OCR Sample Project

Summary  
  
We want to build a basic single-page web app that will allow us to upload a photo from desktop of a vehicle licence/number plate, select a state from a dropdown and have it return basic details about the vehicle it is associated with by making a call to a vehicle registration database API.   
  
This will be for internal use only. The app only needs to be very basic and we’re not too concerned about the design/ UX and desktop only is fine.   
  
There are two main parts of this web app:  
  
1. Use optical character recognition to ‘read’ an uploaded vehicle license plate image and return the text/number value using Google Cloud Vision.  
  
2. This text/number value would then be used (with the ‘state’ input) to make an API call on a vehicle registration database which should return details on the vehicle associated with this registration/licence number.  
  
  
Details  
  
  
Part 1  
  
This article provides details on using Google Cloud Platform OCR: <https://medium.com/analytics-vidhya/number-plate-recognition-system-using-google-cloud-vision-api-3a9847f046a5>  
  
An account for Google Cloud will be set up and credentials provided.   
  
  
Part 2  
  
Once the licence plate images have been ‘read’ and converted to an output of a string of characters, the string of characters should then be used as an input (with the ‘state’ selection) to make a call to a vehicle registration database APIs (details to be provided)  
  
  
The APIs should return a response (ideally, correct details about these vehicles or a valid error response). These results should be shown separately in the web app.   
  
Here is an example of a website that performs a similar function (without the photo upload feature and over 2 pages): <https://checkrego.com.au/>    
  
  
There will be two seperate vehicle registration database APIs that we’ll need to ‘test’ by making calls to them using the string of characters generated in part 1.   
  
Details and credentials for the vehicle registration APIs will be provided.