

A
Project Report On

“VACCINE MANAGEMENT SYSTEM”

Submitted By

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Under the Guidance of



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Dr. D. Y. Patil Pratishthan's College of Engineering

Shivaji University, Kolhapur

2021-2022

CERTIFICATE

*This is to certified that, following are the students of class SE,
Computer Science and Engineering, has satisfactorily completed mini project
work as per the syllabus of **Shivaji University**, Kolhapur, In the subject of
OBJECT ORIENTED PROGRAMMING within the given span as per the
rules.*

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PROJECT GUIDE

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ACKNOWLEDGMENT

I would like to express my special thanks of gratitude to our guide **Prof. Vanashri Shinde (Internal guide)** as well as our **HOD Dr. Shivaleela Arlimatti** and our **Principal Dr . S. D. Mane** who gave us the golden opportunity to do this research oriented project, which also helped me in doing a lot of research as well as study and We came to know about so many new things related to “**Vaccine Management System**”. I am really thankful to my friends who helped me throughout to complete this project. Secondly I would also like to thank my parents who helped me a lot in finalizing this project within the limited time frame.

Student Name

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- 2. Mr. Kiran Ashok Patil.**
- 3. Mr. Rohan Ramesh Chavan**
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- 5. Mr. Pratik Jotiram Patil**

Abstract

This software project is a traditional vaccine management system with some added functionality. This system is built for fast data processing and record keeping of vaccinated people. The vaccine management system consists of a File Handling and effective front end designed in C++. A vaccinated person when vaccinated is searched from the file handled and its information is displayed on to the screen. The system also contains customizing the number of vaccines i.e we can add vaccines when the lot is available. The vaccine management system is built to help doctors to calculate and display remaining vaccine quantity and to view the vaccinated person's details by searching by name, age, gender or aadhar number in a faster and efficient manner. This software project consists of an effective to help the doctors in easy management of vaccines.

DECLARATION BY STUDENT

I hereby declare that the Project work entitled “**Vaccine Management System using C++**” completed and written by me has not previously formed the basis for the award of any Degree or Diploma or other similar title of this or any other University or examining body.

Date:

Place:

Student Name

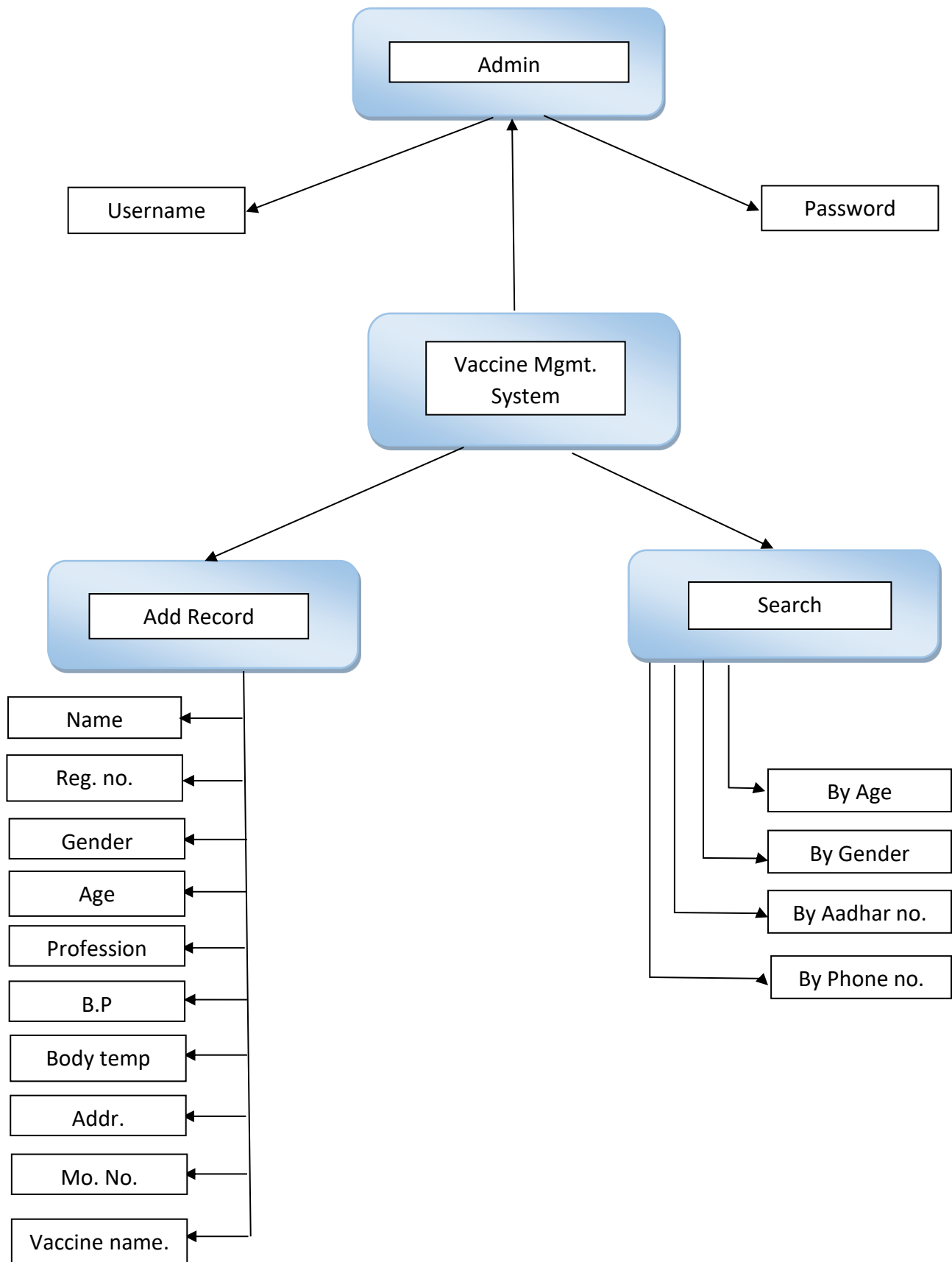
- 1. Mr. Pratik Namdev Korane**
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1.Introduction

