API Documentation: Blood Test Analyser

This document outlines the usage of the /analyze API endpoint for the Blood Test Analyser application.

1. /analyze Endpoint

This endpoint allows users to upload a blood test report in PDF format and submit a natural language query for analysis by the CrewAl agents.

• URL: /analyze

Method: POST

- **Description:** Uploads a PDF blood test report and a text query to trigger an Al-powered analysis of the report. The system uses a local Llama 3 model orchestrated by CrewAl to extract information and provide insights.
- Request Body: multipart/form-data
 - file (Type: file / application/pdf, Required): The PDF file of the blood test report to be analyzed.
 - query (Type: string, Required): A natural language question or request for analysis related to the blood test report (e.g., "Summarise my Blood Test Report", "What are the abnormal values?", "Provide dietary recommendations").
- **Example curl Request:** (Run this from your project's root directory, e.g., blood-test-analyser-debug).

```
Curl.exe -X POST "http://127.0.0.1:8000/analyze" \
-H "accept: application/json" \
-H "Content-Type: multipart/form-data" \
-F "file=@data/blood_test_report.pdf;type=application/pdf" \
-F "query=Summarise my Blood Test Report"
```

Response Structure (JSON):

• Example Successful Response:

• Error Responses (Examples):

```
{
    "detail": [
        {
            "type": "missing",
            "loc": ["body", "file"],
            "msg": "Field required",
            "input": null,
            "url": "https://errors.pydantic.dev/2.5/v/missing"
        }
    }
}
```

Other HTTP errors: May occur if the server is not running or an internal server error occurs (e.g., 500 Internal Server Error).