

Department of Computer Science Delhi Technological University









HELLO!

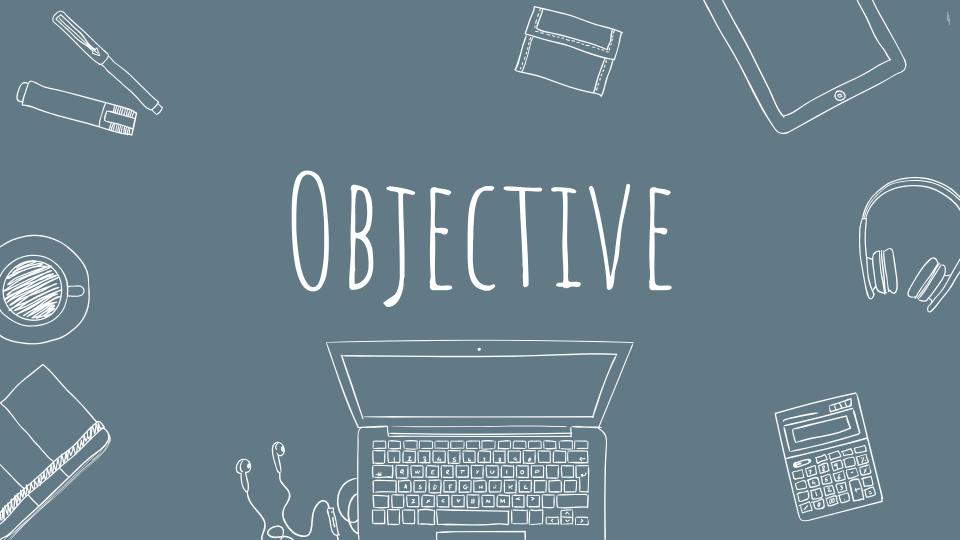
I, KUNAL SAINI

This is a presentation about my programming fundamentals project – *Vaccine Management System*

You can find me at: kunalsaini me20a9 52@dtu.ac.in





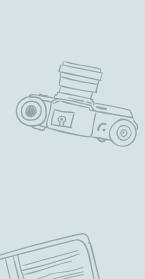


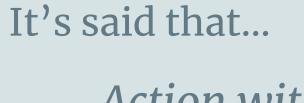
The aim of this project is to design a

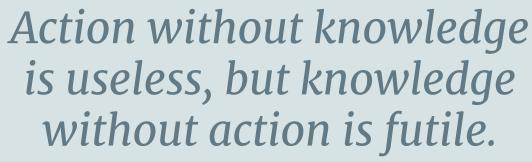
Vaccine Management System

for the newly found COVID-19 vaccination centers to facilitate the data management and handling of the data of the vaccinated people in and easy and secure manner.

















The world faced an unprecedented situation with the break in of the deadly pandemic

COVID-19.

Day to day life seemed to come to a halt.

Fortunately, now with the coming of the vaccine, the situation has become much better and things have started getting back normal again.

We've already lost a lot due to the pandemic. Thus, many vaccination centers have been setup to get the situations back to normal as soon as possible. These vaccination centers would need an easy to use yet efficient way to handle and manage the data of the people getting vaccinated.

Thus, as a student of Computer Science, although yet a beginner, I decided to take up this project to make an efficient database management system for the vaccination centers with proper security of the data and contribute my little bit to help the nation stand back again....





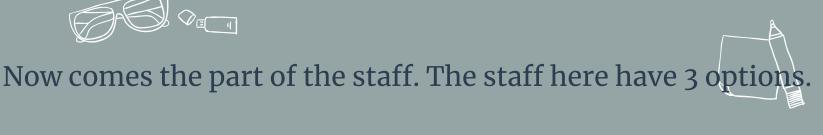




When it comes to file handling, C++ is a really efficient language and this was the reason to select C++ as the language for the program. Database Management Systems are easily made in C++ programming language because of it's modular nature and it's proximity to the Computer Hardware.



In the program, the Administrator has to first login and setup the system ready for use for the staff. The process is made secure with features like hiding the password with ***** and captcha verification. Too many failed attempts at the admin login would lead to getting blocked too.



