



National University
of computer and emerging sciences

CS-2001

DATA STRUCTURE

“PROJECT REPORT”

PROJECT TITLE:

COVID-19 ANALYSIS

PROJECT MEMBERS :

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**Theory Instructor:
Instructor:**

Lab

**Ms. Anam Qureshi
Mohi**

Ms. Mafaza

INTRODUCTION :

The project name is “**COVID-19 ANALYSIS**”.

We Added the Data of Patient in a excel file and we add that data in AVL tree and we apply searching, addition and deletion of Patient Data.

We Added the Data of Pakistan's Covid Patient from different Cities and different hospital.

Data Structures Use :

- AVL Tree
- Stack

TOOLS & TECHNIQUE :

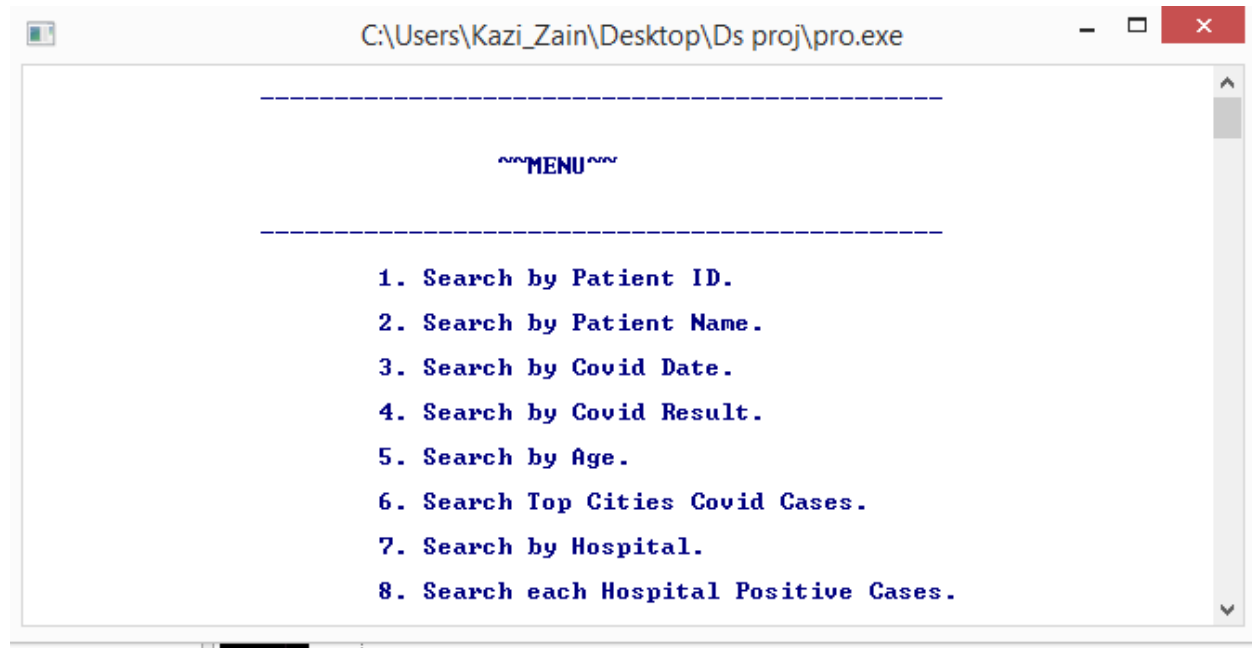
- Make own haderfile name Display.h
- Useing excel files
- Using Dev c++ for compiling and implementing
- Use the Library of Dev c++

FEATURES :

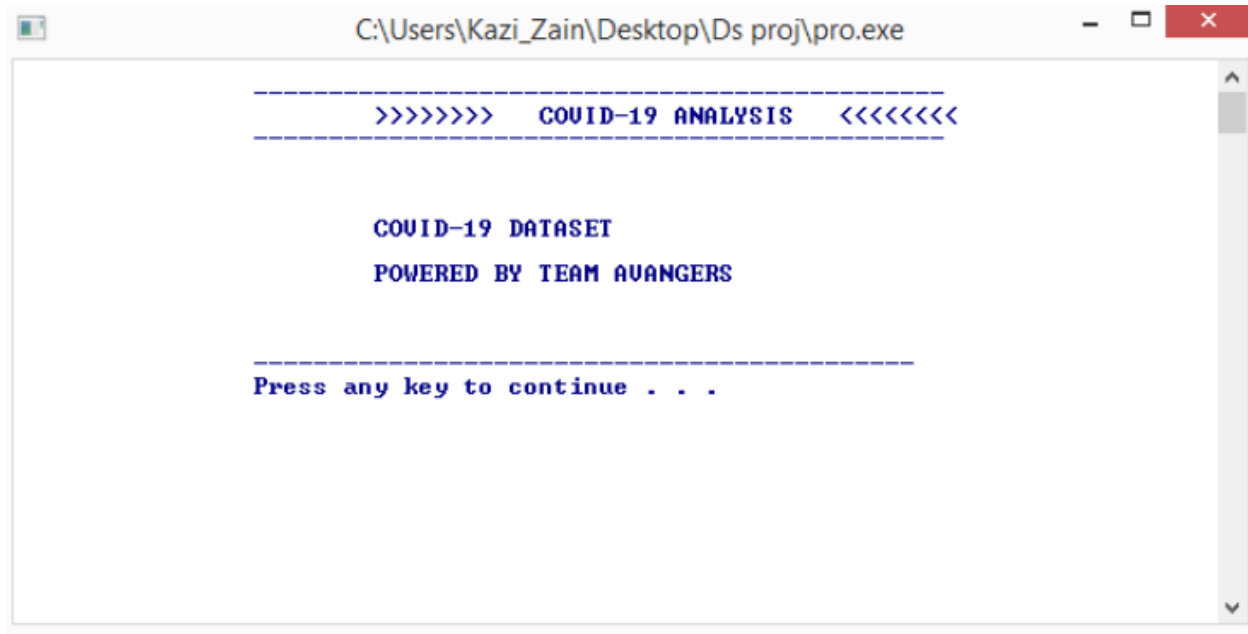
- Search Covid Patient data by Name and ID.
- Search Covid Data by Patient specific Age.
- Search Covid Patients in Cities.
- Search Covid Patients in Hospital.
- Search Positive Covid Patient in Hospital.
- Search Covid Case on Specific Date.
- Search All Covid Cases.
- Add Covid Patient Detail.
- Delete Covid Patient Detail.

MENU SCREEN

1.



2.



APPLICATIONS

This Project can be Implemented in the following Places.

- Digital Media.
- WHO COVID-19 Detail On Daily Basis.
- In Hospital COVID-19.

CONCLUSION:

The overall conclusion is that our Project having data of around 2000 people from Pakistan . We can add more data if we want . Furthermore , we use the Avl tree to improve the search as well as the function performance . We made around 12 functions in which we are performing the Different variety of function Ex: searching , adding , deleting and etc. . We save over data in 3 excel comma files . 1st has report , 2nd have time personal details and last one having doctor name and hospital name .