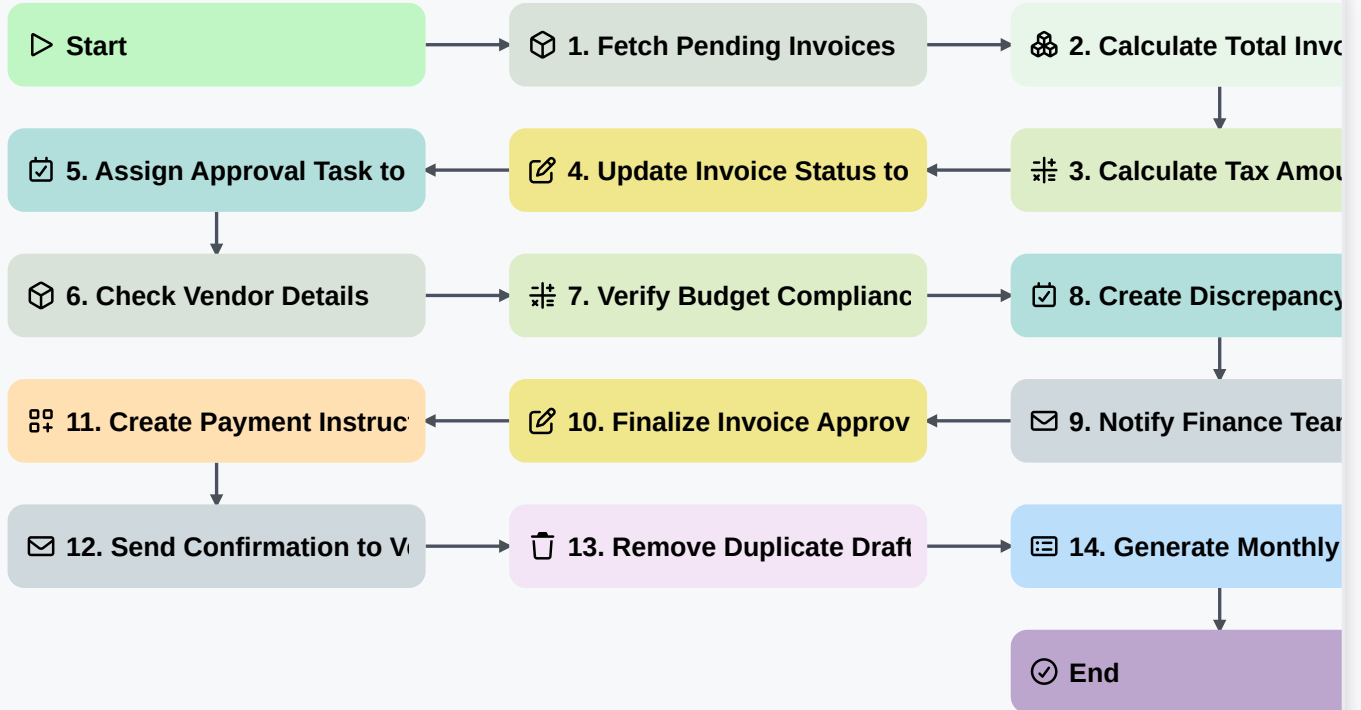


Invoice Processing And Approval Automation



Start

Start of the Workflow/Process.

1. Fetch Pending Invoices

Retrieve all invoice entries from the Data Model where status is 'Pending Approval'.

2. Calculate Total Invoice Value

Sum the 'Total Amount' field of all retrieved pending invoice entries to check budget thresholds.

3. Calculate Tax Amount

Calculate the tax portion of the invoice using the formula $(\text{Subtotal} * \text{Tax_Rate})$.

4. Update Invoice Status to 'Reviewing'

Change the status of the selected invoice entry to 'In Review' to prevent duplicate processing.

5. Assign Approval Task to Manager

Create a task for the Department Manager to review the invoice details and attachments.

6. Check Vendor Details

Fetch vendor information from the Vendor Data Model based on the ID in the invoice entry.

7. Verify Budget Compliance

Compare the Invoice Total against the Department Budget Limit.

8. Create Discrepancy Task

Create a task for the Accounts Payable clerk if the calculated tax does not match the invoice tax.

9. Notify Finance Team

Send an email notification to the Finance Group with the summary of the invoice for approval.

10. Finalize Invoice Approval

Update the invoice entry status to 'Approved' once the manager completes the task.

11. Create Payment Instruction

Create a new entry in the 'Payments' Data Model to schedule the disbursement.

12. Send Confirmation to Vendor

Send an automated email to the Vendor's email address confirming that the invoice has been approved for payment.

13. Remove Duplicate Drafts

Delete any draft entries in the Invoice Data Model that were created by mistake during the process.

14. Generate Monthly Processing Report

Generate a report summarizing all processed invoices, total amounts, and processing time for the month.

End

End of the Workflow/Process.