Problem Statement

Title: **Business Contract Validation**

Subtitle: **Classifying Contract Clauses and Determining Deviations**

Additional Information:

Team Name: Team White
Team Leader: Farooq Khan

Unique Idea Brief (Solution)

- I've created a full stack application for user interact and utilize the provided Business Contract Analysis Feature.
- Here, you can see the processed document's clause and sub clauses (Main Entities).
- You can get the Optimized summary
- You can Compare two Documents with the summary
- You can generate your own Contract from provided template.

Features Offered

1. **PDF Generator**

2. **Quick Contract Analysis with Highlights**

3. **Extract Main Entities**

4. **Brief Summary converter**

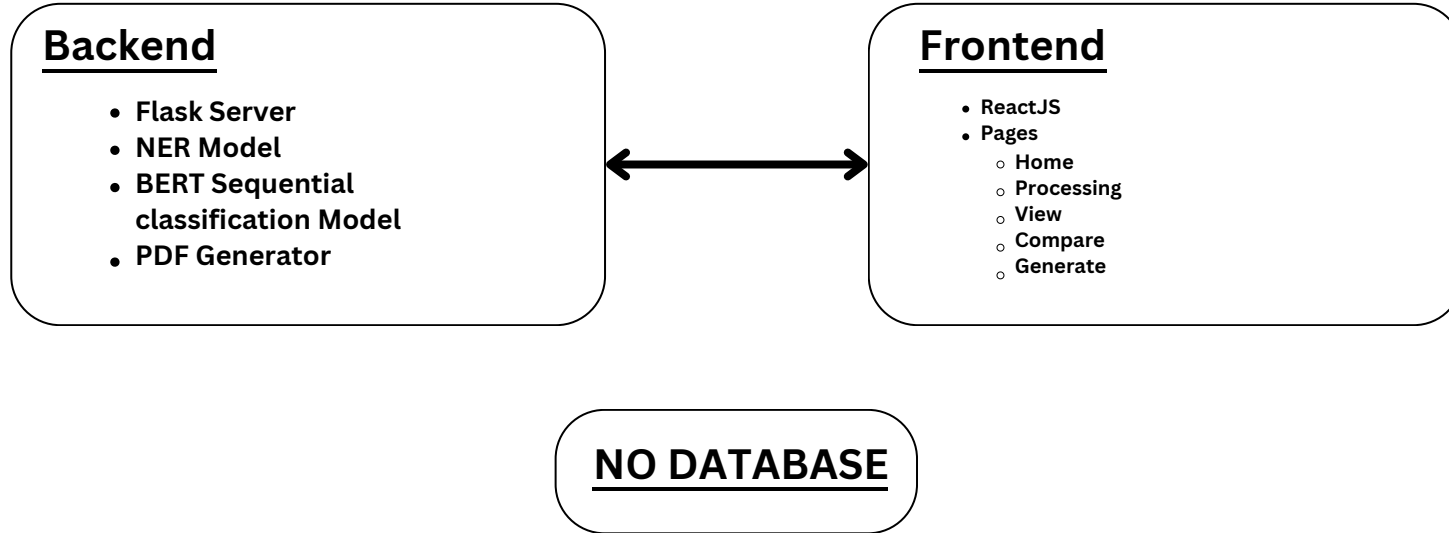5. **Compare Couple of PDFs at a time**

Process flow

Document Process

1. Get Business Contract PDF from client
2. Extract Text from PDF
3. split into paragraphs
4. parse the paragraph to the Bert Sequential Classifier Model
5. Get Main Entities from the paragraph
6. response back to client
7. visualize the content

PDF Generator

1. get content from client or generate automatically with the help of Faker Library
2. Align it properly
3. response back the pdf file

Architecture Diagram

Backend

- **Flask Server**
- **NER Model**
- **BERT Sequential classification Model**
- **PDF Generator**

Frontend

- ReactJS
- Pages
  - Home
  - Processing
  - View
  - Compare
  - Generate

NO DATABASE

Technologies used

Frontend

- Javascript
- ReactJS
- TailwindCSS
- React-Router-DOM

Backend

- Python
- Flask Server

Conclusion

You can process the Business Document quickly and You have got the brief summary about the Contract.

Disclaimer !
This application can only process the provided template formate.