# Split PDF using OCR

#### Contents

- Problem Statement
- Team
- Features
- Technical Details
- Installation
- Challenges
- References

#### Problem statement

As part of Luddy hackathon, 2024. We worked on creating a standalone application to split pdf file into multiple files based on the OCR configuration given by the user. This application can be used to split the court legal proceeding documents into multiple lead documents for submission automatically for multiple users. Use case

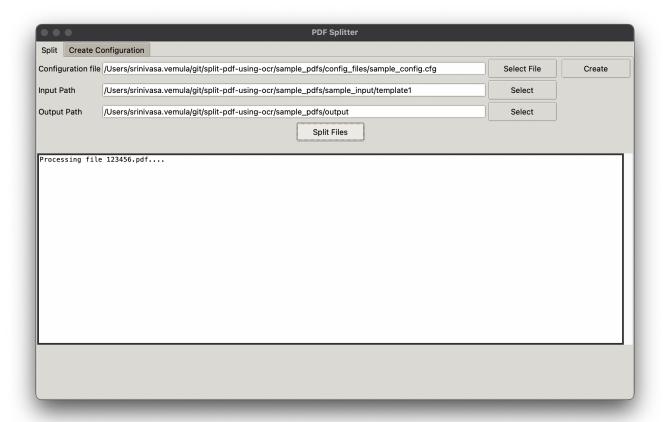
#### Team

- 1. Nikhil Vemula
- 2. Pavan Vemulapalli
- 3. Bhargavi Thanneeru
- 4. Krishna Teja

#### **Features**

#### Split PDF

Takes configuration file, input folder and output folder as input creates multiple pdf files for in a folder for each user.

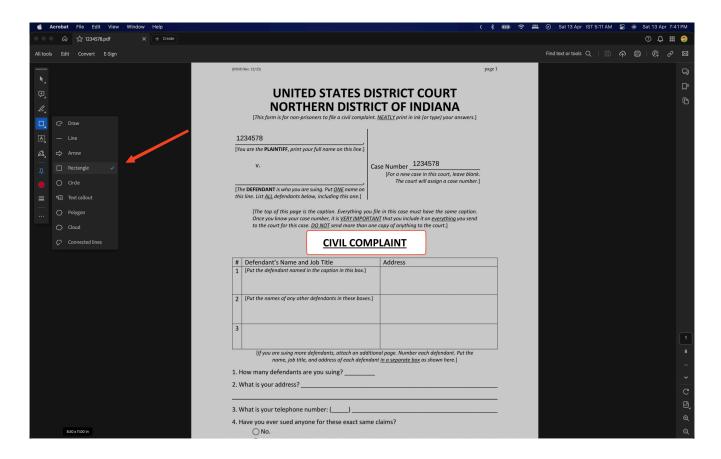


### Auto generation of configuration file

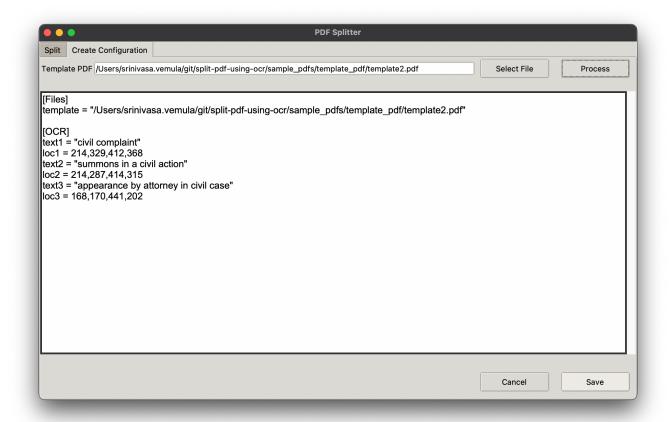
We felt creating the configuration file manually is not a feasable solution. We developed an interface to easily extract configuration from a template pdf providing by ther user.

It involves two steps

Creating a template pdf with annotations Use Adobe Acrobat to create create annotation as shown below and save the pdf after annotating all the PDF page as required.



Creating configuration using app You can select the above created pdf in the application to generate the configuration file automatically. You can modify or add anuy more conifurations and save the configuration file.



#### Technical Details

- It is a python gui application.
- Uses pymupdf for extracting pdf page and converting them to images
- Uses tesseract to perform OCR on the annotated area given in the configuration.
- Uses tkinter to create the GUI interface.

#### Installation

For mac os, you should be able to intall the equivalent libraries in windows.

#### Install tkinter

brew install tcl-tk

You may face trouble with making it work wiht pyenv check this out https://stackoverflow.com/a/60469203

#### Install tesseract

brew install tesseract

#### Install python dependencies

pip install -r requirements.txt

## Challenges

- Understanding the unique legal document use case and the need for this application
- Setting up teserract and linking it with the python
- Unable to create a standalone single file application without any installation using py2app or pyinstaller

## References

- $\bullet \ \, https://odysseyfileandservecloud.zendesk.com/hc/en-us/articles/16763939618061-How-to-Separate-a-Court-Packet-into-Separate-PDF-Documents \\$
- $\bullet \ \, https://www.efilinghelp.com/electronic-filing/separate-pdfs-in-the-same-transaction-envelope/ \\$