Login Page

- Username / Password
- Role-Based Access (Admin, Planner, Production Head, Dispatch Executive, QC Manager)

---

2. Main Dashboard (Landing Page)

- **Quick Stats:** Total Jobs, Pending POs, Active Machines, etc.
- **Live Charts:** PO vs Dispatch, Job Status, Machine Utilization
- **Live Feed:** Job Assignments, QC Inputs, Downtimes
- **Daily Activity Snapshot**

---

3. Navigation Panel (Sidebar / Top Nav)

Each item opens its own module/page view:

Job Management

- **Job List View**
  - Search, Filters, Column Sorting
- **Job Detail View**
  - Full info: Approval Dates, Board Size, GSM, Artworks
- **Add/Edit Job Form**
  - Linked to PO
  - Auto-fill, Artwork Upload
- **Routing History**
  - Stage-wise movement logs

PO Management

- **PO List**
  - Filters by Customer, Status, Date
- **Add/Edit PO**
  - Smart Form Inputs, Validity Date, Multi-dispatch Enabled
- **Multi-Dispatch Tracking**
  - PO vs Actual Dispatch Mapping

Production Planning

- **Calendar View / Gantt View**
  - Jobs scheduled by date & machine
- **Drag & Drop Scheduler**
- **Assign Job to Machine**
  - With Auto Machine Availability Check
- **Capacity Planner**
  - Highlights overloads/underloads

Dispatch Tracker

- **Dispatch Calendar (Daily/Weekly/Monthly)**
- **PO vs Dispatch View**
  - Visual mapping of dispatched vs pending qty
- **Delayed Dispatch Alerts**
- **Dispatch Logbook**
  - Vehicle, Contact Person, Delivery Ref

QC Module

- **QC Entry Form**
  - OK Qty, Rejected Qty, Reasons
- **QC Report Viewer**
  - Filter by Job, Date, Machine
- **Rejection Trends**
  - Analytics for RCA (Root Cause Analysis)

Machine Management

- **Machine List View**
  - Status, Assigned Jobs, Utilization %
- **Downtime Logs**
  - Date, Reason, Duration, Impact
- **Maintenance History**
  - Resolution details, Technician notes
- **Machine Health Dashboard**
  - Color-coded status (Green/Yellow/Red)

Reports Module

- **Custom Report Builder**

o Jobs, Machines, QC, Dispatch, POs
- **Export Options**
  o Excel / PDF / Email
- **Auto-Scheduled Reports**
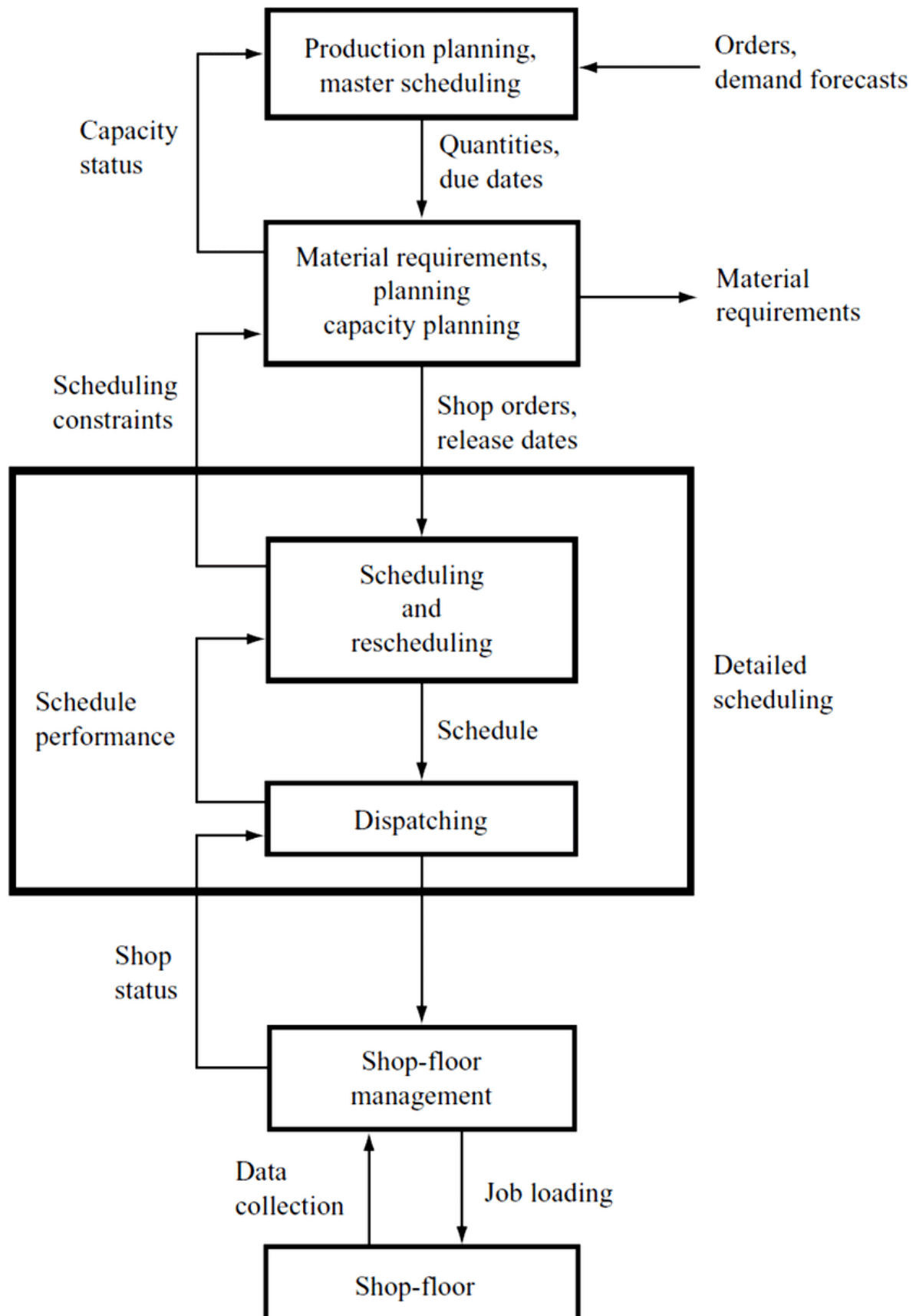 o Daily, Weekly, Monthly delivery

