

/ C program for the above approach

```
#include <conio.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
// Defining Structure
```

```
typedef struct mynode {
```

```
    char name[20];
```

```
    char gen[6];
```

```
    char idtype[40];
```

```
    char id[20];
```

```
    char mob[20];
```

```
    char comor[3];
```

```
    struct mynode* link;
```

```
} Node;
```

```
Node* start = NULL;
```

```
// Global Variables
```

```
int n;
```

```
char state[20], dis[20], hos[40], date[12], hour[6];
```

```
// Declaring Function Used In This Program
```

```
void heading();
```

```
void details();
```

```
void venue();
```

```
void receipt();
```

```
// Driver Code
```

```
void main()
```

```
{  
  
    details();  
  
    venue();  
  
    receipt();  
  
}
```

```
// Function To Take Candidate Numbers & Details
```

```
void details()
```

```
{  
  
    int i;  
  
    char a[20], b[6], c[40], d[20], e[20], f[3];  
  
  
    // Calling Heading() Function  
  
    heading();  
  
    printf(  
  
        "\t\t\tEnter Candidate Number (Max 4 People): ";  
  
    scanf("%d", &n);  
  
  
    // Taking Candidate Details  
  
    for (i = 1; i <= n; i++) {  
  
        // For Clear Screen  
  
        system("cls");  
  
  
        // Calling Heading() Function  
  
        heading();  
  
        printf("\t\t\tEnter The %dth Candidate Name: ",  
  
            i);  
  
        fflush(stdin);  
  
        gets(a);  
  
        printf("\t\t\tEnter The %dth Candidate Gender: ",  
  
            i);  
  
    }  
}
```

```

fflush(stdin);

gets(b);

printf("\t\t\tEnter The %dth Candidate Id-Type: ",
        i);

fflush(stdin);

gets(c);

printf(
        "\t\t\tEnter The %dth Candidate Id-Number: ",
        i);

fflush(stdin);

gets(d);

printf("\t\t\tEnter The %dth Candidate Mobile "
        "Number: ",
        i);

fflush(stdin);

gets(e);

printf("\t\t\tEnter The %dth Candidate "
        "Co-Morbidity Status (Yes or No): ",
        i);

fflush(stdin);

gets(f);


// Calling Function addnode()
addnode(a, b, c, d, e, f);
    }
}

```

```

// Function To Create Node & Insert Data Like Linked List
void addnode(char a[20], char b[6], char c[40], char d[20],
             char e[20], char f[3])
{

```

```

Node *newptr = NULL, *ptr;
newptr = (Node*)malloc(sizeof(Node));
strcpy(newptr->name, a);
strcpy(newptr->gen, b);
strcpy(newptr->idtype, c);
strcpy(newptr->id, d);
strcpy(newptr->mob, e);
strcpy(newptr->comor, f);
newptr->link = NULL;
if (start == NULL)
    start = newptr;
else {
    ptr = start;
    while (ptr->link != NULL)
        ptr = ptr->link;
    ptr->link = newptr;
}
}

```

// Function To Take Date & Time Details

```

void venue()
{
    int i, x = 0;

    // For Clear Screen
    system("cls");

    // Calling Heading() Function
    heading();
    printf("\t\t\t\tEnter State: ");
    gets(state);
}

```

```
printf("\t\t\tEnter District: ");
gets(dis);
printf("\t\t\tEnter Date (DD-MM-YY): ");
gets(date);
printf("\t\t\tEnter Time (24 Hours): ");
gets(hour);

// For Clear Screen
system("cls");

// Calling Heading() Function
heading();

// List Of Hospitals Available
printf("\t\t\t1. GFG Hospital\n");
printf("\t\t\t2. Zilla Hospital\n");
printf("\t\t\t3. DS Hospital\n");

// Taking Hospital Choice
do {
    printf("\t\t\tEnter Choice: ");
    scanf("%d", &i);
    if (i == 1)
        strcpy(hos, "GFG Hospital");
    else if (i == 2)
        strcpy(hos, "Zilla Hospital");
    else if (i == 3)
        strcpy(hos, "DS Hospital");
    else {
        printf("Enter Correct Choice...");
        x = 1;
    }
}
```

```

        }
    } while (x);
}

// Function To Print Receipt
void receipt()
{
    int i;
    Node* ptr = start;

    // For Clear Screen
    system("cls");
    heading();
    printf(
        "\n\t\t\t\t*Take Screenshot For Further Use*\n");

    // Printing Candidate All Details
    for (i = 1; i <= n; i++) {
        printf("\t\t\t\t%dst Candidate Name: ", i);
        puts(ptr->name);
        printf("\t\t\t\t%dst Candidate Gender: ", i);
        puts(ptr->gen);
        printf("\t\t\t\t%dst Candidate Id-type: ", i);
        puts(ptr->idtype);
        printf("\t\t\t\t%dst Candidate Id Number: ", i);
        puts(ptr->id);
        printf("\t\t\t\t%dst Candidate Mobile Number: ", i);
        puts(ptr->mob);
        printf(
            "\t\t\t\t%dst Candidate Co-Morbidity Status: ",
            i);
    }
}

```

```

        puts(ptr->comor);

        printf("\n");

        ptr = ptr->link;

    }

    printf("\t\t\t\tState: ");

    puts(state);

    printf("\t\t\t\tDistrict: ");

    puts(dis);

    printf("\t\t\t\tDate: ");

    puts(date);

    printf("\t\t\t\tTime: ");

    puts(hour);

    printf("\t\t\t\tChosen Hospital: ");

    puts(hos);

    printf("\n\t\t\t\t*Thank You For registration*");

}

// Function To Make Heading Of Portal

void heading()

{

    printf(

        "\t\t\t\t**Covid Vaccination Registration**\n");

    printf("\t\t\t\t***Take Vaccine At Your Time & Fight "

        "Against Corona***\n\n");

}

```