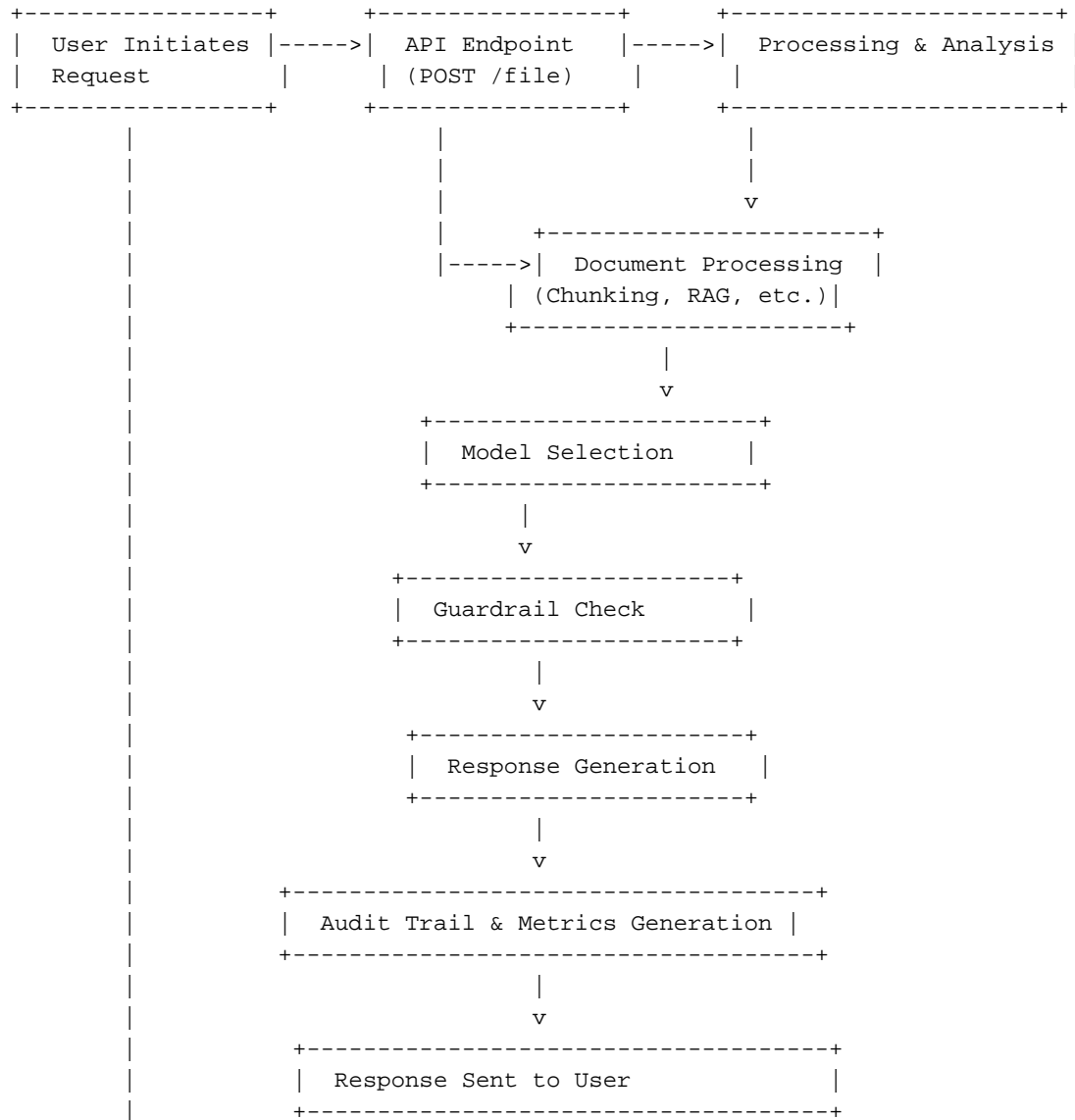# BRD Analysis - 2025-08-08

Okay, here's a flowchart representing the flow of the IDFC Gen-AI App Store API, based on the provided BRD content. I'll use ASCII art and markdown formatting for clarity.

```
+----------------+       +----------------+       +----------------------+
| User Initiates |----->|  API Endpoint   |----->| Processing & Analysis |
| Request        |      | (POST /file)    |      |                      |
+----------------+       +----------------+       +----------------------+
        |                        |                        |
        |                        |                        |
        |                        |                        v
        |                        |      +----------------------+
        |                        |----->|  Document Processing  |
        |                        |      | (Chunking, RAG, etc.)|
        |                        |      +----------------------+
        |                                         |
        |                                         v
        |                        +----------------------+
        |                        |   Model Selection     |
        |                        +----------------------+
        |                                  |
        |                                  v
        |                        +----------------------+
        |                        |   Guardrail Check     |
        |                        +----------------------+
        |                                  |
        |                                  v
        |                        +----------------------+
        |                        |  Response Generation  |
        |                        +----------------------+
        |                                  |
        |                                  v
        |           +-------------------------------------+
        |           |  Audit Trail & Metrics Generation   |
        |           +-------------------------------------+
        |                              |
        |                              v
        |           +-------------------------------------+
        |           |   Response Sent to User             |
        |           +-------------------------------------+
        |
```

Legend: * **Rectangles:** Represent API endpoints or processes. * **Arrows:** Indicate the flow of data and control. **Notes & Explanations:** 1. **User Initiates Request:** The process begins with the user submitting a request to the API. 2. **API Endpoint (POST /file):** The API receives the request. 3. **Document Processing:** This involves several steps: * **Chunking:** Dividing the document into smaller pieces. * **RAG:** Utilizing the RAG process for question answering. * **Other Analysis:** This includes document classification, excel analysis, image analysis and video analysis. 4. **Model Selection:** Selecting the appropriate AI model based on the user's input and the task. 5. **Guardrail Check:** The system checks the input for potentially harmful or inappropriate content. 6. **Response

Generation:** Based on the analysis, the API generates a structured JSON response. This response includes the extracted data, an audit trail, and metrics. 7. **Audit Trail & Metrics Generation:** This part creates a detailed log of the process, including timestamps, request IDs, and performance metrics. **To help me refine this flowchart or create others, could you tell me:** * Are there any specific parts of the process you'd like me to elaborate on or visualize differently? (e.g., the RAG process in more detail?) * Do you want me to add more detail to the guardrail system process? * Would you like me to create a flowchart for a specific use case (e.g., PDF analysis)?