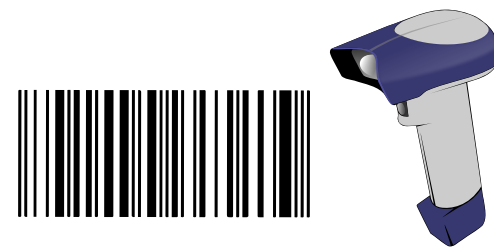
***for PMS Auto
Parts Trading***

M E M B E R S

LIMPIADO, JANN ELIJAH
LEGASPI, ALYSSA MARIE
SANAY, MARGARET
MISTICA, NOREEN

PMS AUTO PARTS TRADING INVENTORY SYSTEM - System Architecture Diagram

Barcode Scanners



STAFF

Desktop/ Web Browser



ADMIN

Barcode Printer



Internal Corporate Network

Realtime Dashboard Updates
(Websockets)

APPLICATION SERVER

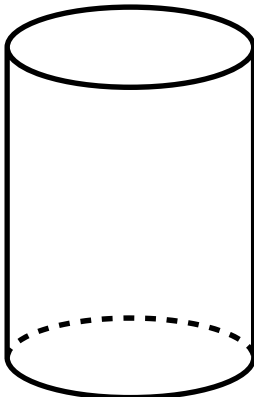
Inventory Service

User Service

Reporting & Analytics Service

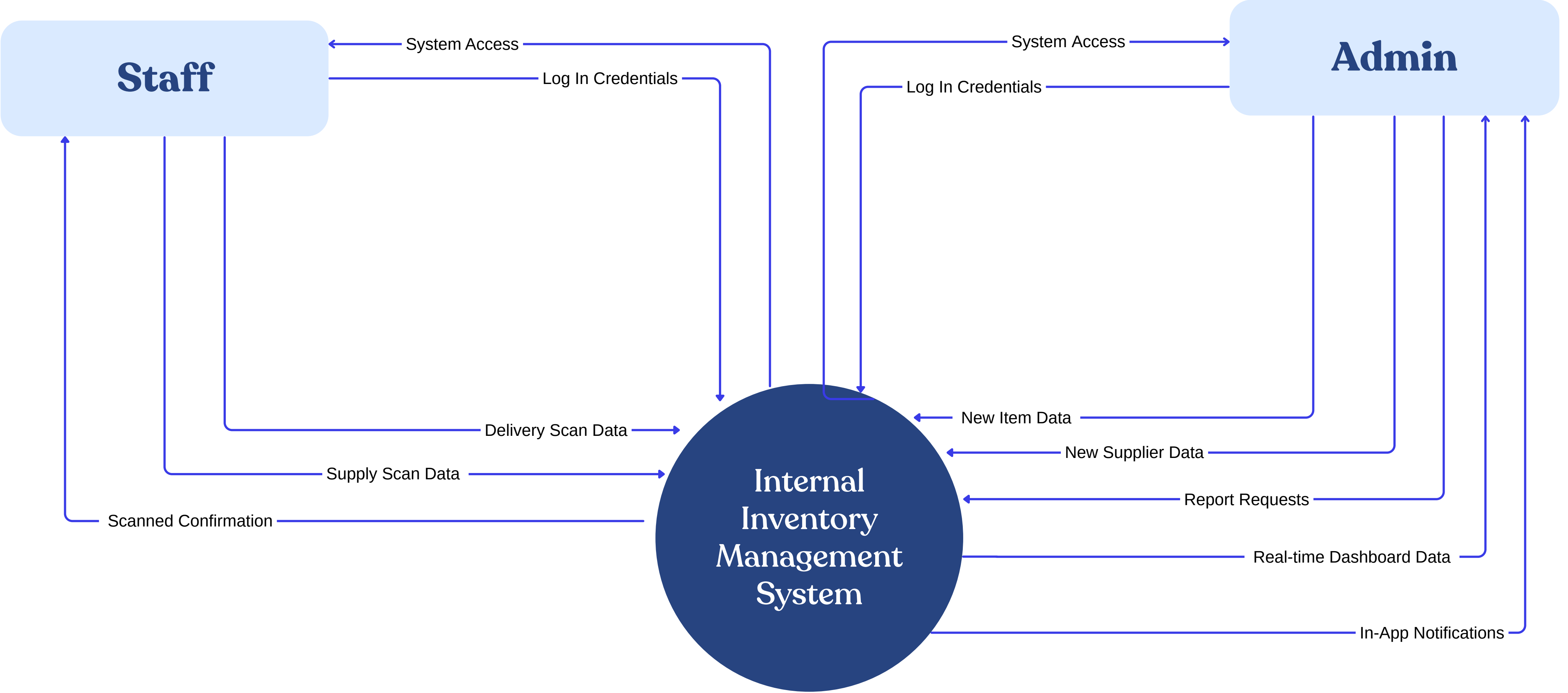
Notification Service

Real-time Communication Channel

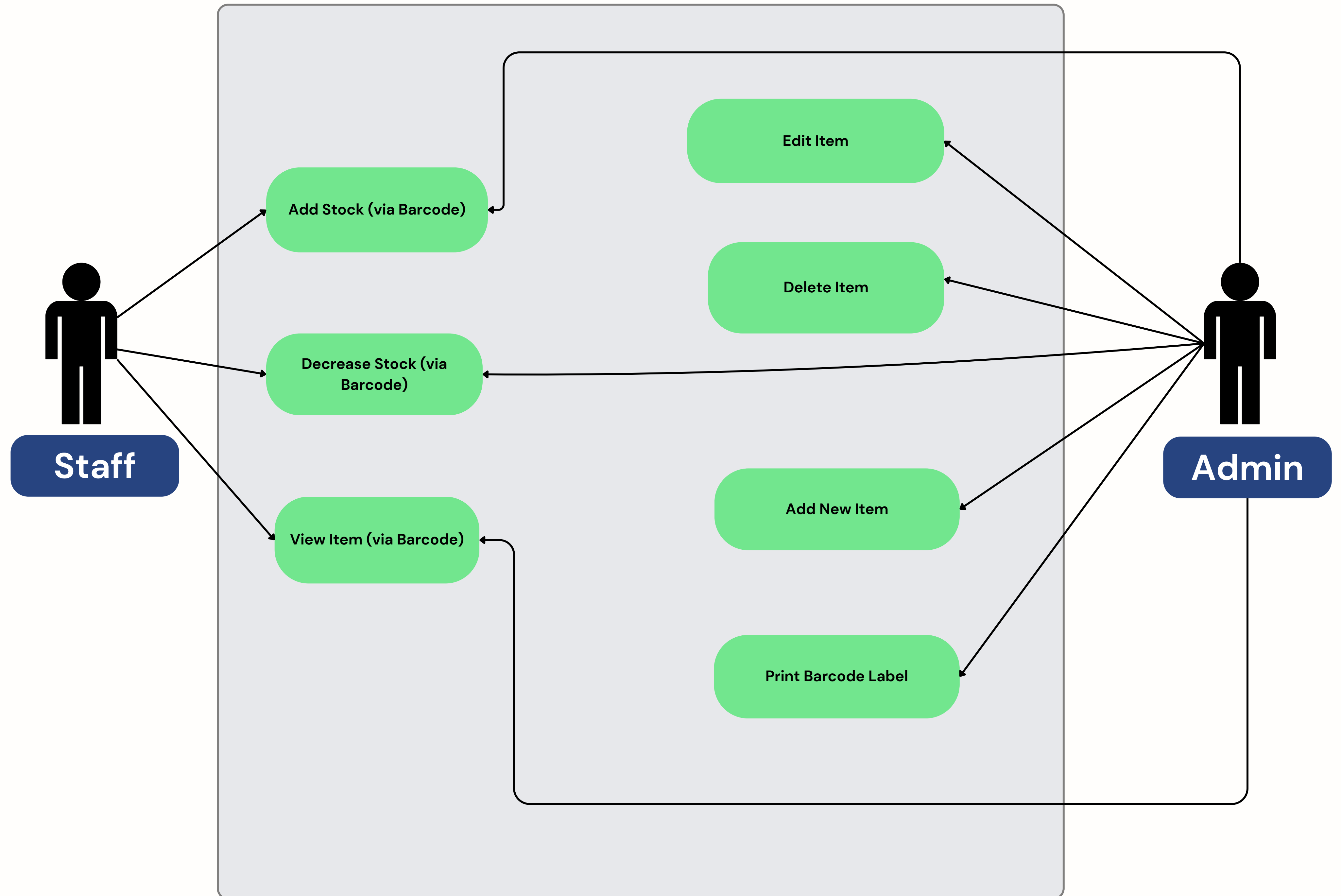


Database Server

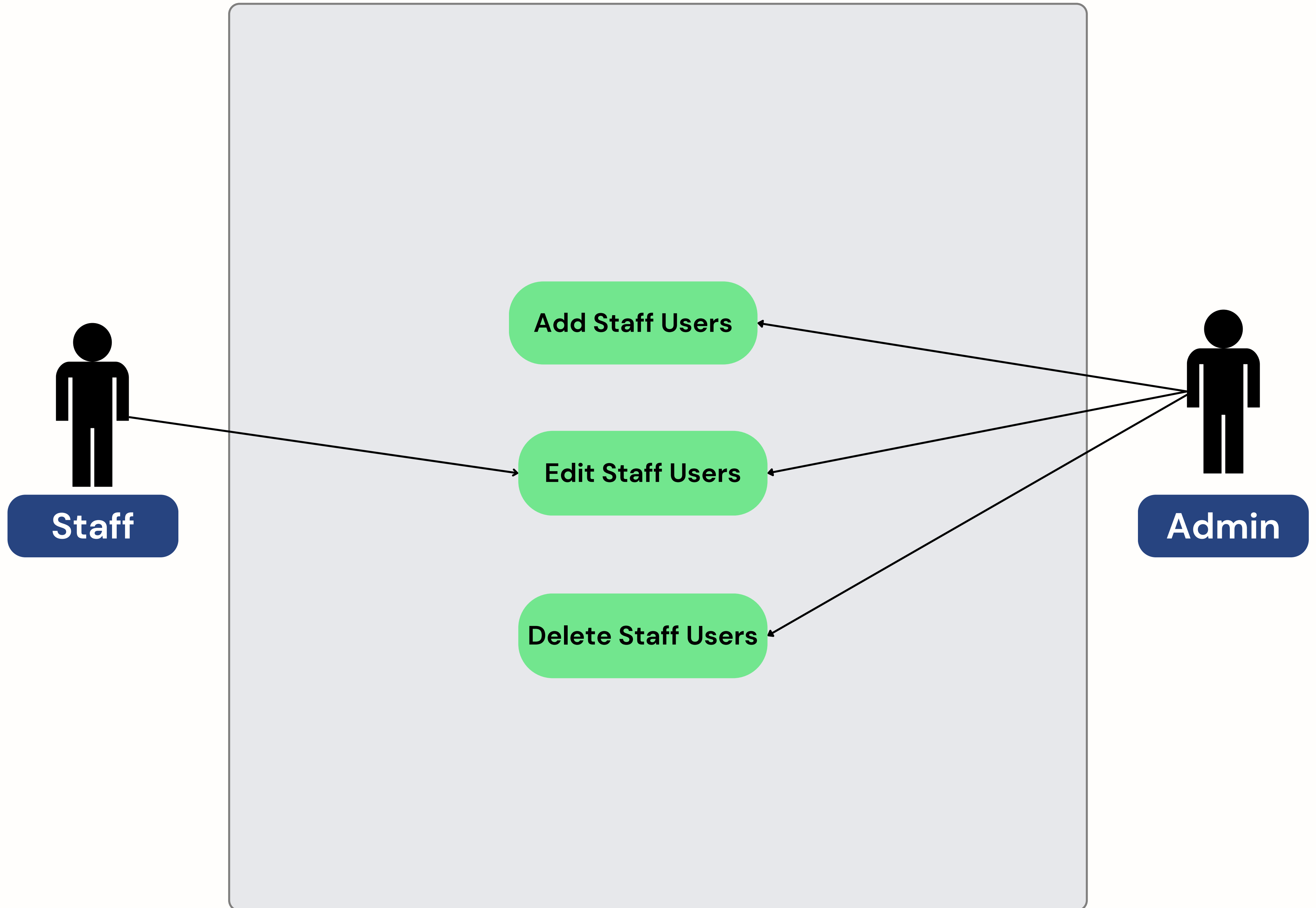
PMS AUTO PARTS TRADING INVENTORY SYSTEM - Context Flow Diagram



