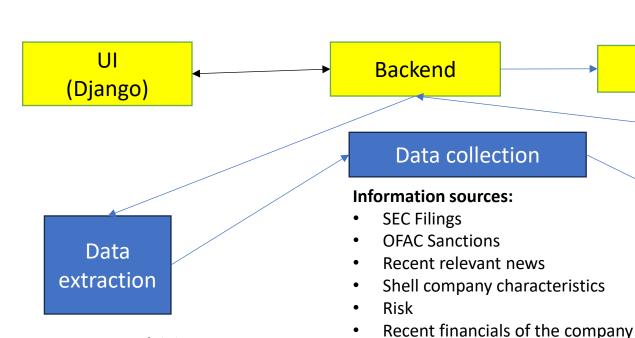
Architecture

Cache



Extracts useful data from the input

Models Used:

Text-classification model (finbert)

Company website patterns

• Summarizer (facebook/bart-large-cnn)

If country of registration is sanctioned

• NER model- spacy en_core_web_sm

Data sources:

- OFAC-treasury.gov/ofac
- News- newsapi.org
- SEC filings- www.sec.gov/files
- Financial data- alpha vantage, finhub
- Static data like tax haven, sanctioned country, generic name/website patterns

Risk calculation

Calculates risk based on report and assigns score

Models Used:

- Risk scoring: ProsusAl/finbert
- Justification: google/flan-t5base

Confidence calculation

Cross evaluates the risk given and justification and assigns a confidence score

Model Used:

ProsusAl/Finbert