

# Vaccine MANAGEMENT SYSTEM



SUBMITTED BY

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# BASIC INFORMATION ABOUT OUR PROJECT

- ❑ We have designed this project as a prototype for a single Hospital or a Covid ward.
- ❑ It is designed using C++ programming Language, mainly we have used the file handling.
- ❑ We have given access to one **ADMIN** and one **GUEST**.
- ❑ The following are the inbuild login information:-

## ADMIN

Username: uname1

Password: 12345

## GUEST

Username: guest

Password: 67890

# WHAT IS VACCINE MANAGEMENT SYSTEM ??

- ❑ As the name suggests, the vaccine management system is software that handles all the data related to vaccination. The data contains the name of the persons who have taken the vaccine or want to opt for vaccination and also tells the current status of vaccine availability. Previously the task of handling the vaccination data was very difficult, so there was a need for software that can handle all the vaccination data.
- ❑ Therefore, the Vaccine Management System was designed. After the release of this system, the stress and workload of employees were absolutely finished. It was also time-wasting for the employees to handle the whole vaccination data with the help of a notebook. But now it hardly takes 5 to 10 minutes to search the [vaccination status](#) of a particular person.

# FEATURES OF OUR PROJECT

- ❑ Only an Admin and a Guest is able to login into the software.
- ❑ Admin/Guest has to enter the username, password and the captcha before accessing the data.
- ❑ The Project use the concept of file handling to store the vaccination data.
- ❑ Admin/Guest is able to create a new record of vaccination.
- ❑ All the vaccination status can be viewed at a time.
- ❑ There is a separate feature of search where admin/Guest can search a particular person very quickly.
- ❑ The entire rights are given to the admin as well as guest for adding, deleting and modifying the data.

# MODULES OF THE VACCINE MANAGEMENT

```
-----  
| VACCINE MANAGEMENT SYSTEM |  
-----
```

1. Enter New Record
2. Display Record
3. Modify Record
4. Search Record
5. Delete Record
6. Exit

```
-----  
Choose Option:[1/2/3/4/5/6]  
-----
```

# WORKING OF THE PROJECT

# MAIN SCREEN/LOGIN SCREEN

- ❑ When we run the project from any compiler ( We have used VS Code and Online Gdb compiler for our project) or directly click on the executable .cpp file we will see the Welcome login screen shown in the next slide.
- ❑ The software will ask us to fill up the username and password.

Enter the username to enter the domain: unamel

Enter the password to enter the system: 12345

Captcha Code: 1777433249

Input: 1777433249

Successfully Entered the Management...

Do you wish to see the number of slots of vaccine avaialbe (Y/N) ☐

Enter the username to enter the domain: guest

Enter the password to enter the system: 67890

Captcha Code: 1990493029

Input: 1990493029

Successfully Entered the Management...

Do you wish to continue: ☐



# PROCESSING IN THE LOGIN PAGE

- ❑ On the Login page, We have to enter the login credentials before accessing the data.
- ❑ The Admin has to first enter the username as "**uname1**" then password as "**12345**" and in case of the Guest, then one has to first enter the username as "guest" then password as "**67890**" and then enter the captcha i.e. numbers displayed on the screen.
- ❑ If the username, password and captcha match then only Admin/Guest will be successfully logged in to the dashboard.
- ❑ We have also added some security to the application. If the user other than Admin/Guest tries to log in then, the software will show "**Invalid details. Please try even after exiting...**".

Enter the username to enter the domain: iiitbbsr

Enter the password to enter the system: iprog2

Invalid details. Please try again after exiting...

...Program finished with exit code 0

Press ENTER to exit console.

Enter the username to enter the domain: unamel

Enter the password to enter the system: 12345

Captcha Code: 2087398256

Input: 1414346

Wrong Captcha...

...Program finished with exit code 0

Press ENTER to exit console.

# DASHBOARD

After the successful login of Admin/Guest,  
the dashboard screen will appear.

- ❑ We've displayed the menu of Add/ new record, Display vaccine data record , Modify data record, Search person record, delete record and exit. If you want to add a vaccination record the simply press 1, Similarly 2 for View Vaccine data, 3 for modifying a record, 4 for searching of person in record, 5 for deleting of record and 6 for exiting from the dashboard.
- ❑ Now we'll see each and every menu item in detail.

The background features abstract, overlapping geometric shapes in various shades of blue, ranging from light sky blue to deep navy blue. These shapes are primarily located on the right side of the frame, creating a modern, dynamic feel. The text is centered horizontally and positioned in the middle of the image.

WITH ADDITION OF VACCINATION  
SLOTS

Enter the username to enter the domain: unamel

Enter the password to enter the system: 12345

Captcha Code: 1577295374

Input: 1577295374

Successfully Entered the Management...

Do you wish to see the number of slots of vaccine available (Y/N) Y

The available slots are: 200

Do you wish to add slots of vaccine available (Y/N) Y

The amount to be added: 50

Slot Amount updated successfully

Do you wish to continue: Y

Output



Appearing  
Next

-----  
VACCINE MANAGEMENT SYSTEM

1. Enter New Record
2. Display Record
3. Modify Record
4. Search Record
5. Delete Record
6. Exit

-----  
Choose Option:[1/2/3/4/5/6]  
-----

WITHOUT ADDITION OF  
VACCINATION SLOTS

Enter the username to enter the domain: uname1

Enter the password to enter the system: 12345

Captcha Code: 1530419548

Input: 1530419548

Successfully Entered the Management...

