**PE01: Programming Exercise**

We build the universal translator application using AWS services in this programming exercise.

* First, we created the necessary folders to set up the project structure. Capabilities will hold the back end, and the Website folder will have the front end.

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* Next, we implement different services, including a transcription service for transforming speech into text, a translation service to translate the text into a target language, a speech service to transform text into speech, and storage services to upload the audio.

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* Next, we implemented three restful APIs to upload the audio, translate the text, and synthesize the text as audio.

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* In the next step, we created the web page and the JavaScript file to call the backend restful APIs.

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* Finally, we set the dev policy changes, and using AWS Chalice, we deployed the application to the internet.

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* Here is the result of testing some audios in English translated into German and Spanish.

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