**PE02: Programming Exercise**

**Instruction**

**Pictorial Translator Application**

Closely follow the textbook chapter 3 and Lecture 02.pptx to implement Pictorial Translator application:

* PE02-1
  + Setting up the project structure
    - Follow textbook page96 step 1 to 6
* PE02-2 Implement services
  + 2.1 Recognition service – text detection
  + 2.2 Translation service – translating text
  + 2.3 Storage service – uploading files
* PE02-3 Implement RESTful endpoints
  + 3.1 Translate the image text endpoint
  + 3.2 Upload the image endpoint
* PE02-4 Implement the web user interface
  + Index.html + scripts.js
* PE02-5 Deploy Pictorial Translator to AWS

**Your task for PE02 is to:**

1. Complete above task
2. Please randomly try a couple of pictures in your computer to see how it works

**Please make sure you remove all the running resources after finishing the task.**

**HINT**:

* Try to complete this PE as much as you can as this is the fundamental for the following course PEs
* Feel free to follow the textbook’s GitHub codes if needed: <https://github.com/PacktPublishing/Hands-On-Artificial-Intelligence-on-Amazon-Web-Services/tree/master/Chapter03>
* Make sure completing task 2 to receive full credits

**Submit the items below to the PE submission page:**

1. Please provide screenshots after completing task1 PE02-1, PE02-2, PE02-3, PE02-4, and PE02-5.
2. Please complete task2, and screenshots of the results, and around 100 words of overall feelings completing this whole PE.
   * Make sure the PE module number and your name are written on the file name, e.g., "*PE02\_Name.docx").*