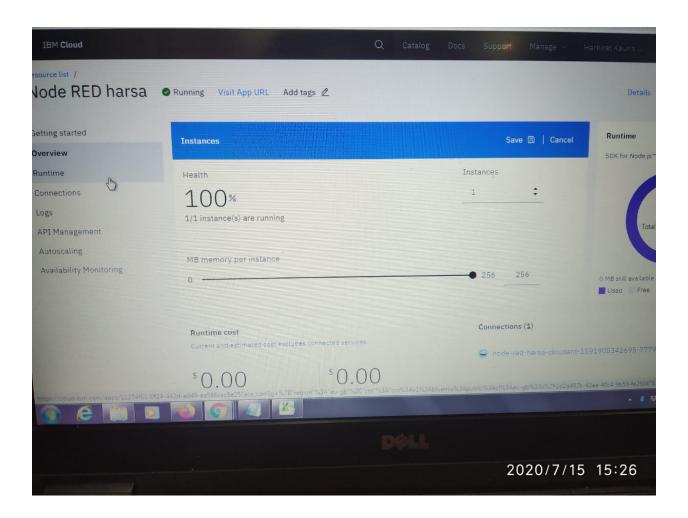
Day 1

I created cloud account on cloud.ibm.com to use the ibm services and after verification activated the account.

Day 2

I created node red service and initiated the flows required and used for my project .



Day 3

I created the watson studio and installed the jupyter notebook and dashboard assests in it .i use the dashboard services as well as jupyter notebook to create the graphs andd visualizations.

Day 4

update the zoho writer and started completing on my project and saving the files till the project is made.

Last day:

Finishing the project and uploading the files on github with final touches.

PROJECT

IMPACT OF COVID 19 ON FOOD SECURITY-VISUALIZATION DASHBOARD

1.INTRODUCTION:

Alarmed by a potential rise in food insecurity during the COVID-19

pandemic, many countries and organizations are mounting special

efforts to keep agriculture safely running as an essential business,

markets well supplied in affordable and nutritious food, and consumers

still able to access and purchase food despite movement restrictions

and income losses.

1.2 PURPOSE

we should develop such a system that track the stored amount of food in

the godowns and also keeps track of supplied chains to market places.

moreover it keeps and tracks the record of farmers who sales how much

amount of crop so that a rough estimate will be shown to

government

- that this is amount of food is stored and if the amount is decreasing
- continously then it gives alert to the system to be prepared before to
- overcome the problem of food security and everyone could get enough
- food at a reasonable prices, because if food security is unbalanced then
- it gives rise to prices hike of food and can cause situation of starvation.

2. LITERATURE SURVEY:

2.1 EXISTING PROBLEM

Now a days due to covid19 pandemic the world is suffering from the problem of food security.as we know that we have latest technology which can help us overcome this problem in a much effective and useful way.so if we use the latest technology in an efficient way we can solve this problem of food security which is impacted due to covid19.

Global markets for food staples are well supplied and prices are generally stable. Global production levels for the three most widely consumed staple(rice, wheat and maize) are at or near all-time highs. However, the prices of certain cash crops — an important source of rural income — have been depressed by the slowing of global demand. Given the status of global food supplies, export restrictions are unwarranted and could hurt food security in importing countries.

2.2 PROPOSED SOLUTION:

Developing a system which keeps record and predicts the minors and majors of food security and create alert when the problem of insecurity of food arises. We should develop such a system that shows statistics and visualized dashboard of the stored amount of food in the Godowns and also keeps track of supplied chains to market places. Moreover it keeps the record of farmers who sales how much amount of crop so that a rough estimate will be shown to government that this is amount of food is stored and if the amount is decreasing