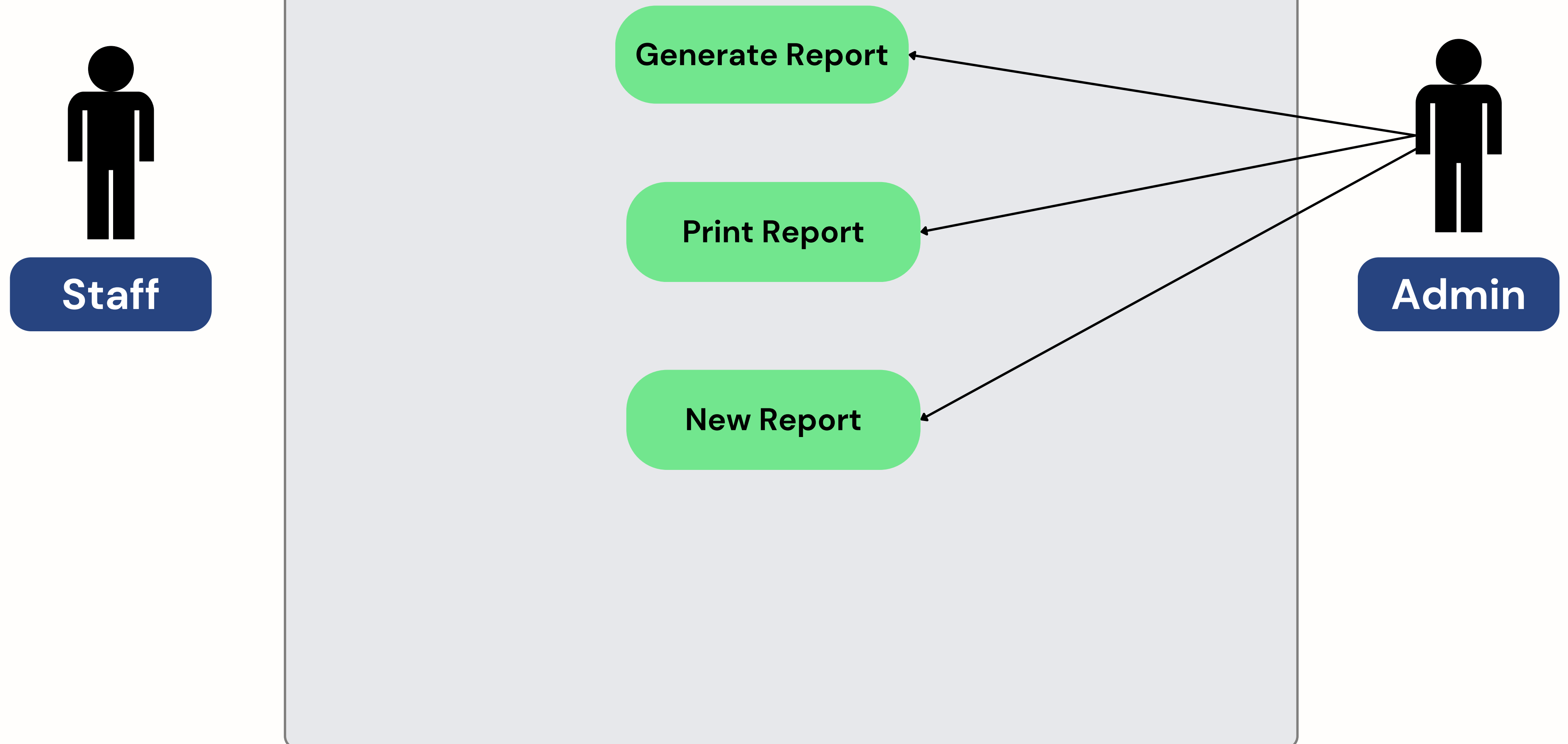
PMS AUTO PARTS TRADING INVENTORY SYSTEM - Use Case Diagram (Inventory Service)



