

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR



JYOTHI HILLS, VETTIKATTIRI P.O, CHERUTHURUTHY, THRISSUR. PIN-679531 PH: +91-4884-259000, 274423 FAX: 04884-274777

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QRT BOT

Group No.: 21

Department of CSE

Jyothi Engineering College

Thrissur

June 3, 2021



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Group Members

1. Joshua Joseph JEC17CS059

2. Josin George JEC17CS060

3. Sangeetha C P JEC17CS086

4. Shilpa Sivadas JEC17CS093

Guide: Mr. Unnikrishnan P (Assistant Professor)

GIT: https://github.com/ShilpaSivadas24/Group21 FinalProject





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Vision of the Department

• Creating eminent and ethical leaders in the domain of Computational Sciences through quality professional education with a focus on holistic learning and excellence.

Mission of the Department

- To create technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence.
- To prepare students for careers in Industry, Academia and the Government.
- To instill Entrepreneurial Orientation and research motivation among the students of the department.
- To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.





ESTED 2002

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Introduction

- The COVID-19 global pandemic has produced a human and economic crisis unlike any recent memory
- COVID-19 is killing people on a large scale
- COVID-19 results in psychological issues due to both pandemic stress and the physical affects of the disease
- Currently, there is a lot of misinformation and lack of awareness about COVID-19.





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Objectives

- Determine if a user has a high chance of being COVID-19 positive
- Allow users to interact with a chatbot which further analyses the users' emotion
- Raise awareness among people regarding COVID-19.





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Literature Survey

 Medbot: Conversational artificial intelligence powered chatbot for delivering tele-health after covid-19

Advantage:

- Available in many local dialects
 Disadvantage:
- Does not consider mental health
- 2. Sentiment analysis: Capturing favorability using natural language processing Advantage:
 - Uses simple algorithm compared to other sentimental analysis systems
 - Works with high accuracy

Disadvantage:

Cannot discern when word can have multiple meanings





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Literature Survey

3) Chatbot for Disease Prediction and Treatment Recommendation using Machine Learning Advantage:

 Alternative to the conventional method of visiting a hospital -making an appointment with a doctor to get diagnosis

Disadvantage:

Disease detection - less accurate

4)Compassion Driven Conversational Chatbot Aimed for better Mental Health Advantage:

Entirely free and available 24x7

Disadvantage:

Currently text-based interface





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Proposed System

A simple chatbot that effectively allow users to check if they have high chance of being Covid-19 positive and also provide health support / emotional support during quarantine.





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Functional Requirements

- User interface: The user interface module where the user needs to login.
- Data Pre-processing and Feature extraction: User replies are taken as input from the chat.
- Request analysis/Return response: The user is informed with preventive measures and other counter measures.

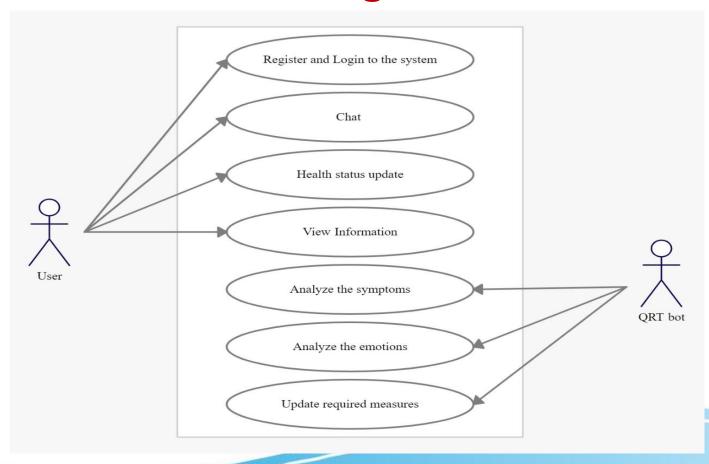


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UML Diagram





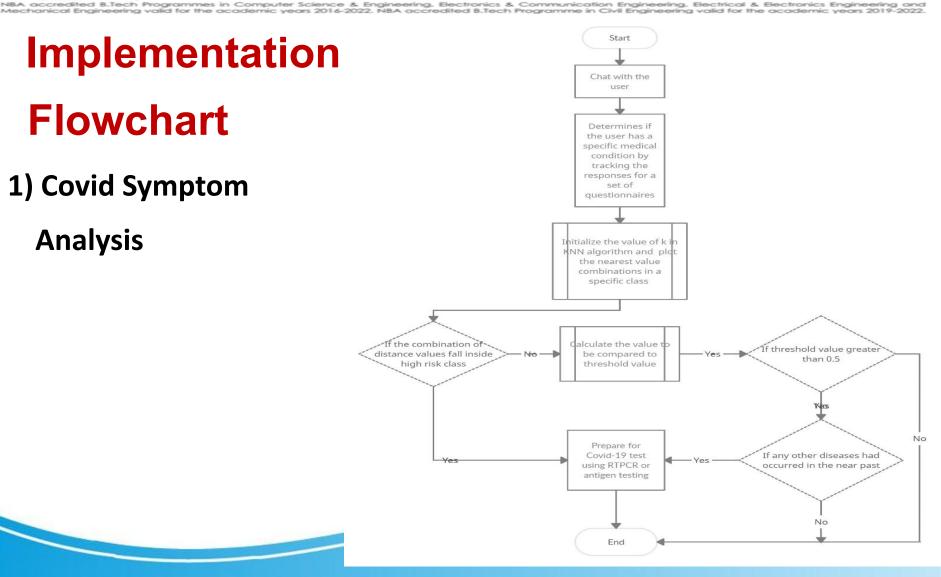
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Implementation Flowchart

