07 - Alerts & Failover

# 🔔 Real-Time Sync Failure Alerts

Use Discord Webhooks or Email to notify administrators of failed syncs in real-time.  
  
✅ Recommended: Discord Webhook  
- Free  
- Instant alert delivery  
- Easy to integrate  
  
📧 Optional: Email via `frappe.sendmail`

# 📨 Discord Webhook Example

import requests  
  
def notify\_discord(shop, message):  
 webhook\_url = "https://discord.com/api/webhooks/your\_webhook\_url"  
 data = { "content": f"🚨 Sync Alert from {shop}:  
{message}" }  
 try:  
 requests.post(webhook\_url, json=data)  
 except Exception as e:  
 frappe.log\_error(f"Discord webhook error: {str(e)}")

# 📆 Daily Sync Summary Scheduler

In hooks.py:  
scheduler\_events = {  
 "daily": ["erpnext\_shop\_sync.api.daily\_sync\_summary"]  
}  
  
Sample daily\_sync\_summary():  
- Fetch Sync Logs with status = "Failed"  
- Send Discord message with list of failures

# 🔁 Retry Queue

All failed sync attempts are logged to the Sync Log with status = "Retry"  
  
A background script processes these:  
- Checks shop connectivity  
- Resends payload  
- Updates log on success/failure

# 🧪 Sample Retry Queue Code

def process\_retry\_queue():  
 retry\_logs = frappe.get\_all("Sync Log", filters={"status": "Retry"})  
 for log in retry\_logs:  
 try:  
 # attempt resend  
 response = requests.post(log.shop\_url, data=log.payload)  
 if response.ok:  
 log.status = "Success"  
 log.save()  
 else:  
 log.error\_message = response.text  
 log.save()  
 except Exception as e:  
 log.error\_message = str(e)  
 log.save()

# 📊 Sync Status Monitoring Dashboard

Fields:  
- Shop Name  
- Last Sync Time  
- Auto Sync Enabled  
- Success Count  
- Fail Count  
- Retry Button  
  
Visuals:  
- Red / Green indicator  
- Filters by shop or doctype