

Broker Automation System – Product Requirements Document (PRD)

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Product Requirements Document (PRD) – Broker Automation System

1. Document Overview

- **Product Name:** Broker Automation System
 - **Prepared By:** Joshua Burt
 - **Date:** July 1, 2025
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2. Objective

Automate the self-direction broker process, from initial client intake to billing, using a fully integrated system with n8n, Google Workspace, Monday.com, and a custom Broker Billing Bot.

3. Background

Manual broker processes are time-consuming, error-prone, and require frequent document tracking and follow-ups. This automation will streamline tasks, ensure compliance, and reduce the manual burden on brokers.

4. Goals & Success Metrics

- Fully automate intake, budget submission, SAP generation, and billing.
 - Reduce manual email processing by 90%.
 - Achieve 95% task tracking accuracy in Monday.com.
 - Ensure billing files are ready before each billing deadline.
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5. Scope

In Scope:

- Email detection and intake processing.
- Google Sheets and Monday.com task management.
- Automatic document generation.
- Billing automation (preparation for manual portal submission).

Out of Scope:

- Full API-based submission to the FI billing portal (broker will manually copy data).
 - Real-time integration with third-party Life Plan management systems.
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6. Requirements

Functional Requirements:

- Email triggers via n8n.
- Google Sheet lead tracking.
- Monday.com task management.
- Automated document checks.
- Broker Billing Bot integration.

Non-Functional Requirements:

- System must handle multiple clients simultaneously.
 - All files must be stored in structured Google Drive folders.
 - Cron jobs for reminders and task tracking.
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7. User Stories / Use Cases

- **As a broker**, I want incoming client emails to automatically generate intake tasks so I can stay organized.
 - **As a broker**, I want documents to be automatically checked for completeness so I can quickly identify missing information.
 - **As a broker**, I want the system to generate billing files so I can submit them to the portal efficiently.
 - **As a broker**, I want to be notified of billing deadlines and revision requests to maintain compliance.
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8. Assumptions

- The broker manually copies billing data into the external portal.
 - Brokers have access to Gmail, Google Drive, Google Sheets, and Monday.com.
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9. Dependencies

- n8n platform for automation.
- Google Workspace (Gmail, Drive, Sheets).

- Monday.com task management.
- Broker Billing Bot (custom AI component).

10. Timeline / Milestones

Milestone	Description	Deadline
Intake Workflow Setup	Email triggers, Google Sheets, Monday.com	July 10, 2025
Budget Development Automation	Broker Agreement, Document Requests	July 17, 2025
Budget Submission Automation	Cron Jobs, Google Drive Storage	July 24, 2025
Initial Budget Approval Flow	FI Submission, Revisions, Tracking	July 31, 2025
CNBA Processing Flow	CNBA File Detection, Email Routing	August 7, 2025
SAP Generation Flow	Life Plan Detection, GPT SAP Creation	August 14, 2025
Billing Automation	Broker Billing Bot Integration	August 21, 2025

11. Stakeholders

- Product Owner: Joshua Burt
- Broker: Joshua Burt
- Automation Developer: [To Be Assigned]
- Fiscal Intermediary (FI): External
- Care Managers: External

12. Risks & Mitigation

Risk	Mitigation
Errors in automated document checks	Manual review step before submission
Cron job failures	Set up error notifications and manual backup reviews
Incomplete billing data	Automated alerts and revision tracking in Monday.com

13. Appendix

- Detailed Workflow Simulation (from your provided document)
- Node Mapping (to be created in n8n)
- Example intake forms, Broker Agreements, CNBAs, SAPs, Billing Files
- **Problem importing workflow**

14. System Architecture

The Broker Automation System is designed to operate as an integrated, modular workflow utilizing the following components:

- **n8n:** Serves as the primary automation orchestrator, managing workflow triggers, conditional routing, and API interactions.
- **Google Workspace:** Provides email intake (Gmail), structured document storage (Google Drive), and client tracking (Google Sheets).
- **Monday.com:** Facilitates task management, deadline tracking, and status reporting across all client processes.
- **Broker Billing Bot:** A custom AI-powered component responsible for generating billing files with accurate service classifications and client-specific details.

All components will authenticate securely using OAuth or API keys. Redundancy and retry mechanisms will be incorporated to ensure fault tolerance and process resiliency.

