

System Programming Project

Topic: Covid Hospital Management System

Group number: 16

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Team Size: 3

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Aim of the proposed System

This system is designed for a single centre to accomplish the tasks required to conduct the testing process for a large number of persons arriving at the same time.

- The major purpose of this system is to imitate the testing and evaluation process.

People's treatment is ensured by keeping accurate records.

Throughout the procedure, data has to be stored and retrieved.

- Various mechanisms are employed depending on the situation, phase that is presently in progress

Requirements

This system is primarily designed for a single test centre that is solely responsible for administering the Covid-19 test.

- The initial responsibility of the system will be to register all those who have come for the test.
- After that, this system executes the testing phase, which includes keeping track of all those who test positive and negative.
- With testing teams in the centre, the process of testing people can be done at the same time.
- People are treated based on their test findings by accessing recorded data about available treatment-kits, beds, ventilators, and so on.
- Main department will not be included in the treatment phase unless some serious patient is being encountered, if this situation happens, then main process will be suspended till then.

- Throughout all processes, this system updates or creates necessary records.
 - At the end of the day, all of the detailed information from the previous day is displayed
- the records that have been saved.

Data Files which we used:

```

harshitos@harshitos-VirtualBox: ~/Desktop/dataFiles
harshitos@harshitos-VirtualBox:~/Desktop/dataFiles$ ls
Available_beds.txt  Home_quarantine.txt  ICU_Beds.txt          Positive_patients.txt
available_kits.txt  Hospitalize.txt       negative_patients.txt  Ventilators.txt
harshitos@harshitos-VirtualBox:~/Desktop/dataFiles$

```

System Process:

```

Activities  Terminal
harshitos@harshitos-VirtualBox: ~/Desktop
Adhar no -> 126621934544 is negative.
Adhar no -> 126009159256 is negative.
Adhar no -> 128511520176 is negative.
Adhar no -> 122828825152 is negative.
Adhar no -> 121739471864 is negative.
Adhar no -> 129212001900 is negative.
Adhar no -> 129087736254 is negative.
Adhar no -> 127864511706 is positive.
Adhar no -> 124578121615 is negative.
Adhar no -> 120896245735 is positive.
Adhar no -> 129976538353 is positive.
Adhar no -> 125335263463 is negative.
Adhar no -> 120228140972 is positive.
Adhar no -> 128934851050 is negative.
Adhar no -> 126377671250 is negative.
Adhar no -> 123518910807 is positive.
Adhar no -> 124828555576 is negative.
Adhar no -> 123723976580 is positive.
Adhar no -> 120617686759 is positive.
Adhar no -> 127924963300 is positive.
Adhar no -> 127793390492 is positive.
Adhar no -> 129510188583 is positive.
Adhar no -> 128240097855 is positive.
Adhar no -> 121105283256 is positive.
Adhar no -> 122758896205 is positive.
Adhar no -> 127058767643 is negative.
Adhar no -> 123097606429 is positive.
Adhar no -> 120855282647 is negative.

Number of Patients registered : 50
----Today's Data-----
Total Tests done : 50
Total Positive Cases : 27

Total Home-Quarantined Patients : 4
Total Available Kits at this point of time on our booth : 13219

Total Hospitalized Patients : 23
Total General-Ward Beds available in Hospital as per Our test booth testing : 58

Patients in ICU : 6 , from Which 3 patients are on Ventilators.
Total ICU beds Available in Hospital as per Our test booth testing : 50
Total Ventilators available in Hospital as per Our test booth testing : 36

----That's All-----
harshitos@harshitos-VirtualBox: ~/Desktop$

```