**DBMS PACKAGE TOPIC SUBMISSION**

**Topic : COVID-19 tracing system.**

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**Abstract:**

A COVID-19 tracing system with MySQL database in the backend and Python Tkinter UI in the front end which enables easy contact tracing of COVID positive citizens in a specific city.

Users of this application is classified as

1. Medical officials
2. Shop owners/ Bank Officials/ Other institutions
3. Common people

Each user will have their own user login to the application and each type of users will have different view.

**How the application works?**

The database will be initially populated with the details of people in a specific city (lets say Coimbatore) by the medical officials.

Every shops/banks/restaurants will be given this application to keep track of their daily customers. They will be keeping track of their customer’s entry time, exit time etc.

When a new user creates an account, they will asked to enter the details of their family members.

All the details will be shared with the medical officials and only medical officials can view the details of the users.

When a new person is tested positive for COVID-19, the medical officials update the database and mark the specific person as COVID positive.

When that happens, the shops or any other place that particular person had visited will be alerted and all the customers who had visited that particular shop during that time will also be alerted.

When such a case occurs, their family member’s travel history will also be tracked and their contacts will also be traced. More functionality will be added during development phase.

The application will be integrated with COVID-19 API which shows the current stats State/District wise.