15. Data Flow Diagram

End-to-End Workflow:

1. **Email Intake:** Client emails are automatically detected by n8n.
2. **Lead Logging:** Email data is parsed and logged in a Google Sheet.
3. **Task Generation:** Monday.com tasks are automatically created and linked to the client record.
4. **Document Verification:** The system checks document completeness and flags missing items.
5. **Billing Preparation:** The Broker Billing Bot generates draft billing files for broker review.
6. **Submission Reminder:** Automated alerts notify brokers of upcoming deadlines.

Failure Path:

- On any API or system failure, the process is rerouted to a manual review task in Monday.com, with automatic error notifications sent to the broker.

16. Expanded Non-Functional Requirements

- **Scalability:** The system must allow seamless onboarding of additional brokers and clients without system redesign.
- **Reliability:** Workflow success rate should exceed 99.9% uptime, with retry policies for API failures.
- **Security:** All client data must be encrypted at rest and in transit. System access requires secure authentication.
- **Logging:** Each node execution must generate a timestamped log entry for auditing and troubleshooting.
- **Maintainability:** Workflow nodes must be clearly labeled and modular to allow efficient updates and debugging.

17. Performance Benchmarks

- Email-to-task conversion: Within 30 seconds

- Document verification process: Completed within 5 minutes
- Billing file generation: Within 1 minute per client
- Cron job success rate: Minimum 99% success per monthly cycle

18. Error Handling Scenarios

- **Document Missing:** The workflow pauses and generates an immediate broker notification.
- **API Downtime:** If Monday.com or Google APIs fail, the system retries every 5 minutes for up to 1 hour. After failure, a manual task is created.
- **Billing Bot Failure:** If the billing file generation fails, a manual billing task is automatically generated with broker instructions.
- **Cron Job Errors:** All cron jobs will include failover notifications and manual backup checklists.

19. Reporting & Metrics Dashboard

A live Google Sheet and Monday.com dashboard will be maintained to track:

- Number of successful workflows executed
- Number of failed workflows
- Total time saved per month
- Manual interventions required
- Billing preparation timelines

The dashboard will be updated in real-time via n8n automations.

20. AI Agent Integration (Future Enhancement)

Future development will include building an AI Agent capable of:

- Handling client inquiries and ambiguous requests
- Prioritizing incoming emails based on urgency and context
- Suggesting workflow optimizations based on system logs

This feature will be considered after initial system stabilization.

21. Maintenance Plan

- **Weekly:** Workflow health checks and API token validations
- **Monthly:** System log reviews and manual process audits
- **Quarterly:** Process efficiency reviews and system performance evaluations

Maintenance responsibilities will be assigned to the automation developer and reviewed by the product owner.

22. Change Management Process

All system changes will follow this protocol:

1. Proposed changes are reviewed by the Product Owner.
2. Changes are tested in a sandbox environment.
3. Documentation is updated to reflect changes.
4. Affected users are trained on the new process.

No live changes will be made without this approval chain.

23. Testing Plan

- **Unit Testing:** Each individual node and API call will be tested for functionality.
- **Integration Testing:** Full workflow testing from intake to billing to verify cross-system data flow.
- **User Acceptance Testing:** Brokers will review and confirm process functionality and usability.
- **Backup & Rollback:** Manual workflows and static templates will be maintained for immediate use in the event of system failure.

24. Training Materials

Training materials will include:

- Video tutorials demonstrating each core process
- Written Standard Operating Procedures (SOPs) for automated and manual workflows
- Troubleshooting guides for common system errors
- Live training sessions and periodic refresher courses

These resources will be provided to all brokers and stakeholders to ensure full adoption and operational readiness.

25. Compliance & Regulatory Requirements

The Broker Automation System must adhere to all relevant data privacy, confidentiality, and documentation standards applicable to the self-direction brokerage field.

- **HIPAA Considerations:** Although the system does not directly process protected health information (PHI), it must be designed to prevent incidental disclosures when handling client emails and documentation.
 - **Data Retention Policy:** All billing files, client intake documents, and system logs must be securely stored for a minimum of seven (7) years, in alignment with New York State and organizational retention requirements.
 - **Google API Compliance:** All email processing, Google Sheets integrations, and Drive storage must comply with Google's API usage policies to ensure secure, authorized access to client data.
 - **Email Confidentiality:** All automated processes must preserve client confidentiality, with strict controls to ensure that emails are routed only to authorized brokers.
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26. Disaster Recovery Plan

The Broker Automation System must include robust disaster recovery protocols to safeguard against system failures and data loss.

- **Daily Workflow Backups:** JSON exports of all active n8n workflows must be saved to a secure Google Drive folder and verified weekly.
- **Document Redundancy:** All key Google Drive files, including billing records and intake forms, must be mirrored to a secondary secure folder as a precaution against accidental deletion or corruption.

