

Core Requirements (Baseline Features)

1. Email Account Integration

- **Connection Format:** `imap:port:user:pass`
- Support for standard IMAP protocols
- Secure credential storage and encryption
- Connection validation and error handling

2. Email Filtering & Holding System

- **Keyword-based filtering** for:
 - Attachment detection and categorization
 - Specific terms (e.g., "invoice", "payment", "urgent")
 - Sender/recipient patterns
 - Subject line matching
- **Individual correspondence isolation:**
 - Ability to intercept all emails between specific individuals
 - Example: All emails from Person 1 to Person 2 are held for review before reaching Person 2's inbox
 - Override keyword filters when correspondence tracking is active
 - Sender-recipient pair management interface
- **Configurable hold periods:**
 - Customizable delay before emails reach original inbox
 - Per-account or global time settings
 - Emergency release functionality
- **Hold queue management:**
 - Visual queue interface
 - Manual review and approval process
 - Bulk operations for held emails

3. Email Reading & Editing

- Pre-delivery email modification capabilities
 - Content editing interface
 - Header modification (where applicable)
 - Attachment handling and replacement
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Enhanced Features (Nice-to-Have)

4. Integrated PDF & Invoice Editing

- **In-panel document editing:**
 - PDF text modification
 - Invoice field editing (amounts, dates, details)
 - Digital signature capabilities
 - Template-based editing for common document types
- **No external downloads required**
- **Version control** for edited documents
- **Audit trail** for all modifications

5. Multi-Account Management

- **Large-scale account handling:**
 - Support for thousands of concurrent accounts
 - Efficient resource allocation and load balancing
 - Account grouping and categorization
 - Bulk configuration management

6. Account Health Monitoring

- **Automated account verification:**
 - Regular connectivity checks
 - Password validation
 - Account status monitoring
- **Alert system** for:
 - Failed connections
 - Password changes
 - Suspended accounts
 - Unusual activity patterns
- **Account recovery workflows**

7. User Experience & Interface

- **Intuitive dashboard** with:
 - Account overview and status
 - Queue management interface

- Real-time processing statistics
 - Quick action buttons
 - **Responsive design** for desktop and mobile
 - **Role-based access control**
 - **Comprehensive search and filtering**
 - **Batch operations** for efficiency
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Technical Specifications

Performance Requirements

- Handle **1000+ concurrent email accounts**
- Process **high-volume email traffic** without delays
- **Real-time synchronization** across accounts
- **Scalable architecture** for future expansion

Security Requirements

- **End-to-end encryption** for stored credentials
- **Secure communication** protocols (TLS/SSL)
- **Access logging** and audit trails
- **Data privacy compliance** (GDPR, etc.)

Infrastructure Requirements

- **Cloud-based or on-premise** deployment options
 - **Database backend** for configuration and logs
 - **Backup and recovery** systems
 - **API endpoints** for integration capabilities
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User Interface Components

Main Dashboard

- Account status overview grid
- Active/inactive account counts
- Processing queue statistics
- Recent activity feed

Account Management Panel

- Add/remove accounts interface
- Bulk import functionality
- Connection testing tools
- Health status indicators

Email Processing Interface

- Held email review queue
- Keyword management system
- Hold time configuration
- Manual processing controls

Document Editor

- Integrated PDF viewer/editor
- Invoice template system
- Change tracking and versioning
- Export/save functionality