Vaccine management system is the system to automate the process of vaccination of a peoples. Vaccines save millions of lives each year. Vaccines work by training and preparing the body's natural defences the immune system to recognize and fight off the viruses and bacteria they target. If the body is exposed to those disease-causing germs later, the body is immediately ready to destroy them, preventing illness.

There are currently several COVID-19 vaccine available in market. Few vaccines are approved for use in INDIA. WHO is working in collaboration with scientists, business, and global health organizations through the ACT Accelerator to speed up the pandemic response. So all safe and effective vaccine founded are allowed to facilitate the equitable access to all the countries and distribution of these vaccines are done to protect people in all countries. People most at risk were prioritized. While we work towards rolling out a safe and effective vaccine fairly, we must continue the essential public health actions to suppress transmission and reduce mortality. Use of this system will reduce efforts of doctors and also save the time of vaccination.

2. Proposed System Block Diagram



3. Development

4.1 Methodology

- 1) We collected the Information About the given micro-project topic.
- 2) We distributed the given work related to the micro-project to all the team members.
- 3) We discussed about flow of the program in considering the algorithm as were as the flowchart.
- 4) We executed program in a Visual Studio Code software properly.
- 5) We have successfully run the program using the C++.
- 6) We had printout the print of the micro-project.
- 7) We submitted the project to concerned teacher by taking signature on the report of the Micro-project.

4.2 Software Requirement details

Operating System : Windows 10

Front-end : C++

Languages Used : C++

4.3 Hardware requirement details

Processor : Intel Core i5 Processor

RAM : 8GB(Minimum)

