■ API Documentation - YouTube Transcriber Project

This document provides the API documentation for the YouTube Transcriber project. It includes endpoints for video ingestion, transcription, search, and Q&A.; The system uses Whisper for transcription, Hugging Face MiniLM-L6-v2 for embeddings, FAISS for vector storage, and Cohere/Gemma models for Q&A.;

Endpoint	Method	Description	Request Body	Response

/api/ingest_video	POST	Ingest video via URL or local file	`{`
			`  "video_url": "https://youtube.com/...",`
			`  "video_file": "/path/to/video.mp4"`
			`}`
				`{`
				`  "video_id": "uuid-1234"`
				`}`

/api/search_timestamps	POST	Search transcript for query and return timestamps	`{`
			`  "video_id": "uuid-1234",`
			`  "query": "machine learning",`
			`  "k": 3`
			`}`
				`{`
				`  "query": "machine learning",`
				`  "results": [`
				`    {`
				`      "video_id": "uuid-1234",`
				`      "video_url": "https://youtube...",`
				`      "start_time": "1.20m",`
				`      "end_time": "1.45m",`
				`      "title": "Segment 3",`
				`      "snippet": "Text snippet",`
				`      "score": 1.0`
				`    }`
				`  ]`
				`}`

■ Postman Collection: A Postman collection can be created with the above endpoints. 1. Import a new collection in Postman. 2. Add base URL: http://127.0.0.1:5000 3. Endpoints: - POST /api/ingest_video - POST /api/search_timestamps 4. Provide sample request bodies as per the documentation above. Save the collection as `YouTube-Transcriber.postman_collection.json`.