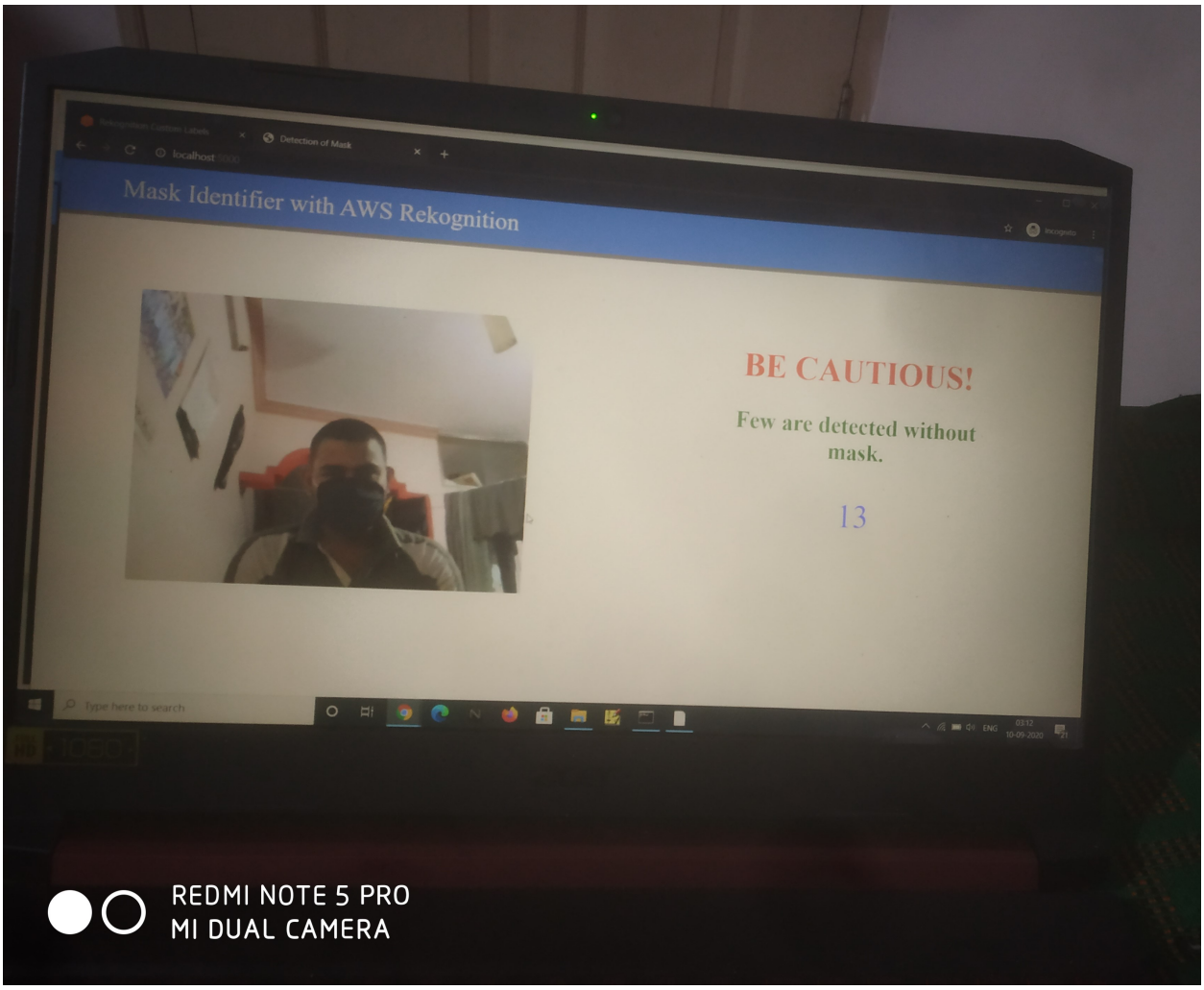
Intelligent “Best Safety / Max Safety” Rating Generator for Restaurant