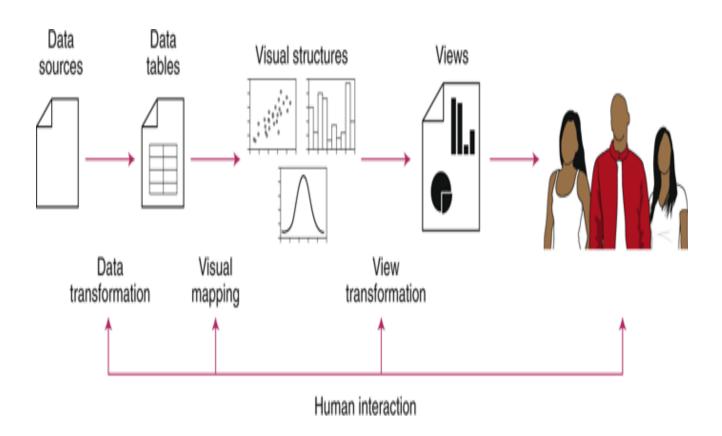
continuously then it gives alert to the system to be prepared before to overcome the problem of food security and everyone could get enough food at a reasonable prices, because if food security is unbalanced then it gives rise to prices hike of food and can cause situation of starvation. Moreover it also predicts the after impact of COVID 19 on food security.

3. THEORITICAL ANALYSIS:

3.1 BLOCK DIAGRAM:



3.2 HARDWARE/ SOFTWARE DESIGNING:

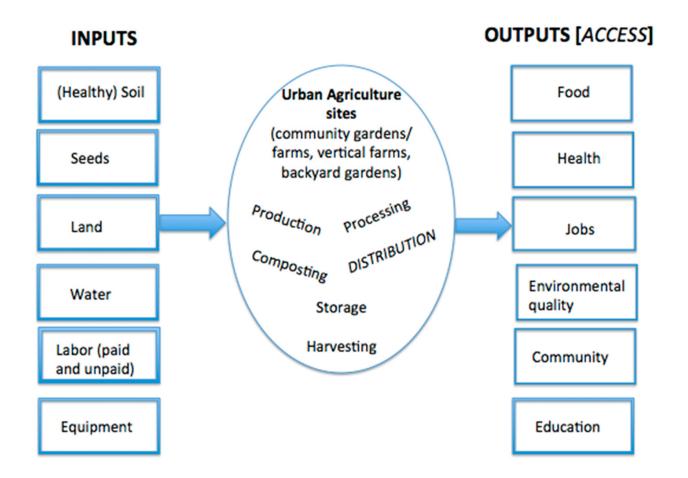


4. EXPERIMENTAL INVESTIGATION:

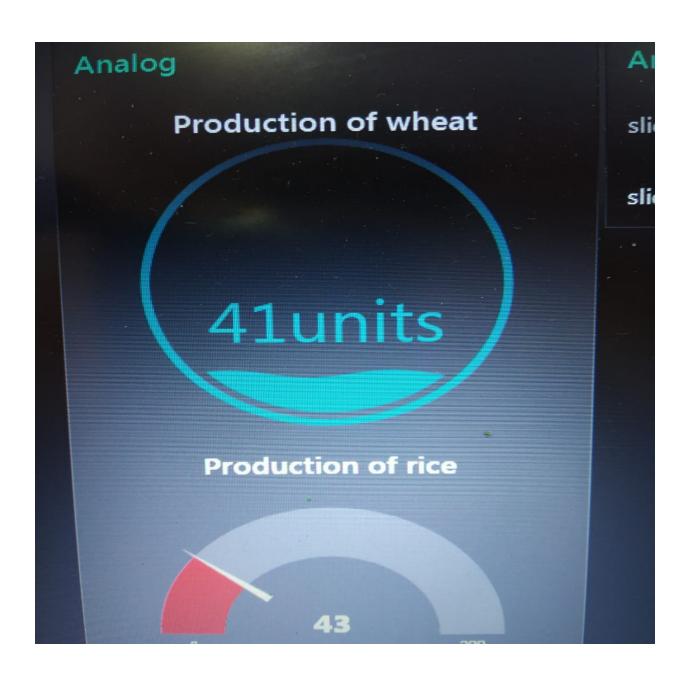
In this process of developing the project I have undergone many investigation processes to learn and understand new concepts so that I can build the news searchapplication successfully. For I had to learn and investigate following:

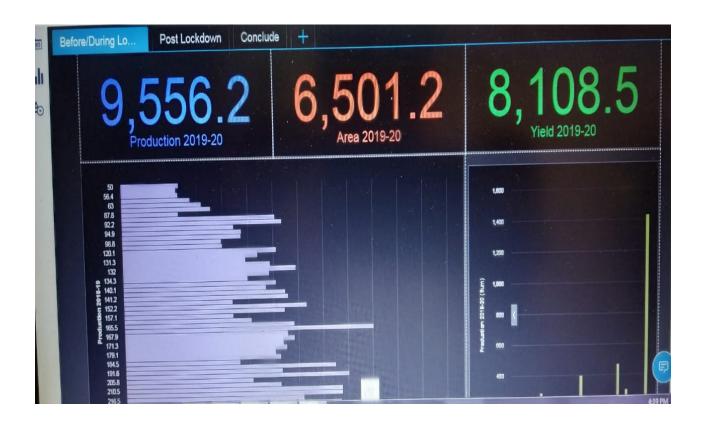
- 1.IBM Cloud.
- 2. Node Red.
- 3. Watson Studio
- 4. IBM Cloud Services
- 5. Zoho writer

5. FLOWCHART:



6. RESULT:





7.ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

The Watson Studio provides us various easy to use services like:

- 1.Dashboard to create interactive graphs and visualizations.
- 2.lts easy to use.
- 3. Its very efficient and understanble.
- 4. Reduces our time to write the code.

DISADVANTAGES:

- 1. To use more services we have to pay for its services.
- 2. The services require large amount of space.

8.APPLICATIONS:

With Watson Studio we can create various graphs and visualizations as well as insert the frameworks by importing i.e we do not have to write the whole code.lsn't it the easy thing?Moreover we can use the assets of watson studio to reduce our time and to easy our work .lt provides a very good approach to create various industrial and community projects.

9. CONCLUSION:

This project give me the insights and basics working with the Watson Studio and its various services to create an interactive dashboard for my project which can help understand the problems and stats of food security during Covid 19. It provides easy approach to create various industrial and community projects.

10. FUTURE SCOPE:

This application can be used with other applications to analyze the food security data which can help to grow the business constantly which can provide the benefit to everyone from small scale to large scale people as it uses the interactive dashboard to predict the data.

11.BIBILOGRAPHY:

NAME:

HARKIRAT KAUR

Team: Smartinterny

COLLEGE:

GURU NANAK DEV UNIVERSITY, AMRITSAR, PUNJAB

WORK TITLE:

IMPACT OF COVID-19 ON FOOD SECURITY-VISUALIZATION DASHBOARD.

REFERNCES:

DOCUMENTATION:

https://github.com/IBM/visualize-food-insecurity

SLACK: https://slack.com/intl/en-in/

CLOUD: https://www.ibm.com/cloud/get-started

NODE RED

https://developer.ibm.com/tutorials/how-to-create-a-node-red-s tarter-application/

DEMO PROJECT TUTORIAL:

https://www.youtube.com/watch?v=X8ustpkAJ-U

APPENDIX:

LINK TO NODE RED WORKSPACE:

https://node-red-harsa.eu-gb.mybluemix.net/red/#flow/3c 5383cf.55ef6c

LINK TO NODE RED UI:

https://node-red-harsa.eu-gb.mybluemix.net/ui/#!/4?sock etid=CDJHskwhLYc3LTZSAAAG

LINK TO JUPYTER NOTEBOOK:

https://eu-gb.dataplatform.cloud.ibm.com/analytics/noteb ooks/v2/f2ec36a5-251c-4ea3-9b69-9b9e171c43fb?project id=79a16ecf-472f-4c17-92f5-60357cf8d367&context=wdp

LINK TO DASHBOARD:

https://eu-gb.dataplatform.cloud.ibm.com/dashboards/82 c2f99e-afc2-4439-95d6-d7949f9ea277?project_id=79a16e cf-472f-4c17-92f5-60357cf8d367&mode=undefined

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