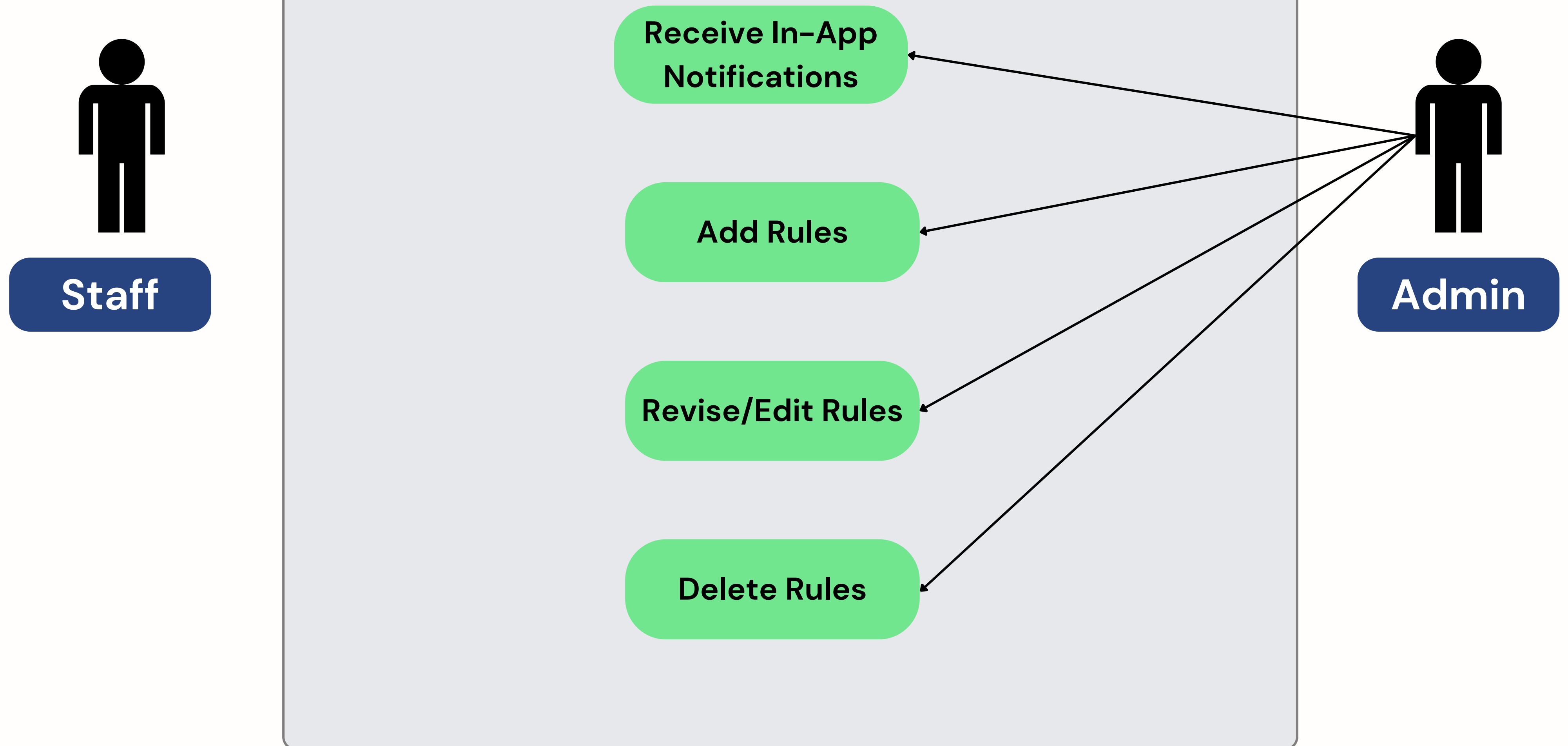
PMS AUTO PARTS TRADING INVENTORY SYSTEM - Use Case Diagram (User Service)



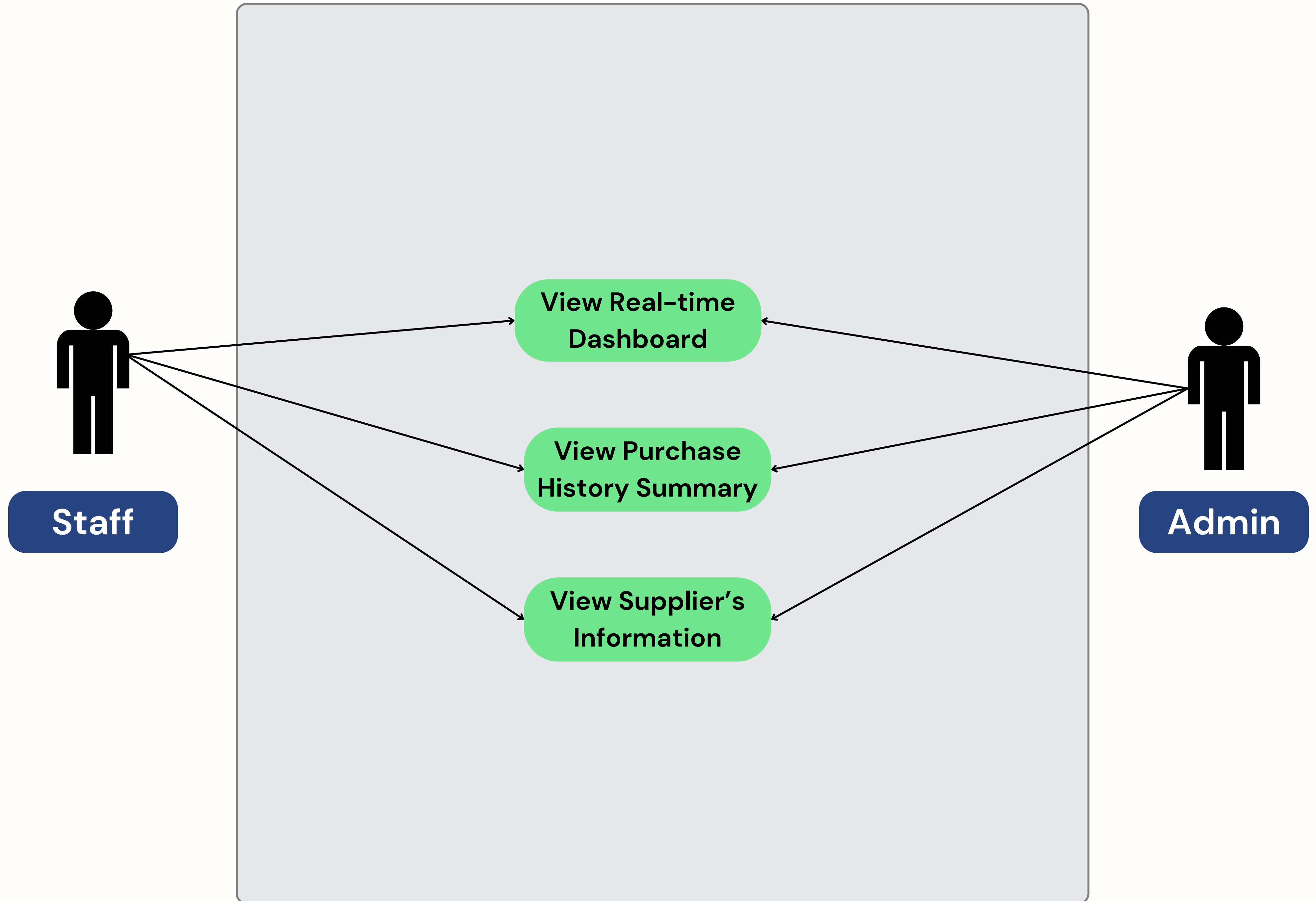
PMS AUTO PARTS TRADING INVENTORY SYSTEM - Use Case Diagram (Report Generator)



