### Title - Vaccination Record System

### Abstract -

The project aims at tracking record of the patients vaccinated at a particular center. It also counts the number of vials used in a particular day

### Procedure -

- Pre-registered patients who had appointments verify the documents
- Verification is done with pre-registered data of patients
- New registrations are added to the vaccinated log
- Total number of vaccine vials consumed is tracked for both type of vaccines

## Algorithm -

Step 1 - Start

Step 2 - Read adhaar number

Step 3 - check registration status in database

Step 4 - if new user read registration details

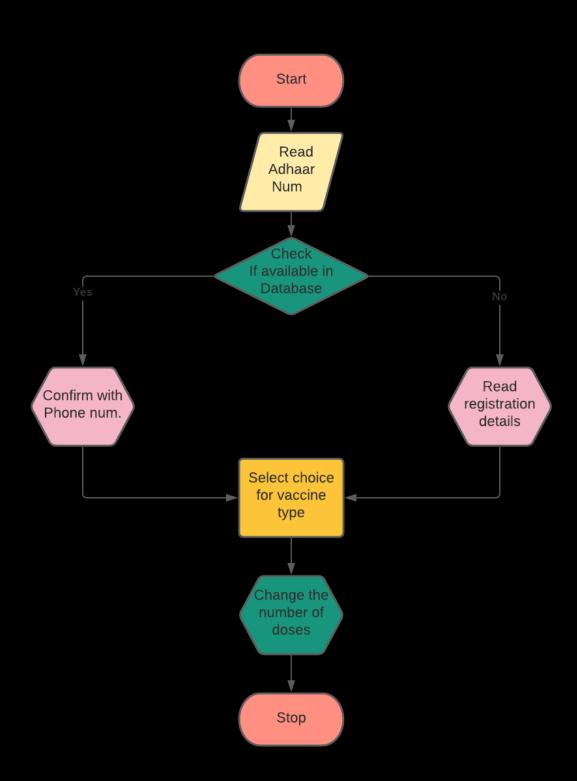
Step 5 - if old user check of vaccination status

Step 6 - add the number of vials of vaccine used

Step 7 - print the full day record when asked

Step 8 - Stop.

