Created By : Team-6

HOSPITAL MANAGEMENT

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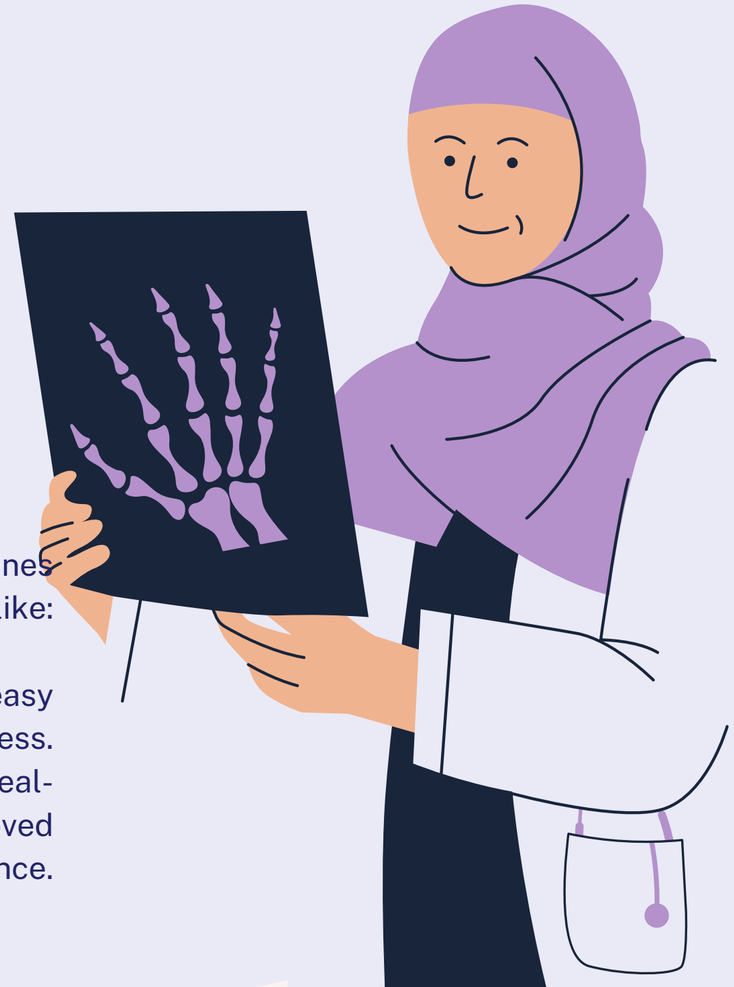
system to manage hospital operations

Exploration of innovations in medicine

Medical innovations are transforming healthcare through advancements like:

- Telemedicine for remote consultations and greater accessibility.
- Personalized Medicine that tailors treatments to individual genetic profiles.
- AI in Diagnostics for faster, more accurate diagnoses.
- Robotic Surgery for precision and faster recovery.
- Wearable Tech for continuous health monitoring.



Greetings and introduction

MedixPro is a comprehensive hospital management solution that streamlines operations with features like:

- **Patient Registration:** Centralizes vital patient information for easy access.

Appointment Scheduling: Enhances doctor-patient coordination with real-time tracking, automated reminders, and reduced waiting times for improved patient experience.

Analysis

An exploration of innovations in medicine

As per our analysis on this statement we came to a conclusion that first of all we should get the patients registered in our hospital if not we can get them registered. Then we can give them appointments according to the availability of the respective doctor by taking some basic inputs such as patients ID, date on which they wanted the appointment and so on.Upon that we can view our appointment

Exploring Breakthroughs and Challenges

Overview 01

Precision Medicine: Personalized treatments based on genetic profiles are leading to more effective and tailored care.

Overview 02

Regenerative Medicine: Progress in stem cell therapy and tissue engineering offers hope for healing previously untreatable conditions.

Overview 03

Ethical Concerns: Issues around data privacy, genetic information, and ethical dilemmas need careful navigation.

