YouTube Video Transcription and Q&A System

System Architecture Overview

Audio Downloader

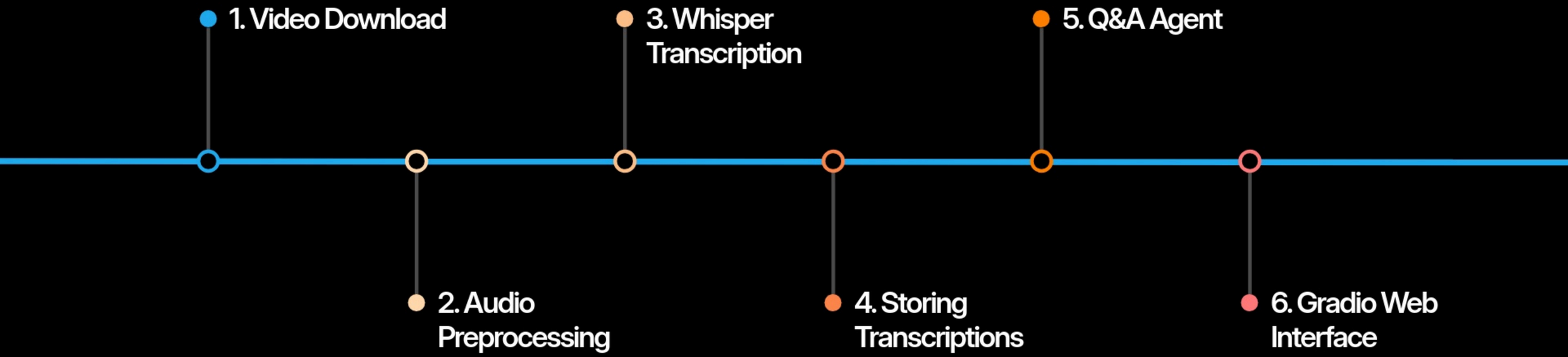
Whisper Transcriber

QA Agent

Gradio Web Interface

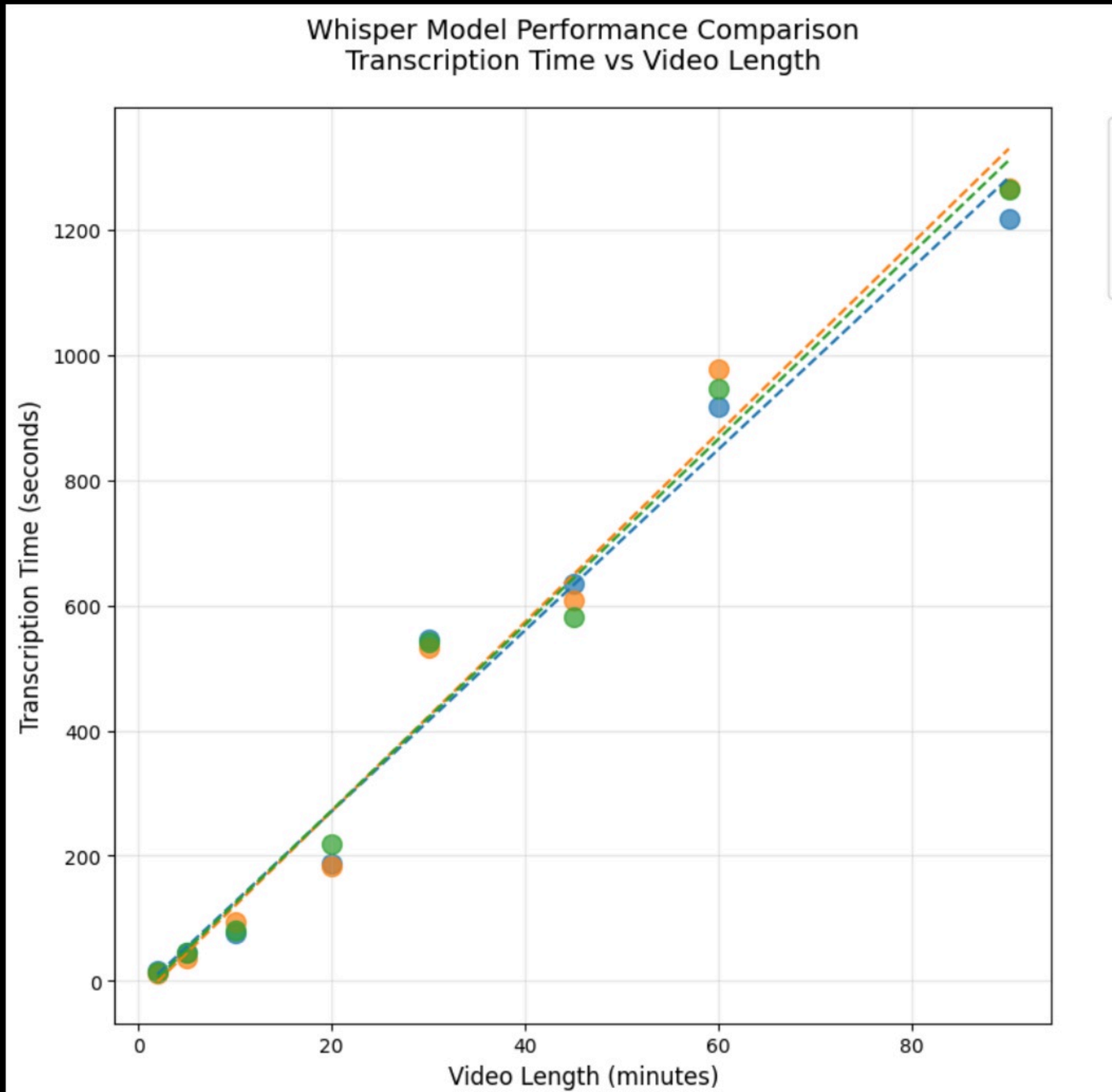
The system architecture is composed of these key components, working together to provide an efficient and comprehensive solution for YouTube video transcription and interactive Q&A.

System Flow Diagram



Performance Evaluation: Whisper Model Comparison

Transcription Time (Seconds)



Future Improvements & Live demo

Add cloud support

Enhance Q&A accuracy

Improve user interface

The system meets the project requirements and is a cost-effective solution, with room for future improvements to enhance its capabilities.