**GRO-SEC-FOOD**

**1. Introduction**

**1.1 Overview:-**

We will develop software of stock availability prediction for a city.

The software will allow the people to convey to the local administration of their city(who is responsible for maintaining the stock of the necessary commodities) about the need for any commodity. The administration will get the necessary details from the people and can deliver them to the person's home.  At the same time, the software will also update the available stock of that commodity in the city. Also, the software will study the sale patterns of every commodity and predict the future sale for that particular commodity and generate the result in the form of no of days left fo the stock to last. This will make the administration aware of any upcoming shortage of the stock of any commodity in the market. This will help to prevent any shortage of the necessary commodity in the city.

**1.2 Purpose:-**

This will make the administration aware of any upcoming shortage of the stock of any commodity in the market. This will help to prevent any shortage of the necessary commodity in the city.

**2. LITERATURE SURVEY**

**2.1 Existing Problem:-**

Now a days during pandamic we are not frequently going outside to save ourself and if we our going out thats not to do nescessary works that includes oue basic commodities shopping . So when we are going for them we are not able to find the stock of the iems what we need which leads us to search for them in more than one shop so this leads to a threat of us being exposed to the virus more as we are travelling to different places.

**2.2 Proposed Solution:-**

We will develop an app which will collect the items needed for the person in a particular city/particular area in future. This data will be stored in the Cloud and in the backend, this data will be processed to generate the prediction of the future stock of this product. Machine Learning will help to find out the growing trend of demand from the item data. The App will also contain a chatbot which will help the people to understand the current scenario with the COVID and they can also be introduced to the necessary steps for prevention. The chatbot can also take the data from the user and can predict the chance of suffering from DISEASE.

**3. THEORITICAL ANALYSIS**

**3.1 Block Diagram**

**3.2 Hardware/Software Designing**

https://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gif

https://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gif

https://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gif

https://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gifhttps://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gif

https://static.zohocdn.com/writer3/images/spacer.ed280a0ea3cc38f3cbbc747acfbef47d.gif

**4. EXPERIMENTAL INVESTIGATIONS**

**5. FLOWCHART**

**6. RESULT**

We successfully built a model which predicts the data with the maximum accuracy we got .

**7. ADVANTAGES AND DISADVANTAGES**

The app can be used by both android and ios users and the disadvantage can  be the accuracy of prediction as we cannot predict exactly 100% needs of a person but we tried to keep up theaccuracy max. possible.

**8. APPLICATIONS**

It can be used by almost everyone who has an internet connection and is using a smart phone.

**9. CONCLUSION**

Thus conclude by saying this project will be helpful for everyone durning this pandamic and has a very huge rate of success and both android and ios users can download the app as we designed bith the versions for it .

**10. FUTURE SCOPE**

Their is a lot of scope for this project to be a part of real life scenario as this pandamic won't leave this soon and will be a part of our life for a while and we need to learn to live with it by developing such projects we can be careful.

**11. BIBILOGRAPHY**

<https://www.google.com/>

<https://www.wikipedia.org/>

<https://www.kaggle.com/>