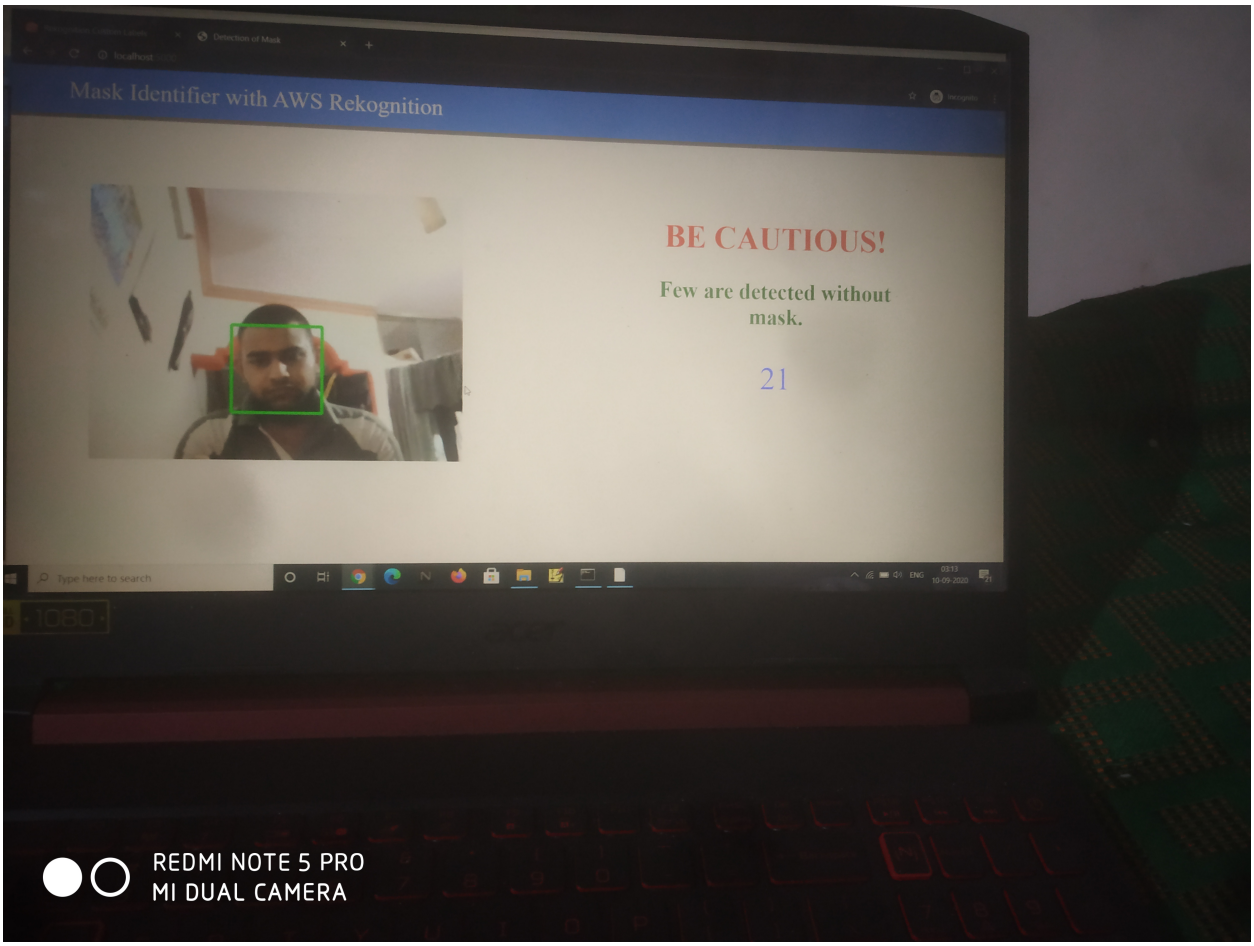
1. INTRODUCTION

Gaining the trust of customers is very important for every business. In this pandemic situation , safety is the most important factor and nowadays, every food delivery app is rating the restaurant on the basis of the COVID-19 safety guidelines. This helps the customers in choosing the safest restaurant for themselves.

This project uses AWS cloud for building an application which can scan whether the COVID-19 safety guidelines are followed or not in the restaurant.The safety guidelines include wearing of masks , gloves and sanitizing the kitchens. For this application to be built, AWS services such as Rekognition, DynamoDB , lambda and API gateway is used.Rekognition for detection of masks, DynamoDB for storing the data i.e. acts as a database for this application , lambda function to update dynamodb with count which keeps on changing and API to generate the url and pass the values to DynamoDB using lambda funtion.

2. RESULT


Detection of Mask
localhost
Mask Identifier with AWS Rekognition
BE CAUTIOUS!
Few are detected without mask.
13
Type here to search
REDMI NOTE 5 PRO
MI DUAL CAMERA



3. APPLICATIONS

- This system can be used in the restaurants for maintaining the safety standards and rate the restaurants with a safety factor.
- Talking of the hospitals, using this system , hospitals can screen if the workers are wearing masks and gloves or not during their work day. They will be warned if they are not wearing the masks.
- In airport also, the tourists /individual without masks can be detected and further actions can be taken.

- In offices also, this system can be used to recognize if employees are maintaining the safety standards or not.

4. CONCLUSION

With the help of this project we will be able to generate a safety rating for every restaurants which would take in consideration the factors like wearing of masks and gloves. And this safety rating would help customers to choose better restaurants for them. Thus, overall this is a great project where you will experience the use of AWS cloud and knowing to use AWS cloud will have a potential effect on your career.The teachers and staffs involved in this project had been very supportive. I would like to thank them for providing us with such a wonderful experience of this project.

5. FUTURE SCOPE

The face mask detection system can be uses the facial recognition technology for detecting faces with masks. And in future, the facial recognition technology can be used mostly for the security purposes i.e. for detecting faces of people with masks and without masks also. A facial recognition firm says, " While wearing a mask, the recognition rate can reach about 95%, which can ensure that most people can be identified and the success rate for people without masks is 99.5%." Thus , survelliance and security are the major industries that will be intensely influenced by this technology. School, Universities and healthcare would also like to implement this for better management.Thus, face detection system will play a vital role in our near future.