---

4. Global Features (Accessible Across All Modules)

- **Role-Based Access Control**
- **Document Management**
  o Upload & Link Artworks, POs, Certificates
- **Dynamic Tables**
  o Column Sorting, Filters, Global Search, Export
- **Real-Time Alerts & Notifications**
  o PO Deadlines, Delays, Downtimes, QC Fails
- **Audit Trail / Action Logs**
  o Track user actions and changes
- **Excel/CSV Import/Export**
  o Bulk Uploads (Jobs, QC, Logs)
- **Mobile-Friendly UI**
  o Responsive Design
- **Job Duplication Tool**
- **Document Access History**

---

5. End-to-End Flow Example: New Job Entry

```
Start → Job Entry Form
    └── PO Linked? → PO Management
          └── Setup Validity, Dispatch Plan
    └── Schedule Job → Production Planning
          └── Assign Machine, Set Time
    └── QC Log → QC Module
          └── OK/Reject Entry
    └── Dispatch → Dispatch Tracker
          └── Log Dispatch, Compare with PO
    └── Audit + Reports → Reports Module + Logs
```
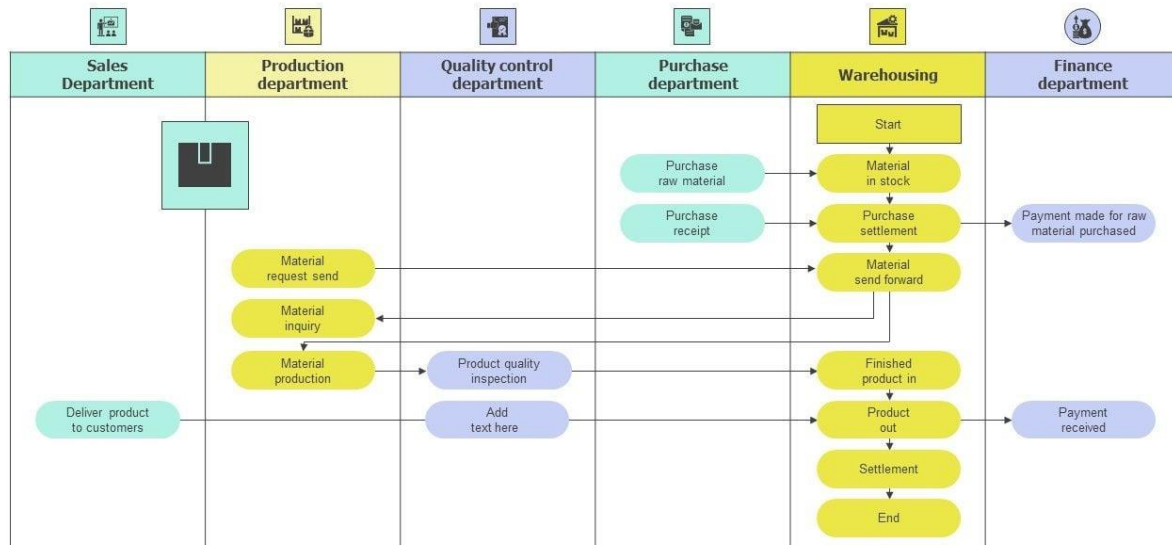
```
                    ┌─────────────────────────┐
              ┌────→│  Production planning,   │←──── Orders,
              │     │    master scheduling    │      demand forecasts
              │     └─────────────────────────┘
  Capacity    │                │
   status     │         Quantities,
              │         due dates
              │                ↓
              │     ┌─────────────────────────┐
              └─────│  Material requirements, │
              ┌────→│        planning         │────→ Material
              │     │    capacity planning    │      requirements
              │     └─────────────────────────┘
  Scheduling  │                │
  constraints │         Shop orders,
              │         release dates
              │                ↓
┌─────────────┼──────────────────────────────────┐
│             │     ┌─────────────────────────┐   │
│             └─────│        Scheduling       │   │
│             ┌────→│           and           │   │  Detailed
│             │     │       rescheduling      │   │  scheduling
│             │     └─────────────────────────┘   │
│  Schedule   │                │                   │
│  performance│          Schedule                  │
│             │                ↓                   │
│             │     ┌─────────────────────────┐   │
│             ├────→│       Dispatching       │   │
│             │     └─────────────────────────┘   │
└─────────────┼──────────────│───────────────────┘
  Shop        │              │
  status      │              ↓
              │     ┌─────────────────────────┐
              └─────│       Shop-floor        │
                    │       management        │
                    └─────────────────────────┘
                       ↑              │
                    Data           Job loading
                    collection        ↓
                    ┌─────────────────────────┐
                    │       Shop-floor        │
                    └─────────────────────────┘
```

