

LAYER 1: USER INTERFACE (FRONTEND)

FILE	<code>app.py</code>
ROLE	Application Controller.
FUNCTION	Orchestrates routing based on user input.
INPUT	Receives user interactions (PDF uploads, Mode selection).
OUTPUT	Renders global footer.

LAYER 2: ACTIVE PROCESSING LOGIC (MODULES)

FILES	<code>screener.py</code> , <code>extractor.py</code>
ROLE	Core logic modules for research screening and data extraction.
FUNCTION	Executes PDF processing, PICO evaluation, and LLM interaction.

LAYER 3: CORE ENGINE (SHARED SERVICES)

FILE	<code>utils.py</code>
SYSTEM FILES	Includes <code>parser.py</code> (Structural) and <code>confidence.py</code> (Reliability).
ROLE	Provides all backend logic and helper functions.
FUNCTION	Provides PDF extraction, LLM Provider Architecture, Data formatting, and system logging.