frontend/

│

├── public/

│ └── index.html # Root HTML file

│

├── src/

│ ├── components/ # Reusable UI components

│ │ ├── FileUpload.jsx

│ │ ├── OutputDisplay.jsx

│ │ └── LanguageSelector.jsx

│ │

│ ├── pages/ # Full page views

│ │ └── Home.jsx

│ │

│ ├── api/ # API communication with backend

│ │ └── backend.js

│ │

│ ├── utils/ # Helper functions (e.g., format text)

│ │ └── textHelpers.js

│ │

│ ├── styles/ # CSS / Tailwind / Material-UI styles

│ │ └── main.css

│ │

│ ├── App.jsx # Main React App

│ └── index.js # Entry point

│

└── package.json

backend/

│

├── app.py # Main entry for API

│

├── routes/ # API routes

│ └── simplify.py

│

├── services/ # AI/NLP logic

│ ├── gemini\_integration.py

│ └── nlp\_pipeline.py

│

├── utils/ # Helpers (file parsing, translations)

│ ├── pdf\_extractor.py

│ ├── language\_tools.py

│ └── text\_cleaner.py

│

├── models/ # Optional ML or database models

│ └── t5\_model.py

│

├── static/ # Static files (if needed)

│

└── requirements.txt

Data flow

[User enters legal text]

↓

[React sends POST request → Flask API (/api/simplify)]

↓

[Flask → Gemini API → NLP processing → result]

↓

[Flask sends JSON result → React UI]

↓

[React displays simplified & summarized text]