# Flowchart –



### Program -

return 1;

```
// Krishna Shrivastava RA2111026010399
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#include <stdio.h>
typedef struct patient
{
    // Structure that stores all details of a patient
   int age ;
   long aadhar ;
   int ph_number ;
   int secret_code ;
   int vaccine_type ;
    int vaccine_doses;
} patient_details;
// variable patient_log that stores details of upto 1000 patients
patient_details patient_log[1000];
int regist_status(long entred_adhar)
{
    // Checks for registration details of new patients
   patient_log[0].aadhar = entred_adhar;
    int i = 1;
   while (i <= 1000)
    {
        if (patient_log[i].aadhar == patient_log[0].aadhar)
            if (patient_log[i].vaccine_type == 0)
                return 0; // this means registred but not logged in
            else
                return 1; // registred and logeed in
        }
        i++;
   return -1; // not registred
}
// Checks how many doses should be given
int vaccine_status(int i)
{
   if (patient_log[i].vaccine_doses == 0)
    { // not taken any dose
        patient_log[i].vaccine_doses++;
```

```
}
   else if (patient_log[i].vaccine_doses == 1)
   { // taken 1 dose
        patient_log[i].vaccine_doses++;
        return 2;
    }
   else if (patient_log[i].vaccine_doses == 2)
   { // taken 2 doses
        return 3;
    }
   else
        return 0;
}
// Program begins from this section
int main()
{
   int status;
                       // A return parameter to check status of patient
   long entred_adhar; // Variable that stores patient's aadhar number
   int v1 = 0, v2 = 0; //Vaccine type 1 and 2 quantity
   int attmpt = 1000; // Variable that determines the total number of execution by EOD
   while (attmpt > 0)
    apply:
        printf("\n\t\t\t\t\t\t\tLet's get vaccinated!!!\n");
        printf("\t\t\t\t\tEnter your aadhar number:");
        scanf("%11d", &entred_adhar);
        if (entred_adhar == 3112) // secret code to view results
            goto results;
        }
        status = regist_status(entred_adhar);
        int i, j = 0, vstat = 0, vaccine_choice = 0, pno;
        i = 1;
        while (i <= 1000)
        {
            if (patient_log[i].aadhar == entred_adhar)
                j = i; // for storing the idex of stored adhar
            i++;
        }
        if (status == -1) // for first time registration
            i = 1;
            while (i <= 1000)
```

```
{
       if (patient_log[i].aadhar == 0)
       {
          printf("\t\t\t\t\tFill details for registration\n");
          patient_log[i].aadhar = patient_log[0].aadhar;
          printf("\t\t\t\t\tEnter your phone number: ");
          scanf("%d", &patient_log[i].ph_number);
          printf("\t\t\t\t\tEnter your age: ");
          scanf("%d", &patient_log[i].age);
          printf("\t\t\t\t\tEnter your secret code: ");
          scanf("%d", &patient_log[i].secret_code);
          break;
       }
       i++;
   printf("\t\t\t\t\tCredentials saved, log in again\n");
   goto apply;
else if (status == 0) // for first time logging in
{
   //Verification
   prv1:
   scanf("%d", &pno);
   if (pno == patient_log[j].ph_number)
       goto nxt1;
   else
       printf("\t\t\t\t\t\t\t\t\t\rong credentials, try again\n");
   goto prv1;
nxt1:
   printf("\t\t\t\tTime for vaccine\n\t\t\t\t\tSelect type\n");
   scanf("%d", &vaccine_choice);
   if (patient_log[j].vaccine_type == 0)
       switch (vaccine_choice)
       {
       case 1:
          patient_log[j].vaccine_type = 1;
          break;
       case 2:
           patient_log[j].vaccine_type = 2;
          break;
       default:
          printf("\t\t\t\t\t\tSelect option 1 or 2\n");
          break;
       }
   }
}
else // logging after taking first dose
   // Verification
   printf("\t\t\t\t\t\tConfirm user, enter ph.number\n\t\t\t\t\t");
prv2:
```

```
scanf("%d", &pno);
          if (pno == patient_log[j].ph_number)
             goto nxt2;
             printf("\t\t\t\t\t\t\t\t\t\t\t\rong credentials, try again\n");
          goto prv2;
   nxt2:
      vstat = vaccine status(j); //Status of patient based on being vaccinated
      if (vstat == 1)
          vaccinated once\n");
      else if (vstat == 2)
          vaccinated twice\n");
      else if (vstat == 3)
          printf("\t\t\t\t\tYou have completed two dozes of vaccination\n");
      // Count of total number of vaccine vials used
      if (patient_log[j].vaccine_type == 1 && (vstat == 1 || vstat == 2))
      else if (patient_log[j].vaccine_type == 2 && (vstat == 1 || vstat == 2))
          v2++;
      attmpt--;
   }
results:
   printf("\n\t\t\t\tFinal list of patients and consumed stock of vaccines\n");
   int i = 1;
   while (i <= 1000)
   {
      if (patient_log[i].aadhar != 0)
          printf("\t\t\t\tP%d Aadhar:%lld\n", i , patient_log[i].aadhar);
          printf("\t\t\t\t\tP%d Phone no:%d\n", i , patient_log[i].ph_number);
          printf("\t\t\t\t\tP%d Age:%d\n", i , patient_log[i].age);
          printf("\t\t\t\t\tP%d Secret code:%d\n", i , patient_log[i].secret_code);
          printf("\t\t\t\t\tP%d Vaccine type:%d\n", i , patient_log[i].vaccine_type);
          printf("\t\t\t\t\tP%d Vaccine dozes:%d\n\n", i ,
patient_log[i].vaccine doses);
      }
      i++;
   printf("\t\t\t\t\t\tVaccine type 2(COVAXIN):%d\n", v2);
   goto apply;
return 0;
}
```

### Output -

```
Let's get vaccinated!!!
Enter your aadhar number:922242177584
Fill details for registration
Enter your phone number: 9179672238
Enter your age: 18
Enter your secret code: 1234
Credentials saved, log in again
Let's get vaccinated!!!
Enter your aadhar number:922242177584
Confirm user, enter ph.number
9179672238
Time for vaccine
Select type
1:Covishield
2:Covaxin
Please take your first vaccine
You have been vaccinated once
Let's get vaccinated!!!
Enter your aadhar number:798728905678
Fill details for registration
Enter your phone number: 7987289056
Enter your age: 24
Enter your secret code: 12345
Credentials saved, log in again
Let's get vaccinated!!!
Enter your aadhar number: 798728905678
Confirm user, enter ph.number
7987289056
Time for vaccine
Select type
1:Covishield
2:Covaxin
Please take your first vaccine
You have been vaccinated once
Let's get vaccinated!!!
Enter your aadhar number:123456789
```

Let's get vaccinated!!! Enter your aadhar number:123456789 Fill details for registration Enter your phone number: 123456789 Enter your age: 34 Enter your secret code: 5678 Credentials saved, log in again Let's get vaccinated!!! Enter your aadhar number: 123456789 Confirm user, enter ph.number 123456789 Time for vaccine Select type 1:Covishield 2:Covaxin Please take your first vaccine You have been vaccinated once Let's get vaccinated!!! Enter your aadhar number:3112 Final list of patients and consumed stock of vaccines P1 Aadhar: 3119176240 P1 Phone no:589737646 P1 Age:18 P1 Secret code:1234 P1 Vaccine type:2 P1 Vaccine dozes:1 P2 Aadhar:4159955918 P2 Phone no:-602645536 P2 Age:24 P2 Secret code:12345 P2 Vaccine type:1 P2 Vaccine dozes:1 P3 Aadhar: 123456789 P3 Phone no:123456789 P3 Age:34 P3 Secret code:5678 P3 Vaccine type:1