Overview 04

High Costs: Advanced technologies can be expensive, posing barriers to access for many patients.

The Current Landscape of Medicine

Overview of the current state of healthcare and medical practices

Focus on Preventive Care: There’s a shift toward proactive healthcare, emphasizing prevention, early detection, and management of chronic diseases rather than just treatment.

Personalized Treatment: Advances in genomics and biotechnology allow for treatments tailored to individual genetic profiles, leading to more effective therapies and better patient outcomes.

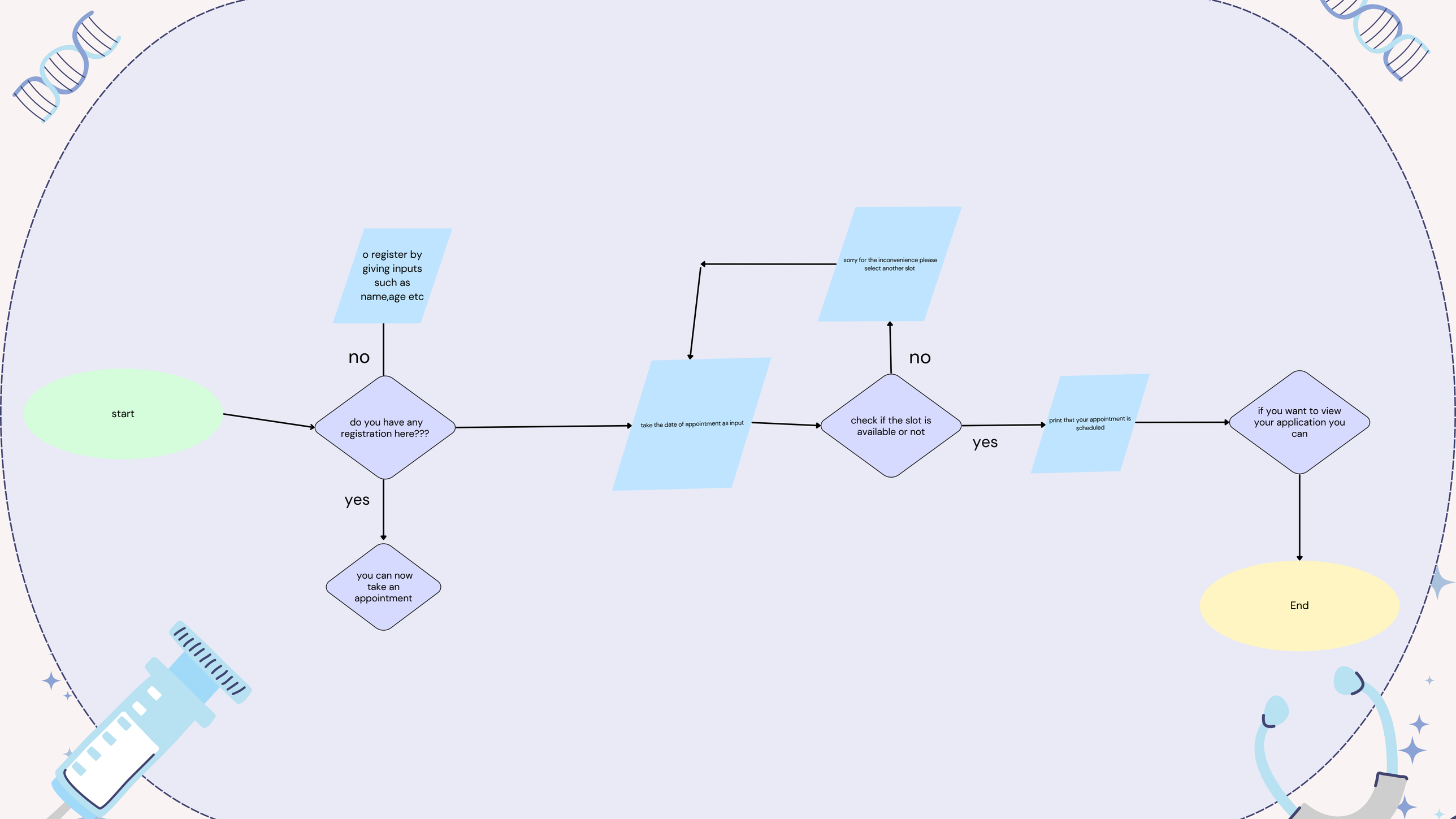
Breakthroughs in Medical Technology

Wearable Health Devices: Devices like smartwatches and fitness trackers are now capable of monitoring vital signs, tracking chronic conditions, and alerting users to potential health issues in real time.

3D printing is transforming prosthetics and implants, allowing for customized solutions that fit patients perfectly. It’s also being used to create tissue and organ models for surgical planning.