Register for new staff

Login for existing staff

Forgot login credentials feature

Once the staff logs in successfully, he can now work with the actual database management system.



A user can search the data of the vaccinated people in several ways

- By Aadhaar Number
- By Age
- By Gender
- By past COVID history

And also the number of people vaccinated by that criteria.

The view vaccine option has primarily 2 features.

View the number of remaining vaccines.

The system issues a warning if the number of vaccines are running low.

Add more vaccines feature For when the centre receives more vaccines.

Data entry? Easy and error free...

Aadhar Number is ensured to be of the correct format.

The correctness of Aadhar number is a must.

if (Aadhar_ Number != Valid || Aadhar_Number == 'duplicate')

entry.deny



Ever seen a 11 digit mobile number with alphabets?

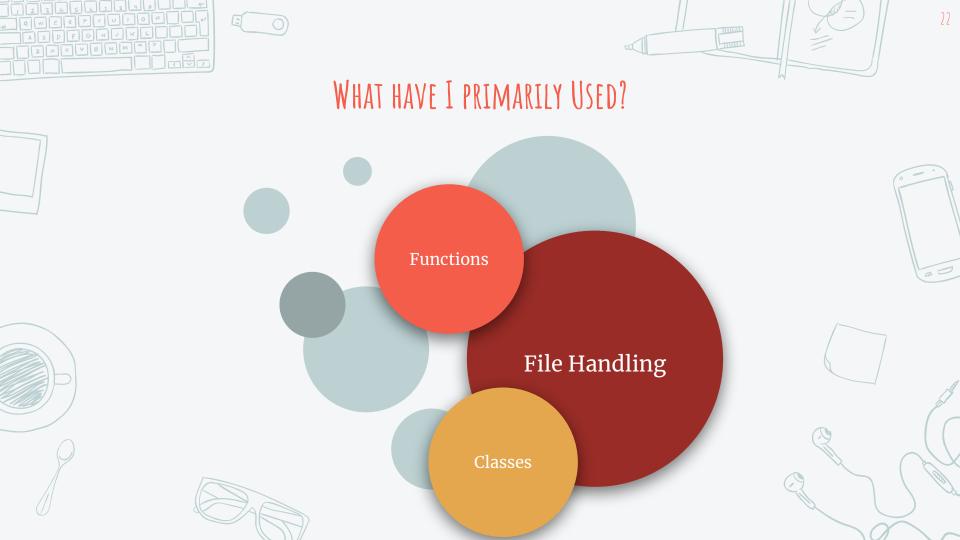
Nor will you with this program. It does not end at the vaccination afterall. We need to stay in touch:)



What does it mean if you enter a 't' to a Y|N question?

It would be better if you don't. This program won't let you.;)





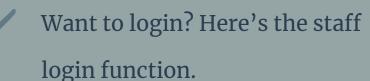
Function for this and function for that...

Function for everything..

Want to start? Not without the admin login function.



Number? Beware of the Aadhar number validation function.



Want to search? The search functions are here for you.

Want to update the vaccine status? Where are you "vaccine status" functions?