Do you wish to see the number of slots of vaccine avaialbe (Y/N) Y

The available slots are: 200

Do you wish to add slots of vaccine avaialbe (Y/N) N

Do you wish to continue: Y

-----  
VACCINE MANAGEMENT SYSTEM

1. Enter New Record
2. Display Record
3. Modify Record
4. Search Record
5. Delete Record
6. Exit

-----  
Choose Option:[1/2/3/4/5/6]  
-----



# INSERTION OF NEW RECORD

- ❑ In this section, the admin can add a number of records of persons.
- ❑ While adding a new record the software will ask for the following information of person:  
Name of the person, Aadhar Number, Person's Gender, Age, Email Id, Address, Contact Number.
- ❑ After entering the above information the new record will be successfully added to the database.
- ❑ There is also an option to add more and more of new person record so, if the Admin/Guest want then they can add new record when needed otherwise keep it as it is.
- ❑ In case we press N for No to add, the Dashboard will be shown again.
- ❑ All those will be recorded in vaccineRecord.txt.

Enter Your Choice: 1

File: list: not found

---

----- Add Vaccine Details -----

Enter Name: Sudip

Enter Aadhar No.: 78480

Enter Age: 19

Enter Email Id: sudipnayak152002@gmail.com

Enter Contact No: 8895500221

Enter Address: Bhubaneswar

Add Another Vaccine Record (Y,N): Y

File: list: not found

---

----- Add Vaccine Details -----

Enter Name: Harsh

Enter Aadhar No.: 40148

Enter Age: 18

Enter Email Id: harsh24@gmail.com

Enter Contact No: 7786637041

Enter Address: Delhi

Add Another Vaccine Record (Y,N): N

# DISPLAY OF VACCINE DATA RECORD

- ❑ After pressing 2 in the dashboard we will be jumping to the screen which is shown in the next slide.
- ❑ In this section, we will be viewing the number of applicants and their information which we have inserted in the add new record option.

Enter Your Choice: 2

sh: 1: cls: not found

----- Applicant Record Table -----

Applicant No.: 1

Applicant Name: Sudip

Applicant Aadhar No.: 78480

Applicant age: 19

Applicant Email Id.: sudipnayak152002@gmail.com

Applicant Contact No.: 8895500221

Applicant Address: Bhubaneswar

Applicant No.: 2

Applicant Name: Harsh

Applicant Aadhar No.: 40148

Applicant age: 18

Applicant Email Id.: harsh24@gmail.com

Applicant Contact No.: 7786637041

Applicant Address: Delhi

sh: 1: cls: not found

# MODIFICATION OF THE RECORD

By choosing the 3rd option, The admin/Guest can modify any of the data when needed from the file vaccineRecord.txt.

## BEFORE MODIFICATION OF DATA

```
main.cpp vaccineRecord.txt :
1  Sudip 78480 19 sudipnayak152002@gmail.com 8895500221 Bhubaneswar 199
2  Harsh 40148 18 harsh24@gmail.com 7786637041 Delhi 197
3
```

## AFTER MODIFICATION OF DATA

```
main.cpp vaccineRecord.txt :
1  Sudip 77499 19 sudip@gmail.com 8897753241 Bhubaneswar 199
2  Harsh 40148 18 harsh24@gmail.com 7786637041 Delhi 197
3
```

Enter Your Choice: 3

sh: 1: cls: not found

-----  
----- Vaccine Modify Details -----  
-----

Enter Aadhar No. of person which you want to Modify: 78480

Enter Name: Sudip

Enter Aadhar No.: 77499

Enter age: 19

Enter Email Id: sudip@gmail.com

Enter Contact No.: 8897753241

Enter Address: Bhubaneswar

sh: 1: cls: not found

-----  
VACCINE MANAGEMENT SYSTEM

1. Enter New Record
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4. Search Record
5. Delete Record
6. Exit

-----  
Choose Option:[1/2/3/4/5/6]  
-----

Enter Your Choice:



# SEARCH RECORD

By choosing the 4th option, The admin/Guest can search for any of the data from the file vaccineRecord.txt using the respective Aadhar card Number.

```
-----  
Choose Option:[1/2/3/4/5/6]  
-----
```

```
Enter Your Choice: 4
```

```
File not found
```

```
-----  
Vaccine Search Data  
-----
```

```
Enter Aadhar No. of Person Which You Want to Search: 40148
```

```
Applicant Name: Harsh
```

```
Applicant Aadhar No.: 40148
```

```
Applicant age: 18
```

```
Applicant Email Id.: harsh24@gmail.com
```

```
Applicant Address: Delhi
```

```
File not found
```

```
-----  
| VACCINE MANAGEMENT SYSTEM |  
-----
```

```
1. Enter New Record
```

```
2. Display Record
```

```
3. Modify Record
```

```
4. Search Record
```

```
5. Delete Record
```

```
6. Exit
```

```
-----  
Choose Option:[1/2/3/4/5/6]  
-----
```

```
Enter Your Choice: |
```

# DELETE RECORD

By choosing the 5th option, The admin/Guest can delete any of the unnecessary data from the file vaccineRecord.txt.

