# Sai Hari Papers — Admin Dashboard Logic & UI Blueprint (Finalized)

This blueprint distills the **PRD** (**Aug 20, 2025**) requirements of Sai Hari Papers into a **unique**, **performance-oriented Admin Dashboard design**. It emphasizes usability, adaptive insights, and rapid decision-making for the core modules.

## 1) Dashboard Philosophy

- Admin as Command Center: Single screen that consolidates staff, machine, inventory, finance, and delivery KPIs.
- Adaptive Panels: Widgets rearrange based on real-time data priority (e.g., payroll cutoff week → salary KPIs pushed top).
- Action-Oriented: Every widget links directly to its respective workflow (e.g., "Low Stock" → auto-PO draft).
- Performance-first: Cached summary queries + drill-down fetch on demand.

## 2) Admin Dashboard Layout

#### **Header Controls**

- Global search (employee, item, order, challan).
- Date range switcher (Today / This Week / Month / Custom).
- Quick actions: +Employee, +Work Order, +Invoice, +PO.

#### **KPI Tiles (Top Row)**

- 1. **Attendance Status**: Present / Total Scheduled; color-coded (green ≥95%, amber 80–94%, red <80%).
- 2. Drilldown: absentee list, late logins, contract staff attendance.
- 3. **Employees on Leave**: Today vs Week; hover shows leave types (CL/SL/EL).
- 4. Payroll Alerts: Pending approvals, EMI cycles due, increment entries.
- 5. Cash Flow Snapshot: Income vs Expenses today; ledger anomalies flagged.

#### **Middle Panels (Operational)**

- Inventory Alerts (Left): Items below reorder threshold.

  Logic: Alert if On-hand < ROP = (Avg Daily Use × Lead Time) + Safety Stock.

  CTA: Create PO / Adjust Stock.
- Machine Health & Service (Center): Machines due for PM or in downtime.

  Logic: Alert if (hours\_since\_last\_pm ≥ threshold) OR (days\_since\_pm ≥ threshold)

  CTA: Create Service Log / Assign Technician.

• Work Orders At-Risk (Right): WOs behind schedule, or defective output >5%. CTA: Reassign / Adjust routing / Issue fine.

### **Lower Panels (Finance & Delivery)**

- **Delivery Challans**: Pending dispatch or collection; DC aging buckets.
- CTA: Generate DC / Mark Collected.
- Invoices & Payments: Unpaid invoices by aging (0-30, 30-60, >60).
- CTA: Send Reminder / Record Payment.
- Ledger Balance: Last 7 days trend, category filters (expenses vs income).

#### Side/Alert Panel (Real-Time)

- Biometric sync health (face/fingerprint devices online/offline).
- · Overdue POs or GRNs.
- QC rejection % > tolerance.
- Payroll processing errors (deduction mismatch, duplicate EMI).
- Safety or compliance flags (audit log anomalies).

## 3) Dashboard Data Logic

- Attendance % = Present ÷ Scheduled (exclude approved leave if HR policy demands).
- Payroll Alert = if pending approvals > 0 OR EMI due within 3 days.
- Inventory Low Stock = if On-hand + On-order < ROP.
- Machine Due = if days\_since\_last\_pm ≥ cycle OR meter\_since\_last\_pm ≥ cycle.
- WO Delay = if (Planned completion < today) AND (Actual status ≠ completed).
- Cash Flow =  $\Sigma$ Income  $\Sigma$ Expenses (daily ledger).
- **Invoice Aging** = Current date Invoice due date.

## 4) UI Design Patterns

- Modular Grid: 3–4 resizable widget rows; drag-and-drop rearrangement.
- Card-based KPIs with hover drilldowns + quick actions.
- Color-coded alerts for thresholds (attendance, machine, inventory).
- Interactive charts (trend lines for cash flow, aging bars for invoices, donut for leave types).
- Collapsible side alerts: keep focus while surfacing exceptions.

# 5) Performance & Adaptivity

- Use **pre-aggregated views** for KPIs, refreshed every 5 minutes.
- Async load for drilldowns; prevent blocking UI.
- Device-aware responsiveness: tablet-first design for shopfloor/Admin mobility.

• Adaptive priority: If payroll cut-off week, salary KPIs pinned top; if inventory shortage, stock alerts pinned top.

## 6) Uniqueness Factors

- **Smart Attention Engine**: reorders widgets dynamically by severity (e.g., machine breakdown supersedes payroll reminder).
- **Direct-to-Action Workflow**: Every alert leads to action forms (PO, WO, Service Log, Invoice) in one click.
- Contextual Tooltips: Each KPI shows formula + source dataset for transparency.
- **Audit-Friendly**: Quick download of current state as PDF (attendance sheet, low stock list, ledger balance).

## 7) Suggested Wireframe Blocks

- Row 1: 4 KPI tiles (Attendance, Leave, Payroll, Cash Flow).
- Row 2: 3 panels (Inventory, Machines, Work Orders).
- Row 3: 3 panels (Delivery Challans, Invoices, Ledger).
- · Side Bar: Alerts feed.

# 8) Implementation Notes (Phase 1 Admin-Only)

- Single Admin role with full visibility.
- Drilldowns limited to read-only where module is not fully rolled out (e.g., EMI history placeholder if payroll not implemented).
- Export-ready panels for PDF/Excel compliance.

### **Deliverable for UI Designer**

Use this blueprint to: - Create **grid-based**, **adaptive dashboard mockups**. - Highlight unique design patterns (smart reordering, contextual tooltips). - Incorporate drilldowns into modals rather than full-page redirects. - Ensure every KPI/alert drives a workflow action.