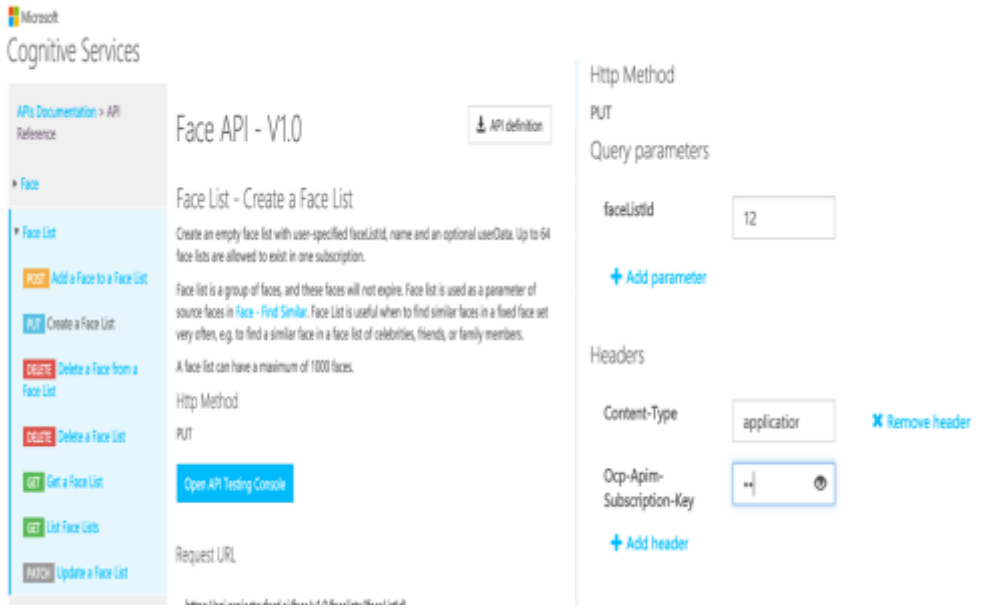
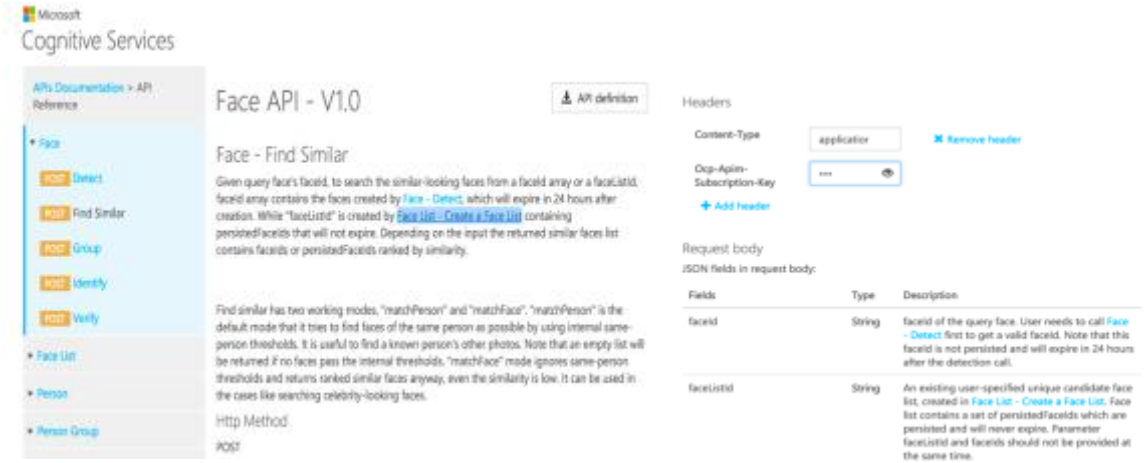
## Technology Demonstrations

### (a) **Microsoft Cognitive Services Face API (REST Service)**




(To create People Face Database)

