

## **G. Narayanamma Institute of Technology and Science (for women)**

### **EK BHARAT SHRESHTHA BHARAT – Poster Presentation Contest**

30-06-2020

The event held by the EBSB Club of GNITS during the academic year 2019-20 invited students and faculty at various educational institutes across the country, especially G. Narayanamma Institute of Technology and Science, Hyderabad, Telangana and Guru Gobind Singh College of Pharmacy, Yamuna, Haryana to submit Posters describing Science and Technological solutions to some of the problems faced because of the COVID-19 crisis across the country.

The event witnessed a registration of around 40 teams out of which 15 teams from both colleges as well as one team each from Andhra Pradesh and Punjab were able to send in their entries before the deadline of 30<sup>th</sup> June, 2020. The main aim of the exercise was to create awareness about the various problems being faced during the crisis and also think about ways to handle some of the problems.

One of the major evaluation criteria was the innovativeness of the solutions suggested for the identified problems. We were able to shortlist 7 entries for the final round and decided the best three posters as follows.

1st Prize - Padala Kavya, Naga Sai Sriya

2nd Prize - Harshitha Boddu, Grandhi Srivalli Sranya

3rd Prize - Peravali Apoorva

#### **Judges:**

1. Mr. B. Sreekanth Reddy, Assistant Professor, ECE, GNITS
2. Miss. Mamatha, Assistant Professor, EEE, GNITS

The following were some of the entries for the event.

### Team 1: Vocal for Local:

The presentation is titled "VOCAL FOR LOCAL" and is structured into six numbered steps, each with a corresponding visual element:

- 01 LOCATION:** A map of India with a red location pin and the text "Where are you located?".
- 02 PEOPLE:** A photograph of a cafe interior with the text "Hello, Future!".
- 03 COUNT AND CALCULATE:** An icon showing a group of stylized human figures.
- 04 PROFITS:** A bar chart with five bars of increasing height.
- 05 CONNECT:** A yellow map of India with a red location pin and a blue location pin.
- 06 HELP:** A flow diagram showing "vocal for local" leading to "business A" (with "AREA:" and "LOCATION:" labels), which then leads to "business A" (with "AREA:" and "LOCATION:" labels), and finally to "Business C is wants to contact with A. Government is ready to sponsor you."

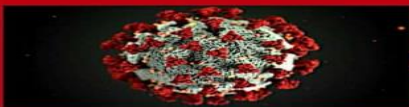



### Team 2: Care for You:

The posters for "CARE FOR YOU" include several hand-drawn diagrams and text:

- ML CYCLE:** A flowchart showing the process from "CHOOSING A MODEL" to "TRAINING THE DATA", "TESTING THE DATA", and "PREDICTING TOOL". It also includes "DECISION VISUALS", "HYPER PARAMETER TUNING", and "APPOINTMENT BOOKING". A central text box reads: "The users after taking the fast-track test on the website, all the high risk patients search for nearest COVID-19 test centers they have found the test centre and give their samples for testing. On an average it takes 3-5 days for the results to be generated. As the users as a suspected COVID-19 patient, to ensure self guarantee and the results will send text before maximum".
- VOLUNTEER REGISTRATION AND LOGIN:** A diagram showing a "NOTIFICATION SYSTEM" with a laptop icon and a text box: "After user login on the system, they receive an email notification regarding the availability of the test centers and the time at which they need to be there".
- COVID-19 TEST CENTRES:** A diagram showing a hospital building and a text box: "The users after taking the fast-track test on the website, all the high risk patients search for nearest COVID-19 test centers they have found the test centre and give their samples for testing. On an average it takes 3-5 days for the results to be generated. As the users as a suspected COVID-19 patient, to ensure self guarantee and the results will send text before maximum".
- COVID-19 TESTING:** A diagram showing a person at a testing station and a text box: "The users after taking the fast-track test on the website, all the high risk patients search for nearest COVID-19 test centers they have found the test centre and give their samples for testing. On an average it takes 3-5 days for the results to be generated. As the users as a suspected COVID-19 patient, to ensure self guarantee and the results will send text before maximum".
- CARE FOR YOU:** A central diagram showing a flow from "VOLUNTEER REGISTRATION AND LOGIN" to "NOTIFICATION SYSTEM" to "ML CYCLE" to "PREDICTING TOOL" to "APPOINTMENT BOOKING" to "COVID-19 TESTING" to "COVID-19 TEST CENTRES".
- Medical Appointment Form:** A form with fields for "MEDICAL NAME", "SHOP NAME", "PHONE NO.", "NAME OF THE MEDICINE", and "CHECK AVAILABILITY". It also includes a "MEDICAL FEEDBACK" section with "MEDICAL" and "PHYSICIAN" labels.

## Team 3: Smart Thermal Screening Glasses:

# STOP COVID-19

**• WHAT IS COVID-19 ?**  
 Coronavirus disease (COVID-19) is an infectious disease typically leading to an upper respiratory infection (URI). The COVID-19 virus spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes. At this time, there are no specific vaccines or treatments for COVID-19. As medical experts continue trying to help patients recover, countries have started a strict screening method to avoid the further spread of the disease. One of the screening methods is Thermal Screening.

**• TRANSMISSION OF COVID-19 THROUGH OUR DAILY LIFE**  
 Thermal screening is done at airports, temples, malls at checking points, through this COVID can be detected and cured for some extent. People are coming on roads for job work and to buy essentials. In this process they can't identify COVID infected person which leads to spread of corona person to person. To solve this problem we can use smart thermal screening method.

**• SMART THERMAL SCREENING GLASSES**  
 Now a days, Thermal screening has major key role in detecting COVID-19. Thermal screening is a process of detecting radiation, the amount of radiation emitted by an object increases with temperature. If someone has a fever, thermal screening will allow to detect them and they can further be tested for coronavirus. By using this concept we can use it in a smarter way to protect ourselves from COVID-19 i.e. by using smart thermal screening glasses. These glasses have a thermal imaging camera with sensors and circuits in a chip to create a usable image. The camera's lens focuses the infrared light being emitted by all of the objects. The focused light is then scanned by a phased array of infrared detectors. These detectors emit impulses and these impulses are sent to a circuit board with a specialized chip that translates the information from the detector elements into usable data for the image display, the usable data is sent via GSM. The GSM sends messages to your cell phone by this it alerts you from corona infected person. All we have to do is to wear these glasses before going out. It is simple but quite helpful. Through this transmission of covid-19 will decrease.

BY  
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## Team 4: Vocal for Local:

# GROCERIES TRACKING

DONE BY :  
 PADALA KAVYA AND NAGA SAI SRIYA  
 CSE A

