

Hyundai PO Reporting Platform – Comprehensive VC Brief

Project: Hyundai PO Intelligence Suite
Prepared For: Internal & VC Stakeholders
Date: (insert)

1. Executive Summary

- Automates PO reconciliation between Hyundai’s portal and Balance Staffing’s Bullhorn/BTE.
- Proactively alerts stakeholders as spend crosses 25 / 50 / 75 / 100 percent.
- Generates consolidated monthly invoices while preserving weekly pay/bill data.
- Provides a real-time dashboard for Wes (Hyundai) with PO status, recruiting activity, and future SOW insights.

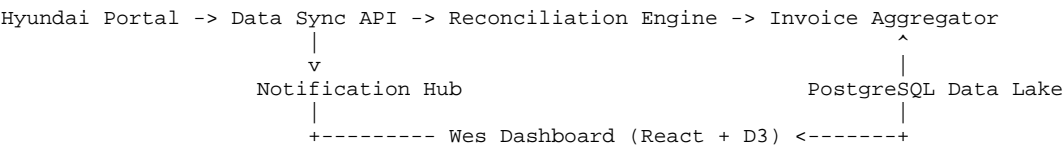
2. Problem Statement

- Mismatched PO data between Hyundai & internal systems → payment delays.
- Reactive spend management → POs depleted before replenishment.
- Manual VLOOKUPS & uploads → high labor cost, error-prone.
- Limited visibility for Hyundai decision-makers → unnecessary escalations.

3. Solution Overview

Module	Core Function	MVP Status
PO Dashboard	Live view of open POs, % spend bars, filter/search	MVP 1
Reconciliation Engine	Auto-match POs, flag mismatches, export report	MVP 1
Notification Hub	25 / 50 / 75 / 100 % alerts, escalation ladder	MVP 1
Invoice Aggregator	Roll weekly data → monthly statement PDF/CSV	MVP 1
Recruiting Metrics Tab	Reqs, submittals, time-to-fill from Bullhorn	MVP 2
SOW Tracker	Track & renew SOW spend	MVP 2
AI Insights Layer	Predict PO depletion, short-pay patterns	MVP 3

4. System Architecture



5. Data Flow

Daily Sync → Pull PO & spend JSON via API / CSV upload.

Reconciliation Logic → Match keys, calculate variance, write to DB.

Alert Trigger → If spend ≥ threshold, push to Hub + escalate.

Dashboard Render → Query DB, update charts every 5 min.

Monthly Invoice Build → Cron job aggregates week 1-4 → PDF + CSV.

6. Security & Access

RBAC: Admin, Analyst, Hyundai-Viewer roles.

OAuth / SSO ready; initial MVP uses Azure AD login.

Full audit trail for edits/exports.

Encrypted at rest (data lake) + TLS 1.3 in transit.

7. QA / Debug Framework

Layer	Built-In Tests	Visual Indicator
ETL	Schema check, row count	Green/Red bar
Reconciliation	Unit tests, diff threshold	Pass/Fail tag
Alerts	Simulated spend triggers	Progress arrows
UI/UX	Cypress e2e + Percy	Screenshot diff panel

8. Milestone Roadmap

Sprint	Deliverable	Duration
0	Replit container + CI pipeline	1 wk
1	Data ingestion + DB schema	2 wks
2	Reconciliation engine + unit tests	2 wks
3	Threshold alerts + email/Slack	1 wk
4	Wes Dashboard v1 (React)	2 wks
5	Invoice aggregator + PDF export	1 wk
6	UAT + QA matrix locked	1 wk

9. Team & Budget Snapshot

Role	FTE	Cost (USD)	Notes
Tech Lead (SM)	0.3	20 K retainer	Architecture + code reviews
Full-Stack Dev	1.0	80 K/yr (prorated)	React + Python
Data Engineer	0.5	60 K/yr (prorated)	ETL & DB
QA / DevOps	0.3	50 K/yr (prorated)	Replit CI/CD
UX Designer	0.2	45 K/yr (prorated)	Dashboards

10. Risk & Mitigation

Risk	Impact	Mitigation
Hyundai API unavailable	High	CSV upload fallback + SFTP
Data mismatch false-positives	Med	Manual override + audit log
Cash-flow delay (monthly invoicing)	Med	Keep weekly pay/bill; aggregate for portal
Scope creep (ATS/SOW)	High	Phase gating & change control

11. Exit & Scale Strategy

- White label for other enterprise clients (multi-tenant).
- Add AI analytics module (Phase 3) for predictive spend & anomaly detection.
- Optional ACH integration & payment status APIs.

Prepared by: Steve Morgan (SM) — Technologist
Reviewed with: Craig Renzulli (CR) — Staffing Expert