PROJECT REPORT :

CREATED BY:

NAME	Ankit Jain
TITLE	Sentiment Analysis Of Covid-19 Tweets-Visualization Dashboard **PROJECT ID**: SPS_PRO_1377 **PROJECT CODE**: SBSPS_CHALLENGE_4413
CATEOGARY	Artificial Intelligence
DURATION	28th June 2020 - 15th July 2020

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1 .Project Scope, Schedule, Team & Deliverables:

1 .1 Overview:

We are going to deploy an application that will utilize multiple Watson AI Services including Cloud function and Node-RED.
During the course of this project, I learned about combining Watson services, and how they can build interactive

1 .2 Problem Statement:

The sentiment analysis of Indians after the extension of lockdown announcements to be analysed with the relevant #tags on twitter and build a predictive analytics model to understand the behaviour of people if the lockdown is further extended.
Also develop a dashboard with visualization of people reaction to the govt announcements on lockdown extension.

1 .3 Requirements:

The project requirements are wide-ranging and include already available frameworks and plug-ins:

- **Project Requirements**: Python, IBM Cloud, Node-RED

- **Functional Requirements**: IBM cloud

- **Technical Requirements**: **(Tech-Stack)** Artificial Intelligence, Machine Learning, Node-Js.

- **Software Requirements:** IBM Cloud

- **Project Deliverables**: IBM Hack Challenge 2020

- **Project Team:** Ankit Jain (Individual)

- **Project Duration:** 16 days

1.4 Project Scope:

The project scope is quite wide, but in order to make the application smooth, easy to load, user friendly, we would mainly be focusing on the following points:

- Creating an IBM Cloud Instance.
- Acquiring a Twitter API Key.
- Creating a Twitter application interface at twitter developers account
- Using NODE-RED to integrate the nodes and present the sentiment analysis.
- Design a Visualization Dashboard to present the sentiment and further analyze.

- Deploy the application.

Next, we will create a project kick-off template.

Kickoff Meeting Agenda

Project Name	Smart Document-Understanding ChatBot
Kickoff Date	16th May 2020

Topic	Leader
Introduce and welcome team members	Team consists Of an Individual: Project Leader-- Ankit Jain
Discuss project background 1. What we have today 2. Why we need to change 3. What are the key measures of success?	To be discussed in the Week-1: Under the Heading 1: (Refer To Page IIi Of Report)
Identify stakeholders 1. Who is impacted? 2. Who are the key stakeholders - Sponsor and/or other decision makers who represent constituencies that will be impacted, and whose support is critical to the success of the project?	Project Analysis And Survey: Under the Heading 2: (Refer To Page VII Of Report)
Review project objectives 1. Objectives 2. Deliverables 3. Assumption	Under the Headings 3,4,5,6,7: (Refer To Page II Of Report)
Review team member roles & responsibilities 1. Project Team- 2. Advisory groups (if needed) 3. Steering committee (if needed)	The data is surveyed and added. Under the Heading 8,9: (Refer To Page II Of Report)
Review other potential issues, risks, questions and concerns *What might get in the way of success?* *How could we address those concerns?*	To be done in the last week: Under the Heading 10,11,12: (Refer To Page II Of Report)
Identify next steps and timing - Team communications - Frequency of team meetings	Can't be scheduled as team consists of a single individual.

Kickoff Meeting Agenda.docx

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IDEA FUSION

2 .Literature Survey:

2.1 Existing Problem:

If we examine the problem statement we could easily identify that the problem statement talks of the problems with the government to monitor the current situation of pandemic.
The sentiment analysis of Indians after the extension of lockdown announcements to be analysed with the relevant #tags on twitter and build a predictive analytics model to understand the behaviour of people if the lockdown is further extended.
Also develop a dashboard with visualization of people reaction to the govt announcements on lockdown extension.

2.2 Proposed Solution:

For the above problem, to get Develop a twitter sentiment analysis model to understand the sentiment analysis of Indians after the extension of lockdown announcements.
In this project I used Cloudant Service, Twitter API key, Node-RED and IBM Cloud, to achieve the above solution. Moreover, later including News API service .
The application shall deem to fetch the API response from the twiiter API key and thereby perform a sentiment analysis on the fetched dataset. Then, it would display the sentiment score and help the government to analyze the sistuation.

3 .Theoritical Analysis:

3 .1 Block Diagram:

Below, I am including a project flow diagram or a block diagram illustrating the scope of the problem, and the design procedure.

This will help to monitor the next steps and get a faster, efficient solution, as the problem demands.

4. Experimental Procedure:

4.1 Create IBM Cloud Services :

Create the following services:
- Create IBM Cloud Account
- Configure Cloudant Service
- Node Red
- Deployment And Testing via Node RED

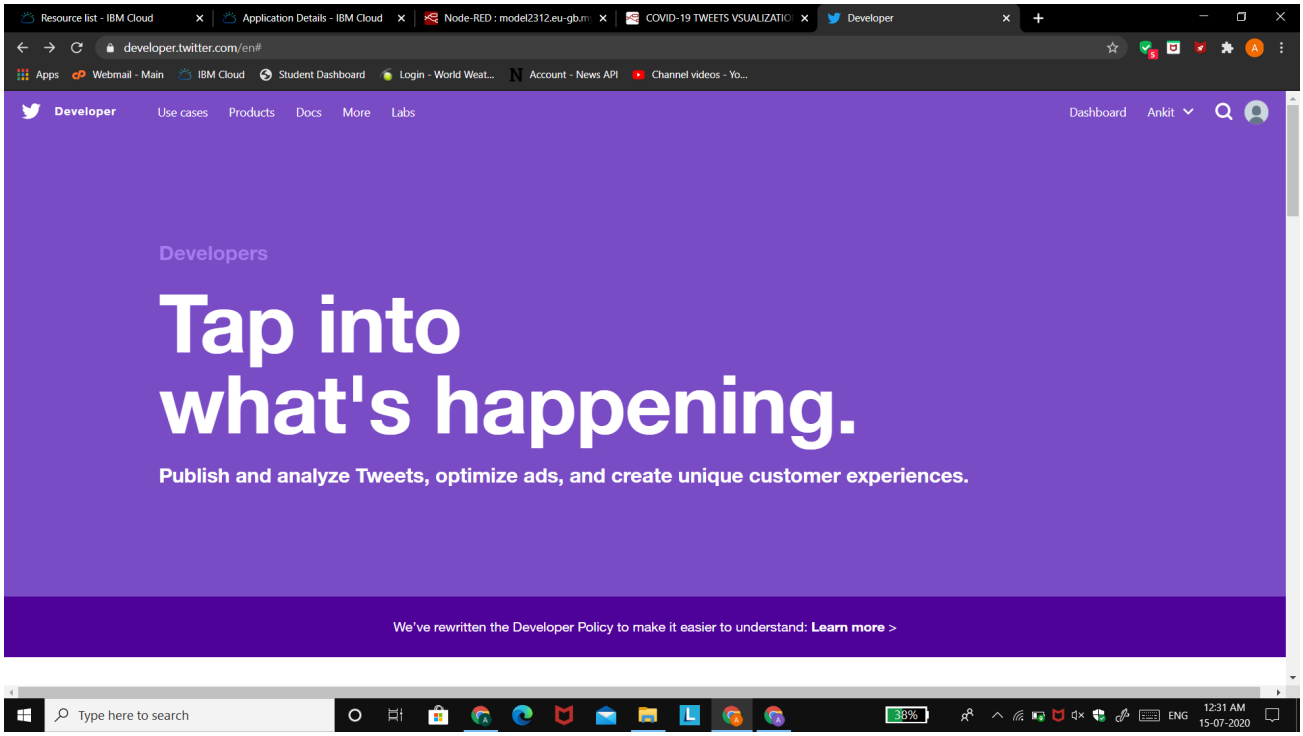
Create the following external services:
- Twitter API Key
- Twitter Developers Account

- Twitter App on dashboard
- News API Service

5. Experimental Investigations:

5.1 Setting Up The Twitter API Key:

Create a Twitter Developers Account:
Visit th following website https://developers.twitter.com an create a new account registering via your twitter social media account.

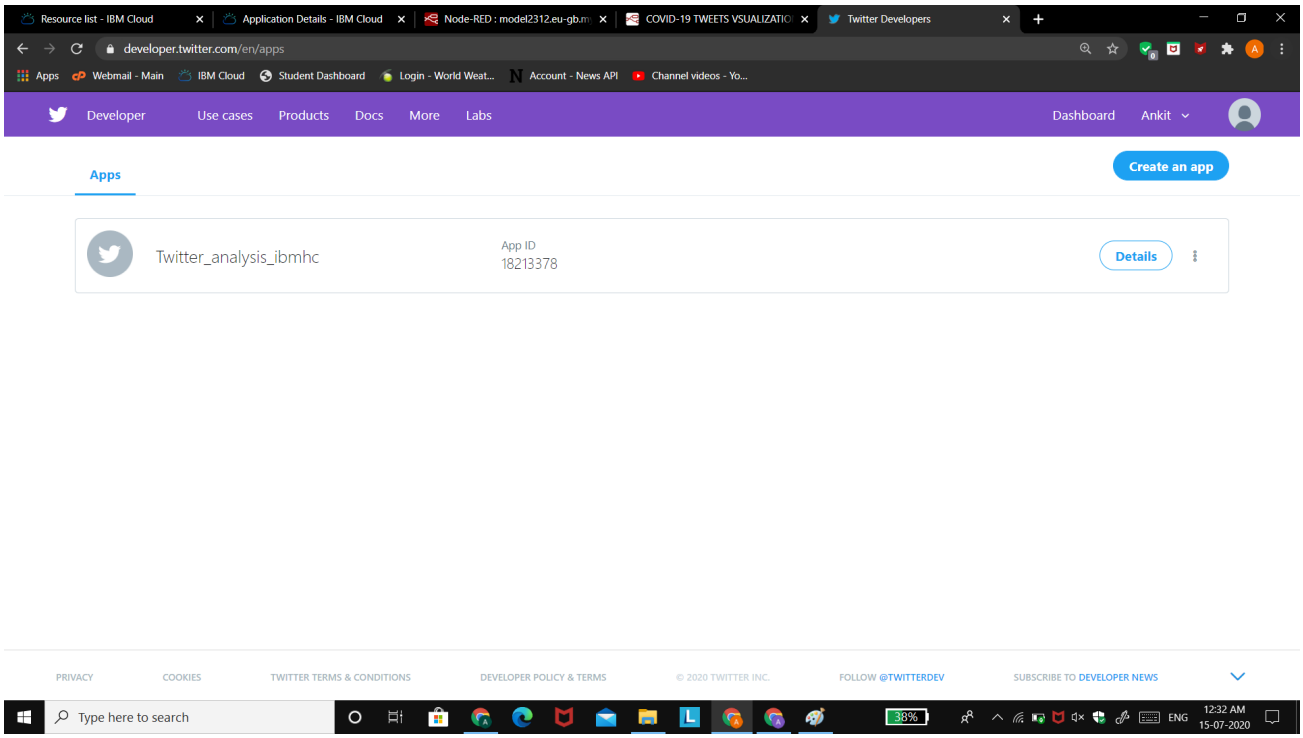


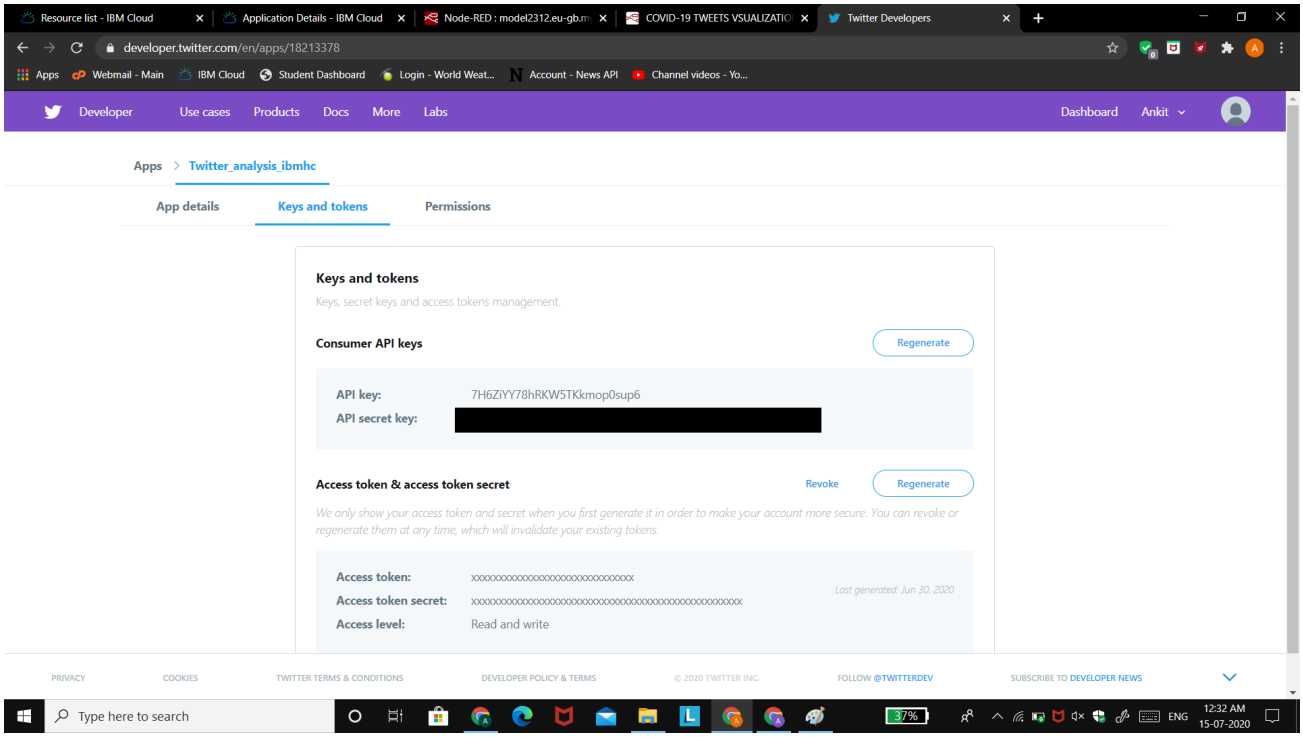
Request Twitter Developers for an API key:

You need to fill up the registration form for getting the twitter API key. For which you will have to answer review question via e-mail.

