**PE01: Programming Exercise**

We build the pictorial 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.

A screen shot of a computer

Description automatically generated

* Next, we implement different services, including a recognition service for text detection with Amazon ReKognition, a translation service to translate text, and storage services to upload images.

A screen shot of a computer program

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Description automatically generatedA screenshot of a computer program

Description automatically generated

* Next, we implemented two restful APIs to upload the images and translate the image text.

A screen shot of a computer

Description automatically generated

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

A screenshot of a computer program

Description automatically generated

* Finally, using AWS Chalice, we deployed the application to the internet.

A screen shot of a computer screen

Description automatically generated

* Here is the result of testing some images of signs in German and French.

A blue sign with white text

Description automatically generatedA screenshot of a computer screen

Description automatically generatedA yellow sign with black text

Description automatically generatedA screenshot of a computer

Description automatically generatedA red and white sign

Description automatically generated