Stem cell therapy and tissue engineering are leading to breakthroughs in healing damaged tissues and organs, offering potential cures for previously untreatable conditions.

flow chat


start
do you have any registration here???
no
o register by giving inputs such as name,age etc
yes
you can now take an appointment
take the date of appointment as input
check if the slot is available or not
no
sorry for the inconvenience please select another slot
yes
print that your appointment is scheduled
if you want to view your application you can
End

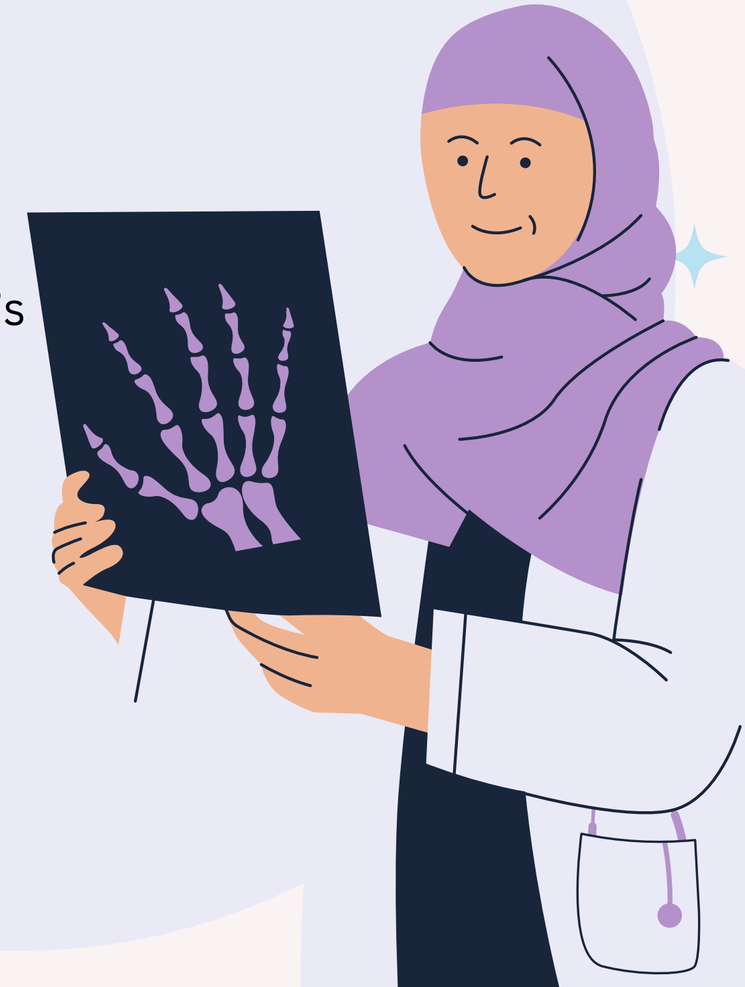
ALGORITHM

1 . START
2.take registration from the patient
3.enter all the inputs required for t he registration.
4.Take an appointment by giving inputs patient-ID and date on which t hey wish to have an appointment.
5.checking whether the slot is available or not .if not send them again to book another slot.
6.They can view their appointment again.
7.END