Creating an App at Twitter Developers Dashboard:

In order to avail the API key you need to create an app at the twitter's dashboard.




Resource list - IBM Cloud
Application Details - IBM Cloud
Node-RED : model2312.eu-gb.m
COVID-19 TWEETS VSUALIZATIO
Twitter Developers
developer.twitter.com/en/apps/18213378
Apps
Webmail - Main
IBM Cloud
Student Dashboard
Login - World Weat...
Account - News API
Channel videos - Yo...
Developer
Use cases
Products
Docs
More
Labs
Dashboard
Ankit
Apps > Twitter_analysis_ibmhc
App details
Keys and tokens
Permissions
Keys and tokens
Keys, secret keys and access tokens management.
Consumer API keys
Regenerate
API key:
7H6ZiYY78hRKW5TKkmop0sup6
API secret key:
[redacted]
Access token & access token secret
Revoke
Regenerate
We only show your access token and secret when you first generate it in order to make your account more secure. You can revoke or regenerate them at any time, which will invalidate your existing tokens.
Access token:
xxxxxxxxxxxxxxxxxxxxxxxxxxxx
Access token secret:
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Access level:
Read and write
Last generated: Jun 30, 2020
PRIVACY
COOKIES
TWITTER TERMS & CONDITIONS
DEVELOPER POLICY & TERMS
© 2020 TWITTER INC.
FOLLOW @TWITTERDEV
SUBSCRIBE TO DEVELOPER NEWS
Type here to search
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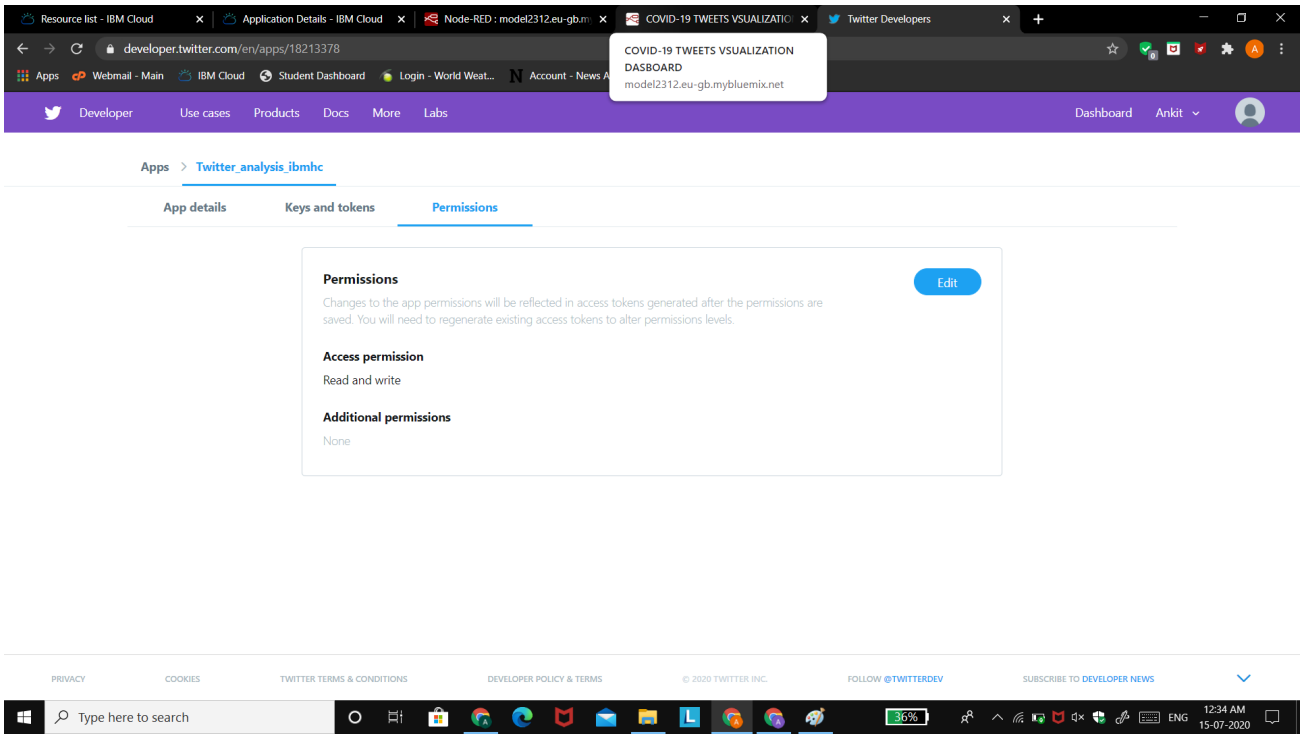
15-07-2020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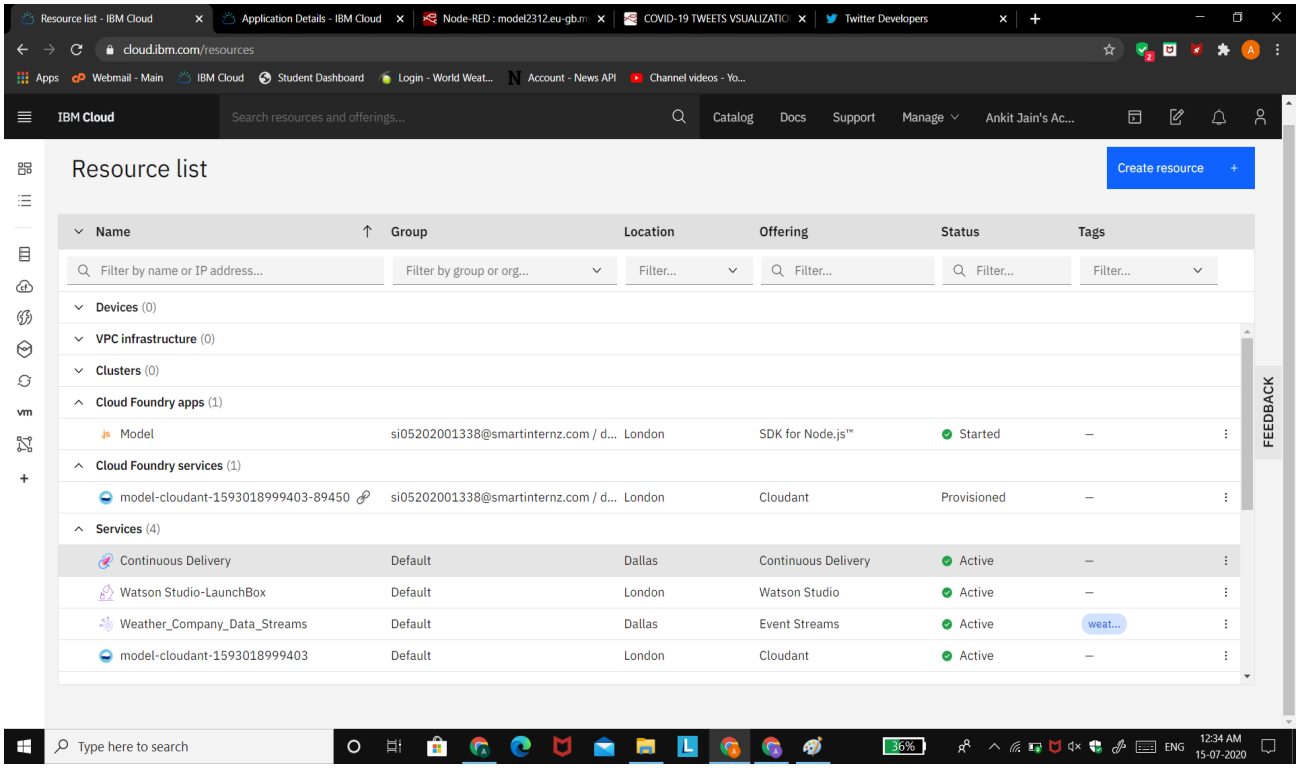
Twitter Developers
developer.twitter.com/en/apps/18213378
COVID-19 TWEETS VSUALIZATION DASBOARD
model2312.eu-gb.mybluemix.net
Apps
Webmail - Main
IBM Cloud
Student Dashboard
Login - World Weat...
Developer
Use cases
Products
Docs
More
Labs
Dashboard
Ankit
Apps > Twitter_analysis_ibmhc
App details
Keys and tokens
Permissions
Permissions
Edit
Changes to the app permissions will be reflected in access tokens generated after the permissions are saved. You will need to regenerate existing access tokens to alter permissions levels.
Access permission
Read and write
Additional permissions
None
PRIVACY
COOKIES
TWITTER TERMS & CONDITIONS
DEVELOPER POLICY & TERMS
© 2020 TWITTER INC.
FOLLOW @TWITTERDEV
SUBSCRIBE TO DEVELOPER NEWS
Type here to search
36%
ENG
12:34 AM
15-07-2020

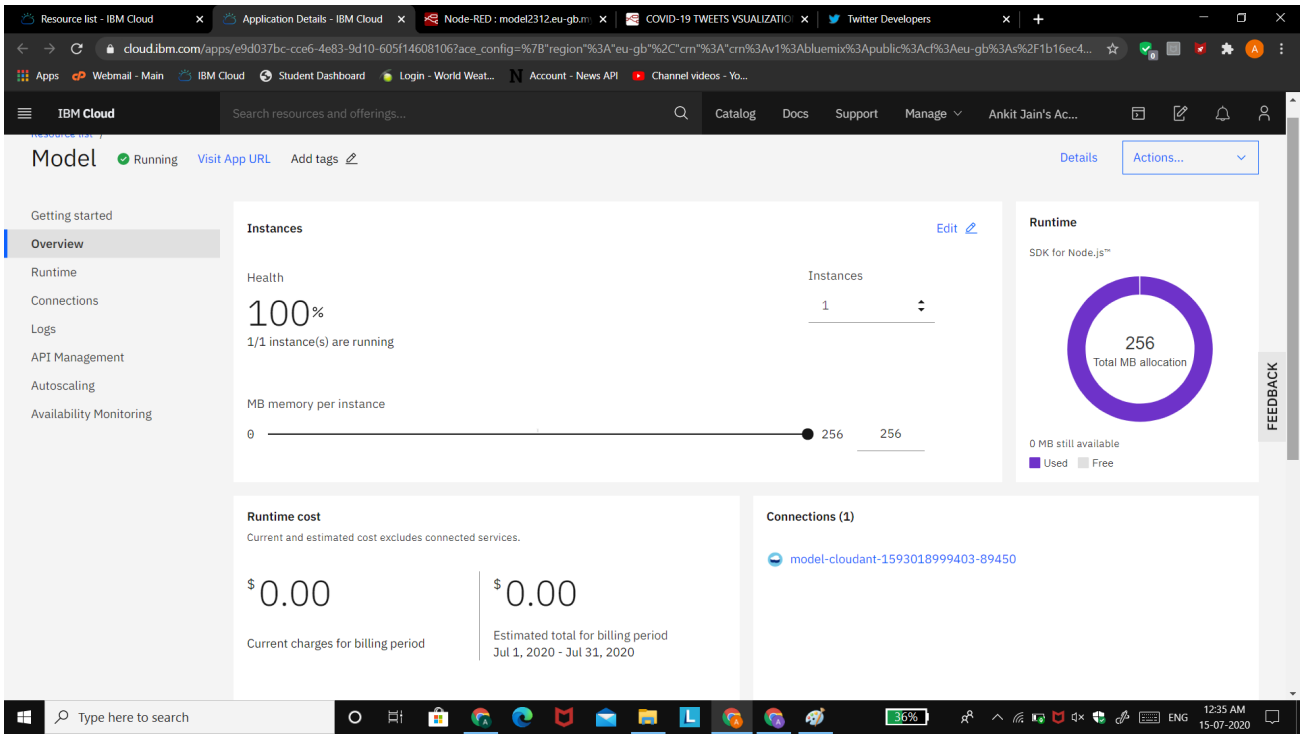
5.2 Setting Up The IBM Cloud Account:

Create a IBM Cloud Account:
In order to use the IBM Cloud Services you need to create a IBM Account via lite plan.

