Live Fresh Produce Market for Essentials

Currently due to the pandemic of COVID 19 most people are left with no option but to quarantine themselves at home and stock supplies whenever possible. A large part of the world is now buying supplies online but that still leaves a large group who rely on shopping physically from the store. This maybe due to limitations of online payment options and need to use cash or food stamps or preferring to buy items like fruits and vegetables after inspecting in person.

While instore shopping is manageable for the able bodied and general public who can make a few runs to stores and gather supplies it is a big challenge for the elderly (nearly 8.5% of our world population), differently abled (nearly 2.1% of our world population) and anyone wanting to avoid crowds.

These people would benefit from knowing the availability of stock in a store before going out to procure them thus reducing the need to make multiple stops and risk of crowding a store that is already running out of supplies. It also reduces queuing in stores which helps social distancing as well.

Additionally, there are vendors who could buy stock in bulk previously and now cannot make multiple trips for inventory due to travel limitations. We know that farmers are suffering huge loses in millions due to the inability to sell their produce. If they could locate a vendor in need of supply by using the application, they could reduce the effort and easily locate their customer.

**Live Fresh Produce Market for** **Essentials** is the application we are proposing to curb these problems. It is an application that would use the webcam footage of a vendor – a store in this case - and convert the video to images. These images of stock would be present under the vendor and provide a visual idea of what is available. This can be used by the customer who wants to shop at the store or a supplier/farmer who wants to sell there.

It is compatible on all devices and would provide the end user Live produce updates on stock in the form of images. These images are procured from the vendor in the form of raw web footage. This video footage is stored in IBM Cloud object storage which is using Watson visual recognition to identify the images from the video.

We have designed this solution with Fresh vegetables and fruits in mind, but it could be expanded to cover other essentials as needed. The uncertainty of when quarantine would end demands such smart solution which can enforce social distancing in a smart and effective way avoiding potential chaos.

**Customer advantage:** Avoid crowds, visual access to necessities, easy to use User Interface of application.

**Flexibility:** Provides time flexibility to the customers and vendors of monitoring live and fresh produce on the go.