1) Covid Symptom **Analysis**





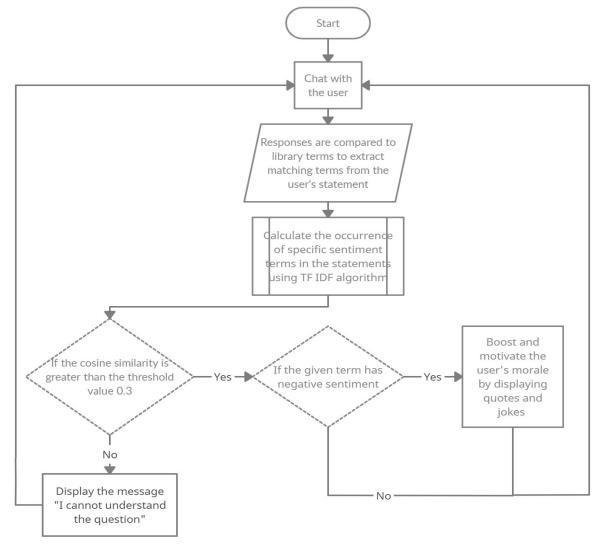
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2) Emotion Analysis







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Implementation

- User registers on chatbot application. They need to submit some personal details and health details which will be confidential
- The chatbot allows user to login to the system
- From the symptoms identified by the user, chatbot predicts whether he has to take a RT PCR test or not
- Chatbot recognizes users emotions through his chat replies and act accordingly.



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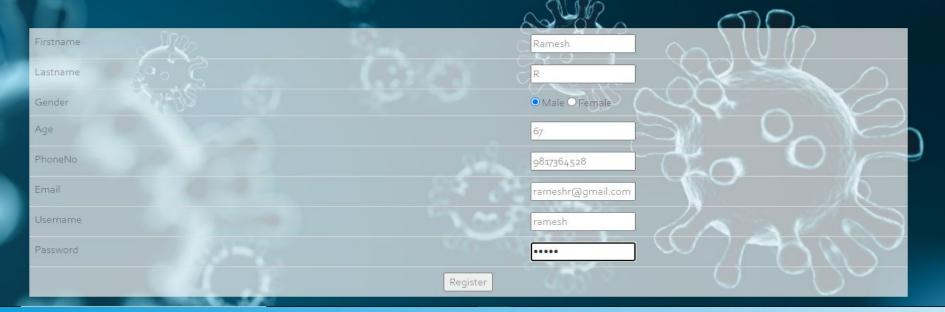
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Registration Page

QRTBOT

Hii there! Welcome to QRTBOT. I am here to help you understand covid-19 related issues. I can help you examine covid related symptoms





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Login Page





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Health Status Update







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Symptom Prediction

- We use K-nearest neighbor algorithm (KNN) for Symptom Prediction
- KNN identifies the symptoms from the interaction with the user
- Split the dataset into training and test sets with 80-20 ratio



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9	Hi !! Have you experienced the following symptoms in these past few days?	
	fever	
	I'm feeling slightly feverish	
	persistent_chest_pain	
	I felt a mild chest pain yesterday.	y C
7/-6	dry_cough	0
	I keep coughing terribly	





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```
app.py
            covid_19_result.csv
                                   all login.html
                                                  🚜 style.css
Plugins supporting *.csv files found.
         Fever, Tiredness, Dry Cough, Difficulty in Breathing,
         0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0
         0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
         1,1,1,1,1,0,1,1,1,0,1,0,0,1,1
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         1,1,1,1,1,0,1,1,1,1,0,1,1,0,0,0
```