SetUp the Cloudant:
Next you need to setup a cloudant service in a region preferably, London and set it to continuous delivery.

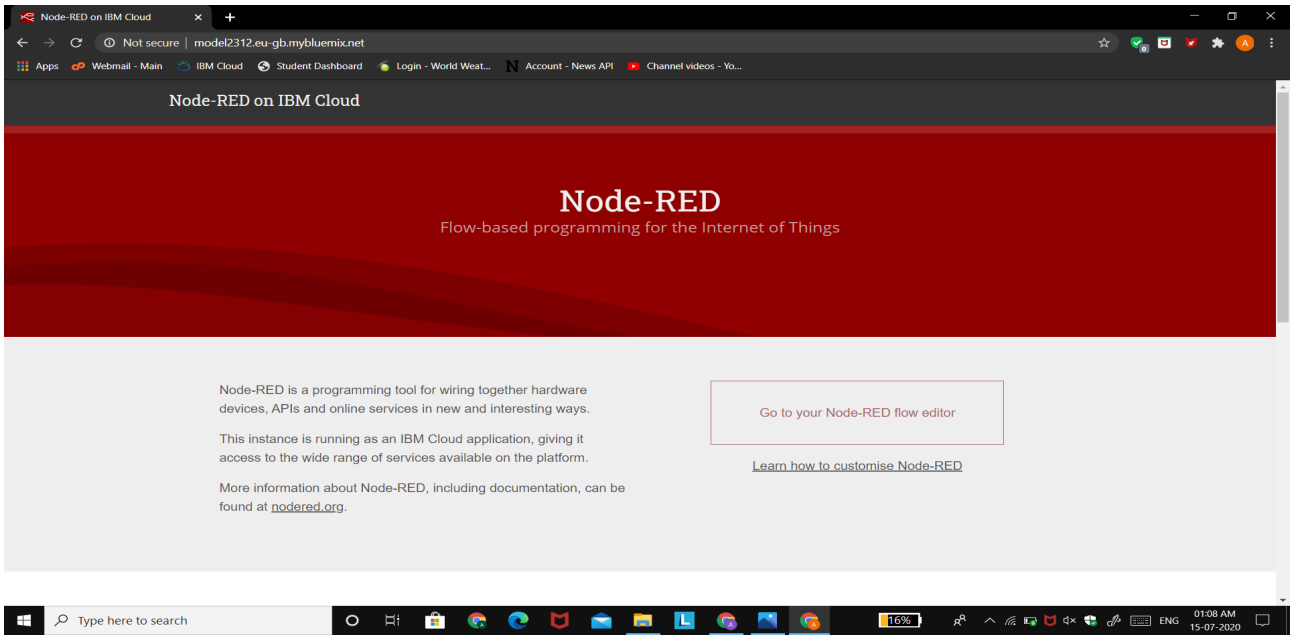
Configure the Service:
Next you need to configure a cloudant service.





Create a Node-RED Instance:

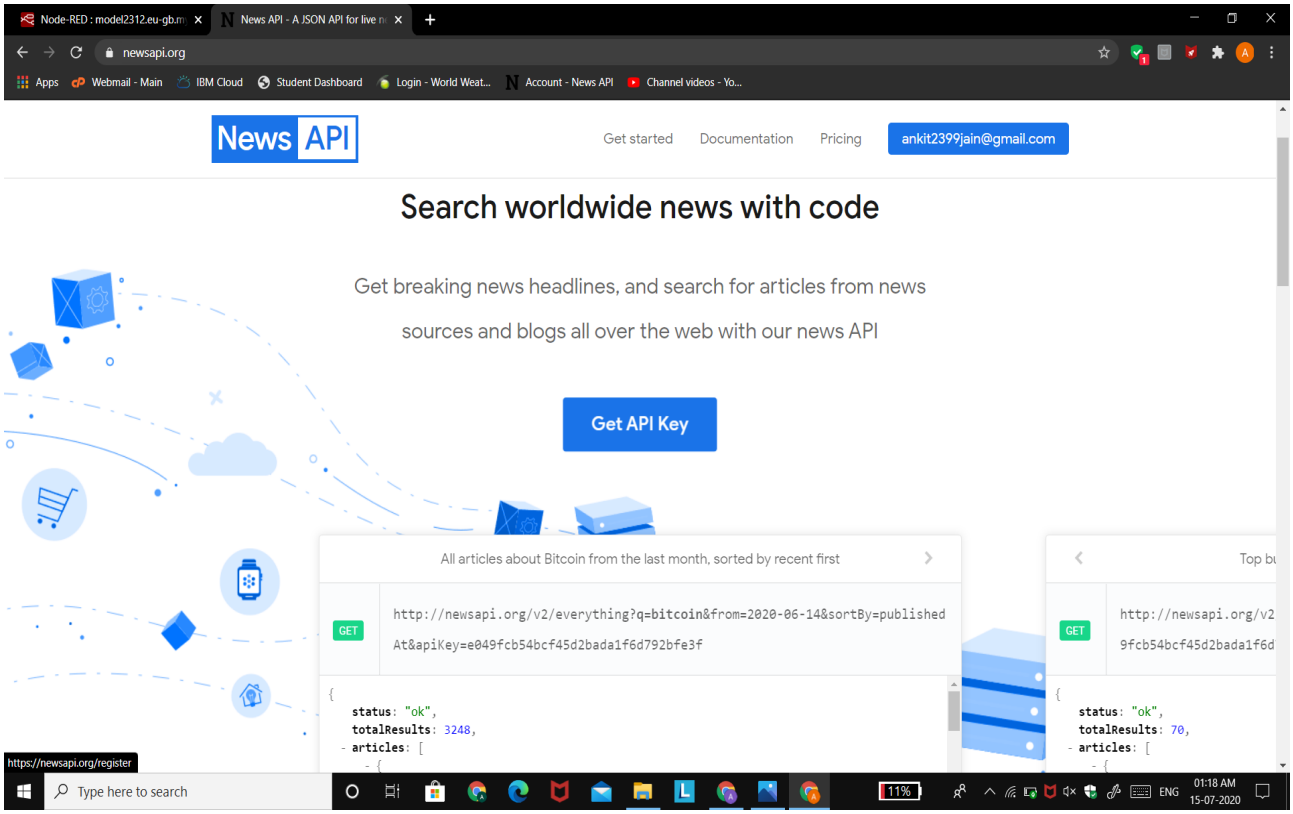
Next go to cloud foundary apps and create a Node-RED application.



5.3 Setting Up The News API Service:

SetUp News API:

SetUp any News API service, wherein you could easily fetch the data from the API and deploy in the application.



5.4 Designing the Node-RED Dashboard:

Configuring Pallete With Nodes:

Firstly, you need to import the following nodes into the pallete:

- Twitter-In
- Image-Preview
- Template Node
- UI Dashboard Nodes
- HTTP Request Nodes

Designing the Nodes:

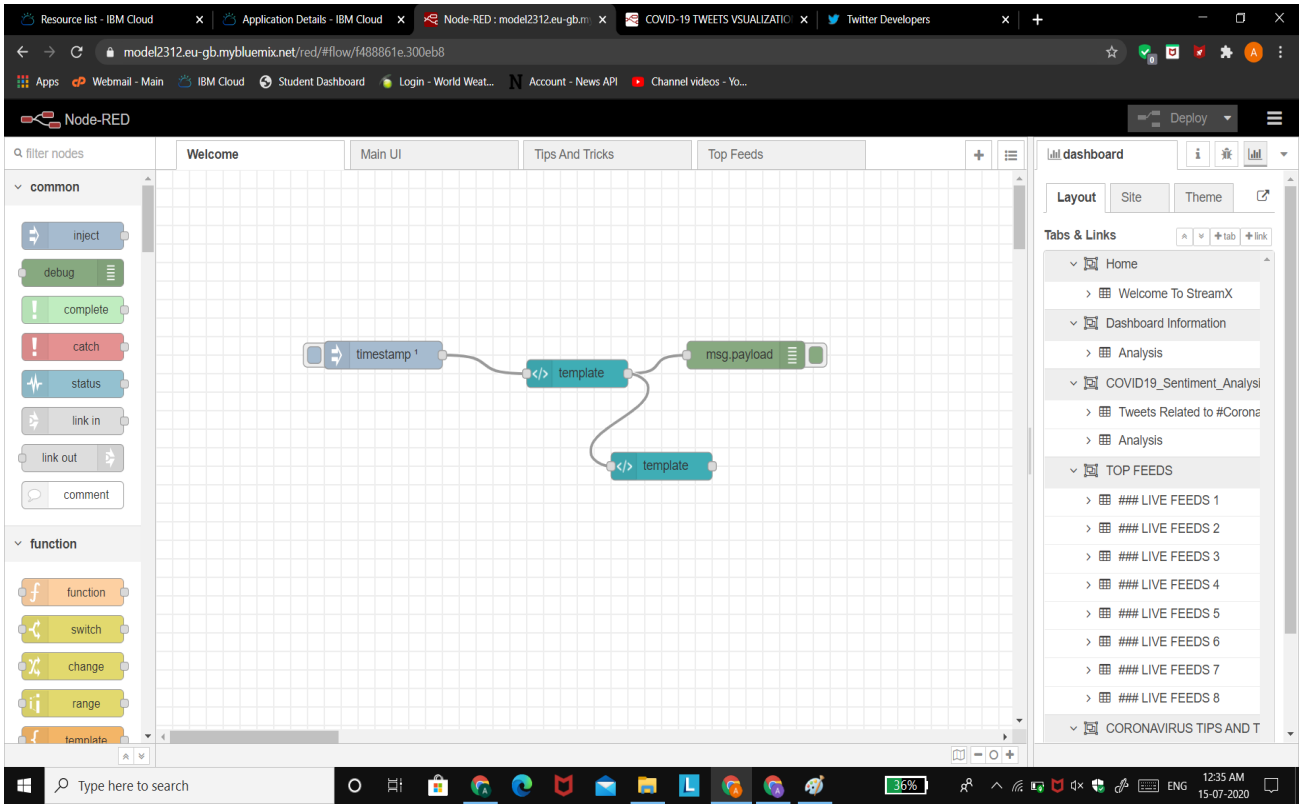
The following UI tabs need to be designed along with the nodes as shown below:

HOME TAB:(Welcome Flow)

The welcome tab opens up when the application URL is hit.

The following nodes have been added to this pallette:

- Timestamp
- Template nodes
- Debug node
- Text Out Node

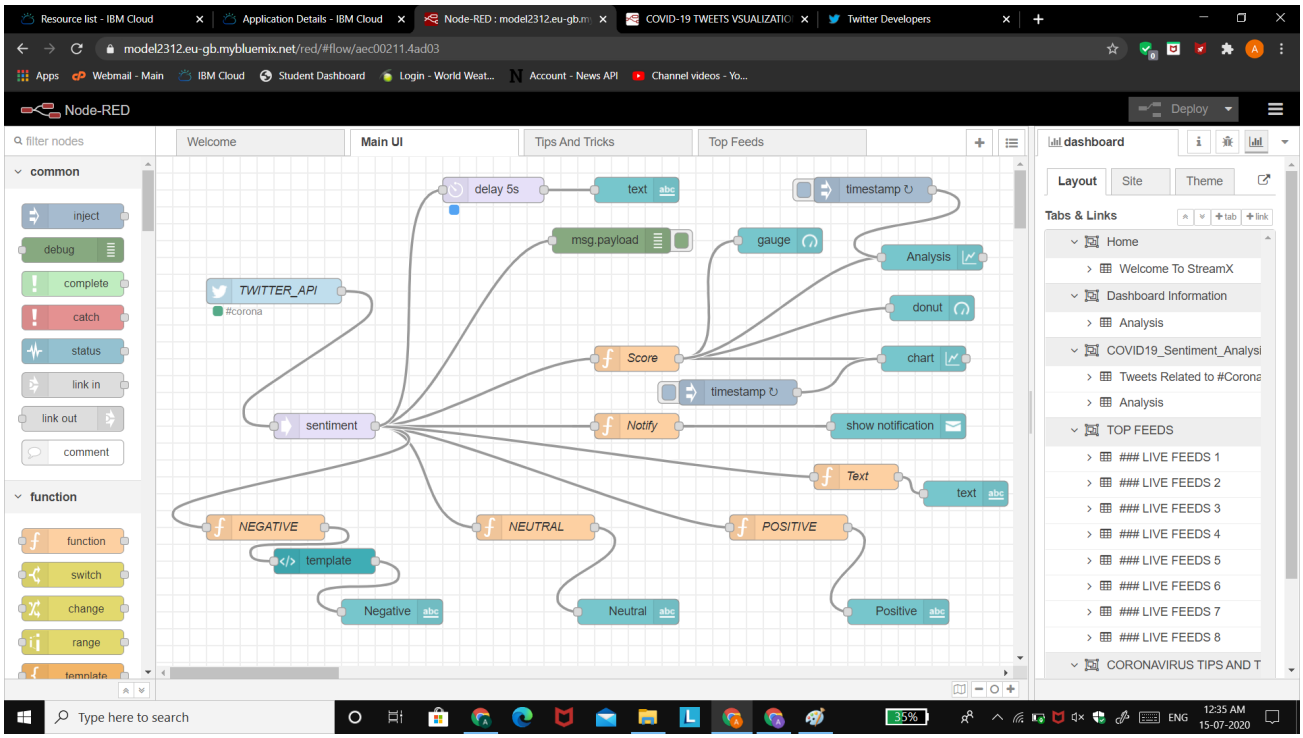


DASHBOARD INFORMATION TAB: (Main UI Flow)

The dashboard tab explains the various sentiment types and the score they analyze.

The following nodes have been added to this pallette:

- Timestamp
- Template nodes
- Debug node
- Function Node
- Text Out Node

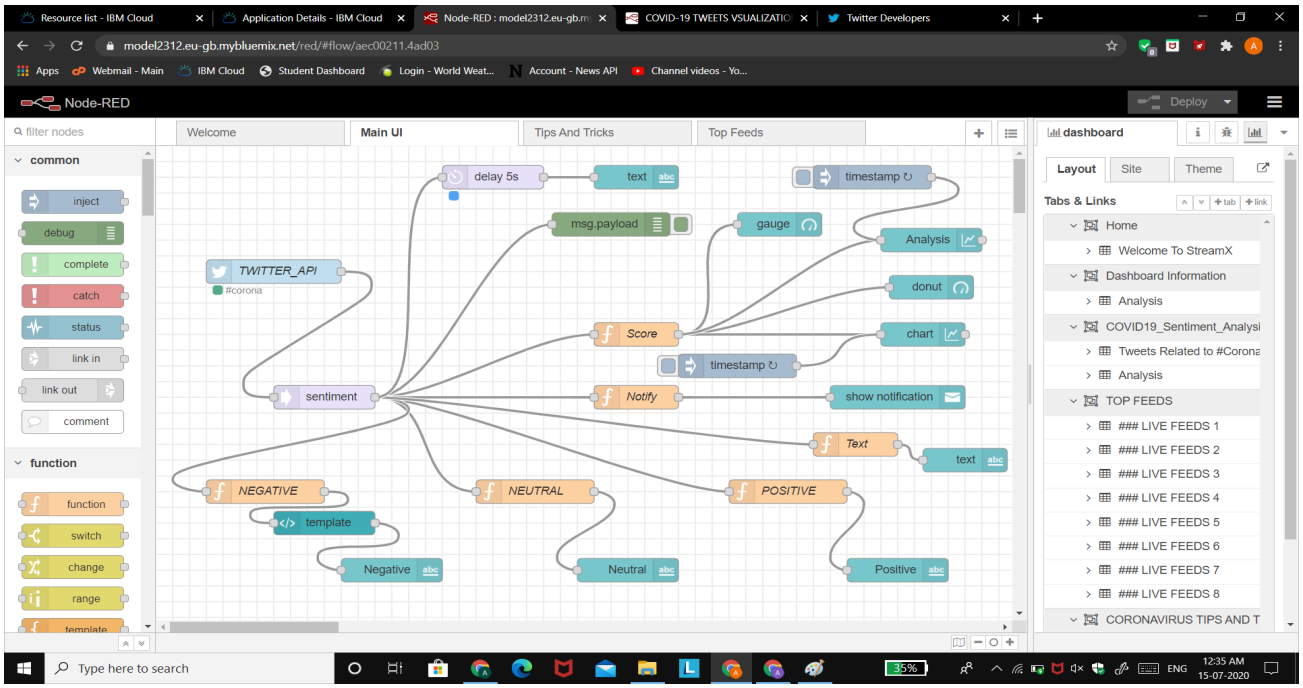


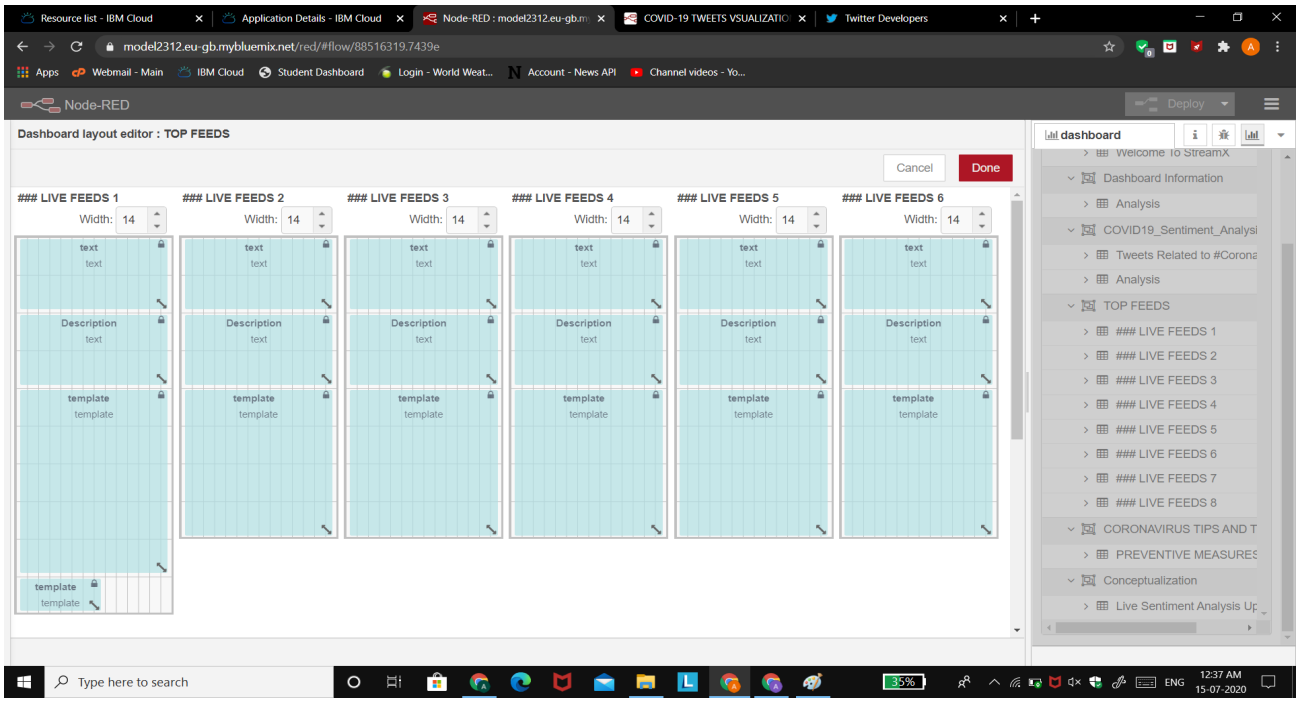
COVID 19 SENTIMENT ANALYSIS TAB: (Main UI Flow)

The asnalysis tab is the brain of the project as it explains the various sentiment types and gives score they analyze.
The following nodes have been added to this pallette:

- Timestamp
- Template nodes
- Debug node
- Function Node
- Text Out Node
- Gauge Node
- Chart Node
- Twitter-In Node

HTTP Request Node

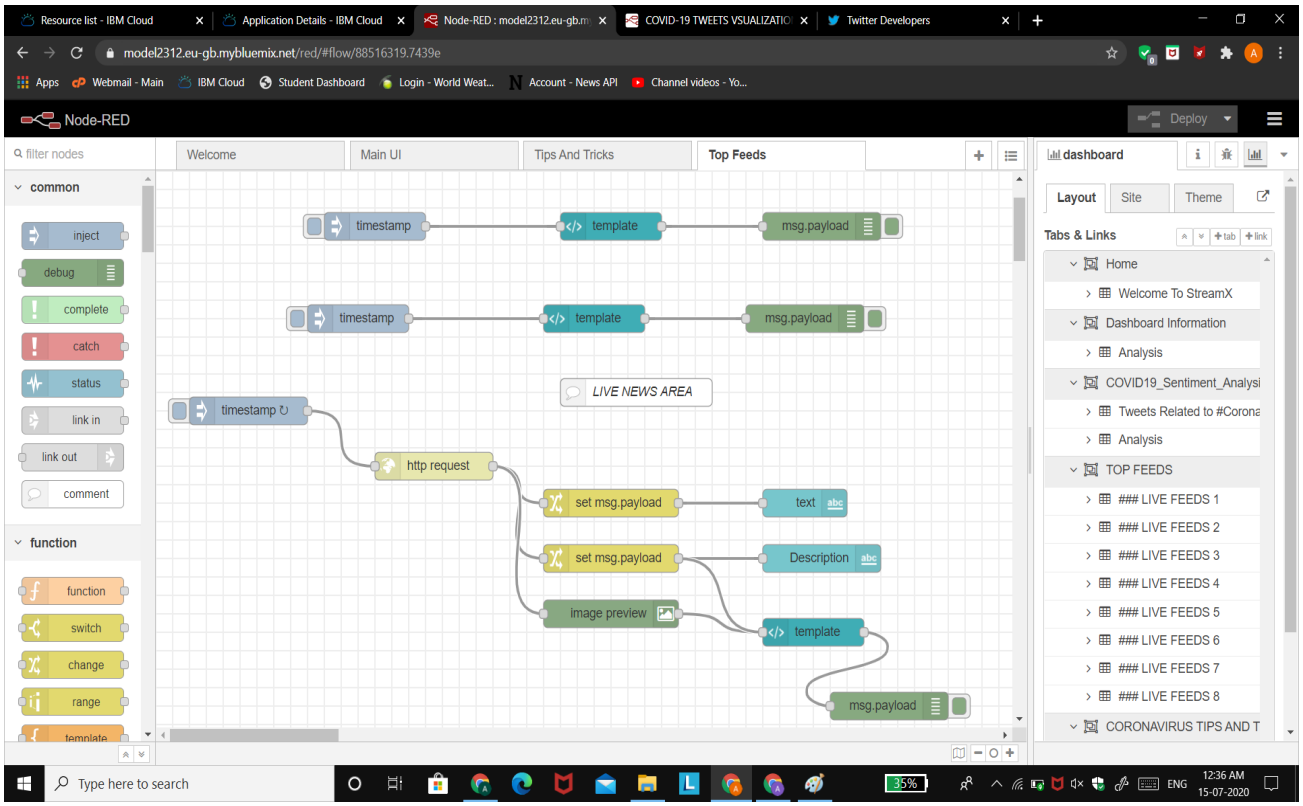




TOP FEEDS: (Top Feeds Flow)

The top feeds tab explains the various news events that are currently happening related to #Corona.IT gives 8 live feeds. The following nodes have been added to this pallette:

- Timestamp
- Template nodes
- Debug node
- Function Node
- Text Out Node
- HTTP Request Node

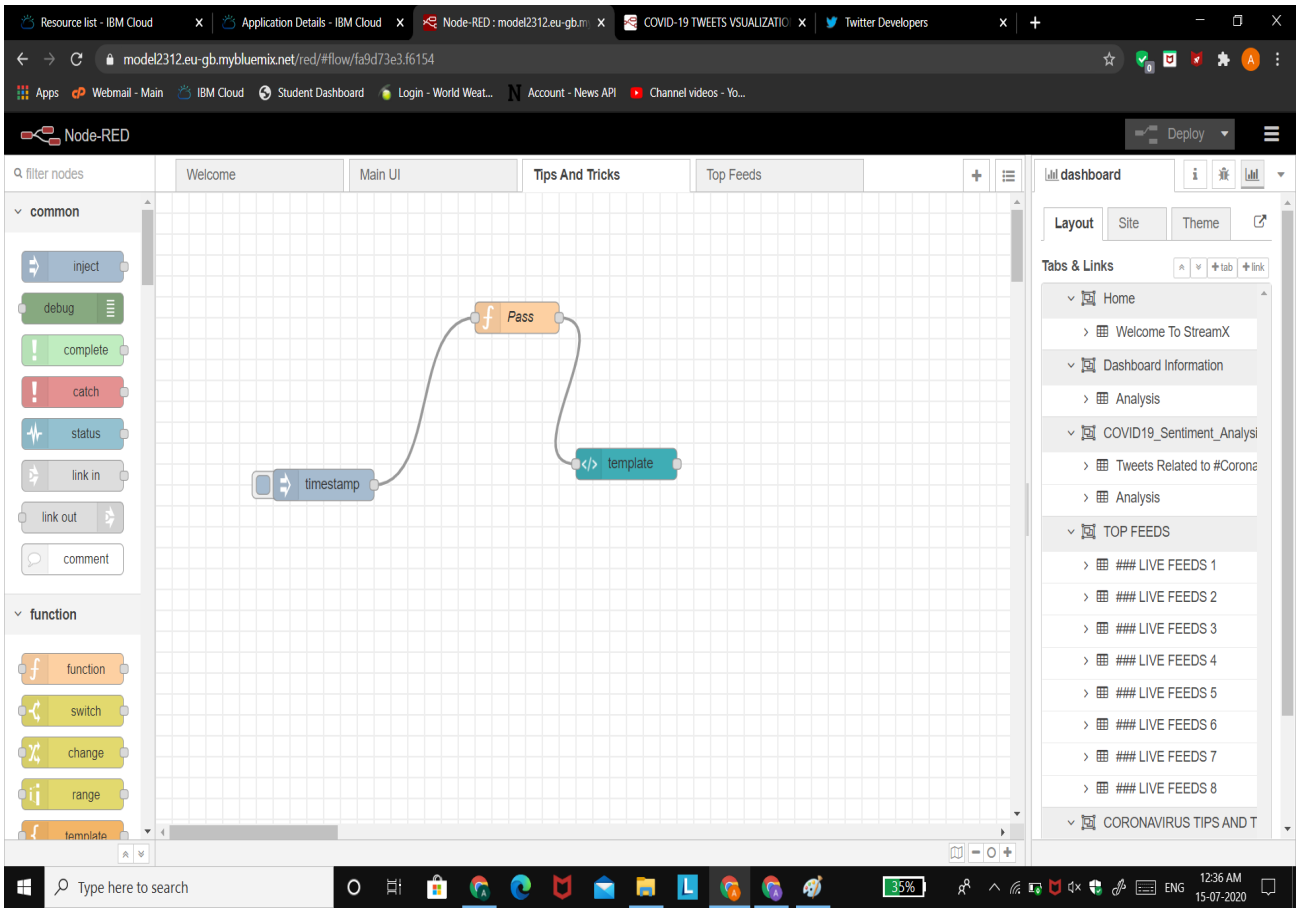


CORONAVIRUS TIPS AND TRICKS:

The tips and tricks tab explains the various methods to combat the pandemic.

