
AWS
re:Invent

AIM303

Using AI to automate clinical workflows

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AWS re:Invent

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Agenda

Motivation

Medical Transcription Analysis

MTA demo

Document Understanding Solution

DUS demo

Resources



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Motivation

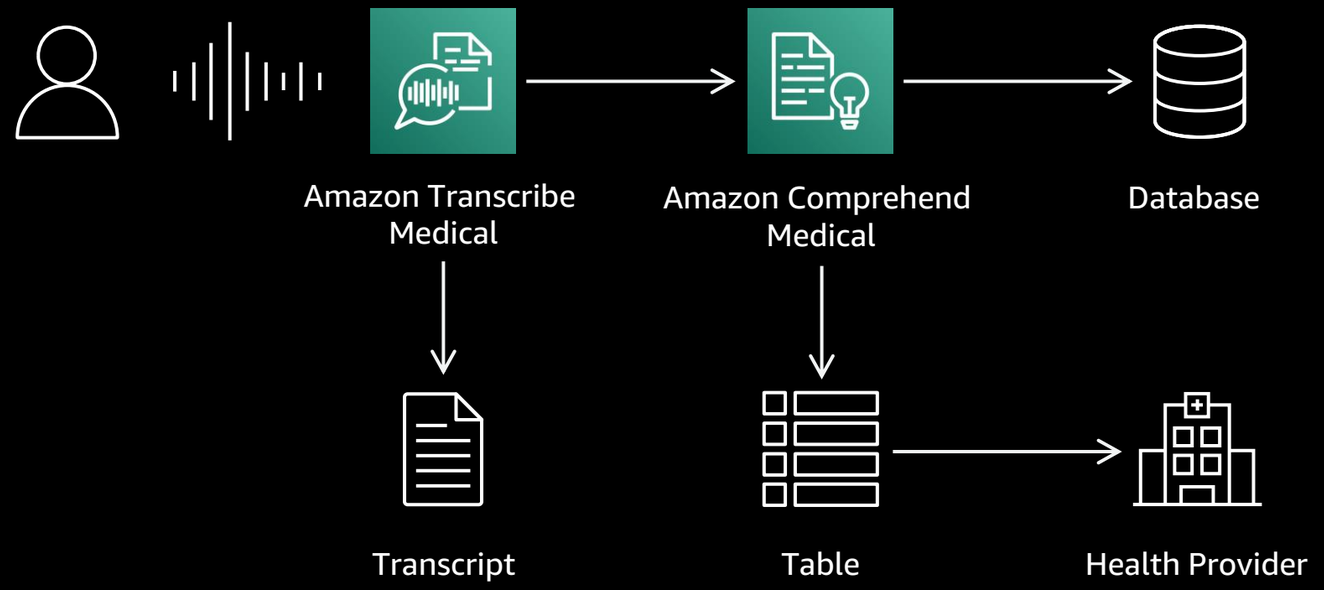
Unstructured data

- Audio recordings, laboratory reports (PDF), insurance claims (forms), documents (image files)
- Using the data is time- and energy-intensive