```
if c[0] == '1':
  covid 19 result.csv
                       📇 login.html
                                     style.css
                                                  # FAQ.html
                                                                 📇 userhome.html
                                                                                   alindex.html
                  ↑ ↓ 🔘 👆 🦳 📉 🕎 🧧 Match Case 🗌 Words 🔲 Regex ?
if out[0] > 0.5 and outp is not None:
   return '''<script> alert("Currently no issues! But keep checking once you start experiencing these
```





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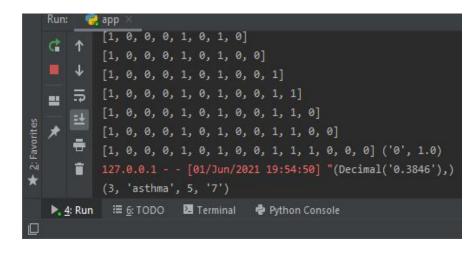
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127.0.0.1:5000 says

Get an RT-PCR test done as soon as possible!!

127.0.0.1:5000 says

Currently no issues! But keep checking once you start experiencing these symptoms.

OK





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Emotion Analysis

- We use Term Frequency-Inverse Document Frequency(TF-IDF) for emotion analysis
- The words are converted to vectors and Sentence matching is done using TF-IDF
- If the cosine similarity is greater than 0.3 the sentence is similar to the one in the dataset else not
- If the value of negative emotion is greater the reply is considered to be negative, chatbot cheers him up and if the value of positive and neutral emotion is greater, reply is positive it continues the chat.





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3 A 💾 🛊 🗟 🔡 🗏 🖺		Y	G ✓ Limit rov	vs First row 4 0 # of rows 100
question		ans	-(%)	negative_answer
7 Nice to meet you.	17B	Nice meeting you too	20B	Thank you
8 How do you do?	14B	I'm doing well. How are you?	28B	I'm doing well.
9 It is a pleasure to meet you.	29B	Thank you. You too.	19B	Thank you
10 Top of the morning to you!	26B	And the rest of the day to you.	31B	Thank you kindly.
11 What's up?	11B	The sky's up but I'm fine thanks. What about you?	49B	Not much.
12 let me ask you a question	25B	happily you	11B	Yaa
13 Not so great	12B	Okay	4B	How can I help you?
14 nice chatting with you	22B	You as well have a nice day	27B	Thank you
15 Have a great day!	17B	You too and a great day	23B	Thank you
16 I am afraid	11B	It's ok	7B	Try not to be too scared.
17 I feel like I am drowning.	26B	No worries!	11B	Put your thoughts to sleep. Do
18 I don't think I've ever moved so fast in a panic in all	64B	I am there	10B	I am here for you
19 Today was horrible and it was only half a day	46B	Chill!	6B	Just chill! everything is gonna
20 My anxiety is playing around HELP!!!!	38B	No worries	10B	Don't worry Whatever is good fo
21 My blood is boiling	19B	Calm down	9B	I know you are really angry rig
22 Im so angry	11B	relax	5B	Just relax everything is gonna
23 i feel furious	14B	It's okay!	10B	I completely understand you fee
24 So angry I wanna cry	20B	Just chill	10B	I can see you're upset. I'm sor
25 People irritate me	19B	alright	7B	You have every right to be anno
26 I'm so annoyed	14B	Relax	5B	Just relax everything is gonna
27 I am just so bitter today	25B	It's alright	12B	Just take a momentand a couple
28 I'm just still . So happy	26B	You are awesome!	16B	That's cool
29 My morning started off amazing!! Hopefully the whole day	85B	I'm always happy to see you:)	29B	OK!
30 Depression sucks!	18B	Don't worry	11B	Why don't you watch this movie

abase: ortbot Table: dataset



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8	Hi How can i help you	
G C	I'm feeling so annoyed	
	Just relax everything is gonna be alright.	
	I feel people irritate me a lot	
	You have every right to be annoyed but anything you say at the moment is a heat of the moment response. You might unintentionally hurt the people who care about you the most.	
A. A. A.	Can you suggest me something so that I can keep myself engaged? Might be some books.	0
• 7	I would suggest you start with something light and humorous. My suggestion would be Roald Dahl. He's witty and can make you laugh in seemingly impossible situations.	O



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(26, "I'm so annoyed", 'Relax', 'Just relax everything is gonna be alright.')
{'neg': 0.49, 'neu': 0.291, 'pos': 0.218, 'compound': -0.4341}

(25, 'People irritate me ', 'alright', 'You have every right to be annoyed but anything you say at the moment is a heat of the moment response. You might unintentionally hurt the {'neg': 0.412, 'neu': 0.588, 'pos': 0.0, 'compound': -0.4215}
, 'can you suggest some books?', "I would suggest you start with something light and humorous. My suggestion would be Roald Dahl. He's witty and can make you laugh in seemingly eg': 0.0, 'neu': 0.838, 'pos': 0.162, 'compound': 0.4019}

(55, "I'm so excited!", 'So happy to hear you!', 'Great')
{'neg': 0.0, 'neu': 0.401, 'pos': 0.599, 'compound': 0.4561}





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Application

- Website that anybody can visit, regardless of device
- Can see clear, objective facts about COVID-19
- Users can chat with chatbot and get mental relief.





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Conclusion

- Easy-to-access website with all functionality
- Inform people of best practices to battle COVID-19
- Can reduce strain on hospitals.





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Future Work

- Based on user's location, notify them the nearest test centers
- Informs user the availability of vaccine in nearby health centers or hospitals.



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Thank You