

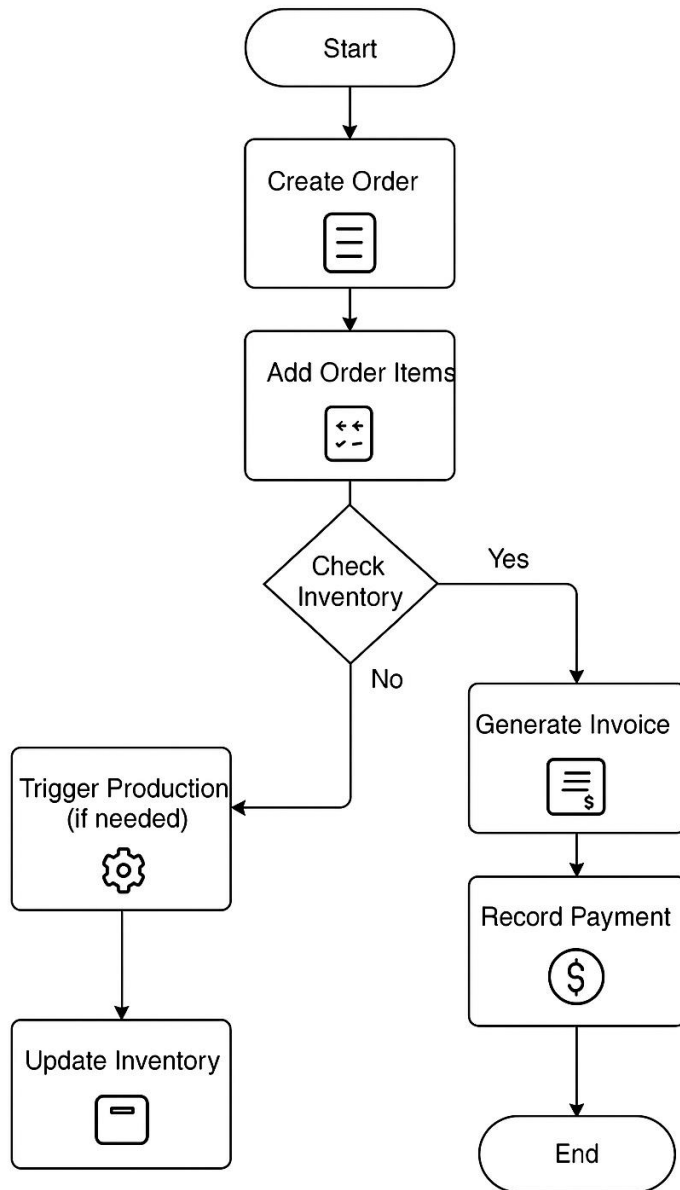
Order Kraft-Invoicing & Payments

Order to Invoice Generation Flow:

1. **User (Procurement Officer)** places an **Order**
 - Enters order details like date, status, and total amount
 - Assigned to a procurement_officer_id
2. **Order Items** are added
 - Each item includes quantity and unit price
 - Linked to the main order via order_id
3. **Inventory Check**
 - System checks if products exist in **Inventory**
 - If **stock is insufficient**, trigger **Production Schedule**
4. **Production Process** (if needed)
 - Initiate **Production Schedule**
 - Break into **Production Tasks**
 - Use **Production Units** and **Raw Materials**
5. **Inventory Update**
 - Once production is complete or items are confirmed in stock
 - Inventory is updated (via inventory_id, product_id)
6. **Generate Invoice**
 - Linked to order_id
 - Contains invoice date, due date, total amount
7. **Payment Process**
 - Payment created and linked to order
 - Includes payment method, date, and status

Flowchart:

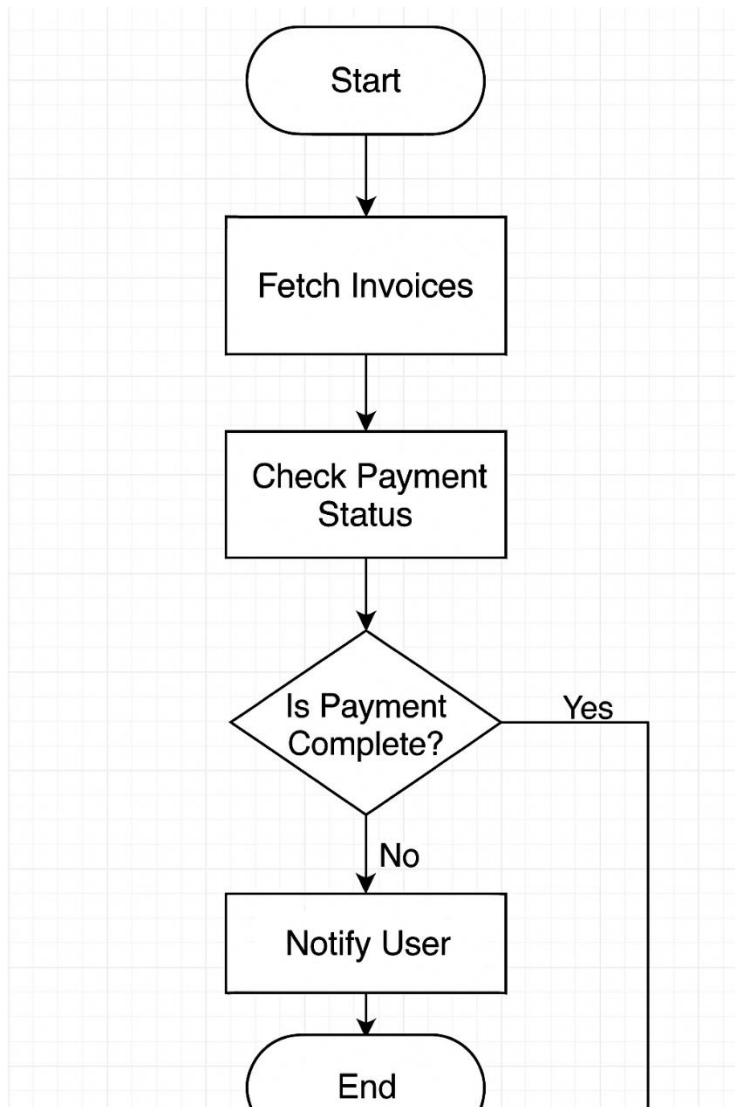
Order to Invoice Generation Flow



Invoice Due Notification Flow:

1. **Start:** System Scheduler or Cron Job Initiates Daily Check
2. **Fetch Invoices**
 - Retrieve all records from the invoice table
 - Check if due_date is approaching (e.g., within 3 days) or has passed
3. **Check Payment Status**
 - Match each invoice against entries in the payment table (by order_id)
 - Determine if full payment has been made
4. **Decision Point:** Is Payment Complete?
 - **Yes:** No action needed
 - **No:** Continue to notification step
5. **Notify User**
 - Identify user_id via order → procurement_officer_id → user
 - Send Email/Alert Notification about the invoice due
6. **Log Notification (Optional)**
 - Optionally store notification history (not shown in schema but assumed)
7. **End.**

Flow Chart:



Payment Confirmation & Reconciliation Flow:

1.Start

(Initiated by user payment or scheduled reconciliation process)

2. Fetch Payments

- Retrieve data from the payment table

3. Match Payment to Order

- Use order_id to link payment to a specific order

4. Validate Payment Details

- Check amount, payment_date, and status fields
- Optionally verify against external bank/payment gateway

5. Reconcile with Invoice

- Compare payment amount with invoice.total_amount
- Ensure status matches (Paid, Partial, or Pending)

6. Decision Point: Is Full Payment Received?

- **Yes:** Mark Invoice as **Paid**
- **No:** Update status to **Partial** or **Pending**

7. Update Order & Invoice Status

- Mark order as Completed or Awaiting Payment
- Update invoice status or tracking field (if implemented)

8. Log Audit Trail

- Record reconciliation result in logs (not shown in schema, assumed optional)

9.End

Flow Chart:

