

# Objectives

The project which I have developed in my subject **Data Structures and Algorithms** is about **Corona Virus Patient Management System**. In a Management System there are two types of Patients we are dealing Corona Patient and Normal Patient. In Management System We Add Patient to our System, then check if he has Corona or not through immune level and Symptoms. If immune level is less than **10** and Symptoms are **fever, dry cough** etc. then he or she is Corona Patient.

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## Features of Corona Virus Patient Management System:

As my project is about Corona Virus Patient Management System so it is clear from the name that this system will have different information of Corona Patient. This system will be able to check any type of information given at the time of Patient Creation. From this management system, a Management can easily check the information about Patient whether he is Corona Patient or not. He can also be able to maintain, delete and update record of Patient, this management system can be used easily.

```
Login system  
First Register yourself  
Press 1 to login  
Press 2 to register  
Press 3 to exit
```

```
CRORNA PATIENT  
MANAGEMENT  
SYSTEM IN PAKISTAN  
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```

```
WELCOME TO CORONA PATIENT MANAGEMENT SYSTEM IN PAKISTAN  
Press 1. for Add Patient  
Press 2. for Checking Corona Virus Patient  
Press 3. for Delete Patient  
Press 4. for Modify Patient  
Press 5. for to Check Which City have more Patient  
Press 6. to Exit
```

This project has following features:

- Add Patient:

From using this management system, a Management can be able to create a new account for his Patient. New Add option will ask the for the **Patient ID** , **Patient Name** , **Patient Age** , **Patient Symptoms** , **Patient Immune Level** , **Patient Severity** , **Patient City** and save it in a **PatientFile** if Immune level is higher than 10 and Symptoms are normal otherwise add in **CoronaFile**.

- **For Normal Patient:**

```
Press 6. to EXIT
1
Enter ID of Patient
123

Enter Name
Ali Raza

Enter Age
23

Enter Symtoms for Corona Virus
flu

Enter Immune Level of your body
12

Enter Severity of Patient
low

Enter City from where u belong
Rwp
```

○ For Corona Patient:

```
Enter ID of Patient
124

Enter Name
Salman

Enter Age
27

Enter Symtoms for Corona Virus
fever

Enter Immune Level of your body
9

Enter Severity of Patient
high

Enter City from where u belong
Isb
```

### Checking for Corona Patient:

From this management system, a management can check no. of Corona Patient from overall Patient's data.

```
2
Press 01 to Exit

Corona Patient

Pateint ID      : 125
Patient Name    : salman
Patient Age     : 23
Symptoms of Patient : fever
Immune Level    : 9
Severity of Patient : high
Patient City    : Rwp

Pateint ID      : 129
Patient Name    : qasif
Patient Age     : 25
Symptoms of Patient : dry cough
Immune Level    : 8
Severity of Patient : high
Patient City    : Isb

Pateint ID      : 124
Patient Name    : Salman
Patient Age     : 27
Symptoms of Patient : fever
Immune Level    : 9
Severity of Patient : high
Patient City    : Isb
```

## Delete Patient:

From this management system, a management can delete Patient record by giving choice if he wants to delete record from **Patient File** or **Corona Patient file**.

### ○ For Corona Patient:

```
Press 1. for Delete Patient
Press 2. for Delete Corona Patient
Press 3. for Main Menu
2
Enter ID No. to delete Record of Corona Patient
124
```

After delete record of ID No. 124 from Corona Patient File:

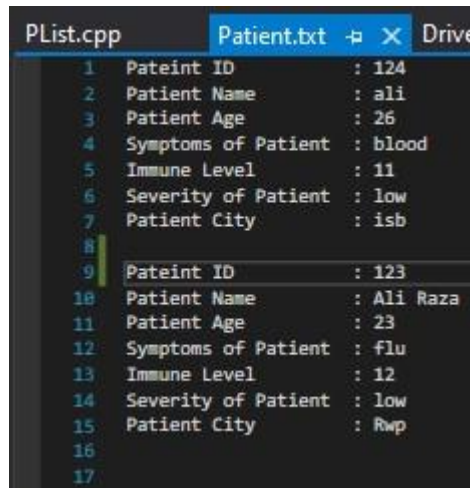
```
2
Corona Patient
Pateint ID      : 125
Patient Name    : salman
Patient Age     : 23
Symptoms of Patient : fever
Immune Level    : 9
Severity of Patient : high
Patient City    : Rwp
Pateint ID      : 129
Patient Name    : qasif
Patient Age     : 25
Symptoms of Patient : dry cough
Immune Level    : 8
Severity of Patient : high
Patient City    : Isb
```

## Modify Patient:

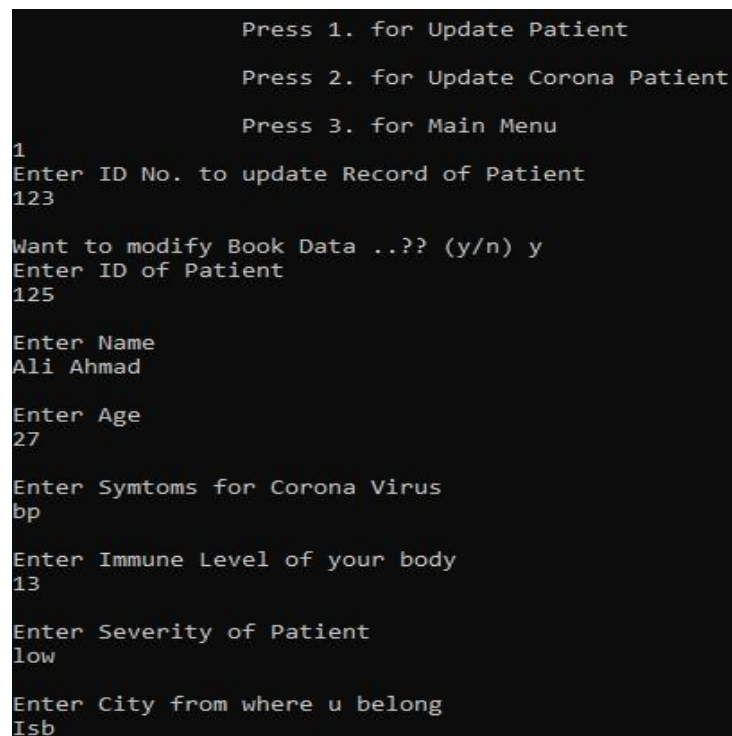
From this management system, a management can update Patient record by giving choice if he wants to update record from **Patient File** or **Corona Patient file**.

### ○ For Patient:

**Before Modification:**



```
PList.cpp Patient.txt -p X Drive
1 Pateint ID : 124
2 Patient Name : ali
3 Patient Age : 26
4 Symptoms of Patient : blood
5 Immune Level : 11
6 Severity of Patient : low
7 Patient City : isb
8
9 Pateint ID : 123
10 Patient Name : Ali Raza
11 Patient Age : 23
12 Symptoms of Patient : flu
13 Immune Level : 12
14 Severity of Patient : low
15 Patient City : Rwp
16
17
```



```
Press 1. for Update Patient
Press 2. for Update Corona Patient
Press 3. for Main Menu
1
Enter ID No. to update Record of Patient
123
Want to modify Book Data ..?? (y/n) y
Enter ID of Patient
125
Enter Name
Ali Ahmad
Enter Age
27
Enter Symtoms for Corona Virus
bp
Enter Immune Level of your body
13
Enter Severity of Patient
low
Enter City from where u belong
Isb
```



After Modification:

```
Patient.txt  Driver.cpp  CoronaPat
1  Pateint ID      : 124
2  Patient Name    : ali
3  Patient Age     : 26
4  Symptoms of Patient : blood
5  Immune Level    : 11
6  Severity of Patient : low
7  Patient City    : isb
8
9  Pateint ID      : 125
10 Patient Name    : Ali Ahmad
11 Patient Age     : 27
12 Symptoms of Patient : bp
13 Immune Level    : 13
14 Severity of Patient : low
15 Patient City    : Isb
16
```

○ For Corona Patient:

Before Modification:

```
CoronaPatient.txt  Patient.txt  Driver.cpp
1  Pateint ID      : 125
2  Patient Name    : salman
3  Patient Age     : 23
4  Symptoms of Patient : fever
5  Immune Level    : 9
6  Severity of Patient : high
7  Patient City    : Rwp
8
9  Pateint ID      : 129
10 Patient Name    : qasif
11 Patient Age     : 25
12 Symptoms of Patient : dry cough
13 Immune Level    : 8
14 Severity of Patient : high
15 Patient City    : Isb
16
17
18
```

```

Press 1. for Update Patient

Press 2. for Update Corona Patient

Press 3. for Main Menu
2
Enter ID No. to update Record of Patient
129

Want to modify Book Data ..?? (y/n) y
Enter ID of Patient
127

Enter Name
Hassan

Enter Age
19

Enter Symtoms for Corona Virus
fever

Enter Immune Level of your body
8

Enter Severity of Patient
high

Enter City from where u belong
Isb

```

**After Modification:**

| CoronaPatient.txt      | Patient.txt |
|------------------------|-------------|
| 1 Pateint ID           | : 125       |
| 2 Patient Name         | : salman    |
| 3 Patient Age          | : 23        |
| 4 Symptoms of Patient  | : fever     |
| 5 Immune Level         | : 9         |
| 6 Severity of Patient  | : high      |
| 7 Patient City         | : Rwp       |
| 8                      |             |
| 9 Pateint ID           | : 127       |
| 10 Patient Name        | : Hassan    |
| 11 Patient Age         | : 19        |
| 12 Symptoms of Patient | : fever     |
| 13 Immune Level        | : 8         |
| 14 Severity of Patient | : high      |
| 15 Patient City        | : Isb       |
| 16                     |             |
| 17                     |             |
| 18                     |             |

## Check which city have more Patient:

In our Management System we are deal with Only **Rawalpindi, Islamabad, Lahore** and **Multan** Patients

This function checks which city have more Patients...

```
1  Pateint ID      : 125
2  Patient Name    : salman
3  Patient Age     : 23
4  Symptoms of Patient : fever
5  Immune Level    : 9
6  Severity of Patient : high
7  Patient City    : Rwp
8
9  Pateint ID      : 127
10 Patient Name    : Hassan
11 Patient Age     : 19
12 Symptoms of Patient : fever
13 Immune Level    : 8
14 Severity of Patient : high
15 Patient City    : Isb
16
17 Pateint ID      : 130
18 Patient Name    : Raza
19 Patient Age     : 27
20 Symptoms of Patient : fever
21 Immune Level    : 7
22 Severity of Patient : high
23 Patient City    : Rwp
24
25
```

```
WELCOME TO CORONA PATIENT MANAGEMENT SYSTEM IN PAKISTAN

Press 1. for Add Patient
Press 2. for Checking Corona Virus Patient
Press 3. for Delete Patient
Press 4. for Modify Patient
Press 5. for to Check Which City have more Patient
Press 6. to Exit

5
Rwp have more patients.
Do you want to perform operations again press(y/n)
```

## Exit:

```
Thank You For using Our Management System...  
Press any key to continue . . .
```

## • UML Diagram:

