

# Smart Document Processing Bot - Workflow Documentation

## Overview

This UiPath project automates the process of reading scanned documents (PDFs), extracting text via OCR, passing that text to an AI API for summarization, and exporting structured data to Excel. The bot concludes by sending an email summary of the results.

## Components

- Main.xaml: Entry point that initializes the workflow and invokes ProcessDocument.xaml
- ProcessDocument.xaml: Core workflow for OCR, API call, Excel output, and email
- Config.xlsx: Stores paths and configurable values
- project.json: Defines the project structure and dependencies

## Workflow Steps

1. Monitor a folder for incoming PDF files
2. Perform OCR extraction using UiPath activities
3. Send extracted text to a local FastAPI endpoint
4. Parse and structure the summarized output
5. Write structured data to an Excel file
6. Send a summary email to the configured recipient

## Requirements

- UiPath Studio (2023 or newer)
- Python 3.10+ with FastAPI installed
- OCR engine (Tesseract or UiPath Document OCR)
- Excel and SMTP activities installed in UiPath

## Author

Oliver A. Ellison

LinkedIn: [linkedin.com/in/oellison](https://www.linkedin.com/in/oellison)

Books: [amazon.com/Oliver-A.-Ellison](https://www.amazon.com/Oliver-A.-Ellison)