**Sr university**

**Problem solving**

**With**

**Programming**

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**b.tech 1st year 2nd semester**

**project title : vaccination**

**registration system .**

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**Introduction:**

**Index:**

S.NO: TITLE PAGE NO.(FROM-TO)

1. COLLATED 4-12

DATA

2. PROGRAM 13-22

3. OUTPUT 22-23

CASES

VACCINATION REGISTRATION SYSTEM:

Data collection:

Problem statement :

Write a program to build a menu-driven covid vaccination registration portal using c program which can perform the following operations:

* Taking candidate names.
* Date,time and venue for vaccination.
* Printing receipt of vaccination.

Approach:

Below is the approach for the above operations:

* **Taking Candidate Name:** This function will take necessary details of every candidate like their name, id card type & number, gender, etc. And it will store each data in a node like in a linked list.
* **Date, time and venue for vaccination:** In this function, we have to give details like state, city, hospital name where we want to take the vaccine.

Young children are at increased risk for infectious diseases because their immune systems have not yet built up the necessary defenses to fight serious infections and diseases. As a result, diseases like whooping cough or pneumococcal disease can be very serious and even deadly for infants and young children. Vaccinations start early in life to protect children before they are exposed to these diseases. The proposed system of e Vaccination system provide proper schedule of children vaccine time interval for the parents. Parents can search near by hosptial and make a schedule. Admin will manage the child and vaccination report and approval of appoinment. Hosptial will update the status of vaccination applied for child. The system implemented as android app using Angular JS MVC model.Vaccination Management System Software

Module Description:

This system enables user friendly for Doctor-parent relationship. Doctor can easily diagnosis parent’s infant problem and find out the solution. Then clinic provide update details about parent’s infant problems.

System Features

In the life of the software development, problem analysis provides a base for design and development phase. The problem is analyzed so that sufficient matter is provided to design a new system. Large problems are sub-divided into smaller once to make them understandable and easy for finding solutions. Same in this project all the task are sub-divided and categorized.

System Modules:

Admin

All child details

Date & time of vaccination

Report of vaccination

Child, Vaccination (Date wise report)

List of vaccine

available or unavailable

Request from parents

Approve or Reject

Add Hospital

Update/Delete Hospital

List of hospitals

Booking Details

Parent

Register & Login

Details of child

Vaccination Dates

Book Hospital

Reqest for hosptial

Report of vaccination taken

My profile

Modules Description

Admin

All child details

View all child profile details

Date of vaccination

Upcoming Date of vaccination of all child

Report of vaccination

Child, Vaccination (Date wise report)

Admin can export the details in xls format by date , week and month wise report

List of vaccine

available or unavailable

Admin can view the availibilty of the vaccination

Request from parents

Approve or Reject

Once the request for appoinment from parent side, it will be approved from the admin

Add Hospital

Admin can add the hosptial details

Update/Delete Hospital

Admin can update or delete the hosptial details

List of hospitals

Admin can view the hosptial details

Booking Details

Admin can view the booking details from parent side for booking vaccination

Parent

Details of child

Update and maintain the child details of vaccination

Vaccination Dates

Can get notified through in Dashboard of their respective accounts about upcoming vaccinations.

Book Hospital

Use can search the list of hospital and book schedule for the vaccince dates

Report of vaccination taken

Can get the report status of previous vaccination of their respective Infants

Hospital

Register & Login

Can register and login into the app with hosptial name, address and location details.

Update Vaccine status

Hospital will receive the appoinment once its booked from admin side. If vaccination is completed they will updat e the status to Vaccined or not.

Implementation:

Implementation science lays bare the complexity of “diffusion of innovations”11—in this case, the innovation being COVID-19 vaccination. The extent to which any new care practice is adopted relates to numerous considerations, all of which have been evident in the effort to vaccinate persons providing and receiving long-term care.

•The innovation itself, including its perceived benefits and risks; for COVID-19, the perceived risks have largely centered around safety, efficacy, and length of testing12;

•Communication and influence, such as the extent to which potential adopters are similar to current adopters; in the case of COVID-19 vaccination, potential adopters tend to have lower education and income than adopters, suggesting a mismatch in communication and influence between the two13;

•The outer context, a relevant example being less acceptance of vaccination among those holding certain political beliefs or of certain cultural backgrounds12;

•System antecedents for the innovation; toward this end, decentralized decision making is known to promote adoption, but nursing homes tend to be centralized organizations14;

•Linkages, such that if developers are linked to users early on, adoption is more likely—which of course was not the case in vaccine development;

•System readiness for the innovation, which is promoted by tension for change (certainly true of COVID-19) and also existing practices, policies, and resources; in many ways, efforts related to seasonal influenza vaccination in long-term care have promoted system readiness15;

•The adopter himself or herself, such as the desire of long-term care staff to protect their patients and residents;

•System assimilation, which includes structural changes relating to the innovation, with a recent example being mandates for vaccination16; and

•The implementation process, such as whether frontline workers are involved in decision making, which is not typical of a centralized organization.