PSEUDOCODE

create array of structure with members(name,age,gender,phno,date & time)
print available services and their values
1.patient registration
2.appointment
3.view patient details
4.view apointment details
initialize a=1
while (a!=0){
ask for service value
check value of service
if service=1 { check if patientcount is >10{
print “maximum patients registered”.
}
else
{ ask user for his details,
1.name
2.age
3.gender
4.phno

display patientID
increment patientcount
}
}
if service=2{ask user whether he registered or not.
if user didn’t registered{
register patient details
}
ask user for patientID.
ask user for appointment’s date & time & save in resective patient’s acccount using ID.
display appointment is done
}
if service=3{ask user for patient ID.
display patients details i.e. name,age,gender&phno using ID.
}
if service=4{ask user for patient ID.
Display patients appointment details
i.e.,date & time using ID }



ask user for another service.
save his response in variable ‘a’.
}
Display “Thanks for visiting”
}

Code

```
#include
 int i=0;
 typedef struct {
 char name[10];
 int age;
 char gender[11];
long phno;
char date[10];
 char time[6];
 }patient;
 patient pnt[10];
 void register patient(){
if (i>9){
printf(“maximum no of patients had registered\n”);
}
else{
 printf(“enter your details.”);
printf(“\n name (within 10 letters):”);
scanf(“%s”,pnt[i].name);
```

```
printf(“Age:”);
 scanf(“%d”,&pnt[i].age);
 printf(“Gender:”);
scanf(%s,pnt[i].gender);
printf(“contact no:”);
scanf(“%s”,pnt[i].phno);
 printf(“you have succesfully registered.your patient ID is %d.\n,i+1);
 }
 i++;
 }
 int show_patient_details(int i){
 printf(“\n Name :%s”,pnt[i].name);
 printf(\n Age:%d”,pnt[i].age);
 printf(“\n gender :%s”,pnt[i].gender);
 printf(“\n contact no:%s”,pnt[i].phno);
return 0;
}
```

```
int appointment (int i ){
 printf(“Date(eg.02-10-2024):”);
 scanf(“%s”,pnt[i].date);
printf(“time(eg.9:30am):”);
 scanf(“%s”,pnt[i].time);
printf(“your appointment has done”);
 return 0;
 }
int show_appointment_details(int i){
 printf(“\n Date:%s”,pnt[i].date);
 printf(“\n Time:%s”,pnt[i].time);
 }
void ser(int service){
int id;
 switch(service){
 case 1: registerpatient();
break;
 case 2 :printf(“did you had registered?(if yes enter 1
else 0):”);
```

```
int regstatus;
 scanf(“%d”,®status);
 if(regstatus==0){
 registerpatient();
 }
printf(“enter your patientID:”);
 scanf(“%d”,&id); appointment(id-1);
 break;
case 3 :printf(“enter your patientID:”);
scanf(“%d”,&id); show_patient_details(id-1);
 break;
case 4 :printf("enter your patientID:”);
scanf(“%d”,&id); show_appointment_details(id-1);
 break;
 }
 }
```

```
int main(){
printf(“welcome to ABCD hospitals :”);
printf(“\n available sevices:”);
 printf(“\n 1.Patient registration”);
 printf(“\n 2.Appointment for doctor consult.”);
printf(“\n 3.view patient details.”);
printf(“\n 4.view appointment details.”);
int a=1;
while(a!=0){
 int service; printf(“\n Enter the corresponding number for the service,you want:”);
scanf(“%d”,&service);
 ser(service);
 printf(“\n Do you want any other service(if yes press 1 else 0):”);
 scanf(“%d”,&a);
 }
 printf(“ Thanks for visiting ABCD hospitals.\n”);
return 0;
 }
```

Thank you for your attention