

Dear Candidate,

We work on highly scalable and challenging technologies and need candidates who can quickly learn and apply new technologies. You work with really smart peers and learn a lot.

This is the assessment of your selection process. and we believe that you will attempt it successfully and join us soon.

Though the assignment is very small but technologies being used in this assignment are new for you, so it may take a few hours to complete it. Please read this assignment carefully.

### **Student side typing box in ReactJS/Angular**

The student will enter his RollNo and will upload his/her image on a screen. He will see a text area on the Web Page. As soon as he starts typing, your javascript code will send each word to the server through a mqtt connection.

### **Server Side mqtt connection in NodeJS**

The server is a small code listening to a mqtt connection and saving the data to redis key value pair DB.

Suppose 10 or 20 (means n) numbers of students are connected to the server sending their data through a WebSocket. At the same time, the teacher's browser is connected to the same server and receives data through WebSocket.

The teacher must see the following Live dashboard in output in ReactJS of their typing speed (words/minute). Data must be in descending order of words/minute:

Roll No.	Image	Total words	Total characters	Words/Minute	Characters/Minute

### **Test Cases:**

Please write positive/negative test cases as well for testing us.

How to Submit this assignment?

After completing your assignment, push your code to GitHub and fill out the below-mentioned

Form.

[https://docs.google.com/forms/d/e/1FAIpQLSde9MV\\_cXPNNpn1YACPbCZcvQKo749Znf1I6yADR7WbyMX7LQ/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSde9MV_cXPNNpn1YACPbCZcvQKo749Znf1I6yADR7WbyMX7LQ/viewform?usp=sf_link)

All the Best!