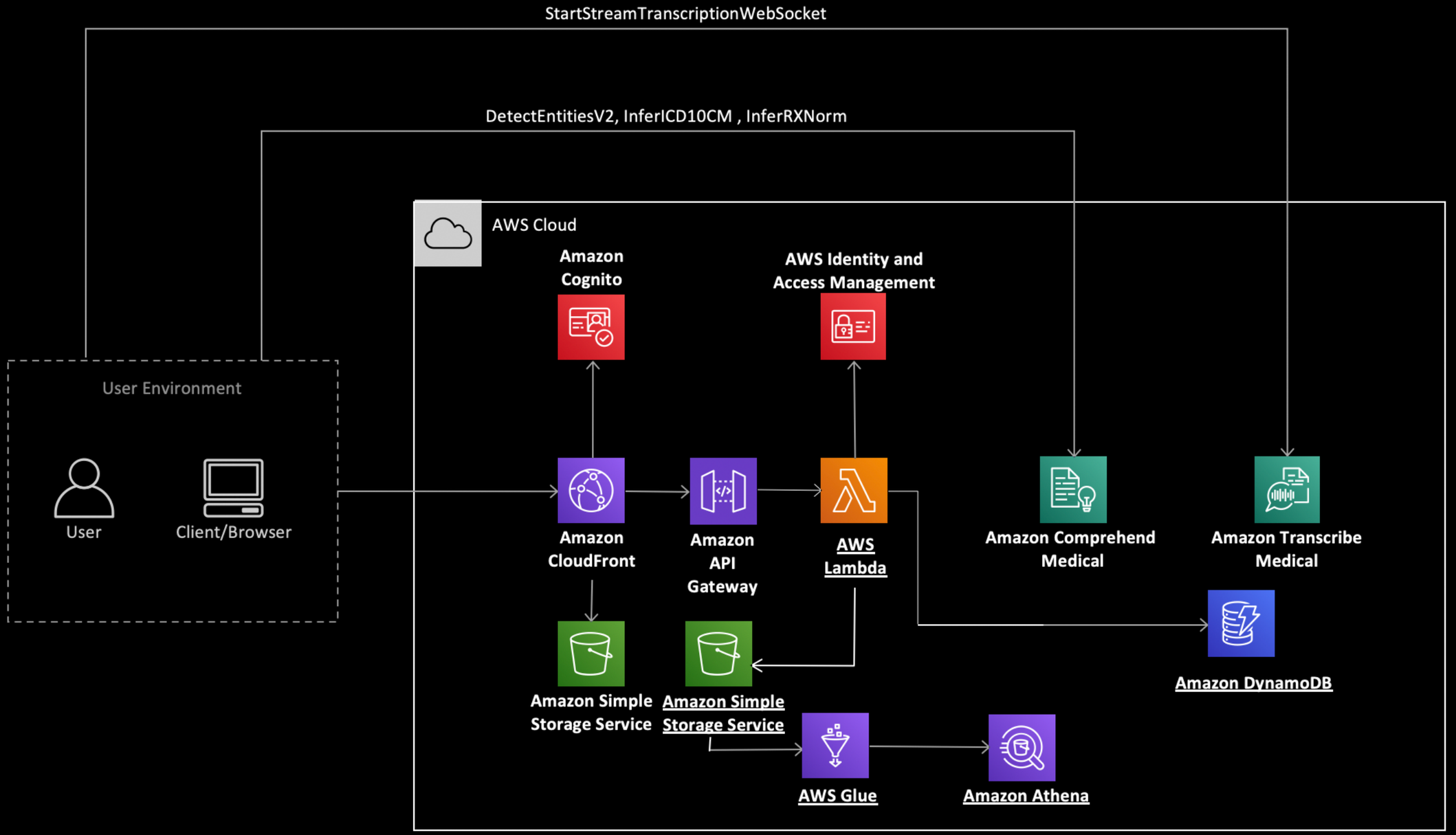
How can we automatically extract this data so that it may be stored in a database or connected to an interface for use by downstream applications?

Medical Transcription Analysis

- Transcribe audio into text in real time using Amazon Transcribe Medical
- Analyze medical text and extract relevant concepts using Amazon Comprehend Medical
- Connect data to downstream applications



