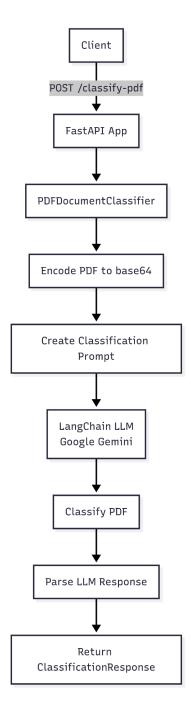
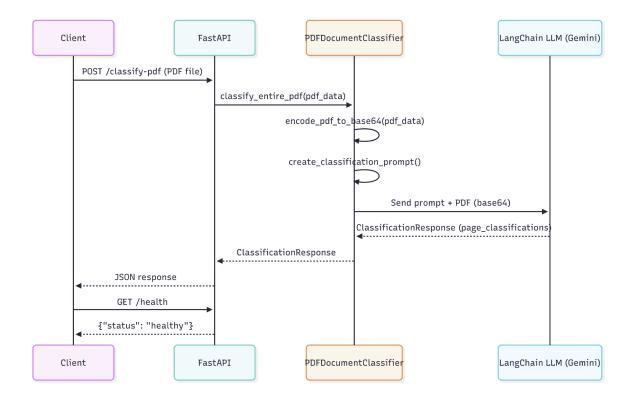
# **PDF Document Classifier API**

# **Architecture Diagram**



# **Request Flow Diagram**



## **Base URL**

http://localhost:8000

# **Endpoints**

### **Health Check**

#### **GET /health**

Returns the health status of the API service.

Parameters: None

### **Example Request:**

curl -X GET http://localhost:8000/health

```
Example Response: {
    "status": "healthy"
```

#### **Status Codes:**

• 200 OK - Service is healthy

#### **Document Classification**

#### POST /classify-pdf

Content-Type: multipart/form-data

#### Parameters:

Parameter	Туре	Required	Description
file	File	Yes	PDF file to classify
			(multipart/form-data)

```
Example Request:
curl -X POST http://localhost:8000/classify-pdf \
 -F "file=@/path/to/document.pdf"
Example Response:
 "page classifications": [
   "page": 1,
   "document type": "Aadhaar Card",
   "confidence": 0.95,
   "reasoning": "Page contains Aadhaar card layout with UIDAI logo, 12-digit Aadhaar number
format, and standard government ID design elements."
  },
   "page": 2,
   "document type": "PAN Card",
   "confidence": 0.92,
   "reasoning": "Page shows PAN card format with Income Tax Department logo,
10-character PAN number pattern, and official government card layout."
  },
   "page": 3,
   "document type": "Bank Statement",
   "confidence": 0.88,
   "reasoning": "Page contains bank statement format with account details, transaction
history, and bank letterhead with official branding."
]
}
```

#### **Status Codes:**

- 200 OK Classification completed successfully
- 400 Bad Request Invalid file type (non-PDF file)
- 422 Unprocessable Entity Missing required parameters
- 500 Internal Server Error Server-side processing errors

## **Error Responses**

## **Invalid File Type**

#### **Example Request:**

```
curl -X POST http://localhost:8000/classify-pdf \
  -F "file=@/path/to/document.txt"

Response:
{
```

Status Code: 400 Bad Request

"detail": "File must be a PDF"

## **Missing File Parameter**

#### **Example Request:**

curl -X POST http://localhost:8000/classify-pdf

## Response:

```
{
  "detail": [
    {
      "type": "missing",
      "loc": ["body", "file"],
      "msg": "Field required",
      "input": null
    }
  ]
}
```

Status Code: 422 Unprocessable Entity

## **Processing Error**

```
Response:
{
    "detail": "Error processing PDF: [specific error message]"
}
```

Status Code: 500 Internal Server Error

## **Response Schema**

## **Successful Classification Response**

## **Health Response**

```
{
    "status": "string" // Healthy status of the service
}
```

## **Error Response**

```
{
    "detail": "string" // Error message
}
```

## Validation Error Response