Project Report

Intelligent Post-Lock Down Management System For Public Transportation

Team-vikhyat

Team member-Vikhyat Bhatnagar

INDEX

Overview

- In this project I've created a website which can be used extensively after the lockdown as this could detect the persons who are following the safety measures like wearing the mask can only travel.So the technologies which I've used are Javascript,HTML,CSS,Watson Visual Recognition Service.The steps followed are
- I've used node-red for the server side.
- I've used the visual recognition services by IBM

Purpose

- The main purpose of creating this site was to ensure that spreading of the virus can be reduced in the public transport.So if we check wether the people are following all the measures individually its not at all possible so we need to check before hand wether they are following it or not so we can do one thing allow only those who are following it and don't who are not.

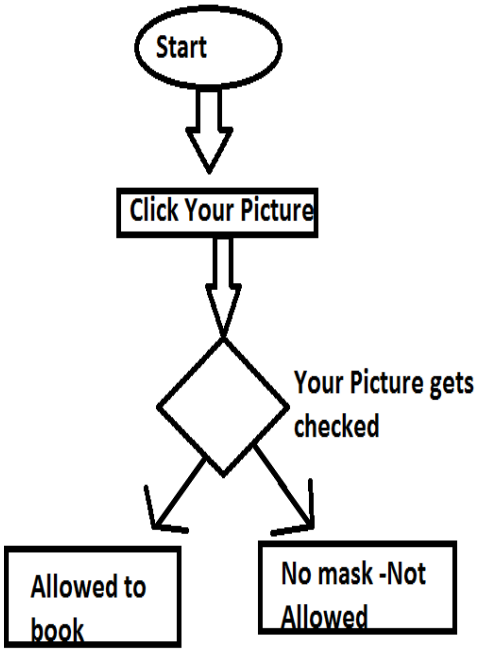
Literature Survey

- Proposed Solution

The use of node-red,IBM services makes the creation of the app very easy and also it reduces its complexity.The visual recognition service is used for the first time in case of the ticket booking till now it was used in case of attendance monitoring systems,Camera's etc.So by using this technology it makes this project to stand out from the rest.They can be many solutions proposed for eg An administrative user who can verify and grant the access to users for their booking but they all need a human who has to monitor the things but here there is no need of a extra person.

Theoritical Analysis

Block diagram



Experimental Investigations

- In this process of developing this project I've learnt about the following technologies to complete this project sucessfully.
- Node-Red
- IBM Cloud
- Visual Recognition service
- Zoho Writer

Advantages

- Easy to develop
- Easy to Use
- Fast
- Can be Integrated with any app

Disadvantages

- The watson services have a disadvantage
- We should have to pay to IBM for their services like visual recognition service

Applications

- This can be used for the first check of users on any of the travel booking sites.
- It can be integrated with their sites to ensure safety among the travellers.

Conclusion

- The project gave me an idea about how to use Javascript,node-red to create apps to solve the real world problems and it also created my intrest in Javascript and web development.

Future Scope

- Many more interesting features can be added in it like
  - Voice assistive booking for visually impared persons.
  - A chatbot
  - Voice enabled Replies
  - Auto booking if a person regularly travels on the same route.
  - Railways and Airways booking Feature.

Bibilography

Name:Vikhyat Bhatnagar
College: Malla Reddy College Of Engineering and Technology
Work Title:Intelligent Post-Lockdown Management for Public Transport

Appendix

[Source Code Flow Chart]

Working Page

Video Link