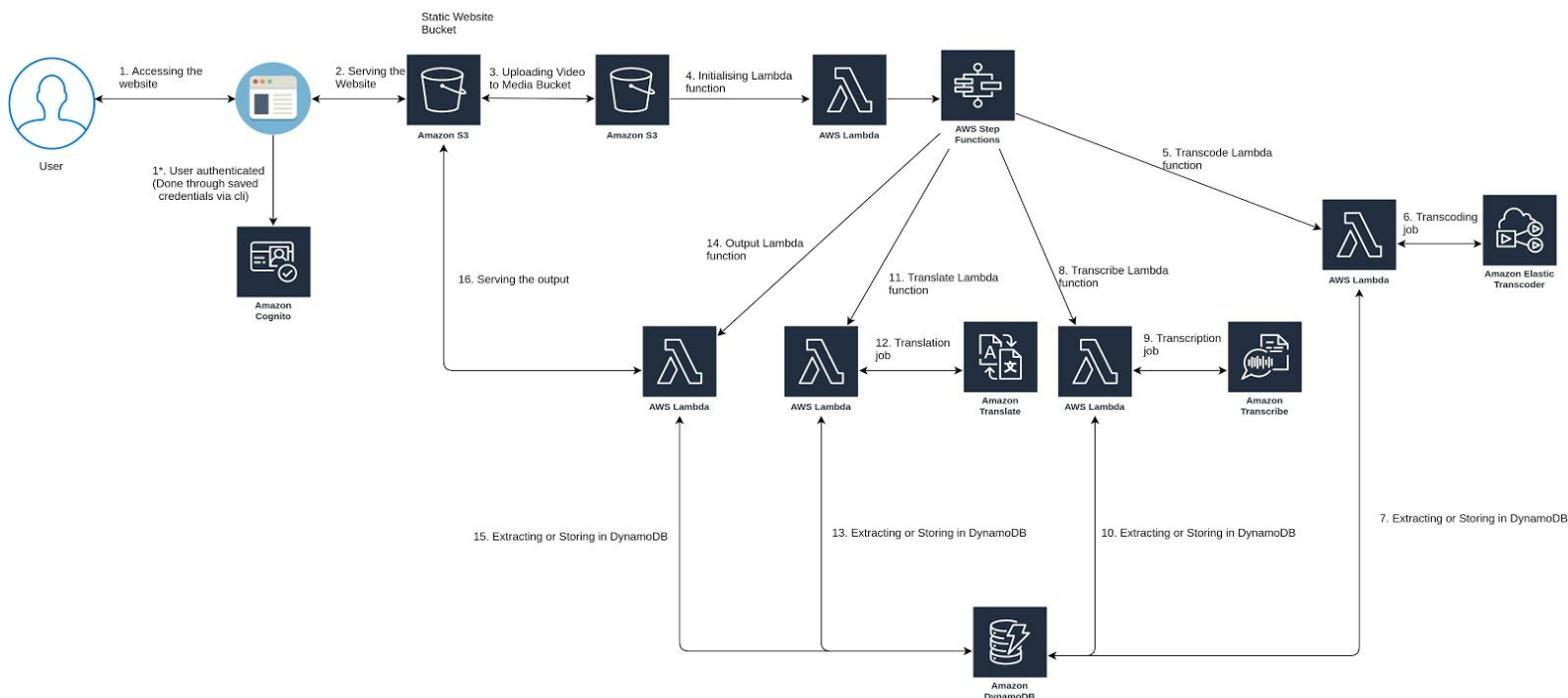# Multilingual Subtitle Generator

Using AWS AI Services like Amazon Transcribe and Amazon Translate along with AWS elastic transcoder, Multilingual Subtitle Generation aims to provide subtitles to video files in multiple languages. As of now, the prototype is being provided as a Software as a Service but it can also be converted to Platform as a Service for multiple companies and industries like the Entertainment industry or the education companies like Byjus who's videos can be translated in multiple languages using this service.

Even though services like YouTube exist, they are only able to provide translation in a few languages and also many of the course videos or TV series are not available on YouTube and hence can't be auto translated. Using the power of Amazon AI services, this can be done very efficiently and a cheaper way and within less amount of time.

Flow Diagram

AWS Services Used

1. S3
2. Cognito
3. Lambda
4. Step Function
5. Amazon Translate
6. Amazon Transcribe
7. DynamoDB
8. Amazon Elastic Transcoder

Use Cases

1. Translating online educational videos
2. Translating News Channels
3. Translating Recipe Channels
4. Translating Lifestyle Channel

What's in the future?

These are videos which require very less emotional factor as compared to other daily soaps so can be translated very easily. Making custom models to handle idioms can also be done to further its usage and make it better. In this way we can prevent it to translate word by word and instead go for the actual definition of the idiom. We also intend to make it for live stream videos with very low latency using AWS Elemental Media Live service.