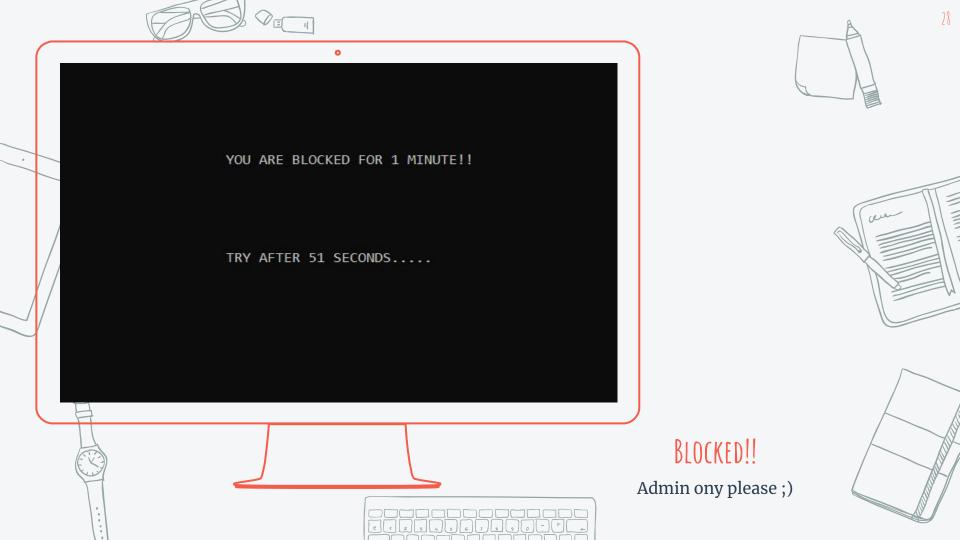


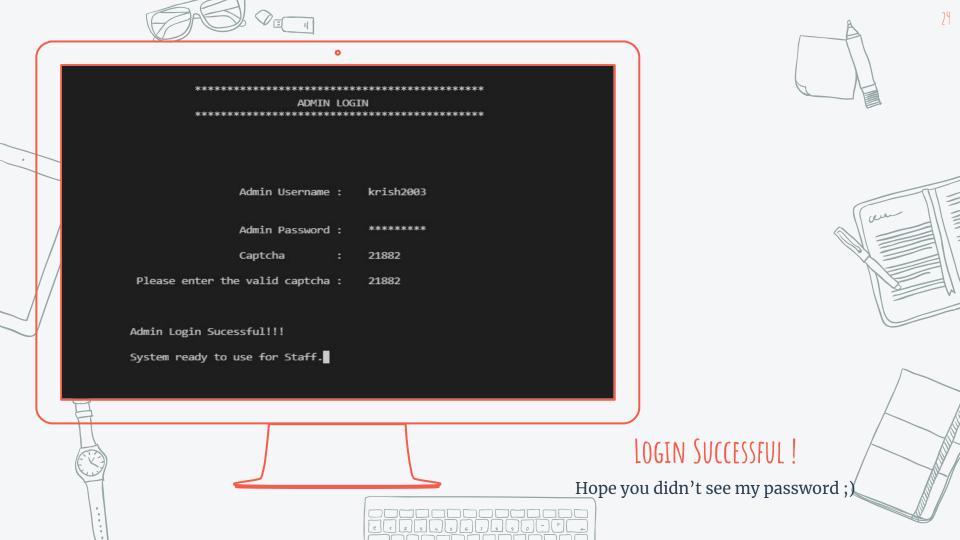
Feel free to Add / Search / View:)