The following nodes have been added to this pallette:

- Timestamp
- Template nodes
- Function Node

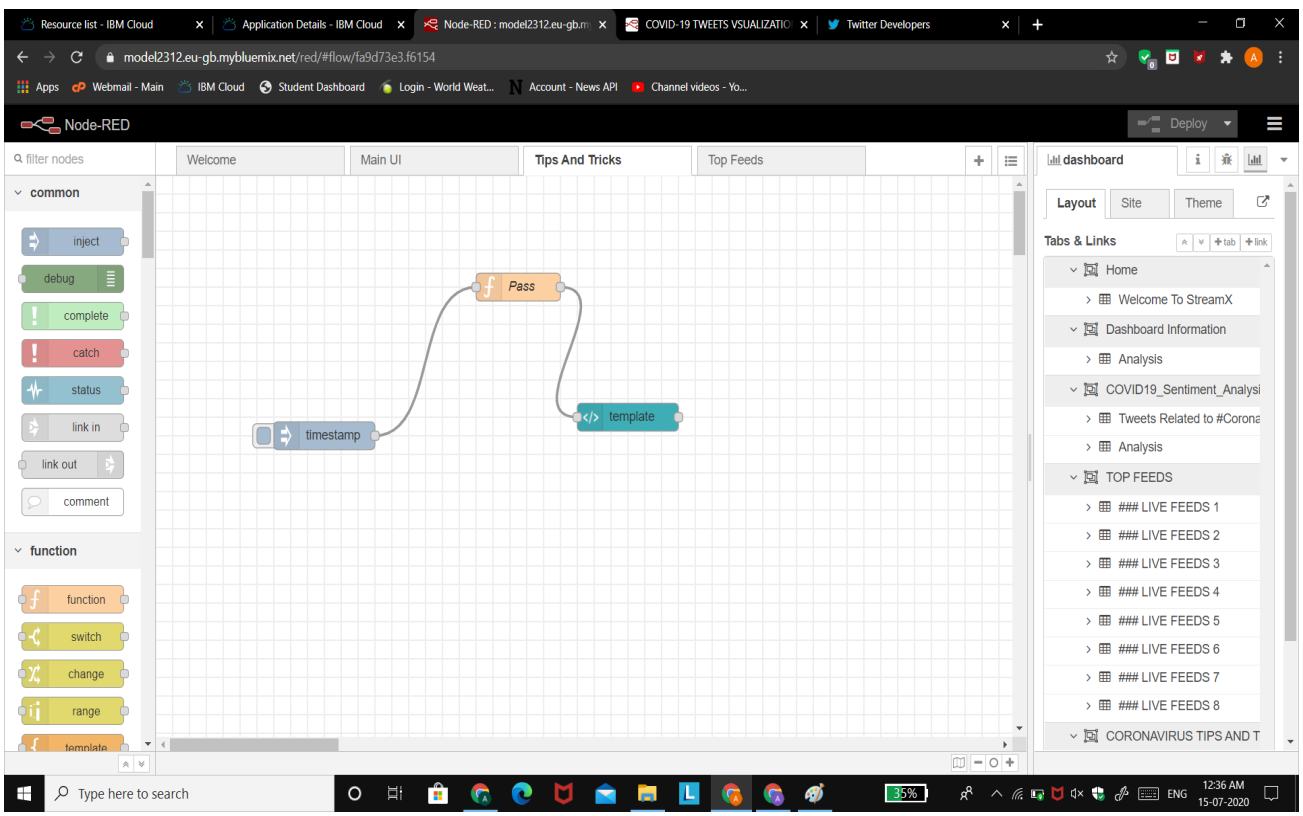


CONCEPTUALIZATION: (Main UI Flow)

The conceptualization tab explains the analysis of past hours and generates a complete report of the sentiment scores.

The following nodes have been added to this pallette:

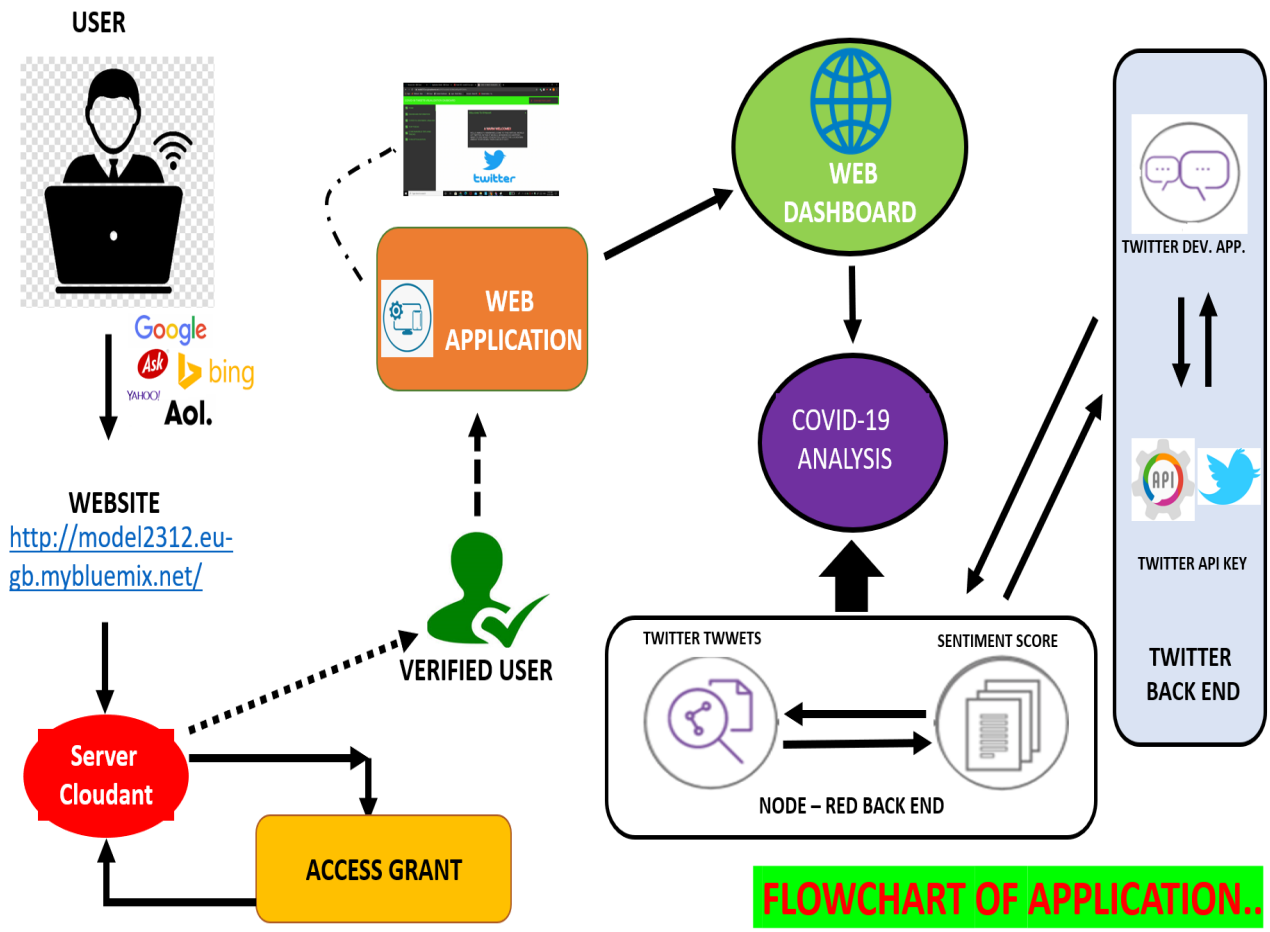
- Timestamp
- Template nodes
- Function Node



6. Flow-Chart Of the Project:

6.1 Flow-Chart Of The Project :

The flowchart is:



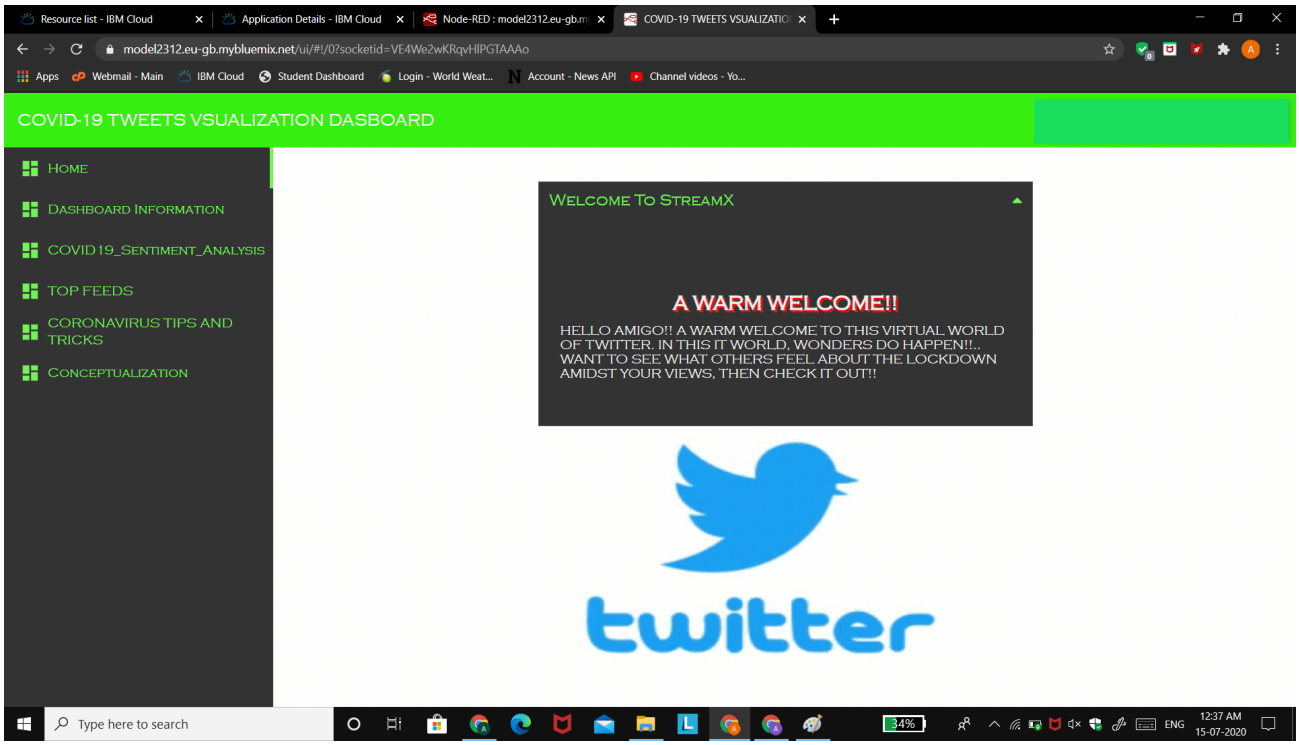
7. Result/Out-Come/Final Product:

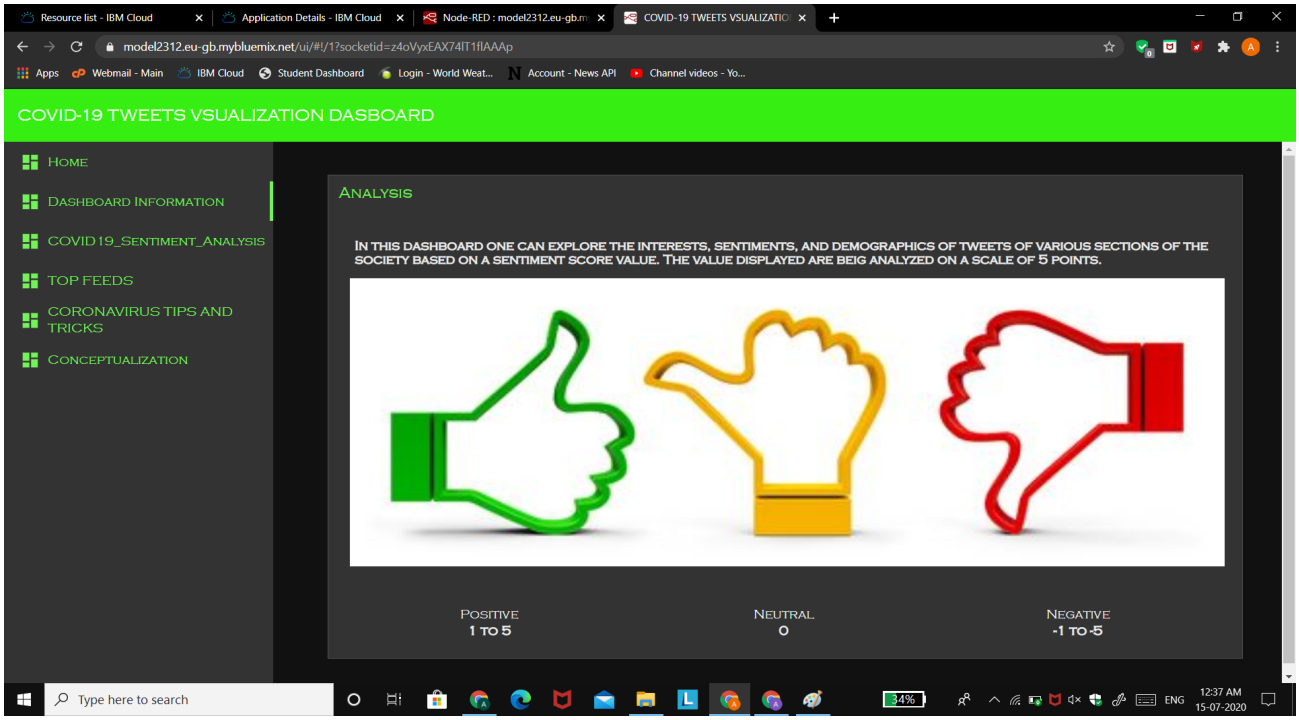
7.1 Link Of the Deployed Code :

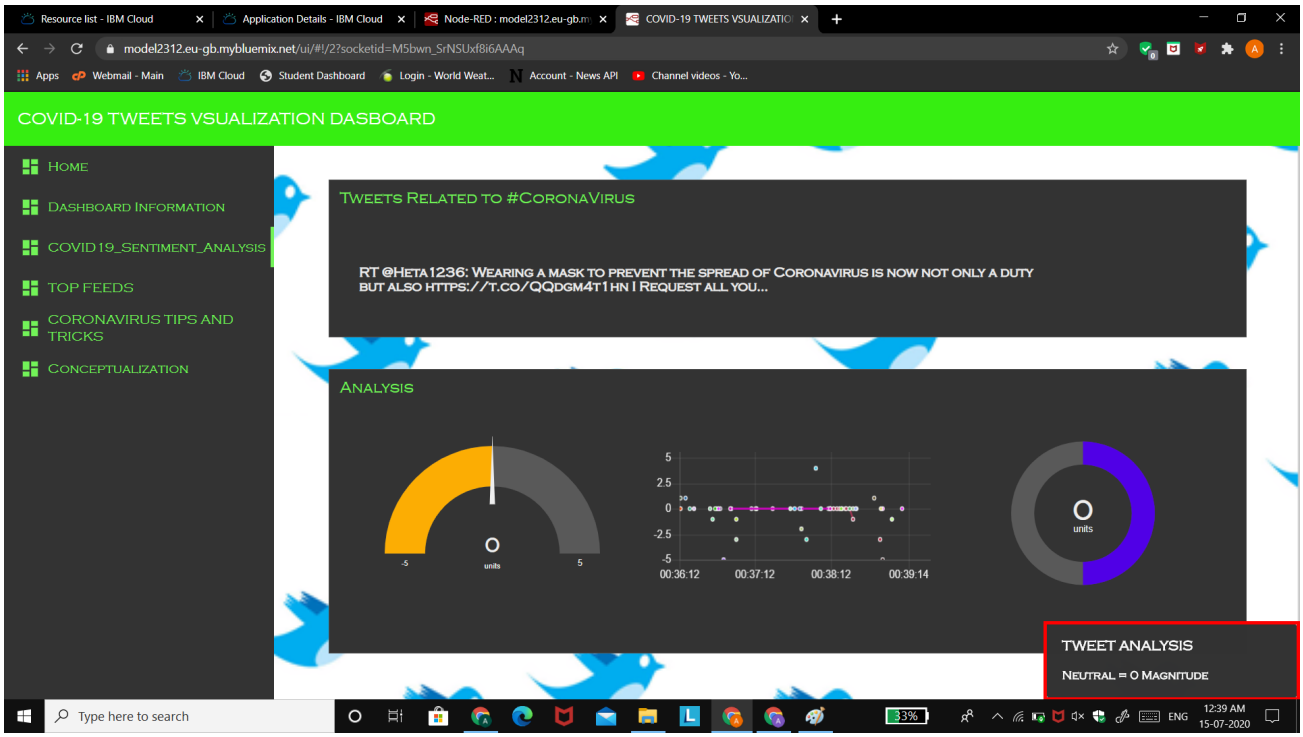
Finally our Node-RED dash board integrates all the components and displayed in the Dashboard UI by typing in browser.

Link: https://model2312.eu-gb.mybluemix.net/ui

7.2 Images Of The Deployed ChatBot: (Used-Cases):




COVID-19 TWEETS VSUALIZATION DASBOARD
HOME
DASHBOARD INFORMATION
COVID19_SENTIMENT_ANALYSIS
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
ANALYSIS
IN THIS DASHBOARD ONE CAN EXPLORE THE INTERESTS, SENTIMENTS, AND DEMOGRAPHICS OF TWEETS OF VARIOUS SECTIONS OF THE SOCIETY BASED ON A SENTIMENT SCORE VALUE. THE VALUE DISPLAYED ARE BEIG ANALYZED ON A SCALE OF 5 POINTS.
POSITIVE
1 TO 5
NEUTRAL
0
NEGATIVE
-1 TO -5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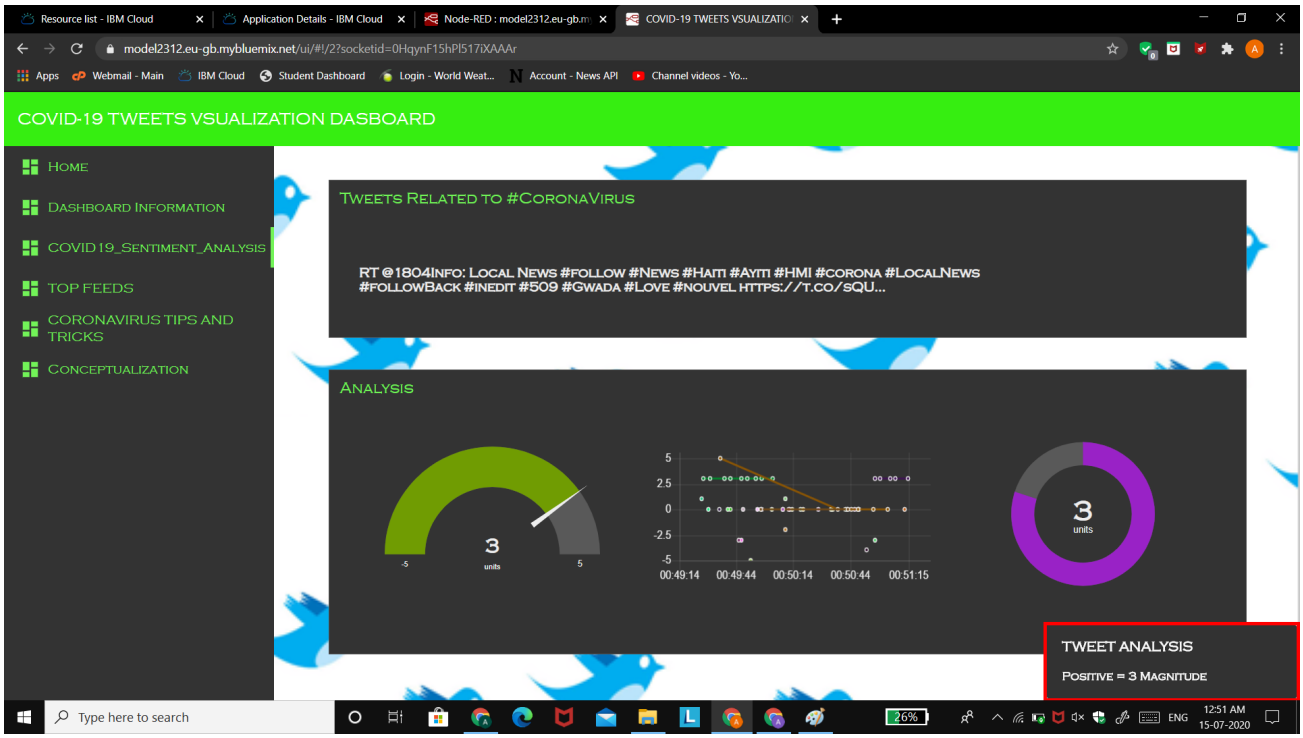
HOME
DASHBOARD INFORMATION
COVID19_SENTIMENT_ANALYSIS
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
TWEETS RELATED TO #CORONAVIRUS
RT @HETA1236: WEARING A MASK TO PREVENT THE SPREAD OF CORONAVIRUS IS NOW NOT ONLY A DUTY BUT ALSO HTTPS://T.CO/QQDGM4T1HN I REQUEST ALL YOU...
ANALYSIS
TWEET ANALYSIS
NEUTRAL = 0 MAGNITUDE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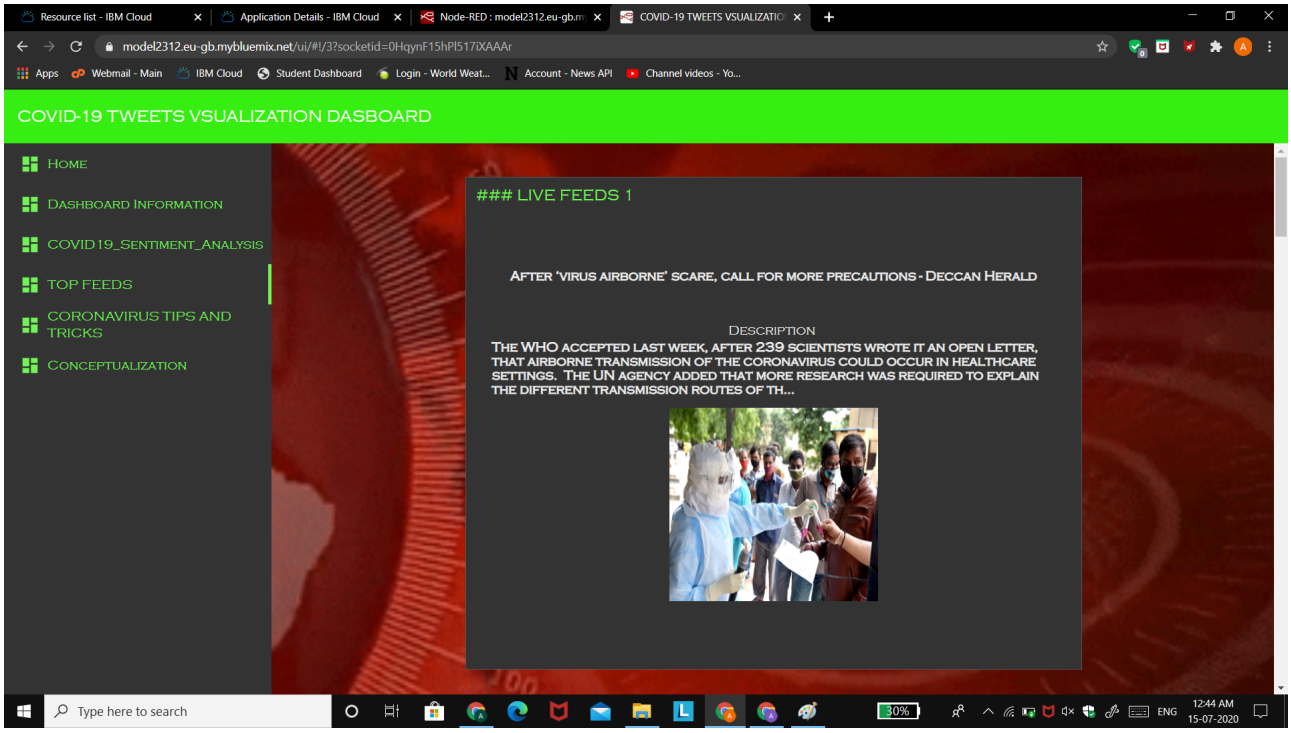
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
TWEETS RELATED TO #CORONAVIRUS
RT @1804INFO: LOCAL NEWS #FOLLOW #NEWS #HAITI #AYITI #HMI #CORONA #LOCALNEWS #FOLLOWBACK #INEDIT #509 #GWADA #LOVE #NOUVEL HTTPS://T.CO/SQU...
ANALYSIS
3
units
TWEET ANALYSIS
POSITIVE = 3 MAGNITUDE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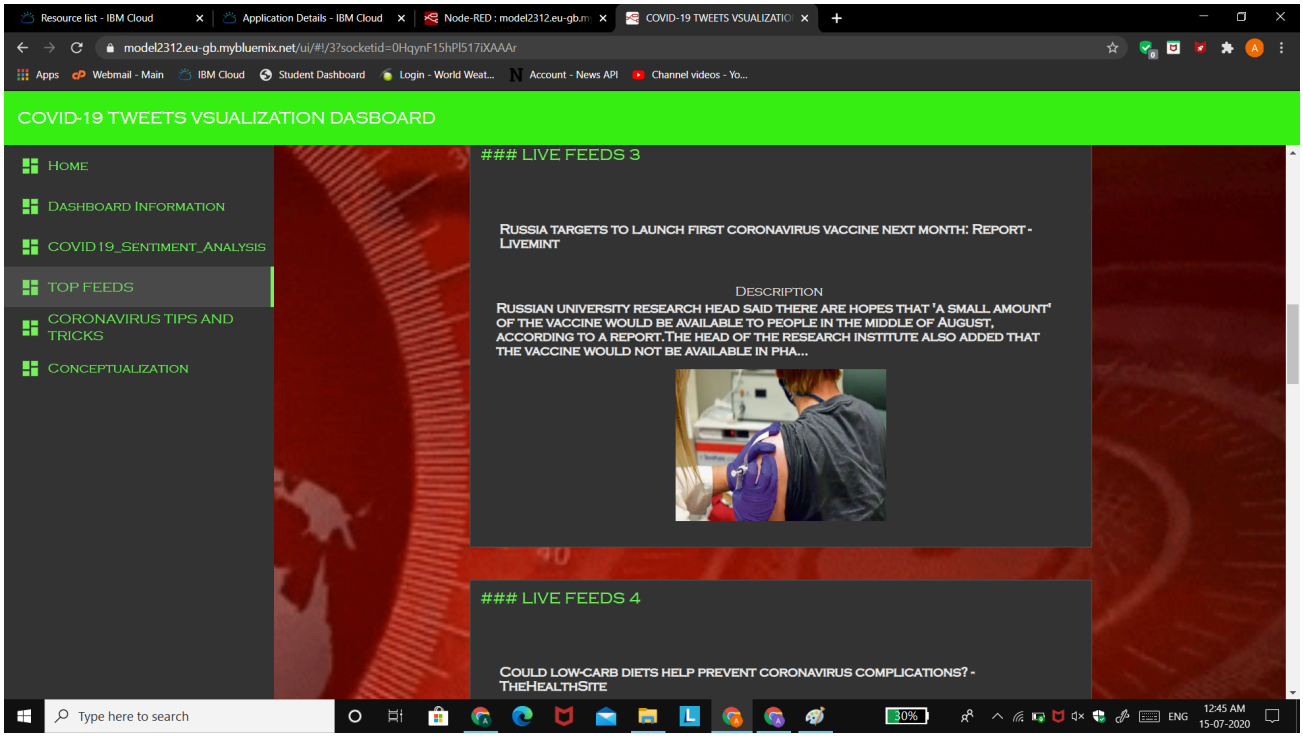
HOME
DASHBOARD INFORMATION
COVID19_SENTIMENT_ANALYSIS
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
LIVE FEEDS 1
AFTER 'VIRUS AIRBORNE' SCARE, CALL FOR MORE PRECAUTIONS - DECCAN HERALD
DESCRIPTION
THE WHO ACCEPTED LAST WEEK, AFTER 239 SCIENTISTS WROTE IT AN OPEN LETTER, THAT AIRBORNE TRANSMISSION OF THE CORONAVIRUS COULD OCCUR IN HEALTHCARE SETTINGS. THE UN AGENCY ADDED THAT MORE RESEARCH WAS REQUIRED TO EXPLAIN THE DIFFERENT TRANSMISSION ROUTES OF TH...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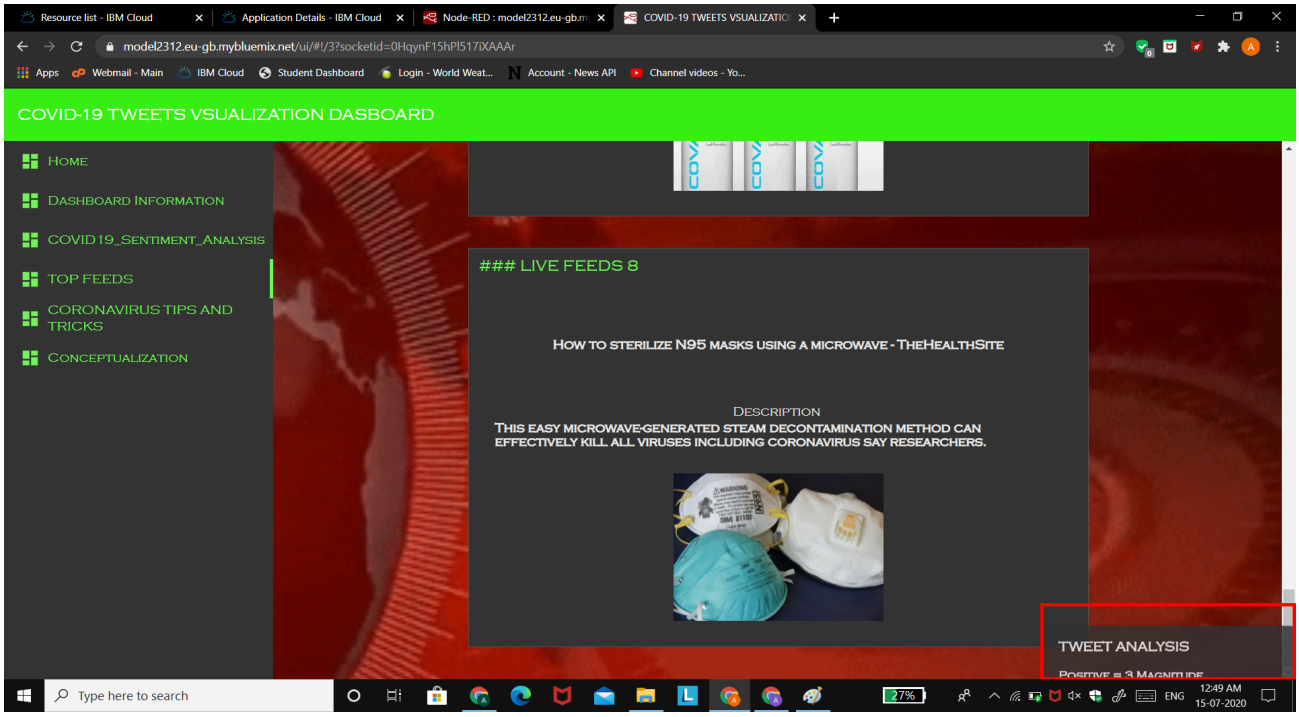
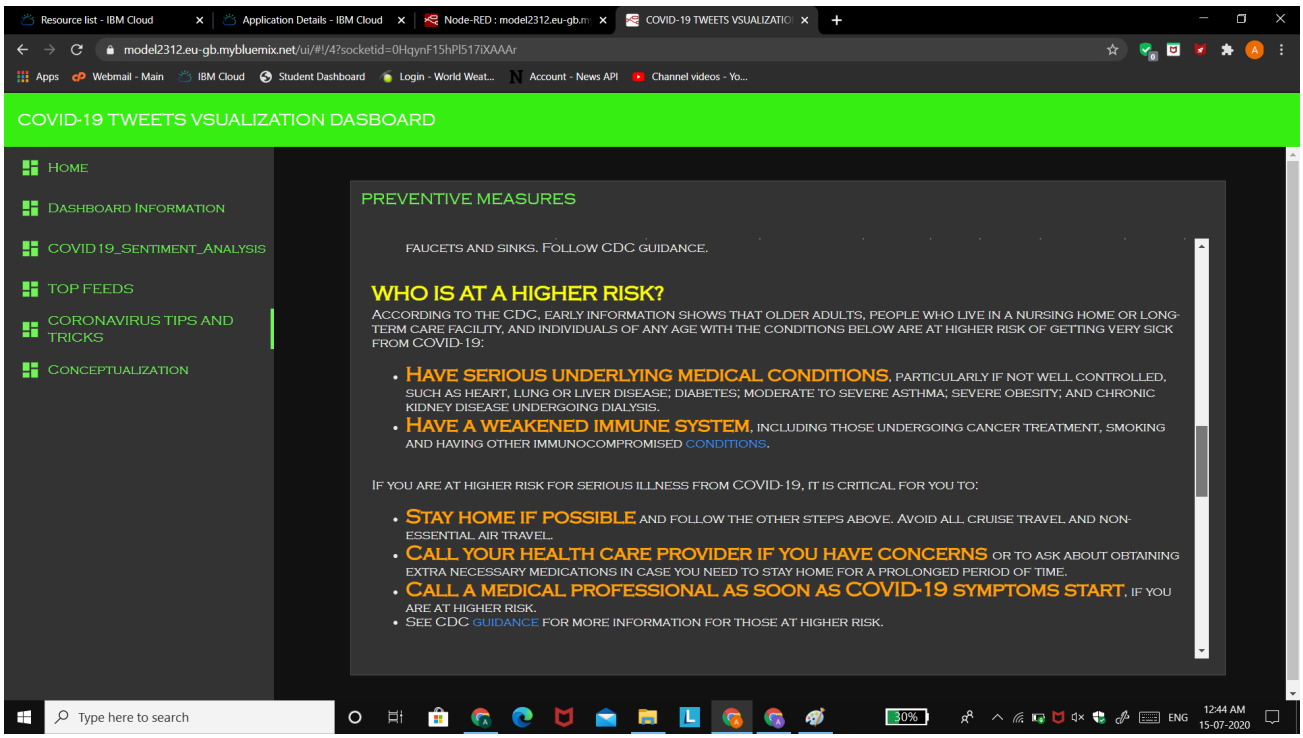
HOME
DASHBOARD INFORMATION
COVID19_SENTIMENT_ANALYSIS
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
LIVE FEEDS 3
RUSSIA TARGETS TO LAUNCH FIRST CORONAVIRUS VACCINE NEXT MONTH: REPORT - LIVEMINT
DESCRIPTION
RUSSIAN UNIVERSITY RESEARCH HEAD SAID THERE ARE HOPES THAT 'A SMALL AMOUNT' OF THE VACCINE WOULD BE AVAILABLE TO PEOPLE IN THE MIDDLE OF AUGUST, ACCORDING TO A REPORT.THE HEAD OF THE RESEARCH INSTITUTE ALSO ADDED THAT THE VACCINE WOULD NOT BE AVAILABLE IN PHA...
LIVE FEEDS 4
COULD LOW-CARB DIETS HELP PREVENT CORONAVIRUS COMPLICATIONS? - THEHEALTHSITE


COVID-19 TWEETS VSUALIZATION DASBOARD
HOME
DASHBOARD INFORMATION
COVID19_SENTIMENT_ANALYSIS
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
LIVE FEEDS 8
HOW TO STERILIZE N95 MASKS USING A MICROWAVE - THEHEALTHSITE
DESCRIPTION
THIS EASY MICROWAVE-GENERATED STEAM DECONTAMINATION METHOD CAN EFFECTIVELY KILL ALL VIRUSES INCLUDING CORONAVIRUS SAY RESEARCHERS.
TWEET ANALYSIS

COVID-19 TWEETS VSUALIZATION DASBOARD
HOME
DASHBOARD INFORMATION
COVID19_SENTIMENT_ANALYSIS
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
PREVENTIVE MEASURES
CORONAVIRUS SAFETY
American Red Cross
Follow these easy steps to help prevent the spread of COVID-19.
Disinfect surfaces around your home and work.
Wash your hands for at least 20 seconds.
Sneeze or cough? Cover your mouth.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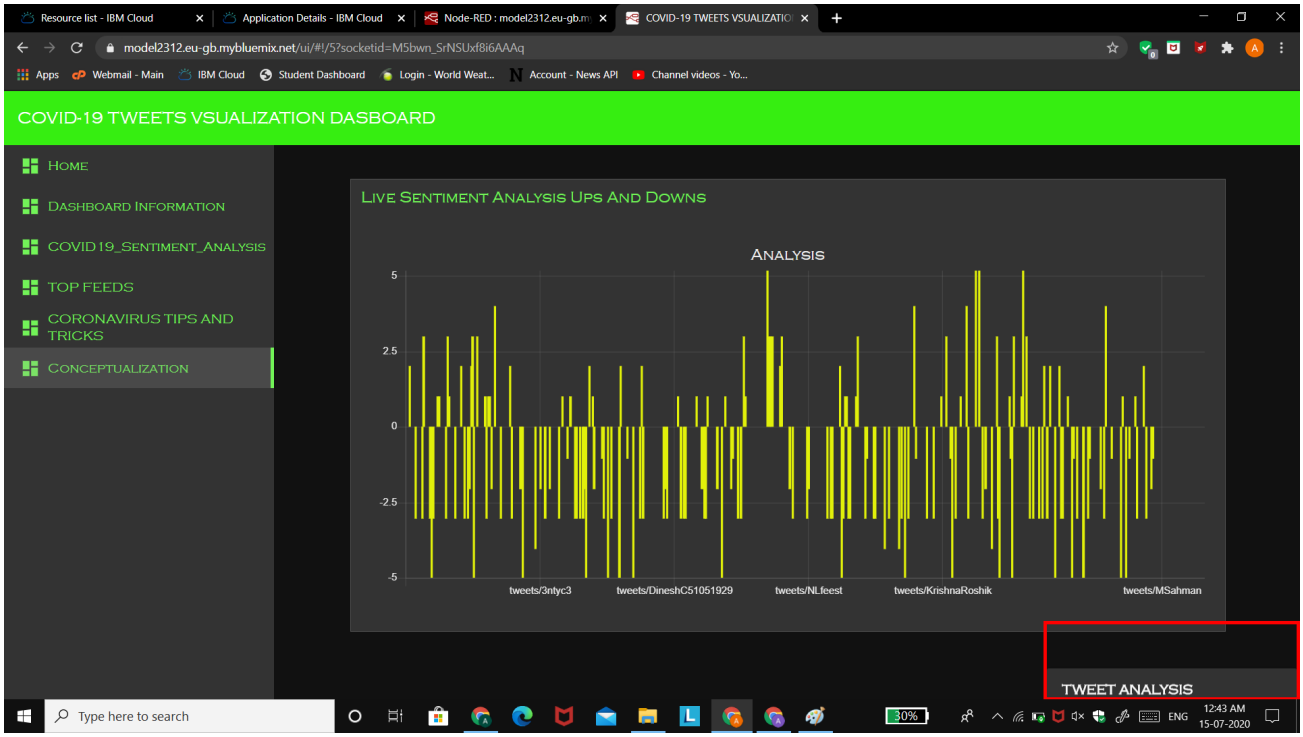
COVID19_SENTIMENT_ANALYSIS
TOP FEEDS
CORONAVIRUS TIPS AND TRICKS
CONCEPTUALIZATION
PREVENTIVE MEASURES
FAUCETS AND SINKS. FOLLOW CDC GUIDANCE.
WHO IS AT A HIGHER RISK?
ACCORDING TO THE CDC, EARLY INFORMATION SHOWS THAT OLDER ADULTS, PEOPLE WHO LIVE IN A NURSING HOME OR LONG-TERM CARE FACILITY, AND INDIVIDUALS OF ANY AGE WITH THE CONDITIONS BELOW ARE AT HIGHER RISK OF GETTING VERY SICK FROM COVID-19:
HAVE SERIOUS UNDERLYING MEDICAL CONDITIONS, PARTICULARLY IF NOT WELL CONTROLLED, SUCH AS HEART, LUNG OR LIVER DISEASE; DIABETES; MODERATE TO SEVERE ASTHMA; SEVERE OBESITY; AND CHRONIC KIDNEY DISEASE UNDERGOING DIALYSIS.
HAVE A WEAKENED IMMUNE SYSTEM, INCLUDING THOSE UNDERGOING CANCER TREATMENT, SMOKING AND HAVING OTHER IMMUNOCOMPROMISED CONDITIONS.
IF YOU ARE AT HIGHER RISK FOR SERIOUS ILLNESS FROM COVID-19, IT IS CRITICAL FOR YOU TO:
STAY HOME IF POSSIBLE AND FOLLOW THE OTHER STEPS ABOVE. AVOID ALL CRUISE TRAVEL AND NON-ESSENTIAL AIR TRAVEL.
CALL YOUR HEALTH CARE PROVIDER IF YOU HAVE CONCERNS OR TO ASK ABOUT OBTAINING EXTRA NECESSARY MEDICATIONS IN CASE YOU NEED TO STAY HOME FOR A PROLONGED PERIOD OF TIME.
CALL A MEDICAL PROFESSIONAL AS SOON AS COVID-19 SYMPTOMS START, IF YOU ARE AT HIGHER RISK.
SEE CDC GUIDANCE FOR MORE INFORMATION FOR THOSE AT HIGHER RISK.



8. Advantages & Disadvantages:

8.1 Advantages :

The advantages are as follows:

- The Dashboard analyzes to tweets that are not manually analyzable.
- It responds even to different languages.
- It returns sentiment based on a sentiment score as set-up contains the resulting AFINN-111 sentiment..
- No need to be proficient in any other language.

- Easy to use and has a friendly user interface to work with.
- Reduces man power
- Cost efficient
- No need to divert calls to multiple APIs

8.2 Disadvantages:

The disadvantages are as follows:

- Requires all services that handles requests and renders responses.
- Some times cannot connect to customer sentiments.
- A proper internet connection is needed to maintain the application.

9. Applications:

- Several companies can use the same service and deploy it, for various uses like checking their brand value, etc.
This would save time and money as it can analyze sentiments directly.
- The service can be provided to users in application along with other features.
- As the application is quite resilient in framework, so can be successfullyintegrated with ther applications.
- It would prove a great help for ministries to easily monitor the current sentiments of public.
- Live motivational lectures or yoga videos etc. can be featured in order to

help people motivate themselves.

10. Conclusion:

By doing the above project and all we successfully created a Covid-19 Visualization Dashboard, using Watson assistant, Twitter API key, Node-RED and cloud-functions.

With the help of Sentiment Understanding feature of Deployed Application the officials can monitor the current sentiments of people.

The experimental investigations showed the integration of different IBM cloud services. The results show that the responses from the Dashboard were relevant and helpful.

Although, the Dashboard demands complex integration of services it can be deployed easily to leverage the feature.

In conclusion, this project solves the problem of only returning response of "What is the sentiments of people towards lockdown?".

11. Future Scope:

We can include watson studio text to speech and speech to text

services to access the chatbot handsfree. This is one of the future scope of this project.

For future research can be guided to improve relevant results and response time. Simplification of integration of services can be achieved by reduction of api keys.

More attractive user-interface design can implement with help of node-red dashboard.
There can be storage of responses so that a monthly analysis could be presented.
More features of Watson Assistant can be implemented in Node-red so that there can be direct change to node-red flow.

12. Bibliography:

Below are the links that were referred to build the Chatbot:

a. To create meeting agenda
b. To createproject scope document
c. Knowing Slack
d. Knowing Zoho Writer
e. Creating IBM cloud account
f. Getting started with node-red
a. Getting started with Cloud Functions
g. Setting up Cloud Functions
h. To set up a Twitter APi key Service

13. Appendix:

13.1 Node-RED Code:

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\n</li>\n<li><b style=\"color:orange;\">Separate yourself from other people</b> in your home.
\n<ul>\n<li>Avoid sharing personal household items, such as dishes, drinking glasses, cups, eating utensils, towels or bedding. Wash items thoroughly after using them with soap and hot water.
\n</li>\n<li>On your own, clean and disinfect <a href=\"https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/steps-when-sick.html\" target=\"_blank\">high-touch surfaces</a> daily in your sick room and designated bathroom. Have a healthy household member do the same for surfaces in other parts of the home. If you are sharing a bathroom, clean and disinfect it after each use.
\n</li>\n</ul>\n</li>\n<li><b style=\"color:orange;\">Wear a cloth f*he online course takes approximately one hour to complete and includes content on recognizing stress as well as caring for yourself while supporting your family and coworkers. \n

\n <b style=\"color:yellow;\">FINDING UP-TO-DATE INFORMATION</b> \n Visit <a href=\"https://www.redcross.org/get-help/how-to-prepare-for-emergencies/types-of-emergencies/coronavirus-safety.html\" target=\"_blank\">redcross.org/coronavirus</a> for more information on COVID-19 safety. For the latest information, please visit the CDC website at <a href=\"http://www.cdc.gov/covid19\" target=\"_blank\">cdc.gov/covid19</a>. If you live outside the United States, health and safety tips can be found through the <a href=\"https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public\" target=\"_blank\">World Health Organization</a> and by following your local Red Cross or Red Crescent society's social media channels (<a href=\"https://media.ifrc.org/ifrc/who-we-are/national-societies/national-societies-directory/\" target=\"_blank\">directory</a>). \n\n \n \n </BODY>\n</HTML>","storeOutMessages":true,"fwdInMessages":true,"resendOnRefresh":true,"templateScope":"local","x":560,"y":260,"wires":[[]]},{"id":"f1a0db3b.b46a58","type":"ui_toast","z":"aec00211.4ad03","position":"bottom right","displayTime":"1","highlight":"red","sendall":true,"outputs":0,"ok":"OK","cancel":"","raw":true,"topic":"TWEET ANALYSIS","name":"","x":880,"y":320,"wires":[]},{"id":"6b607cba.174054","type":"ui_text","z":"aec00211.4ad03","group":"83cf5f51.65b33","order":3,"width":7,"height":1,"name":"","label":"Positive","format":"{{msg.payload}}","layout":"col-center","x":880,"y":540,"wires":[]},{"id":"2b0a2847.8e79e8","type":"ui_text","z":"aec00211.4ad03","group":"83cf5f51.65b33","order":4,"width":7,"height":1,"name":"","label":"Neutral","format":"{{msg.payload}}","layout":"col-center","x":560,"y":540,"wires":[]},{"id":"c2c88250.862ed","type":"ui_text","z":"aec00211.4ad03","group":"83cf5f51.65b33","order":5,"width":7,"height":1,"name":"","label":"Negative","format":"{{msg.payload}}","layout":"col-center","x":280,"y":540,"wires":[]},{"id":"48cd85ec.2da8ec","type":"ui_text","z":"aec00211.4ad03","group":"d88d6bcc.57d7f8","order":1,"width":17,"height":2,"name":"","label":"","for*messages":true,"resendOnRefresh":true,"templateScope":"local","x":800,"y":1440,"wires":[["71c1f1bc.c1bcd"]]},{"id":"1de8f307.1c83ed","type":"comment","z":"88516319.7439e","name":"LIVE NEWS AREA","info":"","x":590,"y":1180,"wires":[]},{"id":"ad3c219a.9677","type":"http request","z":"88516319.7439e","name":"","method":"GET","ret":"obj","paytoqs":false,"url":"https://newsapi.org/v2/top-headlines?country=in&category=health&q=corona&apiKey=e049fcb54bcf45d2bada1f6d792bfe3f","tls":"","persist":false,"proxy":"","authType":"","x":330,"y":1640,"wires":[["34f593fc.000dac","bdcec216.cab79","85e10f6e.4afe6"]]},{"id":"64535769.cff7e8","type":"inject","z":"88516319.7439e","name":"","topic":"","payload":"","payloadType":"date","repeat":"7200","crontab":"","once":false,"onceDelay":0.1,"x":110,"y":1580,"wires":[["ad3c219a.9677"]]},{"id":"34f593fc.000dac","type":"change","z":"88516319.7439e","name":"","rules":[{"t":"set","p":"payload","pt":"msg","to":"payload.articles[15].title","tot":"msg"}],"action":""*d2bada1f6d792bfe3f","tls":"","persist":false,"proxy":"","authType":"","x":330,"y":2080,"wires":[["a568e301.ba32e","855bb79f.f00dd8","9e85d2ff.de6cb"]]},{"id":"c4a3c2f5.3ff34","type":"inject","z":"88516319.7439e","name":"","topic":"","payload":"","payloadType":"date","repeat":"7200","crontab":"","once":false,"onceDelay":0.1,"x":110,"y":2020,"wires":[["e164fec6.ed27c"]]},{"id":"a568e301.ba32e","type":"change","z":"88516319.7439e","name":"","rules":[{"t":"set","p":"payload","pt":"msg","to":"payload.articles[2].title","tot":"msg"}],"action":"","property":"","from":"","to":"","reg":false,"x":540,"y":2120,"wires":[["ef89c51c.961e78"]]},{"id":"ef89c51c.961e78","type":"ui_text","z":"88516319.7439e","group":"a8723e8d.5db5e","order":1,"width":14,"height":2,"name":"","label":"","format":"{{msg.payload}}","layout":"row-center","x":770,"y":2120,"wires":[]},{"id":"855bb79f.f00dd8","type":"change","z":"88516319.7439e","name":"","rules":[{"t":"set","p":"payload","pt":"msg","to":"payload.articles[2].description","tot":"msg"}],"action":"","property":"","from":"","to":"","reg":false,"x":540,"y":2180,"wires":[["f0bea334.e90b5","c3e4f1d9.ee5e9"]]},

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