- **Manual Fallback Procedures:** Pre-built manual templates and tracking sheets must be maintained and readily available for brokers to continue operations in the event of prolonged system downtime (>24 hours).
 - **Error Reporting:** System failures must automatically trigger error reports and immediate alerts to the automation developer and product owner.
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27. System Scalability & Load Testing

The system must be capable of scaling to support future growth in client volume and broker participation.

- **Load Testing:** Simulations will be conducted to verify system performance with up to 500 concurrent client workflows and a daily intake of 1,000 emails.
 - **Broker Expansion:** The architecture must accommodate the onboarding of new brokers with minimal system adjustments.
 - **Workflow Optimization:** The system will be periodically stress-tested to identify potential bottlenecks and improve efficiency under high-load conditions.
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28. Integration Plan for Future Tools

The system must be designed with modularity to allow easy integration with future third-party tools and AI enhancements.

- **CRM Compatibility:** Future plans may include integration with CRM platforms such as Salesforce or HubSpot for advanced client management.
 - **AI Enhancements:** Future AI agents may be deployed to automate complex decision-making, client triage, or dynamic task prioritization.
 - **Webhook Flexibility:** n8n workflows will include placeholder webhook nodes to quickly connect to additional platforms as business needs evolve.
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29. Environmental Requirements

The system must be compatible with both cloud-hosted and local environments to ensure deployment flexibility.

- **Platform Location:** The automation system should primarily operate within n8n's cloud environment but should maintain compatibility with self-hosted instances for future scalability.
 - **Timezone Synchronization:** All time-sensitive processes, including cron jobs and deadline tracking, must operate in the Eastern Time Zone to align with broker working hours.
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30. Mobile Compatibility

Mobile accessibility is essential for brokers to manage tasks and respond to system alerts in real-time.

- **Mobile App Support:** Monday.com tasks and notifications must be fully accessible via the Monday.com mobile app.
 - **Responsive Notifications:** All system-generated email notifications and approval requests must be formatted for mobile readability and quick action.
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31. Role-Based Access Control (RBAC)

Security controls must restrict system access based on user roles to protect sensitive client data.

- **Broker Permissions:** Only brokers may modify workflows, approve billing files, or initiate intake processes.
 - **Developer Access:** Automation developers may access system logs and configurations but are restricted from modifying client billing records.
 - **Care Manager Access:** Care managers and external stakeholders will have read-only access to designated Monday.com boards and reports.
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32. Continuous Improvement Plan

A structured continuous improvement strategy will ensure the system remains efficient, relevant, and user-centric.

- **Quarterly Feedback Loop:** Brokers will be surveyed quarterly to provide suggestions for workflow enhancements.

- **Annual System Review:** An annual performance and security audit will be conducted to ensure the system aligns with current best practices and organizational goals.
 - **KPI Tracking:** Key performance indicators such as workflow success rate, average processing time, and system uptime will be monitored to inform future improvements.
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33. API Rate Limiting Safeguards

The system must be designed to prevent API throttling and ensure uninterrupted workflow execution.

- **Rate Limiting Controls:** n8n pacing nodes will be implemented to throttle API calls to Google Workspace, Monday.com, and other integrated services.
 - **Quota Monitoring:** API quota usage will be tracked in real-time, and automated alerts will notify the automation developer if thresholds approach daily limits.
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34. Accessibility Standards

The system must be designed to meet accessibility guidelines and ensure usability for all stakeholders.

- **WCAG Compliance:** Monday.com boards and Google Sheets must meet WCAG 2.1 accessibility standards for users with visual or physical impairments.
 - **Accessible Communications:** All email templates and system notifications must be screen reader-friendly and mobile responsive.
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35. Budget & Resource Allocation

A clear budget and resource plan will support the system's development, deployment, and maintenance.

- **Development Budget:** Allocate sufficient funds for premium nodes, third-party API connectors, and potential platform upgrades.
- **Resource Planning:** Estimated 15–20 development hours per core workflow, with dedicated resources for quarterly system reviews and maintenance.

- **Training Budget:** Include time and costs for broker training, onboarding of new staff, and production of updated training materials.

36. Smart Priority Queue

The Broker Automation System will incorporate a **Smart Priority Queue** to dynamically rank and manage tasks based on urgency and broker-defined priorities.

- **Automatic Prioritization:**
The system will automatically assign priority levels to tasks based on key criteria such as upcoming billing deadlines, incomplete document submissions, or flagged issues.
 - **Real-Time Reordering:**
Monday.com task boards will automatically reorder tasks as priorities change, ensuring that the most urgent items are always surfaced to the broker.
 - **Manual Override:**
Brokers will retain the ability to manually adjust task priority when necessary, ensuring flexibility within the automated structure.
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37. Dynamic SLA Tracker

A **Dynamic Service Level Agreement (SLA) Tracker** will be integrated into the workflow to measure and ensure timely task completion.

- **Real-Time Monitoring:**
The system will track the time elapsed between key workflow steps, such as email receipt to task creation, and billing file preparation to broker review.
 - **Threshold Alerts:**
Automated alerts will notify brokers when SLA thresholds are approaching, providing brokers with the opportunity to meet deadlines and maintain process efficiency.
 - **Reporting:**
SLA adherence will be reported monthly via a dashboard, allowing brokers and system administrators to track performance and address bottlenecks.
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38. AI-Powered Document Summarization

An **AI-Powered Document Summarization** feature will automatically extract and summarize key points from lengthy email threads, intake forms, and supporting documents.

- **Automated Summaries:**
Summaries will be automatically generated using GPT-based models and populated into the relevant Monday.com task fields.
 - **Broker Efficiency:**
This feature will significantly reduce reading and review time for brokers by presenting concise, actionable summaries.
 - **Manual Review Option:**
Brokers will be able to access the full document or email if detailed context is required.
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40. Auto-Generated Client Progress Reports

The system will support **Auto-Generated Client Progress Reports** that consolidate broker activities, client milestones, and outstanding tasks into a structured report.

- **Automated Compilation:**
Data from Google Sheets logs, Monday.com task updates, and billing records will be automatically compiled into a PDF report on a monthly or quarterly basis.
 - **Distribution:**
Reports will be sent directly to brokers and optionally shared with care managers for collaborative case management.
 - **Customization:**
Brokers may customize the reporting frequency and select which data fields to include.
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41. Predictive Analytics for Workflow Bottlenecks

The Broker Automation System will incorporate **Predictive Analytics** to identify and proactively address workflow bottlenecks.

- **Historical Data Analysis:**
The system will continuously analyze past workflow performance to detect patterns that predict future delays.

- **Proactive Notifications:**
Tasks or steps with a high likelihood of causing process delays will be automatically flagged for broker follow-up.
 - **Optimization Suggestions:**
The system will periodically suggest workflow adjustments to streamline recurring bottlenecks.
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42. Multi-Channel Notifications

The system will support **Multi-Channel Notifications** to ensure brokers receive timely alerts across multiple platforms.

- **Email Alerts:**
Standard system updates and reminders will continue via Gmail.
 - **SMS Notifications:**
Critical alerts, such as billing deadlines and SLA violations, may be sent via SMS to ensure immediate visibility.
 - **Optional Integration with Slack or Microsoft Teams:**
Brokers using Slack or Teams may opt to receive system updates directly in their collaboration channels.
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44. Version Control for Documents

A **Version Control System** will be implemented for all critical documents managed within Google Drive.

- **Revision Tracking:**
All document changes will be tracked with version histories to ensure transparency and accountability.
 - **Audit Logs:**
Each version change will be logged and timestamped, allowing brokers to review historical edits and recover previous versions if necessary.
 - **Change Notifications:**
Brokers will receive automated alerts when critical documents are modified.
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45. Gamification for Broker Engagement

The system will incorporate **Gamification Elements** to increase broker engagement and task completion rates.

- **Leaderboards:**
Brokers will have access to a dashboard displaying key performance metrics such as tasks completed, billing files prepared, and SLA compliance.
 - **Point System:**
Brokers may earn points for timely task completion, accuracy, and workflow contributions.
 - **Recognition:**
Monthly recognition emails or digital badges may be distributed to top-performing brokers to encourage friendly competition.
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46. Broker-to-Broker Handoff Protocol

A **Broker-to-Broker Handoff Workflow** will enable seamless client transitions between brokers.

- **Automated Task Transfer:**
All active tasks, documents, and client files will be automatically reassigned to the new broker within Monday.com.
- **Document Access Management:**
Access permissions in Google Drive will update automatically to ensure appropriate document visibility.
- **Stakeholder Notifications:**
Automated email notifications will be sent to clients, care managers, and other involved parties to inform them of the broker change.

39. Visual Workflow Builder for Brokers

The Broker Automation System will offer a **Visual Workflow Builder** to empower brokers to customize select process elements without developer assistance.

- **User-Friendly Interface:**
Brokers will be able to visually map and modify specific workflow parameters using a simplified dashboard or template provided within Monday.com or Google Slides.

- **Customizable Elements:**
Brokers may adjust task labels, set custom deadlines, and modify priority flags directly through the visual interface, without affecting the core workflow logic.
 - **Safeguards:**
Changes made through the visual builder will be restricted to low-risk elements to prevent accidental system disruption. Core automation logic will remain developer-controlled.
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43. Broker Performance Dashboard

The system will include a **Broker Performance Dashboard** that provides real-time visibility into broker productivity and workflow efficiency.

- **Key Metrics Displayed:**
 - Number of tasks completed per broker
 - Average task completion time
 - Number of manual interventions required
 - SLA compliance rates
 - **Personalized Views:**
Each broker will have access to their own dashboard, allowing them to track personal progress and performance trends.
 - **Organizational Insights:**
System administrators can access consolidated performance views across all brokers to identify best practices and training opportunities.
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47. Client Self-Service Portals (Long-Term Vision)

As a future enhancement, the Broker Automation System may incorporate **Client Self-Service Portals** to improve transparency and client engagement.

- **Document Upload:**
Clients will be able to securely upload required documentation directly into the system.
- **Status Tracking:**
Clients may access a read-only dashboard to monitor the progress of their cases, billing status, and outstanding items.
- **User-Friendly Design:**
Portals will be optimized for accessibility and mobile use, ensuring ease of access for all clients.
- **Security:**
Multi-factor authentication and role-based access will be required to safeguard client information.

48. AI-Powered Meeting Summaries

The system will integrate **AI-Powered Meeting Summaries** to enhance documentation and broker efficiency.

- **Automated Transcription:**
Integration with Whisper or similar transcription tools will automatically transcribe broker meetings conducted via Zoom, Teams, or other virtual platforms.
- **Intelligent Summarization:**
Summaries of key decisions, action items, and follow-ups will be automatically generated and stored in the client's Monday.com record.
- **Manual Review:**
Brokers will be able to edit or expand AI-generated summaries to ensure accuracy and completeness.

49. Broker Feedback Loop for Workflow Improvements

The system will incorporate a **Broker Feedback Loop** to encourage continuous process enhancement.

- **Embedded Feedback Links:**
All automated system notifications and Monday.com task templates will include a quick-access feedback link.
- **Real-Time Submission:**
Brokers can instantly submit suggestions, report bugs, or request new features through an embedded Google Form or Monday.com feedback item.
- **Review Cycle:**
Feedback will be reviewed monthly by the automation developer and product owner, with prioritized items added to the system improvement backlog.

50. Multi-Tier Automation Levels

The Broker Automation System will offer **Multi-Tier Automation Levels** to accommodate different broker preferences and comfort levels with automation.

- **Level 1: Basic Automation**
 - Automates task creation and standard email notifications.
 - Suitable for brokers who prefer partial automation.
- **Level 2: Full Automation**
 - Includes document verification, deadline tracking, and billing file generation.

- Suitable for brokers seeking end-to-end process automation.
- **Level 3: Advanced AI Integration**
 - Incorporates AI-powered summaries, predictive analytics, and smart priority queueing.
 - Suitable for brokers looking to maximize system efficiency.
- **Broker Control:**

Brokers can select their preferred automation tier during onboarding and may upgrade tiers as they become more comfortable with the system.

51. Multi-Broker Collaboration Features

The Broker Automation System will support **Multi-Broker Collaboration** to accommodate complex cases requiring input from multiple brokers.

- **Shared Task Ownership:**

Tasks can be simultaneously assigned to multiple brokers, allowing collaborative work on shared client cases with live updates reflecting contributions from all participants.
 - **Embedded Communication Threads:**

Monday.com tasks will include internal comment threads where brokers can communicate, tag each other, and document key decisions directly within the workflow.
 - **Role-Based Visibility:**

Sensitive client information and task elements will be selectively visible based on broker permissions, ensuring confidentiality is maintained even in multi-broker assignments.
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52. Broker Onboarding Automation

A dedicated **Broker Onboarding Automation Workflow** will be implemented to streamline the setup and training of new brokers.

- **Structured Onboarding Process:**

The system will automatically generate onboarding task lists, including system setup steps, training assignments, and resource distribution.
 - **Progress Tracking:**

Each onboarding step will be tracked in Monday.com, with real-time visibility for supervisors to monitor broker progress.
 - **Automated Resource Distribution:**

System manuals, cheat sheets, and video tutorials will be automatically delivered via email as part of the onboarding sequence.
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54. Broker Capacity Management

The Broker Automation System will include a **Broker Capacity Management Feature** to prevent individual brokers from becoming overburdened.

- **Real-Time Caseload Monitoring:**
The system will track each broker's active client load and workflow volume in real-time.
 - **Dynamic Assignment Rules:**
New client intakes and high-priority tasks will be automatically assigned to brokers with available capacity to ensure equitable workload distribution.
 - **Dashboard Visibility:**
Supervisors will have access to a capacity management dashboard to quickly assess broker workloads and adjust task distribution as needed.
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55. Built-In Training Simulation Mode

A **Training Simulation Mode** will be developed to allow brokers to practice workflows and system navigation in a safe, non-production environment.

- **Isolated Sandbox Environment:**
Brokers will be able to run simulated workflows using mock client cases without impacting live data.
 - **Pre-Built Scenarios:**
The training mode will include pre-loaded cases covering common broker scenarios to provide structured practice opportunities.
 - **Performance Feedback:**
The system will track broker performance within the training mode and offer automated feedback and recommended next steps.
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56. Audit Trail Reporting

The system will provide a **Comprehensive Audit Trail Report** for all automated and manual activities.

- **Timestamped Activity Logs:**
All system actions, including task completions, document uploads, and billing file generation, will be logged with exact timestamps and user identifiers.
- **Compliance-Ready Reporting:**
The audit trail will be exportable in a compliance-friendly format suitable for internal reviews and external audits.
- **Change History Visibility:**
Brokers and system administrators will have access to document version histories and workflow modification records to ensure full process transparency.

57. Automated Broker Certification Tracking

The system will include **Automated Broker Certification Tracking** to manage required broker credentials and renewals.

- **Credential Monitoring:**
The system will maintain a database of each broker's certification status and renewal deadlines.
- **Automated Reminders:**
Brokers will receive system-generated alerts well in advance of credential expiration dates.
- **Training Completion Logs:**
Completion of mandatory training modules will be logged and accessible via a centralized certification dashboard.

58. Broker Satisfaction Surveys

To support continuous system improvement, **Quarterly Broker Satisfaction Surveys** will be distributed automatically.

- **Automated Survey Distribution:**
Google Forms surveys will be sent to brokers on a scheduled basis to collect structured feedback on system usability, efficiency, and feature requests.
- **Feedback Dashboard:**
Survey responses will be compiled in a Google Sheet or Monday.com dashboard for real-time analysis.
- **Continuous Improvement Integration:**
Actionable feedback will be incorporated into the system's quarterly improvement planning cycles.

59. Document Approval Workflow

A **Document Approval Workflow** will be added to enable multi-layer review and approval before final billing or submission.

- **Peer Review Option:**
Brokers may request optional peer or supervisory review of critical documents, such as billing files or CNBAs.

- **Approval Tracking:**
Each approval step will be logged with timestamps and user records to create a transparent approval trail.
 - **Escalation Path:**
If a document remains unapproved beyond a set timeframe, the system will automatically escalate the task to a supervisor for resolution.
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60. Data Archiving and Purging Policies

The system will adhere to **Formal Data Archiving and Purging Policies** to ensure efficient long-term data management.

- **Automatic Archiving:**
Client records with no active tasks for 12 months will be automatically archived to a designated storage folder.
- **Data Purging Workflow:**
Records that surpass the required data retention period will be flagged for review and securely purged upon approval.
- **Retention Compliance:**
All archiving and purging processes will comply with New York State and organizational data retention regulations.

61. Mobile Workflow Actions

The Broker Automation System will offer **Mobile Workflow Actions** to enable brokers to manage critical tasks from their mobile devices.

- **Quick Approvals:**
Brokers will be able to approve documents, confirm task completions, and process deadline extensions using mobile-optimized interfaces within the Monday.com mobile app.
 - **Push Notifications:**
Real-time system alerts, deadline reminders, and task updates will be delivered as push notifications to the broker's mobile device to minimize response delays.
 - **Mobile-First Design:**
All mobile workflows will be streamlined for easy navigation and fast task execution on smartphones and tablets.
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62. Broker Availability Calendar

A **Broker Availability Calendar** will be integrated into the system to optimize task assignment and meeting scheduling.

- **Google Calendar Integration:**
The system will automatically check broker Google Calendar availability before scheduling meetings or assigning new tasks.
 - **Availability Status Management:**
Brokers will have the option to set "Available," "Busy," or "Unavailable" statuses to control incoming task assignments in real-time.
 - **Scheduling Conflict Prevention:**
Automated checks will prevent task assignments or meeting requests from conflicting with broker availability.
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63. System Scalability Documentation

Comprehensive **System Scalability Documentation** will be developed to guide future system expansion and load management.

- **Deployment Scalability:**
Documentation will include best practices for adding new brokers, clients, or entire regional hubs without disrupting existing workflows.
 - **Performance Benchmarks:**
The system's tested capacity thresholds will be clearly documented, including the maximum number of concurrent workflows and expected email processing rates.
 - **Resource Planning Guidelines:**
Strategies for allocating technical and personnel resources during system scaling events will be outlined to ensure seamless growth.
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64. Scheduled System Health Checks

The system will incorporate **Scheduled System Health Checks** to proactively monitor workflow integrity and system performance.

- **Automated API Connectivity Tests:**
Scheduled workflows will verify the connection status of all integrated platforms (Gmail, Google Sheets, Monday.com) at regular intervals.

- **Error Detection Sweeps:**

The system will automatically scan for incomplete, stalled, or failed workflows and immediately notify the broker and system administrator.

- **System Health Dashboard:**

A live dashboard will provide real-time visibility into system status, connection uptime, and recent error logs.

65. Built-In System Pause and Resume

The Broker Automation System will include a **System Pause and Resume Function** to enable controlled system downtime for maintenance.

- **Scheduled Maintenance Mode:**

System administrators will be able to activate maintenance windows where new workflows are temporarily paused.

- **Seamless Resumption:**

In-progress workflows will automatically resume from their last successful step once the maintenance window concludes.

- **Broker Notifications:**

Brokers will receive advance notice of scheduled pauses and immediate confirmation when workflows are resumed.

66. Real-Time Broker Chat Support Integration

The Broker Automation System will offer **Real-Time Broker Chat Support** to provide brokers with immediate system assistance.

- **Live Chat Feature:**

A live chat widget will be integrated into the broker dashboard, allowing brokers to request real-time support from system administrators or IT support staff.

- **AI-Powered Chatbot:**

An intelligent chatbot will be deployed to handle frequently asked questions, offer step-by-step troubleshooting guidance, and provide links to relevant training materials.

- **Escalation Path:**

If the chatbot cannot resolve the issue, the system will escalate the broker's support request to a live support agent during business hours.

67. Adaptive Learning Recommendations

The system will incorporate **Adaptive Learning Recommendations** that tailor broker development suggestions based on system usage and performance trends.

- **Performance-Driven Suggestions:**
AI algorithms will analyze broker workflow patterns to identify areas where efficiency can be improved.
- **Training Path Customization:**
The system will automatically recommend specific training modules, SOP refreshers, or system tips personalized to each broker's needs.
- **Proactive Alerts:**
Brokers will receive in-system notifications when the AI detects repetitive delays or errors that suggest a learning opportunity.

68. Custom Broker Profiles

The Broker Automation System will feature **Custom Broker Profiles** to personalize the broker experience and system interactions.

- **Notification Preferences:**
Brokers can set their preferred notification channels (email, SMS, Slack) and control the frequency of reminders and alerts.
- **Workflow Display Settings:**
Brokers can choose customized Monday.com board views, task layouts, and dashboard themes to suit individual working styles.
- **Saved Settings:**
Each broker's preferences will be securely stored and automatically applied upon login for a consistent, personalized experience.

69. Third-Party FI Dashboard (Read-Only Access)

A **Third-Party Fiscal Intermediary (FI) Dashboard** will be provided to improve transparency and external collaboration.

- **Real-Time Progress View:**
Fiscal Intermediaries will have read-only access to dashboards showing billing preparation status, document review progress, and outstanding tasks.
 - **Permission Restrictions:**
FI users will have strictly limited access, with no ability to modify workflows, tasks, or client files.
 - **Secure Authentication:**
All FI dashboard access will require unique credentials with multi-factor authentication to ensure data security.
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70. Automatic Regulatory Updates Integration

The system will incorporate **Automatic Regulatory Updates Integration** to proactively keep brokers informed of changes in industry requirements.

- **Regulatory Feed Monitoring:**
The system will continuously monitor designated RSS feeds, API endpoints, or subscribed mailing lists from OPWDD or other regulatory bodies.
 - **Automated Alerts:**
Brokers will receive immediate system notifications when new policies, forms, or billing guidelines are published.
 - **Knowledge Base Updates:**
Detected regulatory changes will be automatically logged into the system's internal knowledge base, ensuring brokers have the latest compliance information at their fingertips.
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71. Embedded Video Tutorials & Guided Walkthroughs

The system will feature **Embedded Video Tutorials and Guided Walkthroughs** to enhance broker onboarding and day-to-day task execution.

- **Task-Based Help:**
Brokers can access short, step-by-step video tutorials directly from within each workflow task.

- **Interactive Walkthroughs:**

Guided, click-through instructions will walk brokers through complex processes, reducing the need for external support.

- **Continuous Learning:**

The embedded help system will be regularly updated as workflows evolve to ensure brokers always have the most current training resources available.

72. Sentiment Analysis for Client Communications

The Broker Automation System will employ **Sentiment Analysis** to assist brokers in prioritizing client communications.

- **Tone Detection:**

Incoming client emails will be automatically scanned to detect urgency, frustration, or positive feedback using sentiment scoring algorithms.

- **Priority Flagging:**

Messages identified as potentially urgent or sensitive will be automatically flagged and surfaced to the top of the broker's task list.

- **Trend Reporting:**

Longitudinal analysis of sentiment trends can provide insights into client satisfaction and potential service issues.

73. Broker Task Delegation System

The system will offer a **Broker Task Delegation Feature** to support efficient team-based workflow management.

- **Quick Task Reassignment:**

Brokers can reassign tasks to colleagues within Monday.com with a single click, optionally providing comments for handoff context.

- **Delegation Logging:**

All task reassignment actions will be timestamped and recorded in the system's activity log to maintain accountability.

- **Team Collaboration:**

Brokers can view each other's availability and workloads to make informed delegation decisions.

74. Calendar-Based Workflow Triggering

The system will enable **Calendar-Based Workflow Triggering** to automatically initiate tasks and reminders tied to scheduled events.

- **Google Calendar Integration:**
Brokers' Google Calendars will sync with the automation system, allowing workflows to trigger based on upcoming events or deadlines.
- **Dynamic Workflow Adjustment:**
Changes to calendar events will automatically adjust associated workflow timelines, ensuring accurate task scheduling.
- **Automated Lead Times:**
The system can generate preparatory tasks a set number of days before key events, improving readiness for meetings and billing cycles.

75. Broker Incentive Tracking (Performance-Based Rewards)

The Broker Automation System will include a **Broker Incentive Tracking Feature** to encourage high performance and system engagement.

- **Gamified Performance Metrics:**
Brokers will earn points for timely task completions, SLA adherence, and workflow efficiency. Points can contribute toward organizational rewards or recognition programs.
- **Monthly Performance Reports:**
The system will automatically generate broker-specific performance reports, summarizing completed tasks, time-to-completion rates, and system participation.
- **Leaderboard Integration:**
Optional leaderboards will display broker rankings based on system engagement and productivity, fostering friendly competition and continuous improvement.

76. Workflow Version Rollback

The system will incorporate **Workflow Version Rollback** to enable rapid recovery from workflow errors or misconfigurations.

- **Version Control:**
Every saved change to an n8n workflow will be stored with a timestamped version history.

- **One-Click Restoration:**
System administrators will be able to instantly revert to any previous version of a workflow to quickly resolve errors without impacting live processes.
 - **Rollback Logging:**
All rollback actions will be logged and auditable, preserving system accountability and traceability.
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77. AI-Powered Task Time Estimation

The system will provide **AI-Powered Task Time Estimations** to assist brokers in daily workload planning.

- **Dynamic Time Predictions:**
Based on historical task data and broker-specific work patterns, the system will predict the estimated time required to complete each task.
 - **Real-Time Adjustments:**
Time estimates will automatically update as workflow conditions change, providing brokers with continuously accurate scheduling guidance.
 - **Dashboard Integration:**
Estimated completion times will be prominently displayed in Monday.com task views, supporting effective time management.
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78. Multi-Language Broker Support

The system will support **Multi-Language Broker Interfaces** to accommodate a linguistically diverse broker workforce.

- **Language Selection:**
Brokers will be able to select their preferred system language from a list of supported options directly within their profile settings.
- **Automated Interface Translation:**
All system notifications, dashboards, task labels, and training materials will be dynamically translated using integrated Google Translate API or comparable services.
- **Consistent Data Structure:**
While the interface language can be changed, all underlying data structures and reports will remain consistent to ensure seamless system operation across languages.