Emailed to Kasia:

I am writing to share a plan for a Streamlit application that can automate invoice processing and streamline workflow efficiency. Please find the details below:

**Invoice Automation Requirement**

1. **Automated Notifications**:
   * Employees will receive automated email reminders on the 20th of every month for invoice submission.
2. **Streamlined Invoice Management**:
   * Submitted invoices will be moved from the email system to a designated folder.
3. **Master Sheet Integration**:
   * The invoice total will automatically update in the master sheet.

***Solution Overview***

The application will allow employees to upload invoices, which will then be processed automatically, ensuring smooth handling and updates.

**App Workflow**

1. Employees upload invoices (PDFs or other formats) via the app.
2. They click the "Process" button.
3. The app displays the total extracted from the invoice.
4. If the extracted total is correct, the employee clicks "Submit."
5. On submission:
   * The finance team receives an email notification.
   * The invoice is moved to the appropriate folder.
   * The total is added to the master sheet.

**Core Functions**

* **File Upload**:  
  Initially restricted to a single format (e.g., .docx) with plans to extend to multiple formats and batch processing later.
* **Folder Management**:  
  Move invoices to the relevant folder based on categorization.
* **Finance Notifications**:  
  Send email notifications to the finance team about successful or unsuccessful invoice processing.
* **Core Functional Methods**:
  + extract\_total\_from\_doc()
  + update\_master\_sheet()

**Future Enhancements**

1. **User Authentication**:
   * Secure the application to allow access only to authorized users (e.g., via Streamlit authentication or a login page).
2. **Multi-Format Support**:
   * Extend support to non-PDF invoices (e.g., image files) using OCR tools like Tesseract.
3. **Detailed Email Updates**:
   * Notify the finance team of updates post-processing, including details of rows and columns successfully updated in the master sheet.

This application is designed to simplify invoice processing, reduce manual effort, and improve overall accuracy. I look forward to hearing your feedback or suggestions to refine this plan further.