Test Results:

India initially approved the Oxford–AstraZeneca vaccine (manufactured under license by Serum Institute of India under the trade name Covishield) and Covaxin (a vaccine developed locally by Bharat Biotech). They have since been joined by the Sputnik V (manufactured under license by Dr. Reddy's Laboratories, with additional production from Serum Institute of India being started in September[6][7]), Moderna vaccines, Johnson & Johnson vaccine and ZyCoV-D (a vaccine locally developed by Zydus Cadila)[a][b] and other vaccine candidates undergoing local clinical trials

Conclusion:

If new vaccines become available, who stands to benefit, and will the public accept new immunisation options? Dr Daphne Holt, Chair of the Coalition for Life-Course Immunisation (CLCI) said there is growing momentum behind bringing vaccination to people at all stages of life. ‘We can all expect to live longer,’ Dr Holt said. ‘We need to remain healthy and active so we can work longer and play longer. And we need to consider that vaccines have a role to play in that.’COVID-19 vaccination campaigns have shown that health authorities have the capacity to deliver widespread adult vaccination. ‘Mass vaccination campaigns can be carried out when there is sufficient political will to make it happen,’ she said. ‘It will be people’s perceptions and beliefs about vaccines that is a challenge in the future.’Communication and advocacy will become increasingly important to vaccine uptake, according to Katie Owens, Information & Communication Officer at the European Commission, who said two-way communication will be essential. Rather than focus on the small minority of anti-vaccine voices online, she encouraged people to explore the reasons driving hesitancy. ‘It’s easy to point to vaccine hesitancy or blame anti-vaxxers but there are many reasons why people do not get vaccinated,’ she said. ‘We have to listen and put in place ways to support them. If you are not prepared to have two-way conversations and really understand concerns, you will not get anywhere.’Owens said everyone can become a vaccine advocate online and offline. Many non-traditional actors, including hairdressers and taxi drivers, can help to shape conversations and drive higher uptake of recommendation vaccines. ‘One of my big messages is we can all be vaccine ambassadors in our own networks, in our own communities,’ she said.

The lively discussion also heard from UNICEF’s Angus Thomson on the role of social media companies in vaccine acceptance; Joanna Oberska, on the role of pharmacists in Poland and beyond; Mariano Votta, Active Citizenship Network, on how the media can drive informed decision-making; and David Sinclair of ILC-UK on the high-tech advances shaping the future of vaccine delivery.

Watch the full discussion to learn more about the future of vaccine research, policy and communication. And stay tuned to Vaccines Today as we follow developments in the years to come.

Future scope:

In future this system can work for any registration system to collect the data from the person who wants to get vaccinated

It helps easily , because one small family can easily register

Their details by one number at stay in home . and for this registration government has be took this system in free of cost

There is no fee for registration . by this system poor people can get vaccine.

Program of vaccine registration system:

// 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\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\t\tEnter The %dth Candidate Name: ",

i);

fflush(stdin);

gets(a);

printf("\t\t\t\tEnter The %dth Candidate Gender: ",

i);

fflush(stdin);

gets(b);

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

i);

fflush(stdin);

gets(c);

printf(

"\t\t\t\tEnter The %dth Candidate Id-Number: ",

i);

fflush(stdin);

gets(d);

printf("\t\t\t\tEnter The %dth Candidate Mobile "

"Number: ",

i);

fflush(stdin);

gets(e);

printf("\t\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\t\tEnter District: ");

gets(dis);

printf("\t\t\t\tEnter Date (DD-MM-YY): ");

gets(date);

printf("\t\t\t\tEnter Time (24 Hours): ");

gets(hour);

// For Clear Screen

system("cls");

// Calling Heading() Function

heading();

// List Of Hospitals Available

printf("\t\t\t\t1. GFG Hospital\n");

printf("\t\t\t\t2. Zilla Hospital\n");

printf("\t\t\t\t3. DS Hospital\n");

// Taking Hospital Choice

do {

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

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

}

Output of vaccine registration system:

