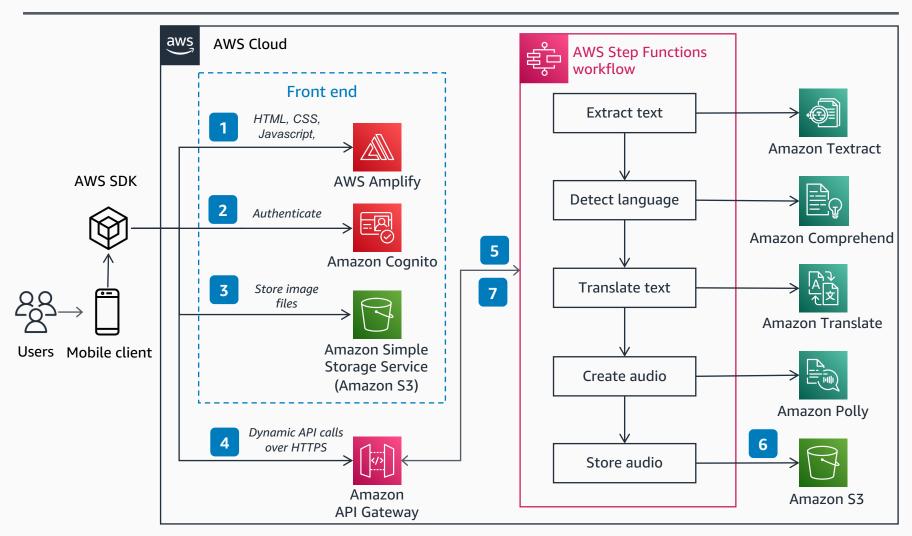
## ReadForMe

The ReadForMe web app utilizes the AWS Cloud to enable the visually-impaired to hear paper documents using an event-driven serverless architecture using AI services.



- AWS Amplify distributes the ReadForMe web app, consisting of HTML, JavaScript, and CSS, to end users' mobile devices.
- The **Amazon Cognito** identity pool grants temporary access to the **Amazon S3** bucket.
- The user uploads an image file to the Amazon S3 bucket using AWS SDK through the web app.
- The ReadForMe web app invokes the backend AI services by sending the Amazon S3 object key in the payload to Amazon API Gateway.
- API Gateway instantiates an AWS Step
  Functions workflow. The state machine
  orchestrates the Artificial Intelligence
  /Machine Learning (AI/ML) services Amazon
  Textract, Amazon Comprehend,
  Amazon Translate, and Amazon Polly,
  using AWS Lambda functions.
- The AWS Step Functions workflow creates an audio file as output and stores it in Amazon S3 in MP3 format.
- A pre-signed URL with the location of the audio file stored in **Amazon S3** is sent back to the user's browser through **API Gateway**. The user's mobile device plays the audio file using the pre-signed URL.