## BEFORE DELETION OF DATA

```
main.cpp vaccineRecord.txt :  
1 | Sudip 77499 19 sudip@gmail.com 8897753241 Bhubaneswar 199  
2 | Harsh 40148 18 harsh24@gmail.com 7786637041 Delhi 197  
3 |
```

## AFTER DELETION OF DATA

```
main.cpp vaccineRecord.txt :  
1 | Harsh 40148 18 harsh24@gmail.com 7786637041 Delhi 197  
2 |
```



Enter Your Choice: 5

sh: 1: cls: not found

-----  
Delete Vaccine Details -----

Enter Aadhar No. of person which you want Delete Data: 77499

sh: 1: cls: not found

Successfully Delete Data  
VACCINE MANAGEMENT SYSTEM

1. Enter New Record
2. Display Record
3. Modify Record
4. Search Record
5. Delete Record
6. Exit

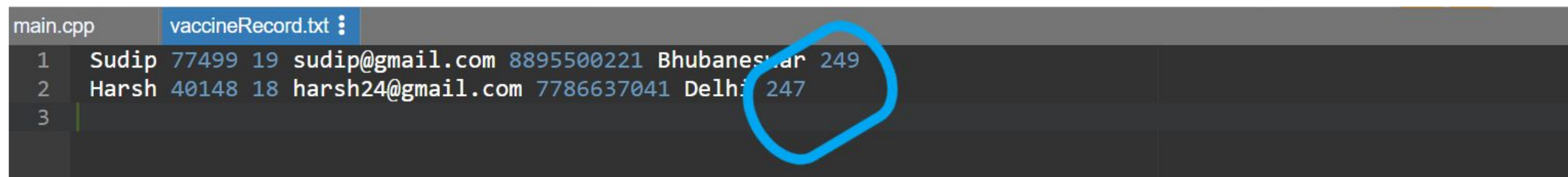
-----  
Choose Option:[1/2/3/4/5/6]  
-----

Enter Your Choice:



# VACCINE DOSES AVAILABILITY

# VACCINE DOSES AVAILABILITY WITH ADDITION OF DOSES



```
main.cpp vaccineRecord.txt :
1 Sudip 77499 19 sudip@gmail.com 8895500221 Bhubaneswar 249
2 Harsh 40148 18 harsh24@gmail.com 7786637041 Delhi 247
3
```

- ❑ Here, The numbers in the blue shapes represents the amount of vaccines that are available after one dose of the applicant who have applied.
- ❑ We in this project have taken 200 does of vaccine to be default number in the hospital/vaccine wards.
- ❑ Here, as we have added 50 more doses of vaccine hence the doses will be booked from the available 250 vaccines only.
- ❑ As you noticed here that after the registration of the fist dose of the 2<sup>nd</sup> person to be 247 hence this shows that the 1<sup>st</sup> person registration will be booked for the 2 doses at a time with different dates and time slots. We have this **feature** in our project for the very first person applied for the vaccination in the concerned virtual center.

# VACCINE DOSES AVAILABILITY WITHOUT ANY ADDITION OF DOSES

```
main.cpp vaccineRecord.txt :
1  Sudip 78480 19 sudipnayak152002@gmail.com 8895500221 Bhubaneswar 199
2  Harsh 40148 18 harsh24@gmail.com 7786637041 Delh. 197
3
```

- ❑ Here, The numbers in the red shapes represents the amount of vaccines that are available after one dose of the applicant who have applied.
- ❑ We in this project have taken 200 does of vaccine to be default number in the hospital/vaccine wards.
- ❑ Here, as we have not added any of more doses of vaccine hence the doses will be booked from the available 200 vaccines only.
- ❑ As you noticed here that after the registration of the fist dose of the 2<sup>nd</sup> person to be 197 hence this shows that the 1<sup>st</sup> person registration will be booked for the 2 doses at a time with different dates and time slots. We have this **feature** in our project for the very first person applied for the vaccination in the concerned virtual center.

# EXIT OPTION

By choosing the 6th option vaccine management system project in c++ will be closed.

```
Enter the password to enter the system: 12345

Captcha Code: 280791294

Input: 280791294

Successfully Entered the Management...

Do you wish to see the number of slots of vaccine avaialbe (Y/N) N

Do you wish to continue: Y

sh: 1: 2: 3: not found

-----
| VACCINE MANAGEMENT SYSTEM |
-----
1. Enter New Record
2. Display Record
3. Modify Record
4. Search Record
5. Delete Record
6. Exit
-----
Choose Option:[1/2/3/4/5/6]
-----

Enter Your Choice: 6

...Program finished with exit code 0
Press ENTER to exit console.
```

```
#include <iostream>
Using namespace std;
Int main()
{
cout << "Thank You!";
Return 0;
}
```