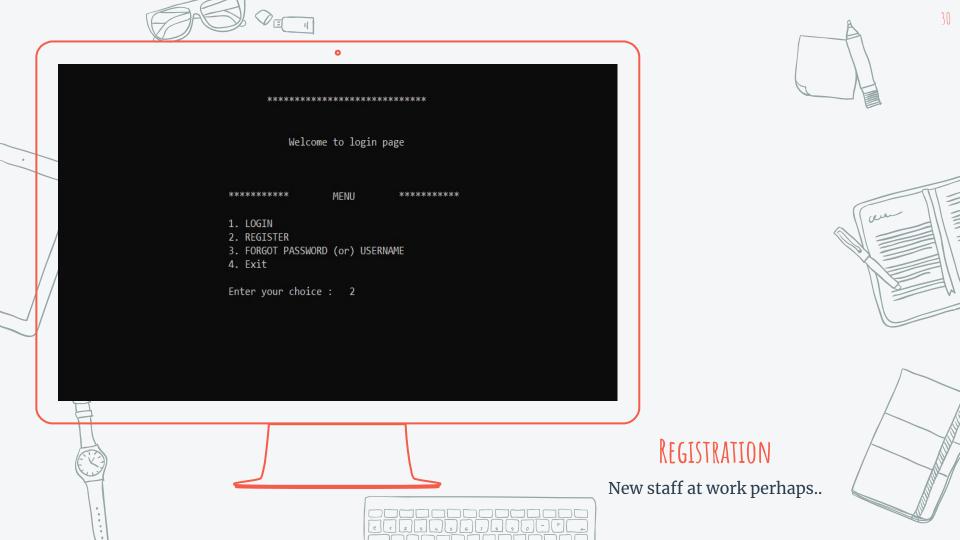


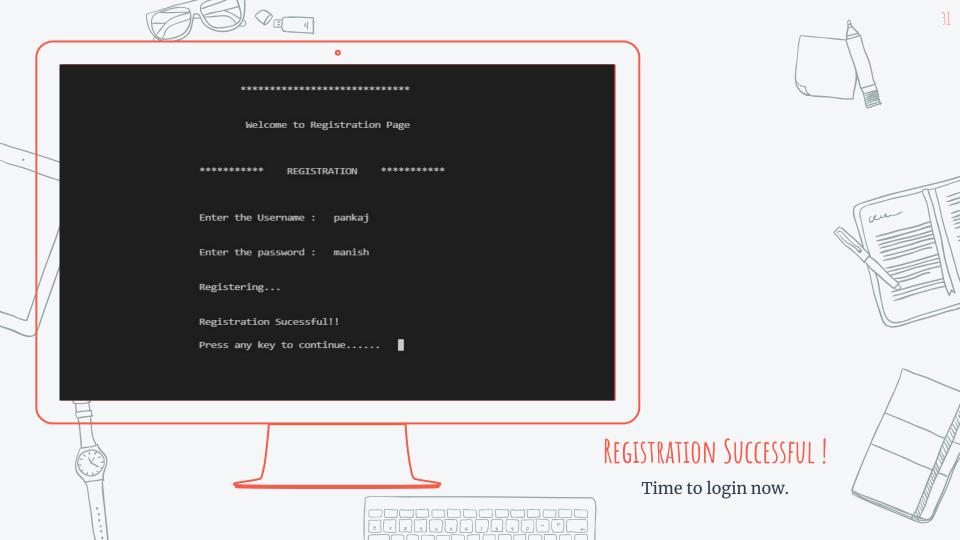


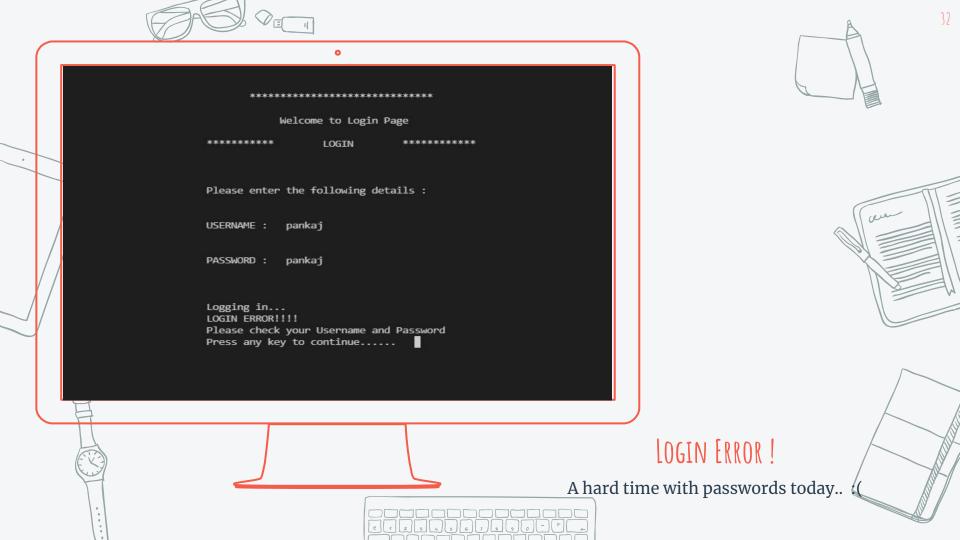


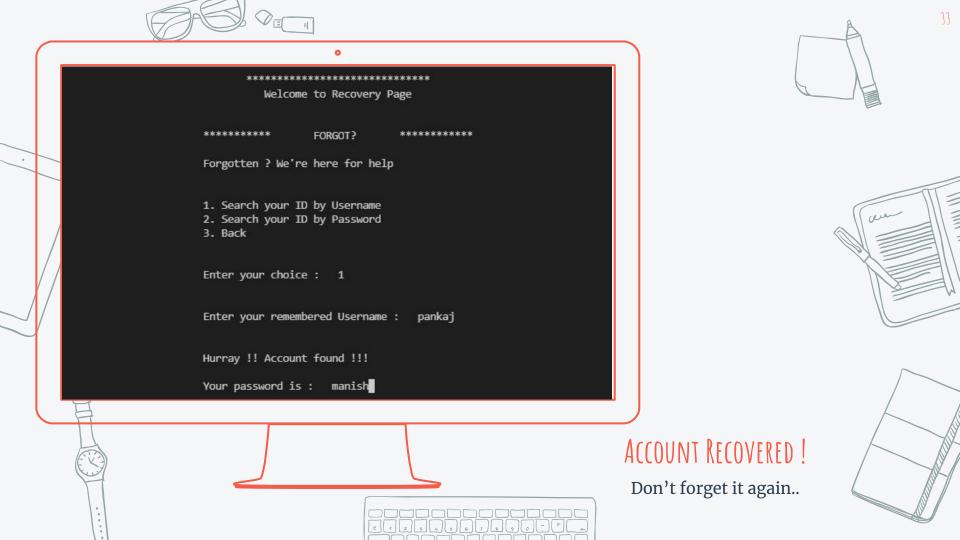


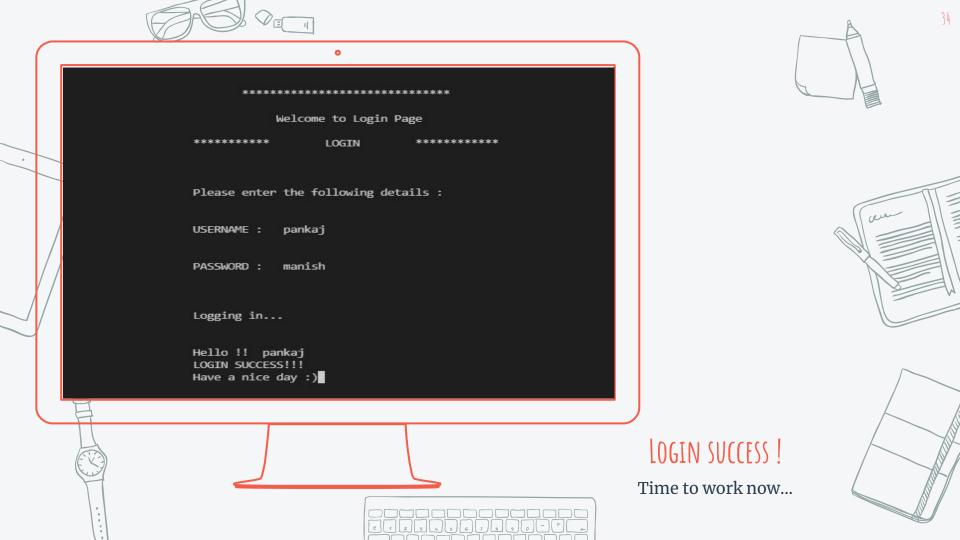








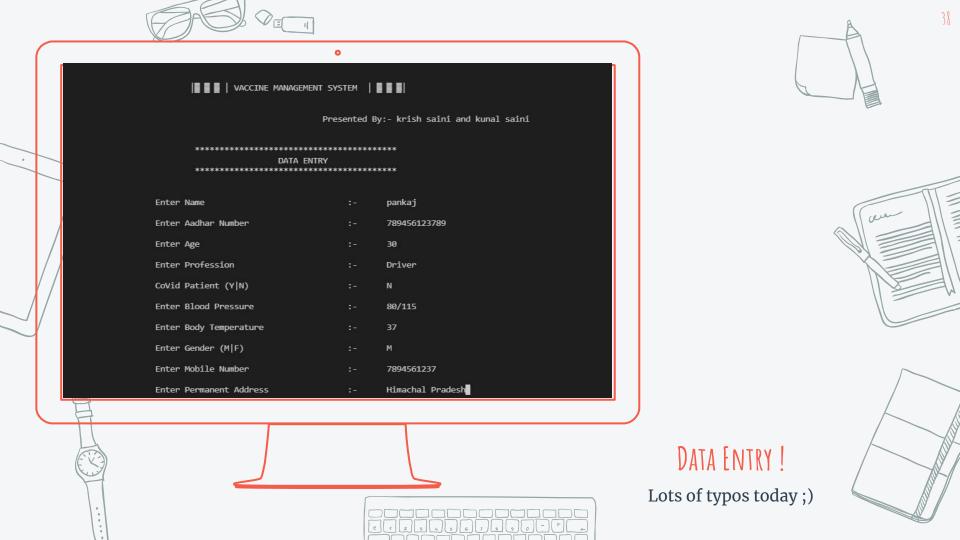




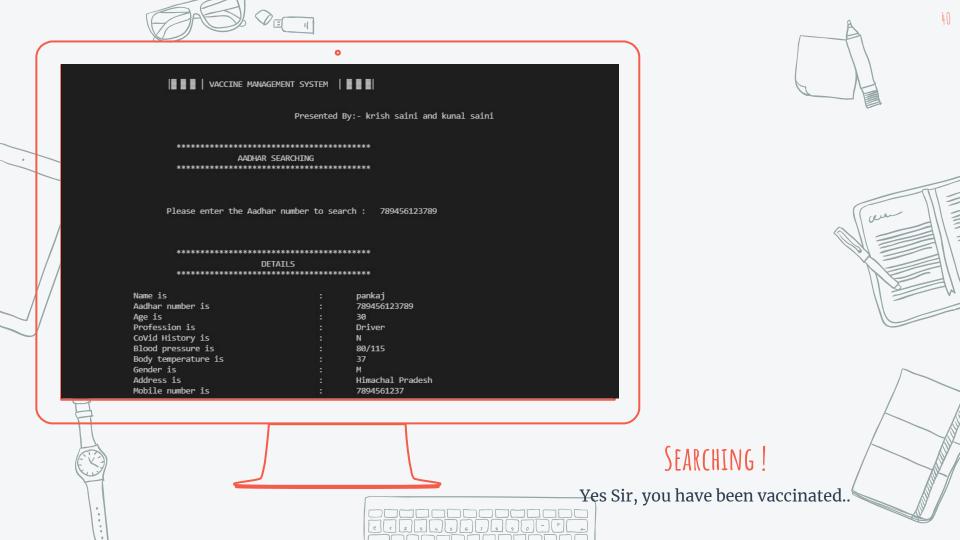


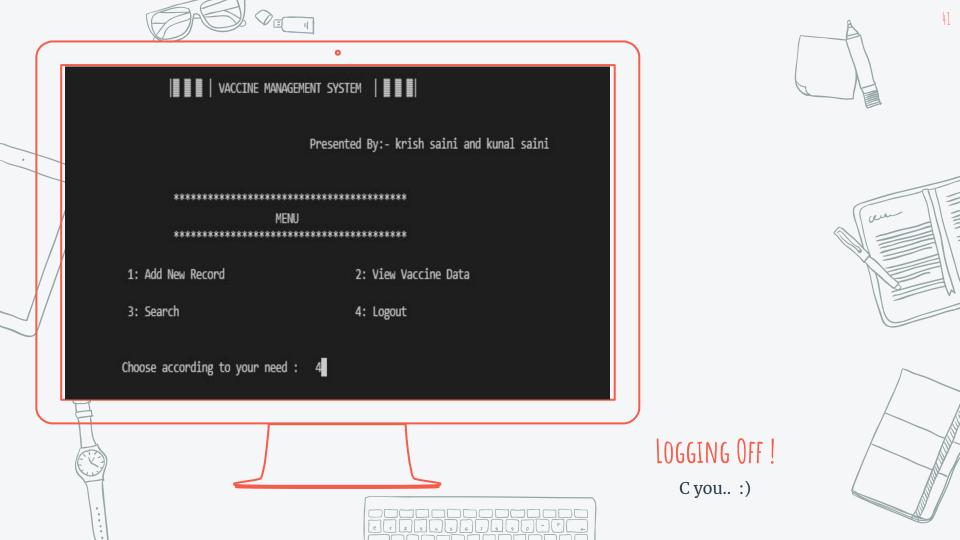
















A hospital does not have just CoVid wards.

As a part of a larger project, this can be merged along with the larger hospital database management system which covers all varieties of general wards too.

The record of staff wise number of records entered can be stored and used.

An app with a more interesting interface would be perfect:)