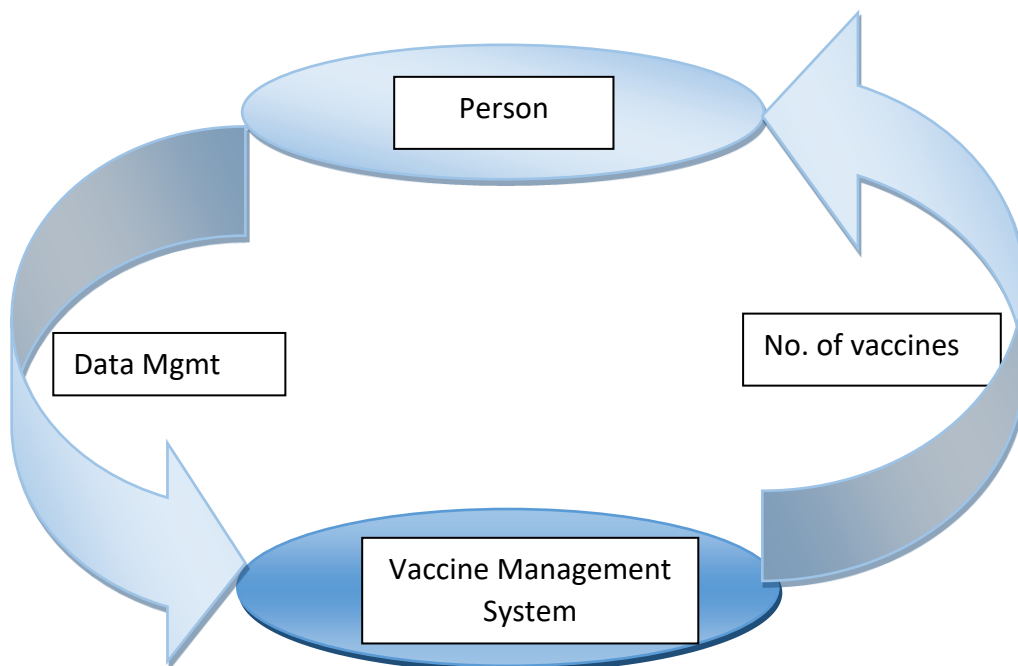
HDD : 40GB(Minimum)

4. Data Flow Diagram

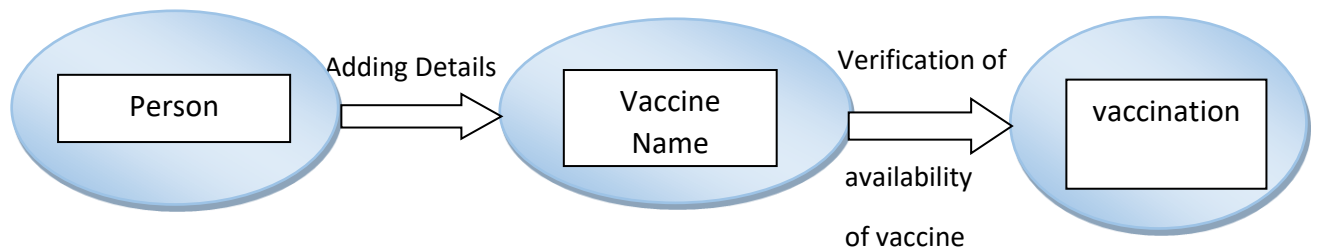
Also known as DFD, Data flow diagrams are used to graphically represent the flow of data in a business information system. DFD describes the processes that are involved in a system to transfer data from the input to the file storage and reports generation.

Data flow diagrams can be divided into logical and physical. The logical data flow diagram describes flow of data through a system to perform certain functionality of a business. The physical data flow diagram describes the implementation of the logical data flow