Manufactured product inventory management process flow chart

This slides demonstrates flow chart that can be used by manufacturing firms to optimise raw material requirement and finished product inventory. It includes various departments such as sales, production, quality control, purchase, warehousing and finance.

Sales Department	Production department	Quality control department	Purchase department	Warehousing	Finance department
				Start	
			Purchase raw material	Material in stock	
			Purchase receipt	Purchase settlement	Payment made for raw material purchased
	Material request send			Material send forward	
	Material inquiry				
	Material production	Product quality inspection		Finished product in	
Deliver product to customers		Add text here		Product out	Payment received
				Settlement	
				End	

This slide is 100% editable. Adapt it to your needs and capture your audience's attention.

☐ Key Highlights of the Diagram

- **Role-Based Access Control (RBAC):** Ensures that users (Admin, Planner, Production Head, Dispatch Executive, QC Manager) have access to modules pertinent to their roles.
- **Centralized Dashboard:** Provides real-time insights into job statuses, machine utilization, QC metrics, and dispatch timelines.
- **Modular Workflow Integration:** Each module (Job Management, PO Management, Production Planning, Dispatch Tracker, QC Module, Machine Management, Reports) is interconnected, facilitating seamless data flow and decision-making.
- **Document Management & Audit Trails:** Ensures that all documents (e.g., artworks, POs, QC certificates) are uploaded, linked, and tracked for compliance and traceability.
- **Real-Time Alerts & Notifications:** Automated alerts for critical events like job delays, QC failures, and dispatch deadlines, ensuring timely interventions.

```
Main Dashboard
|
├── Job Management
|    ├── Job List
|    ├── Job Detail View
|    ├── Add/Edit Job
|    └── Artwork Upload
|
├── PO Management
|    ├── PO List
|    ├── Add/Edit PO
|    └── Multi-Dispatch Tracking
|
├── Production Planning
|    ├── Calendar View
|    ├── Drag & Drop Scheduler
|    ├── Assign Job to Machine
|    └── Machine Availability Check
|
├── Dispatch Tracker
|    ├── PO vs Actual Dispatch View
|    ├── Dispatch Calendar
|    └── Delay Alerts
|
├── QC Module
|    ├── QC Entry Form
|    ├── QC Report Viewer
|    └── Rejection Trends
```

```
|
├── Machine Management
|    ├── Machine List
|    ├── Assign Job to Machine
|    ├── Downtime Logs
|    └── Maintenance History
|
└── Reports
     ├── Job Reports
     ├── Machine Reports
     ├── QC Reports
     └── PO/Dispatch Reports
```

New Job Entry

```
|
├── PO Linked → PO Management
|        └── Validity, Multi-dispatch Setup
|
├── Job Scheduling → Production Planning
|        └── Assign Machine, Set Timeline
|
├── QC Entry → QC Module
|        └── Log OK/Rejected Qty + Reason
|
├── Dispatch → Dispatch Tracker
|        └── Match with PO, Generate Reports
|
└── Reporting & Audit → Reports + Logs
```