

BRD Analysis - 2025-08-08

Okay, here's a summary of the key requirements extracted from the provided BRD content, focusing on clarity and actionable information:

- Core Functionality & API Overview:**
 - Purpose:** The IDFC Gen-AI App Store API enables document analysis across various formats (PDF, Excel, Images, Videos) utilizing AI models for tasks like RAG, document classification, and data extraction.
 - API Endpoints:**
 - `/health`: Returns service health metrics.
 - `/file`: The primary endpoint for all document processing requests.
 - Supported Document Types:** PDF, Excel (XLS/XLSX), Images (JPG/PNG/JPEG), Videos (MP4).
 - AI Model & RAG Processes:**
 - Model Flexibility:** Supports several models (gemma3:12b, gemma3:4b, GPT-4.1-mini, simplyfillm, llama3.2 - vision:latest, mistral:latest) allowing users to select the best model based on the task and desired performance.
 - RAG Process:** Employs chunking, relevance identification, and context-based answer generation.
 - Simplyfillm:** A default model running all models to select the best response for critical queries.
 - Request Parameters & Data Handling:**
 - `content`: Required string parameter for the user query or message.
 - `pdf`, `excel`, `image`, `video`: File upload fields indicating the type of document being processed.
 - `model`: Optional string parameter specifying the AI model to use.
 - File Guidelines:** PDF (no size limit), Excel (XLS/XLSX), Images (300 DPI recommended), Videos (MP4, max 5 minutes).
 - Response & Audit Trail:**
 - Response Format:** Structured JSON with:
 - `description`: Text content extracted from the document.
 - `audit_trail`: Detailed timestamped event log including:
 - `timestamp`
 - `request_id`
 - `metrics`: Request counts, error rates, response times.
 - `events`: Detailed log of each action taken (input received, guardrail check, etc.).
 - Guardrail System:** Filters potentially harmful content and generates a 403 error if detected.
 - Error Handling:**
 - `400 No input provided`: Missing `content` parameter.
 - `403 Input flagged by guardrail`: Harmful content detected.
 - `500 Internal server error`: Technical issue - check file format.

Do you want me to delve deeper into a specific aspect of these requirements (e.g., the guardrail system, the RAG process, or the error handling) or perhaps address a particular question you have about the BRD?