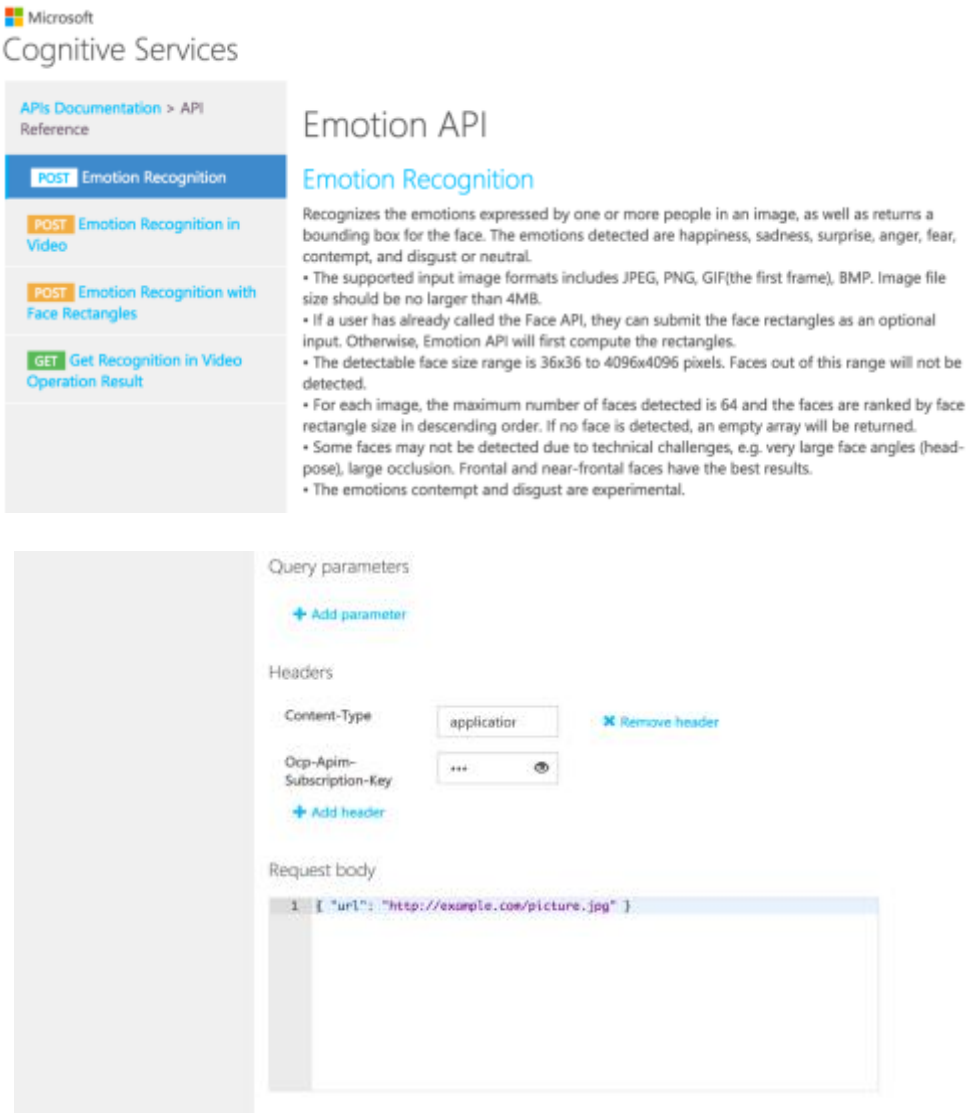



(API for Face Detection and find Similar Face from People Group)

We tested the API online and received correct results as per our project need.

### (b) **Microsoft Cognitive Services Emotion API (REST Service)**

This API is used to recognize the emotion of a face by passing the Base64 string of the image as input parameter and the results is the degree likelihood of possible emotions for that face.