Medical Transcription Analysis

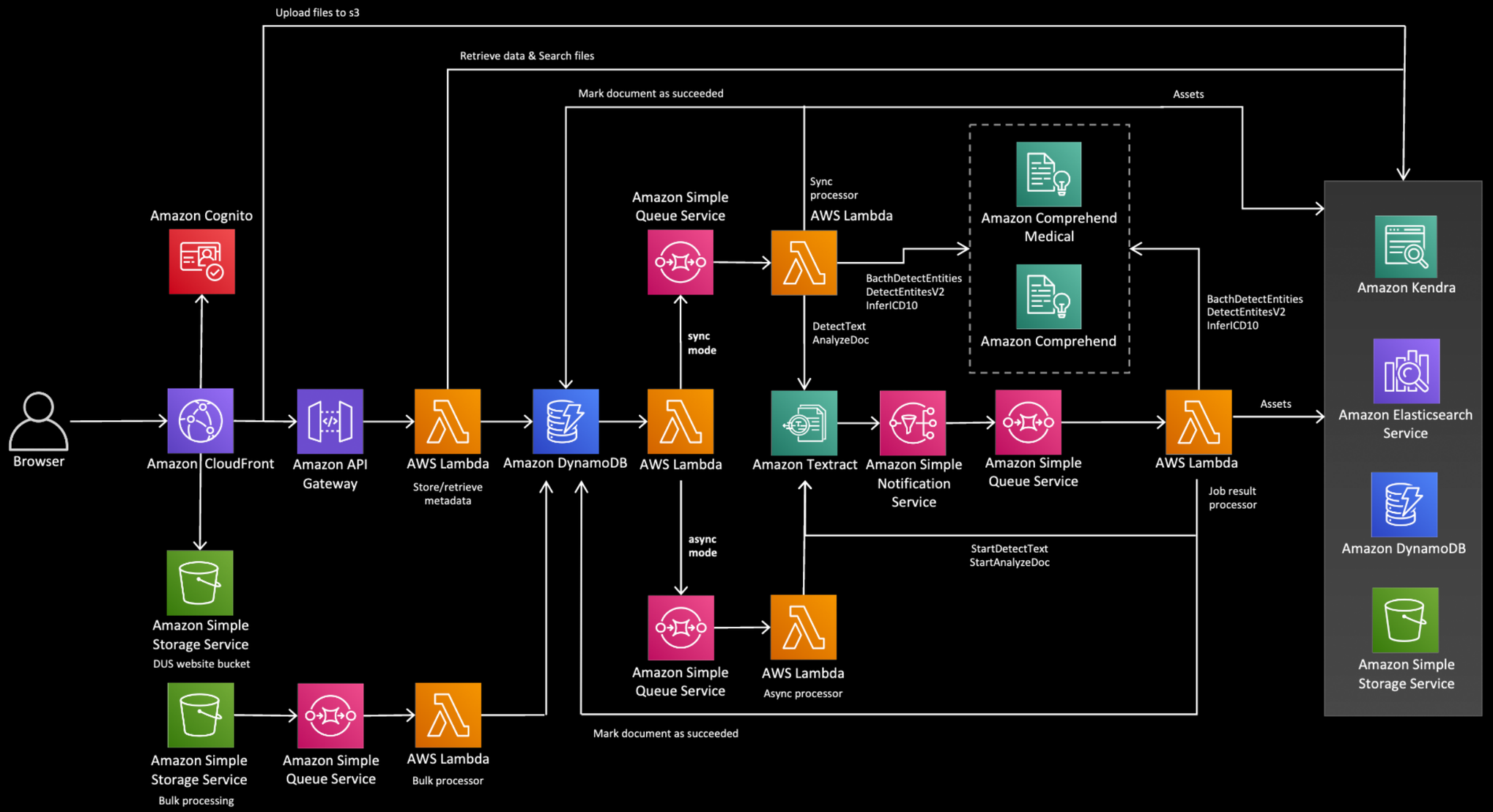


Document Understanding Solution

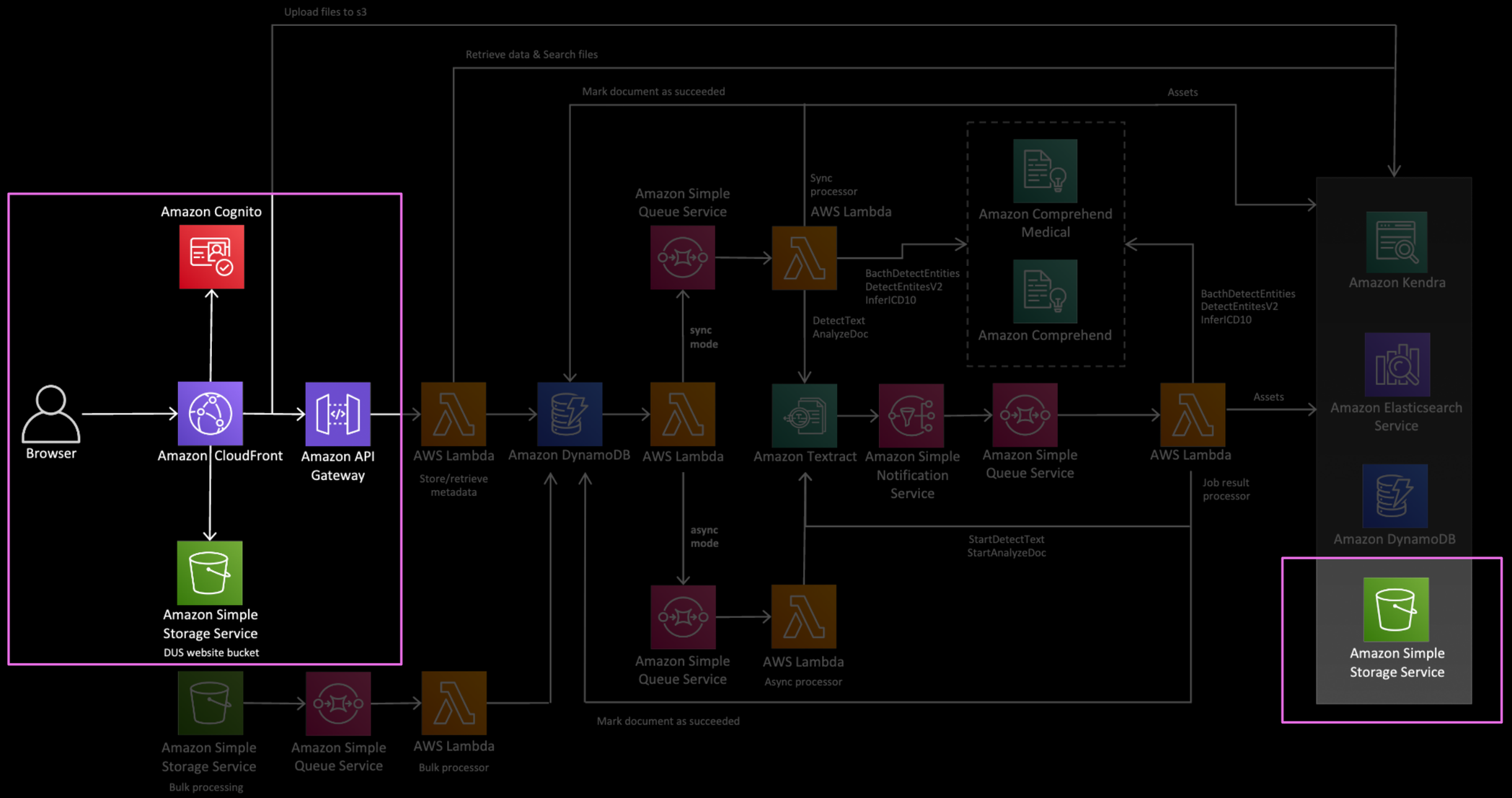
- Search through a massive corpus of documents, aggregate data under a single index
- Redact sensitive information
- Automate the transfer of extracted text, redacted documents, forms, and tables



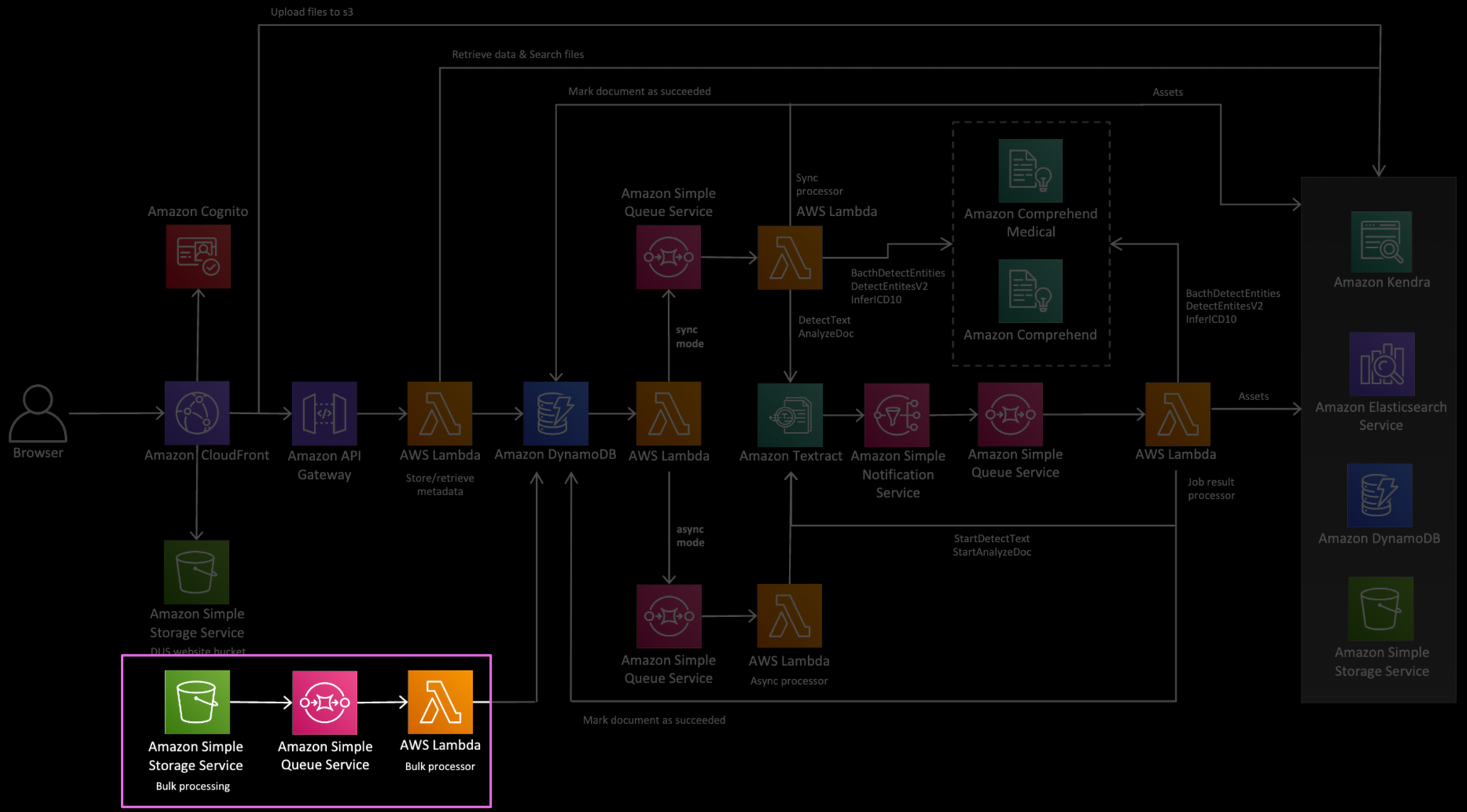
Document Understanding Solution



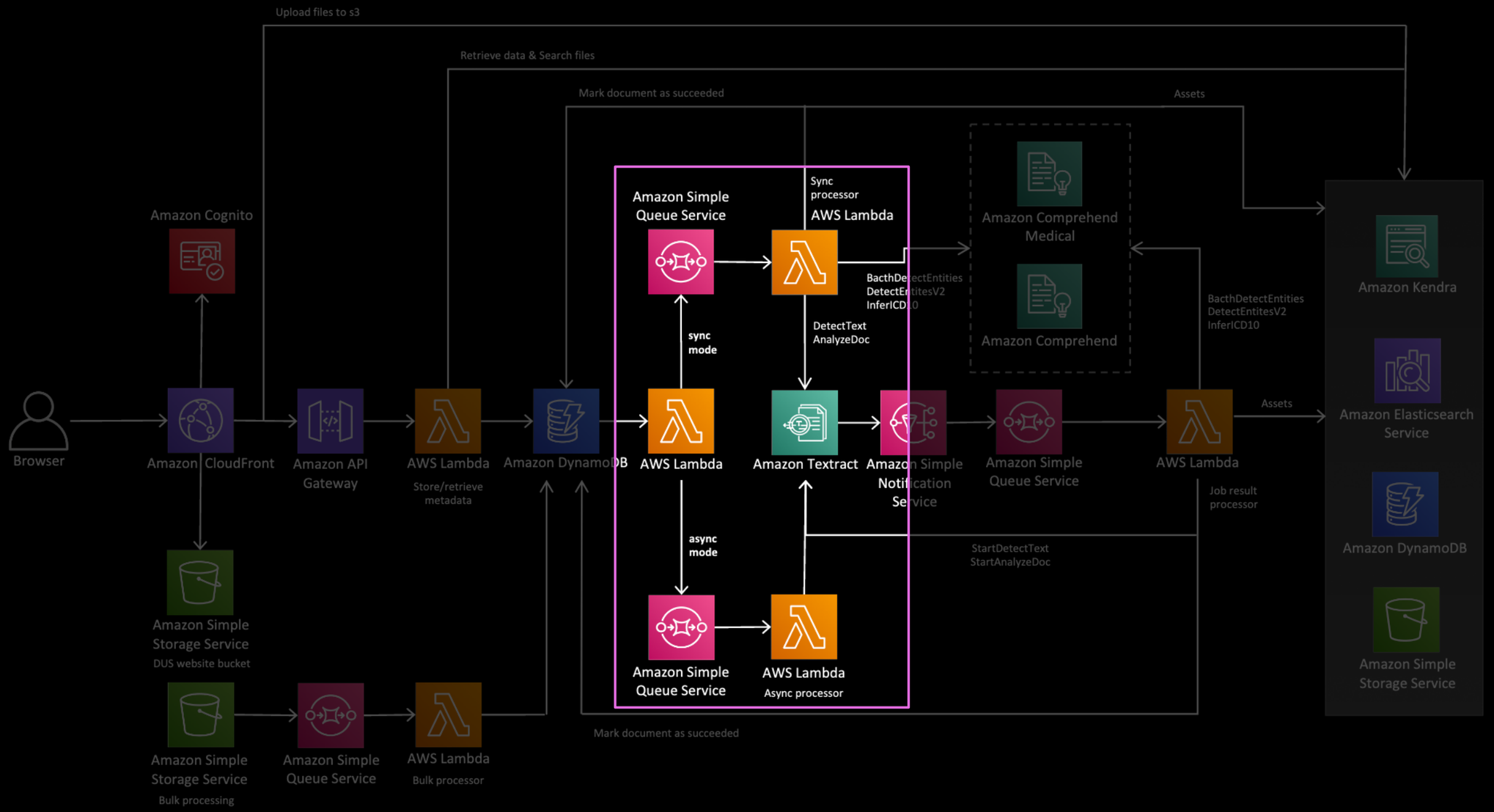
Document Understanding Solution



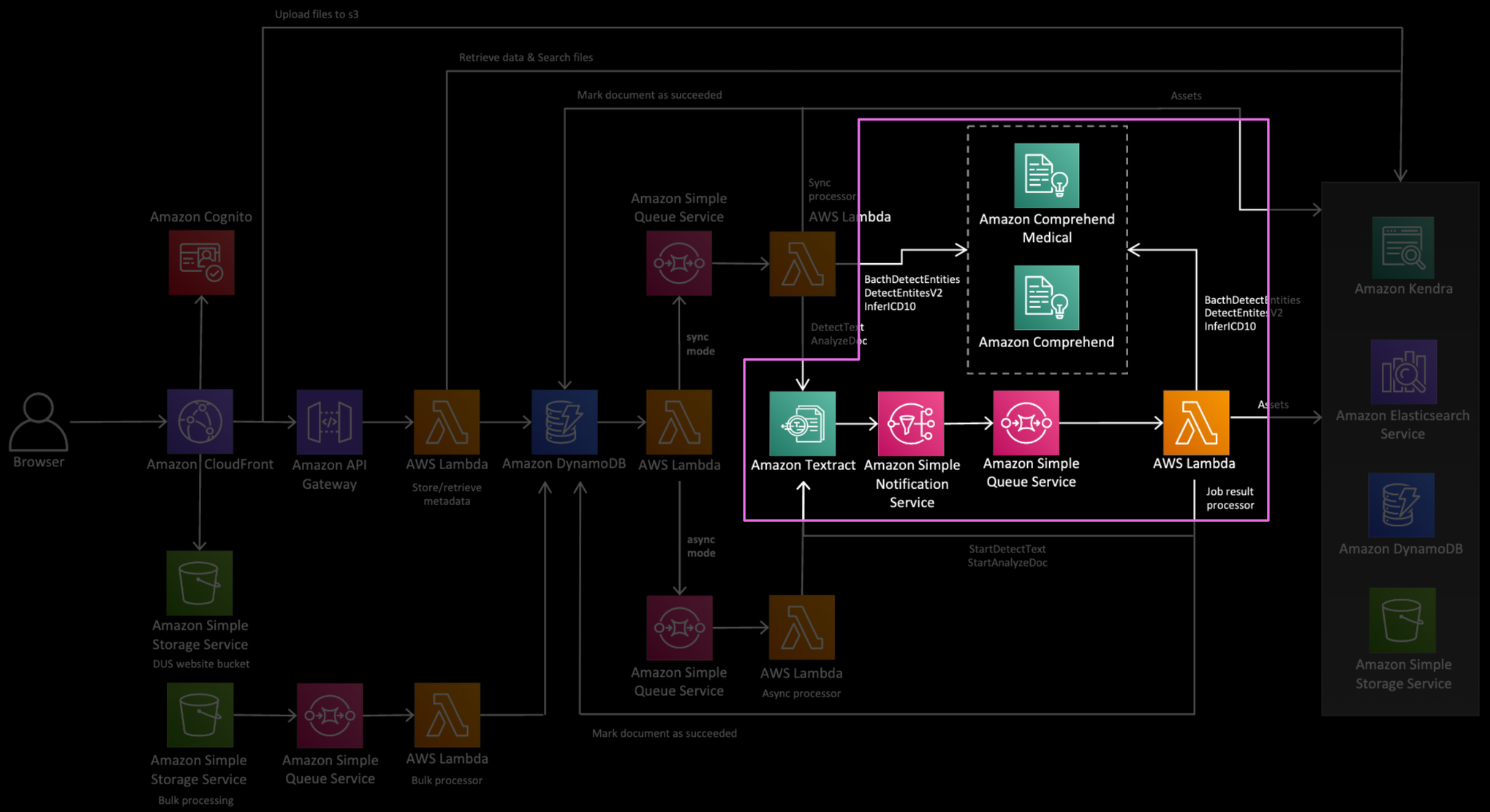
Document Understanding Solution



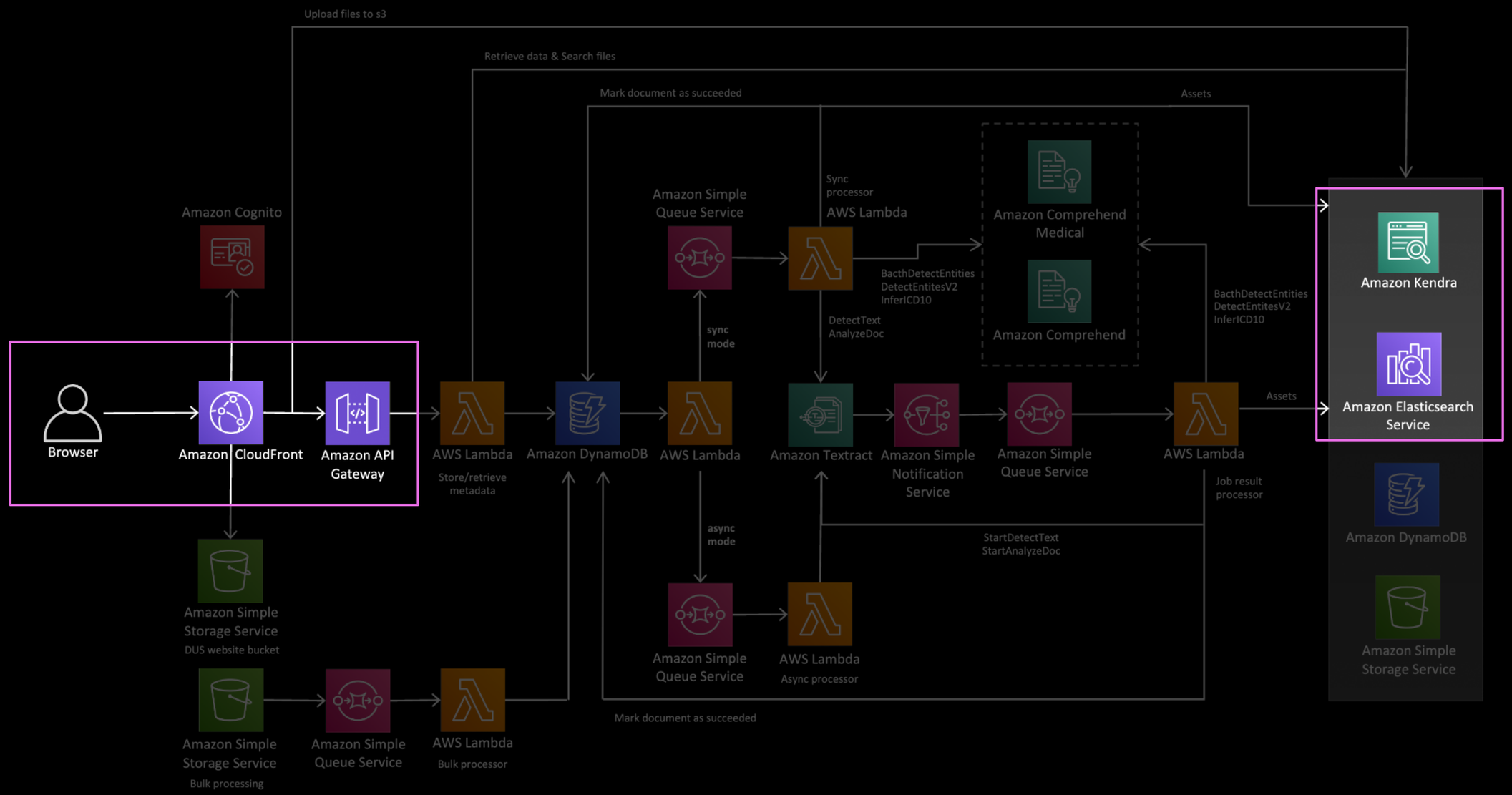
