I need a Forms Recogniser app. Back-end code should be in python. I am using azure and you alredky know how to connect. All Business logic should be in python, UI UX only on react, you can use Node JS. Create a new Menu “ I am tired” and create all these functionality under this. I am attaching a sample file to start with.

I have 2 services, which you can use.

======================== Azure Document Intelligence ==================================================

AZURE\_DOCUMENT\_INTELLIGENCE\_RESOURCE\_NAME="magicfun"

AZURE\_DOCUMENT\_INTELLIGENCE\_API\_KEY="EcnOFPgvE4AnO6QQZKaOHR8wkgnlq6h5w5sbr5NwSivMvE5nGHIaJQQJ99BFACYeBjFXJ3w3AAALACOGOIK7"

AZURE\_DOCUMENT\_INTELLIGENCE\_ENDPOINT="https://magicfun.cognitiveservices.azure.com/"

======================= Openai Servcies ==============================================

AZURE\_OPENAI\_RESOURCE\_NAME="shahul"

AZURE\_OPENAI\_API\_KEY="3etbcid9Lmrf1MZ0hLxDyu4ZClFJw5rWVHq6WXWYHWAEzE6MPwLMJQQJ99BFACYeBjFXJ3w3AAABACOGKNeb"

AZURE\_OPENAI\_API\_VERSION="2025-01-01-preview"

AZURE\_OPENAI\_ENDPOINT="https://shahul.openai.azure.com/"

======================= Speech Services ==============================================

======================= Main Action ==============================================

1. The muti part scanned pdf file may contain one form to x forms. (In sample, it consists 10 forms and may be duplicated).
2. You should segregate it to convert by individual PDF’s and text file. (This process is forms classification using Azure document Intelligence. This is the most critical part)
3. If a new form is detected, create a new json file for future use.
4. Extract the form and store it in an azure database.
5. Give me a file upload screen with progress bar.
6. Do the OCR and me an OCR progress bar.
7. Break it into constituent pdfs and show me display in a screen as files are getting spilt and a progress bar.
8. Translate into a formatted text show me and display in a screen as files are getting spilt and a progress bar.
9. Extract the text and store it in a json file and display in a screen as files are getting spilt and a progress bar.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Persistence layer \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. All the tables should be created in azure. (No NO NO NO postgres at any pinty and post gres is not a fail safe format)
2. Create a Table for each ingestion as a TF\_ingestion
3. Create another table as TF\_ingestion\_Pdf for each pdf
4. Create another table as TF\_ingestion\_TXT for each TXT
5. Create another table to store all the as a TF\_ingestion\_fields for each extraction of fields
6. Any new instance of forms should wait for an approval status in Back office
7. For each form, create a new Table TF\_forms, TF\_Fields. (This will be your base line)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Part of UI UX\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. File upload and OCR recognition. One main UI
2. All actions should have a progress bar, logs (Info, Error, Warning, Critical)
3. Display each extracted pdf in the same windows in new tabs
4. Display each translated text in the same windows in new tabs
5. Under each, text in a sub window, perform a fields or attribute extraction with key value pairs
6. Give me a window to see load TF\_ingestion, TF\_ingestion\_Pdf, TF\_ingestion\_TXT, TF\_ingestion\_fields. (Full beautiful Crud)
7. Give me a window to see load TF\_forms and approve it. Show the tf\_fields. Give an option to add or edit. Tf\_forms and TF\_fields column should be exhaustive. Use your AI to expand it.