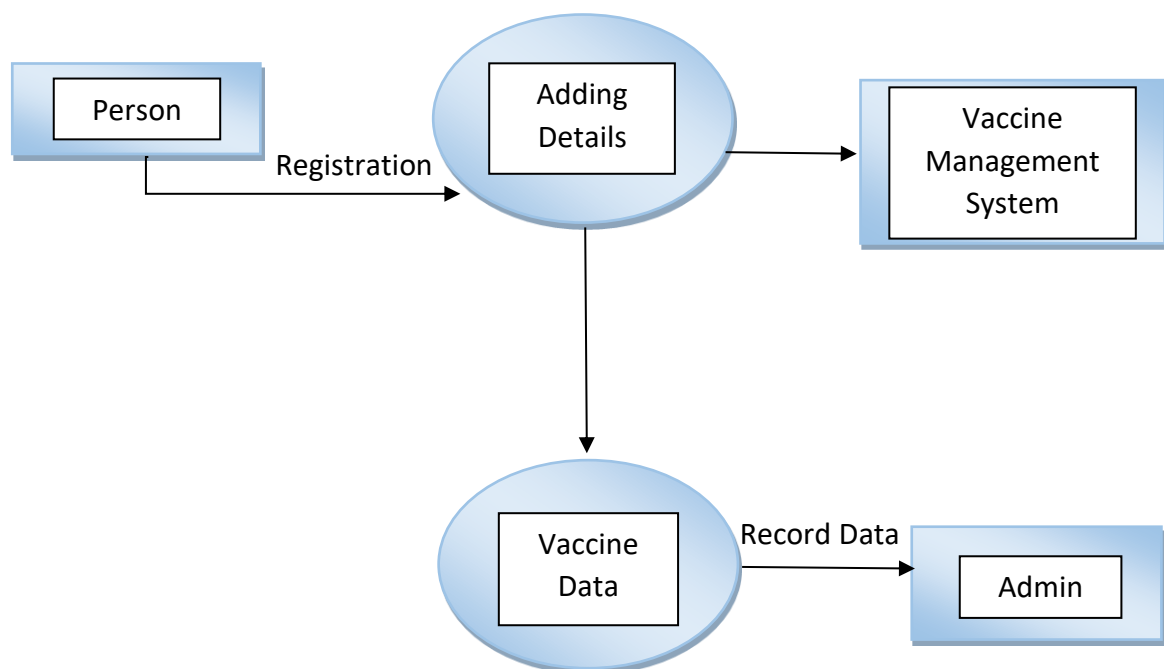
- **Data Flow Diagram**
Level 0 DFD



- **Data Flow Diagram**
Level 1 DFD

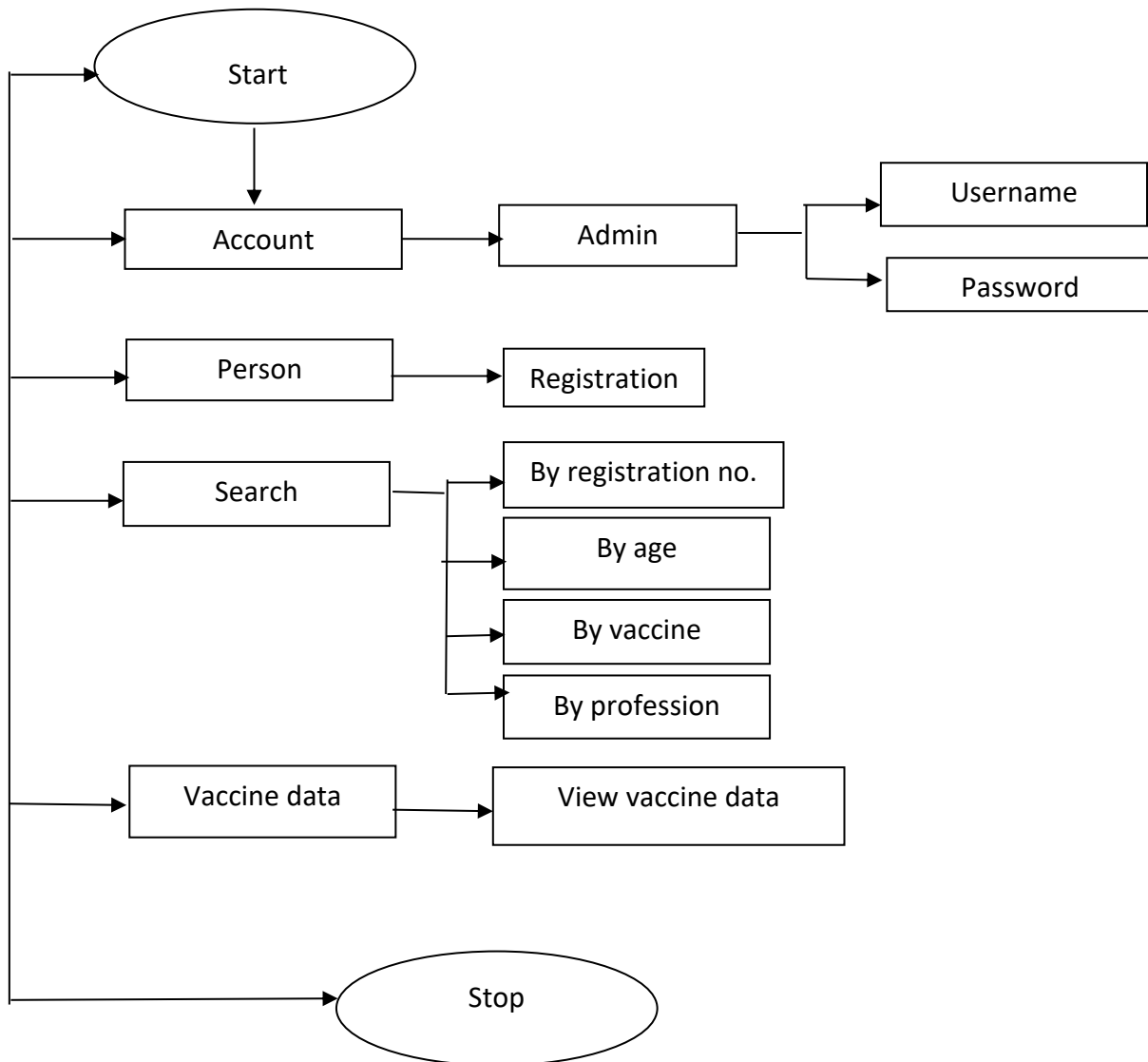


- **Data Flow Diagram**
Level 2 DFD



5. Activity Diagram

An activity diagram is a **behavioural diagram** i.e. it depicts the behaviour of a system. An activity diagram portrays the control flow from a start point to a finish point showing the various decision paths that exist while the activity is being executed.



6. Outputs

```
D:\coding\cpp\hah.exe

      ██████████ WELCOME TO LOGIN PAGE ██████████

*****
Enter User name and Password
*****

USER NAME:  a
PASSWORD:  *
CAPTURE:-> 7567
Please enter the valid capture :- 7567_
```

```
D:\coding\cpp\hah.exe

|███| VACCINE MANAGEMENT SYSTEM |███|

*****
WELCOME TO THE MAIN MENU
*****

1: Add NEW Record          2: View VACCINE DATA
3: search                  4: View All Data
5: exit

Choose according to your need :
```

```
D:\coding\cpp\hah.exe

|███| VACCINE MANAGEMENT SYSTEM |███|

*****
ENTER THE DETAILS
*****

Enter your name :- Rohan
Enter your registration no :- 1
Enter your gender (M|F) :- M
Enter your age:- 20
Enter your profession :- student
Enter your B.P. :- 120
Enter your Body temperature:- 37
Enter your permanent address :- chandoli
Enter your Mobile number :- 9403043625
Enter the vaccine injected :- covaxin
YOUR DATA HAS BEEN SUCCESSFULLY INSERTED
```

```
D:\coding\cpp\hah.exe

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

*****
VACCINE STATISTICS
*****

1. Add more          2.View available
3. Back
```

```
D:\coding\cpp\hah.exe

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

*****
SEARCHING STATISTICS
*****

From which option you want to perform searching

1. By registration No.      2. By Age
3. By Profession            4. By Gender
5. By Vaccine               6. Back to Main Menu

Enter your choice :
```

```
D:\coding\cpp\hah.exe

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

*****
ALL DATA
*****

Name      Aadhar No.  Age    Profession  B.P.    Temperature  gender  Mobile No.  Address  Vaccine
korane    1          20     ss          120     38           M       123         aa      covishield
kiran     2          20     student     120     37           M       7378724132  kolhapur  covi
pratik    1          20     dd          20      20           M       10          dd      sv
Rohan     1          20     student     120     37           M       9403043625  chandoli  covaxin
```

7. Conclusion

This software has been developed designed to reduce the time taken to handle the vaccination activity. It is designed to replace an existing manual record system for reducing time taken for calculations and for storing vaccines. This system has been developed with oops concepts. The system is strong to handle daily operations where the database is cleared over certain time. This system will reduce manual work, calculations and will also provide periodic reports any time.

8. Bibliography

Document Reference

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2. <https://www.javatpoint.com/cpp-tutorial>.
3. <https://www.cdc.gov.in>.
4. <http://www.cplusplus.org/>.
5. <https://www.youtube.com>