PMS AUTO PARTS TRADING INVENTORY SYSTEM - Use Case Diagram (Notifications Module)

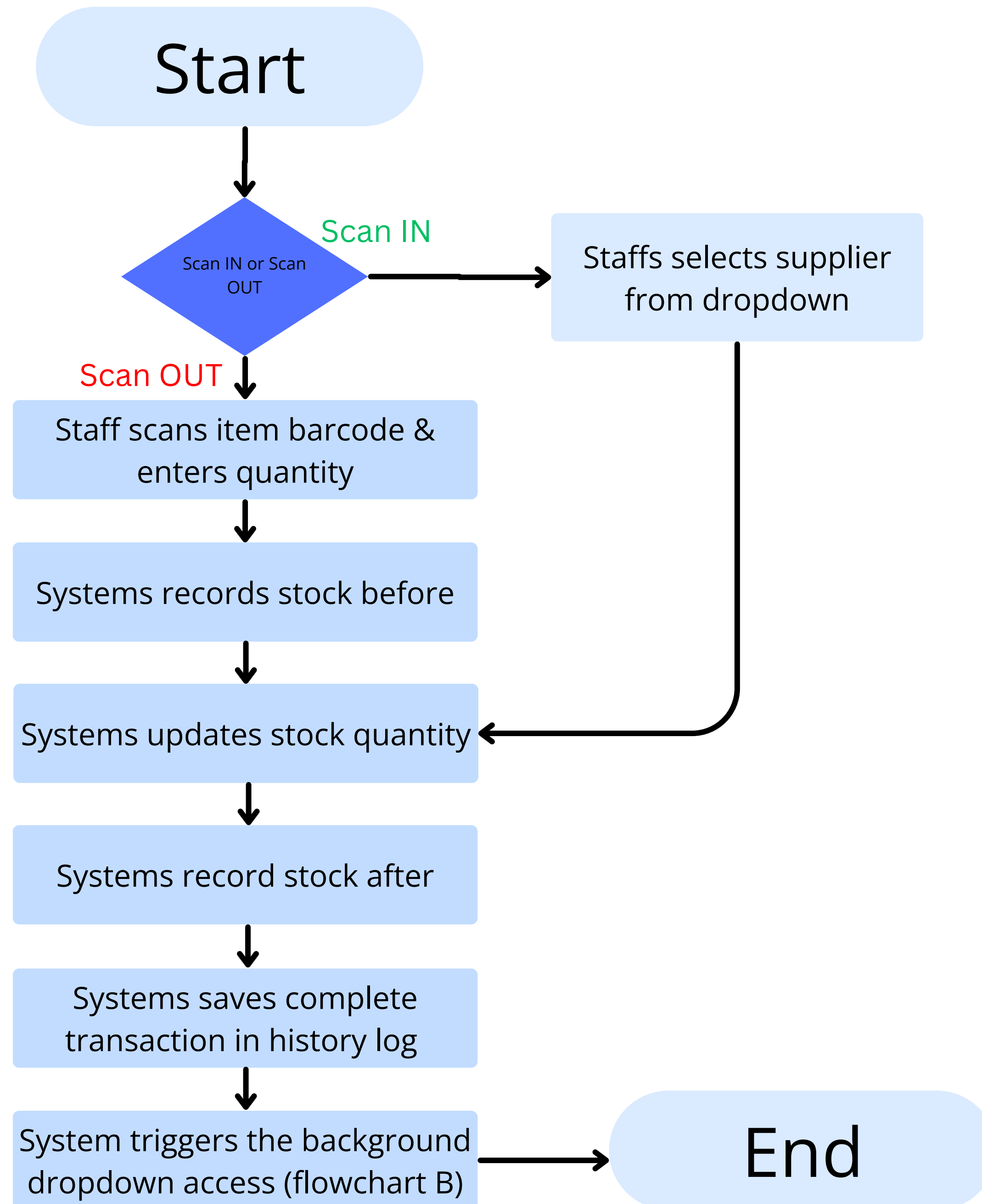


PMS AUTO PARTS TRADING INVENTORY SYSTEM - Use Case Diagram (Dashboard)



