

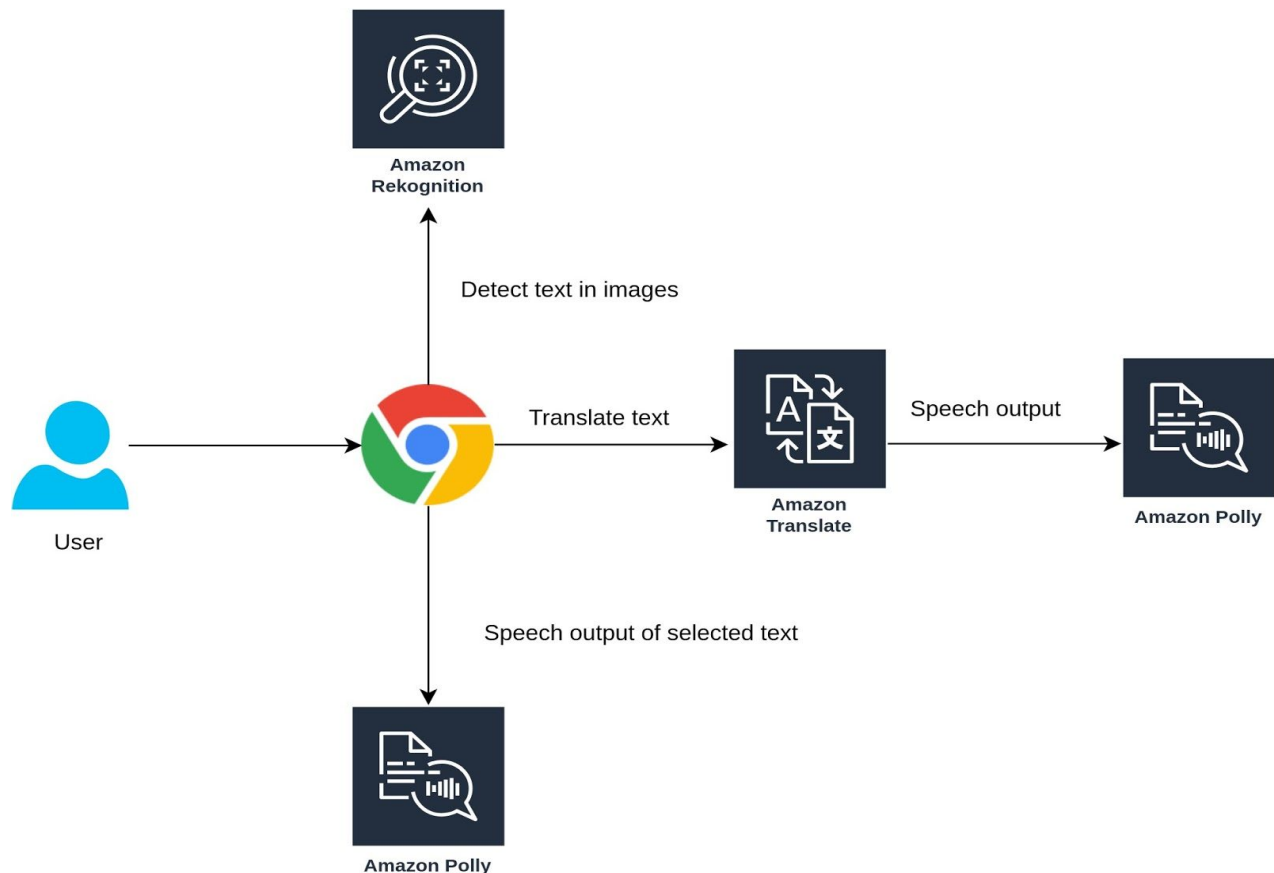
# Feel

## Don't let language be a barrier in your learning

Feel is a chrome extension that enables user to go through a website or an ebook using audio as the source of communication. It helps you do multiple tasks at the same time. It is lightweight and easy to use. Just select the text or image and learn about it or understand it in your own language.

Feel consists of a drag-able popup which is automatically filled with the selected text and is used in translation and recognition. As of now, the user has to input its own Access Keys and Secret Keys as it is in development mode. In production mode, these will be removed and replaced with a welcome sign.

## Flow Diagram



## **Use Cases**

1. People learning new languages.
2. Reading books (Multitasking).
3. Translating books for people whose first language isn't the one in which the book is.
4. News articles on the go in your own language.
5. Recipes in your own language.
6. Extracting text from images.

## **How to run**

1. Open Google Chrome and visit the extensions page with Developer mode enabled.
2. Click on Load Unpacked and select the src folder.
3. Enter AWS Access Key ID and Secret Access Key and Region (tested for us-east-1). This has been done to prevent unknown usage. In production mode it shall be replaced with ready to go popup.
4. Click Save.
5. Now select any text and translate it or use polly to dictate it or rekognition to extract text from images.

## **AI Services Used**

1. Amazon Polly
2. Amazon Translate
3. Amazon Rekognition

## **Problems Faced**

While integrating multiple APIs, there were many errors and thanks to the proper AWS documentation we were able to overcome this. Also as of now image can be extracted from just **img** tags of the website which can be further expanded in the future.

## **What's for it in the future?**

We will be trying to provide it as a Platform as a Service (PaaS) as well as Software as a Service (SaaS) so that users can just use the API (using API Gateway) and translate texts as well as it can be provided to corporations for usage like translating books and images for people whose primary language isn't english.