Document Understanding Solution



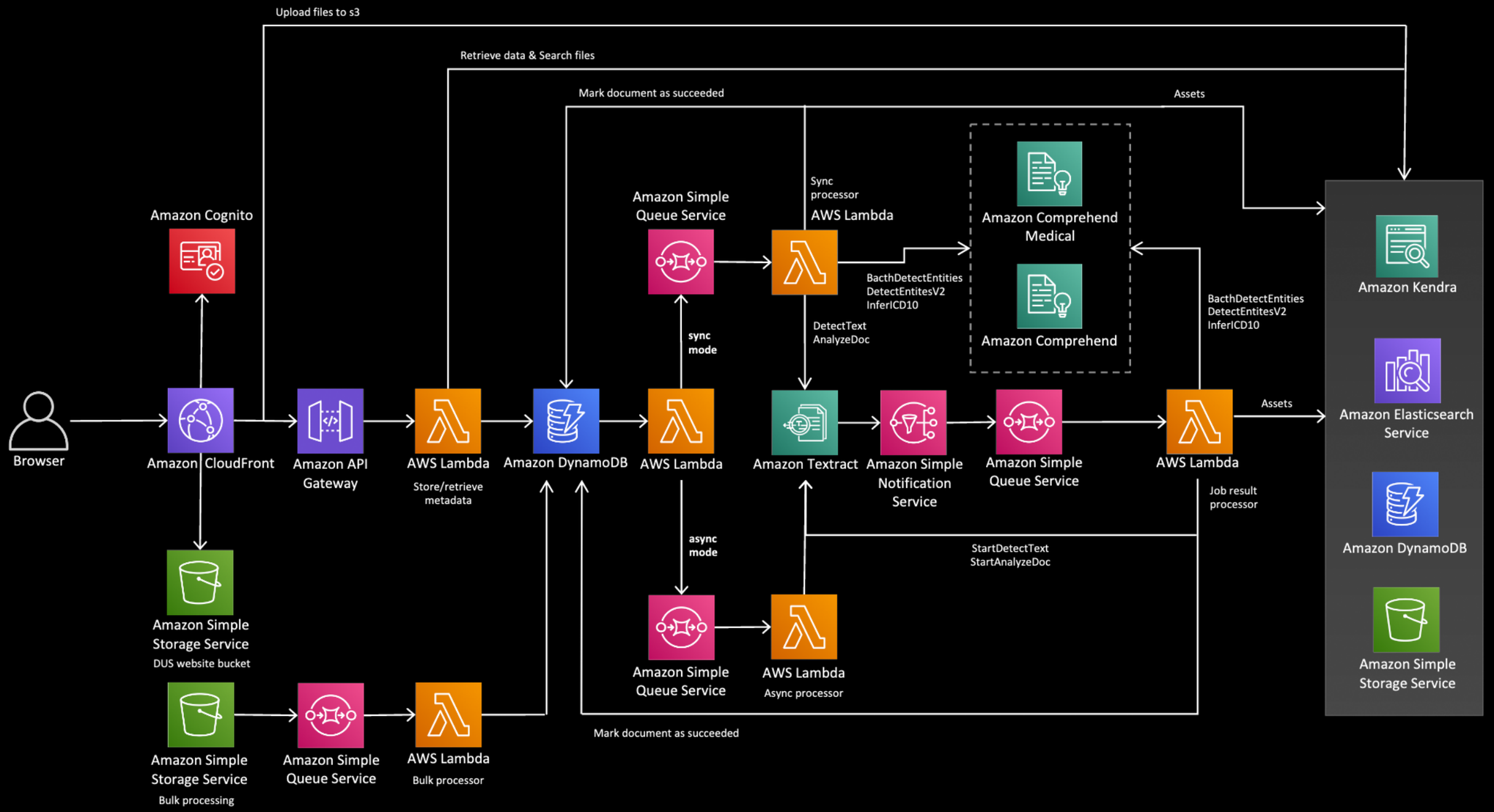
Document Understanding Solution



Document Understanding Solution



Document Understanding Solution



Resources to help you get started

Document Understanding Solution

github.com/awslabs/document-understanding-solution

aws.amazon.com/blogs/machine-learning/deploying-and-using-the-document-understanding-solution/

aws.amazon.com/solutions/implementations/document-understanding-solution/

Medical Transcription Analysis

github.com/aws-samples/medical-transcription-analysis

aws.amazon.com/blogs/machine-learning/performing-medical-transcription-analysis-with-amazon-transcribe-medical-and-amazon-comprehend-medical/

Thank you!



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