(API for Emotion Detection)

(c) **Tessel Camera Module (JavaScript Library)**

NPM Module: **npm install camera-vc0706**

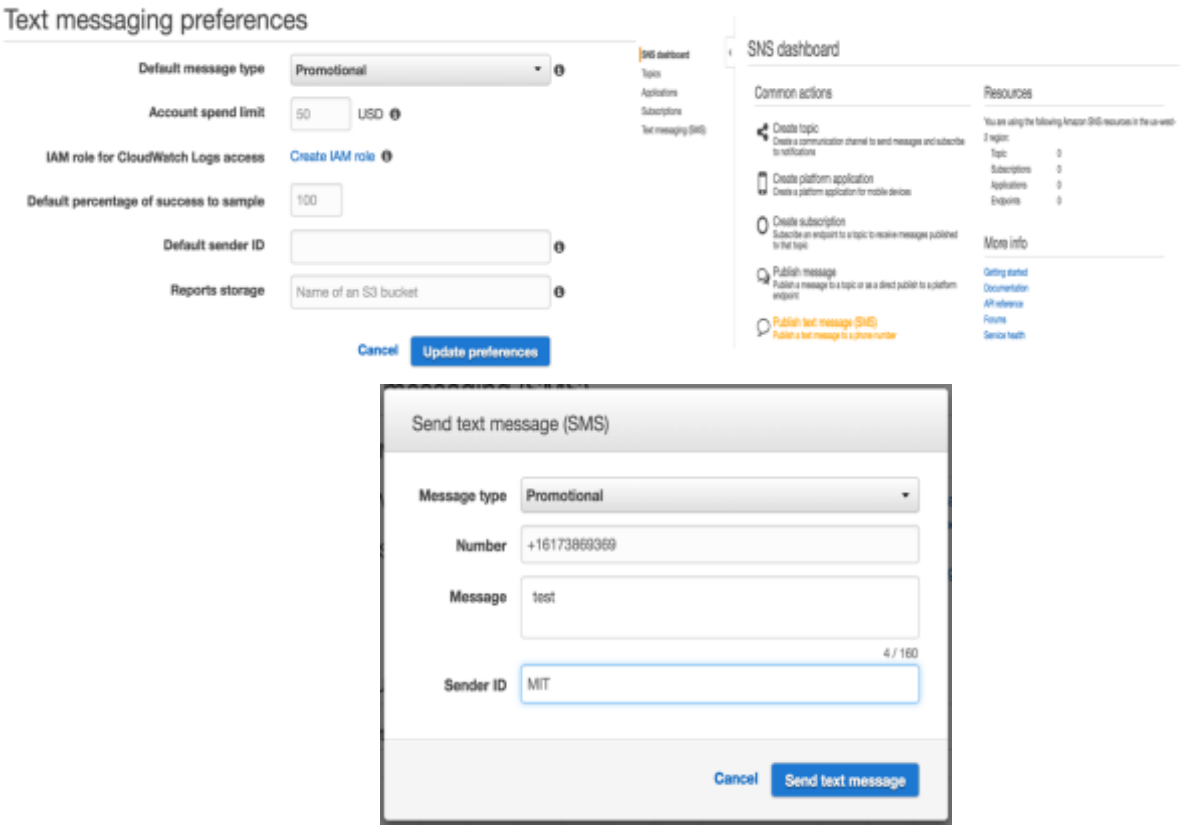
Reference: http://start.tessel.io/modules/camera

We have tested this module on our tessel hardware and were able to communicate with this device after installing this device and calling the module in JavaScript file.

(d) **Web App (Dashboard View) – Python/JavaScript/HTML**

Using JavaScript or Python, develop a website (hosted webpage to display our results as well as trigger some user actions – using HTML and JavaScript controls).

(e) **Sending SMS (Amazon SNS)**




(f) **Web Server (Django or Node.js)**

Installation of a web framework on an Amazon EC2 instance.

(g) **DBMS (MySQL Server)**

Define Table Schema and create the tables in RDMS (MySQL) database in AWS.

(h) **AWS Analytics API**

Tested the API online by passing some input parameters and analyzing results. Based on our progress, we will design appropriate prediction model and then use this service in building the model.

(i) **Infrastructure (AWS)**

Account creation and set-up the environment. Also, choose the services we want for our project (one-year free trial service).