Assignment 5: Firebase functions and Firestore

This assignment is all about providing the infrastructure to save client data to our database backend and creating a simple frontend which can push data to the backend.

Remember for each assignment create a separate project on Firebase (this means a separate local folder also)

The goal of this assignment is to save comments posted on our web apps to a Firestore database. You can create a simple blog page for this. Assume each comment submitted has the following simple data structure

{

"comment" : "I think this web page is wonderful"

}

Create the following RESTful server-side APIs and client code. You can reuse and extend the in-class examples:

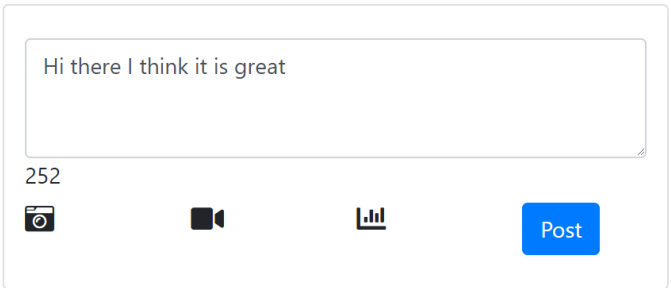
a) A REST API should be created. This API built using Firebase functions will save comments passed in through the request body to the Firestore database. You can test this works by using the Postman client and following the example in the notes. **2 marks**

b) A REST API which retrieves comments from the database should also be created using Firebase functions. **2 marks**

c) Recreate the UI below (as best you can) for posting comments. Limit the user to 280 characters (just like Twitter). The counter will display the characters remaining in real time as the user types. **8 marks**

d) When the page loads for the first time a GET request is made to the /getcomments API (part b) and displays all the comments retrieved from the database. **4 marks**

e) When the user presses the "post button" on the form a POST request is made to the /postcomments API which saves the new comment in the database. **4 marks**



Submission Instructions:

- Please copy and paste the code for your functions **/getcomments** and **/postcomments** onto a separate document and upload it via Canvas.
- Please also include the URLs for the deployed functions and the hosting URL.