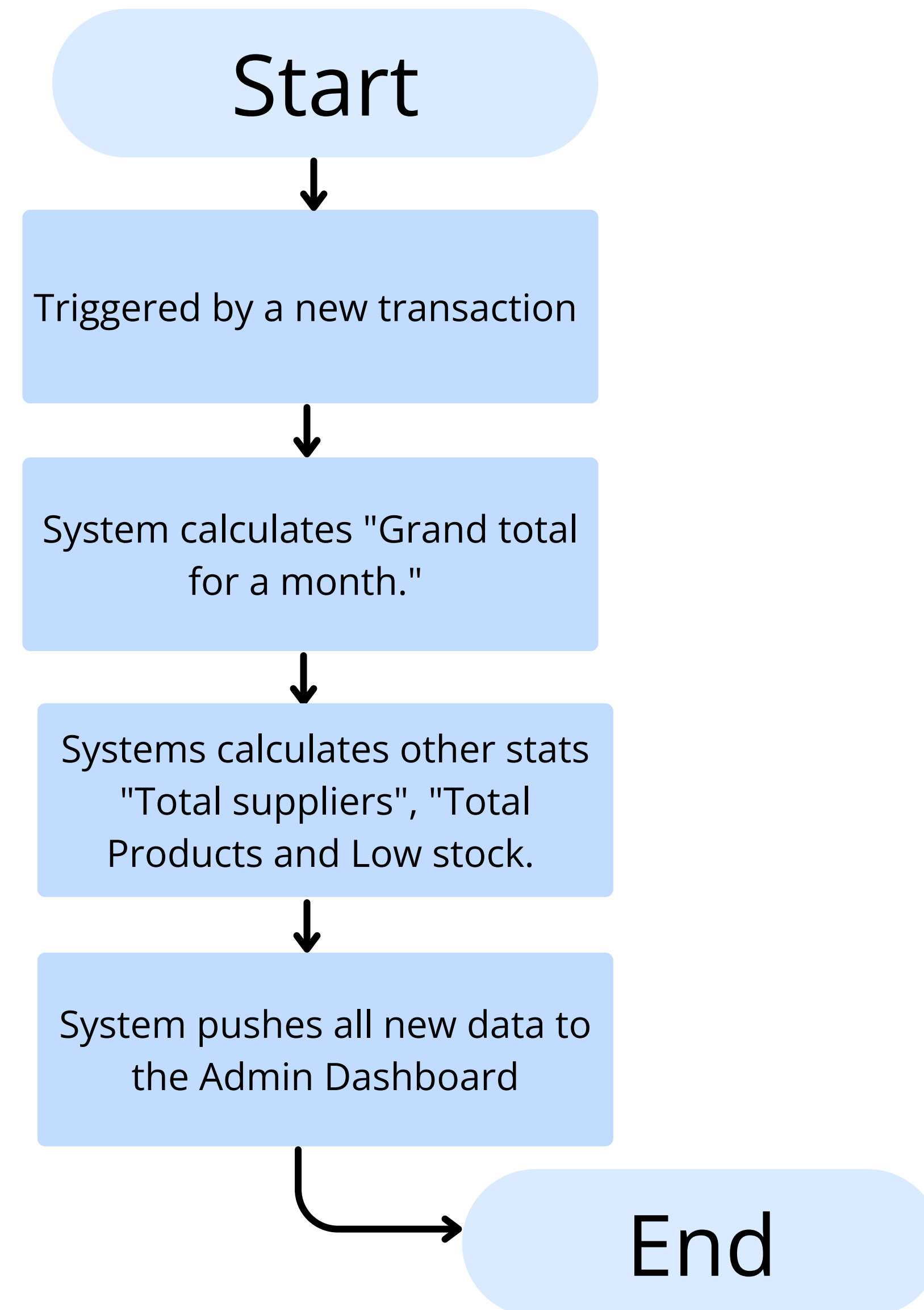
PMS AUTO PARTS TRADING INVENTORY SYSTEM

Flowchart A: Recording a Scan Transaction (Admin workflow)

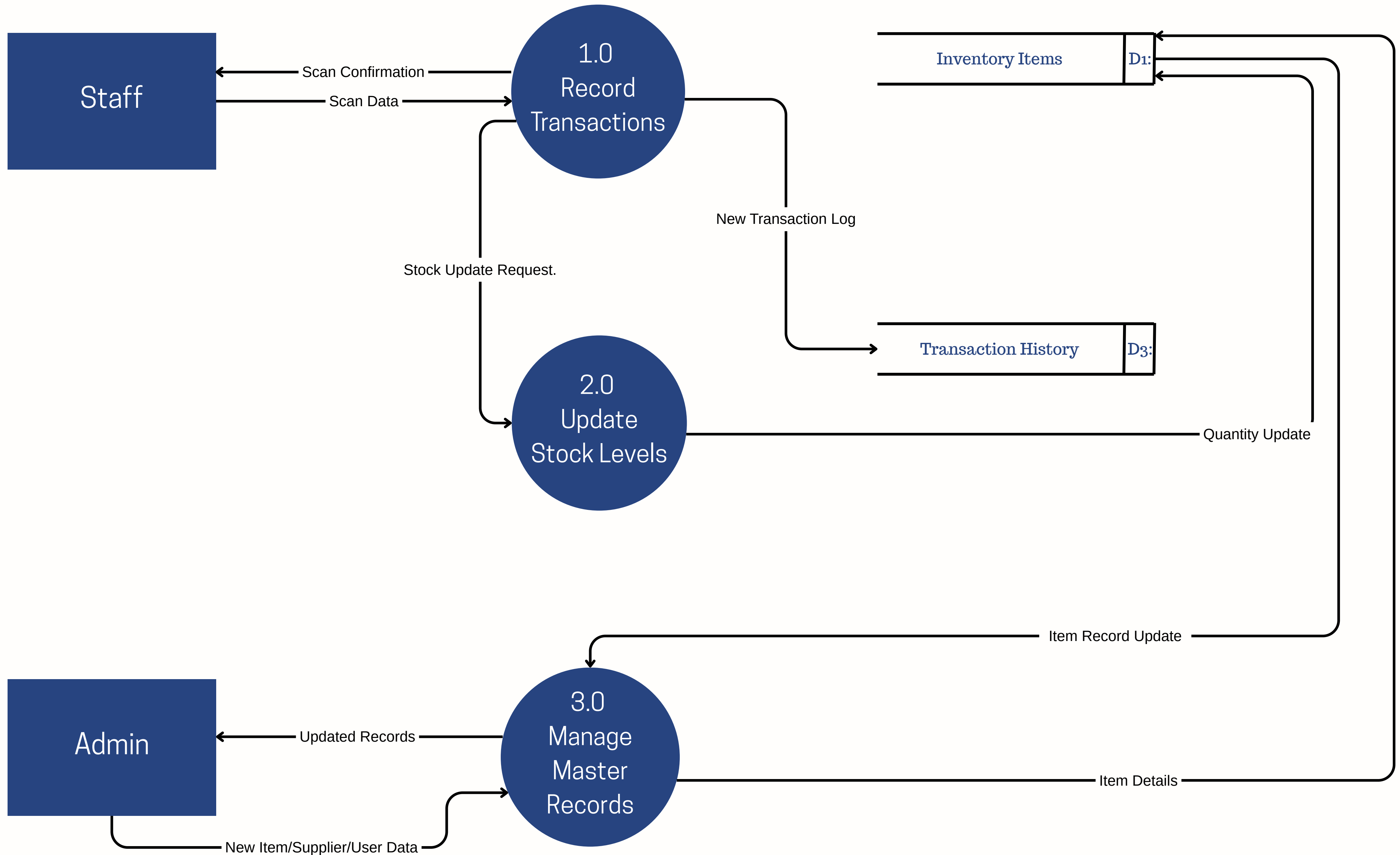


PMS AUTO PARTS TRADING INVENTORY SYSTEM

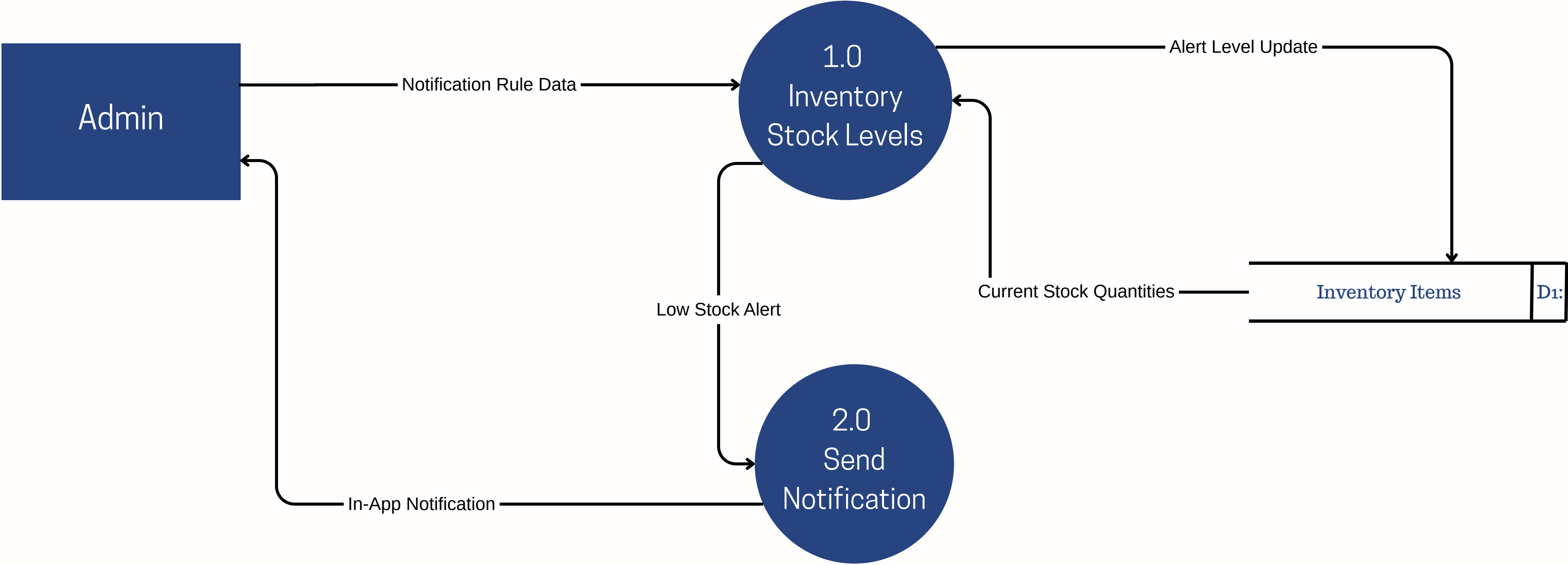
Flowchart B: Real-time Dashboard Update (System Background Process)



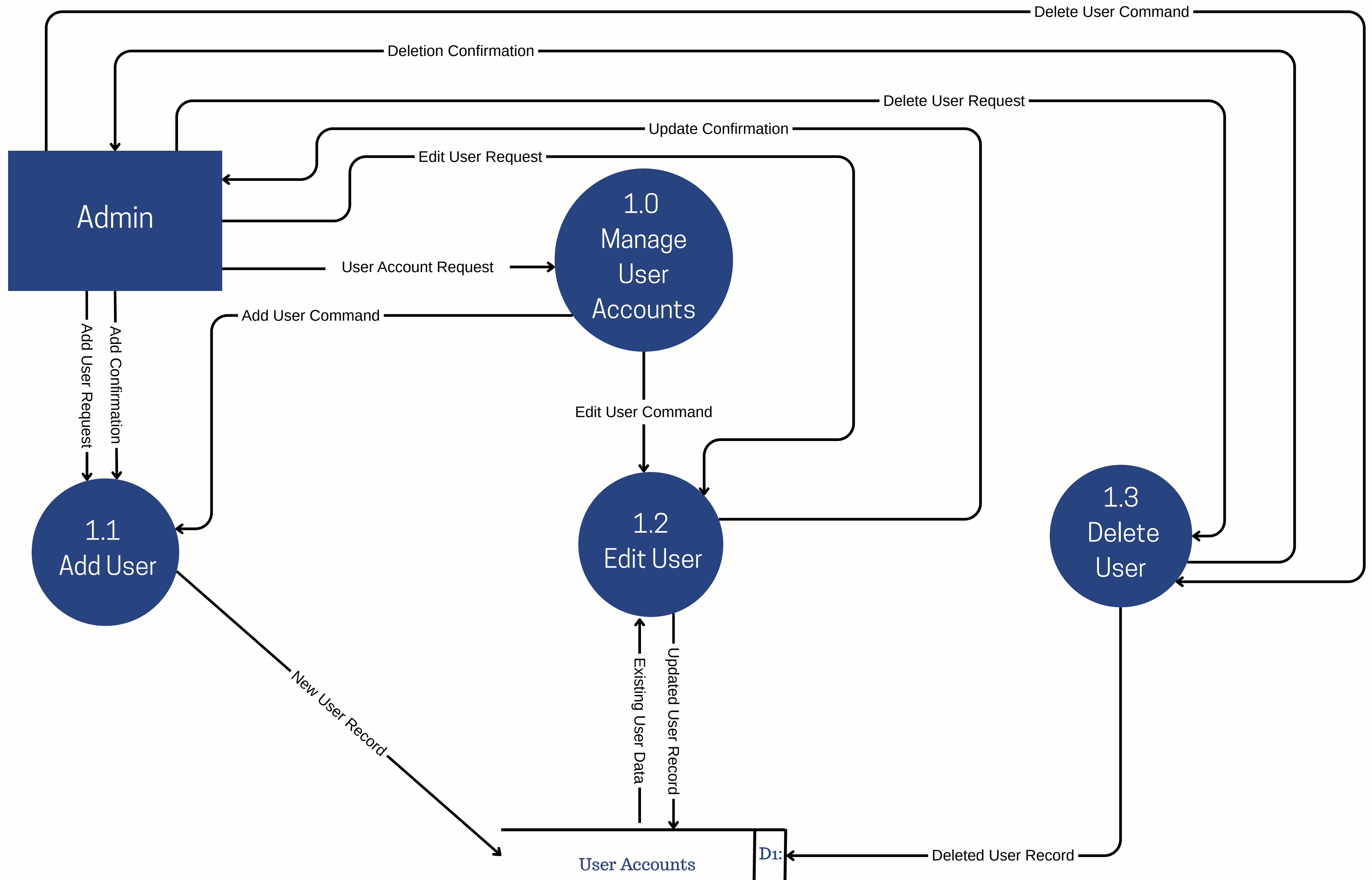
PMS AUTO PARTS TRADING INVENTORY SYSTEM - Data Flow Diagram (Inventory Service)



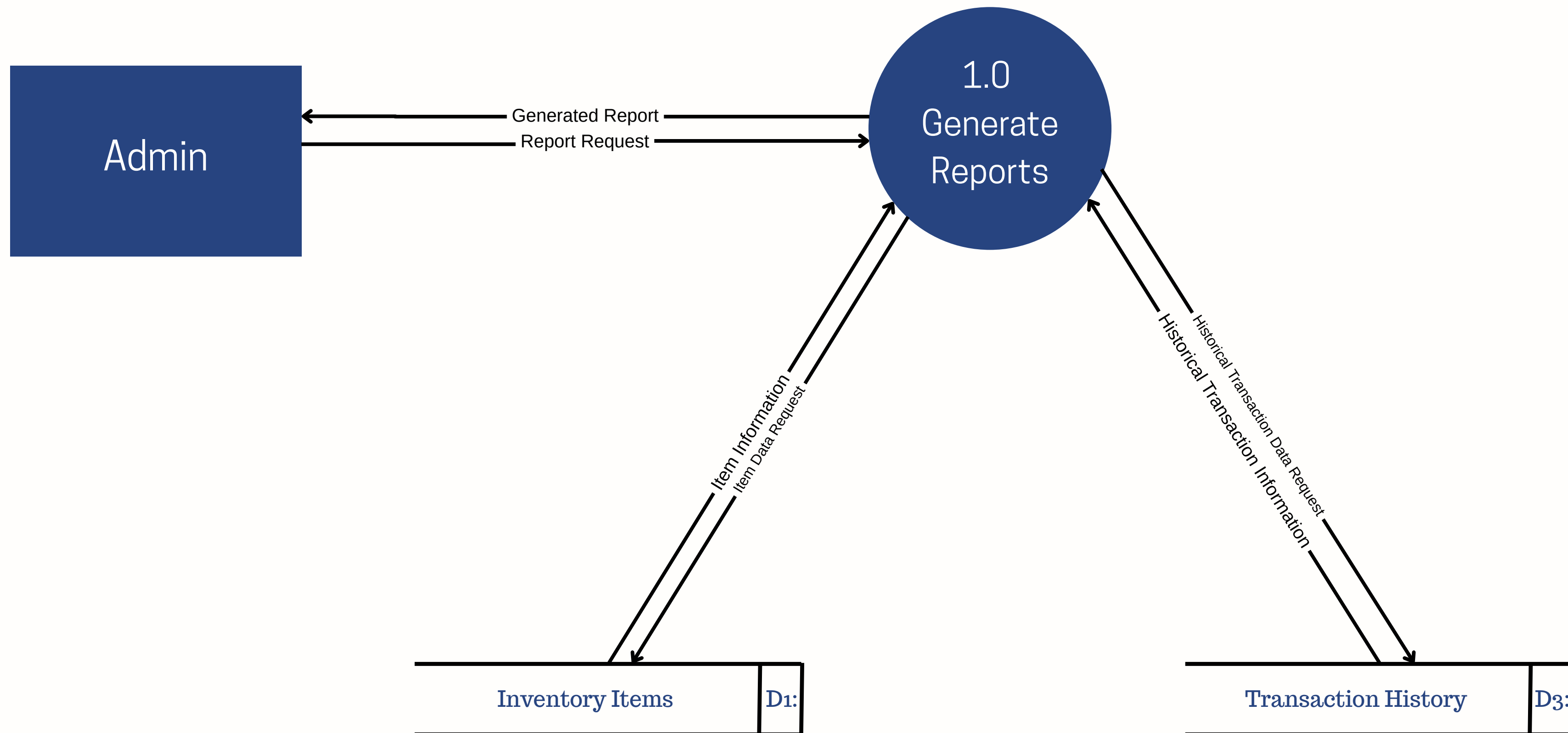
PMS AUTO PARTS TRADING INVENTORY SYSTEM - Data Flow Diagram (Notifications Module)



PMS AUTO PARTS TRADING INVENTORY SYSTEM - Data Flow Diagram (User Service)



PMS AUTO PARTS TRADING INVENTORY SYSTEM - Data Flow Diagram (Report Generator)



PMS AUTO PARTS TRADING INVENTORY SYSTEM - Data Flow Diagram (Dashboard)

