

# 'C' MINI PROJECT REPORT

MEDICAL APPOINTMENT SYSTEM



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EXPERIENCE A VOYAGE OF EFFICIENCY AND SIMPLICITY AS OUR PROJECT PRESENTS A C PROGRAMMED MEDICAL APPOINTMENT SYSTEM. FIND OUT HOW THIS SYSTEM MAY IMPROVE AND REVOLUTIONIZE THE MANAGEMENT OF MEDICAL APPOINTMENTS, RESULTING IN MORE ACCESSIBLE AND USER-FRIENDLY HEALTHCARE

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## Introduction:

The goal of the Medical Appointment System project is to streamline the process of making medical appointments with a small but powerful software solution. This project uses the C programming language to construct an application that is both user-friendly and efficient in response to the demand for a basic and streamlined appointment system. This report describes the project's goals, salient characteristics, and integration of core programming ideas.

## Problem Statement:

Traditional methods of scheduling medical appointments often involve manual processes, leading to potential errors, inefficiencies, and patient dissatisfaction. The challenges include:

- Time-consuming appointment booking processes.
- Difficulty in managing doctor schedules and availability.
- Lack of a systematic approach leading to confusion.
- Limited accessibility to information regarding health checkups and medical tests.

## Solution:

The Medical Appointment System is a concise software solution developed in the C language to meet the project objectives. It focuses on providing a straightforward user interface and efficient backend processes for managing appointments.

**1. Doctor Appointment Booking:** An interface that allows users to view doctor availability and book appointments.

**2. Medical Test Appointments:** A feature for booking appointments specifically for medical tests.

**3. Health Checkup Scheduling:** Users can schedule appointments for comprehensive health checkups

**4. About our services:** Users can access relevant information about the medical centre, enhancing their overall experience.

**5. Contact us:** Users can contact with the medical centre.

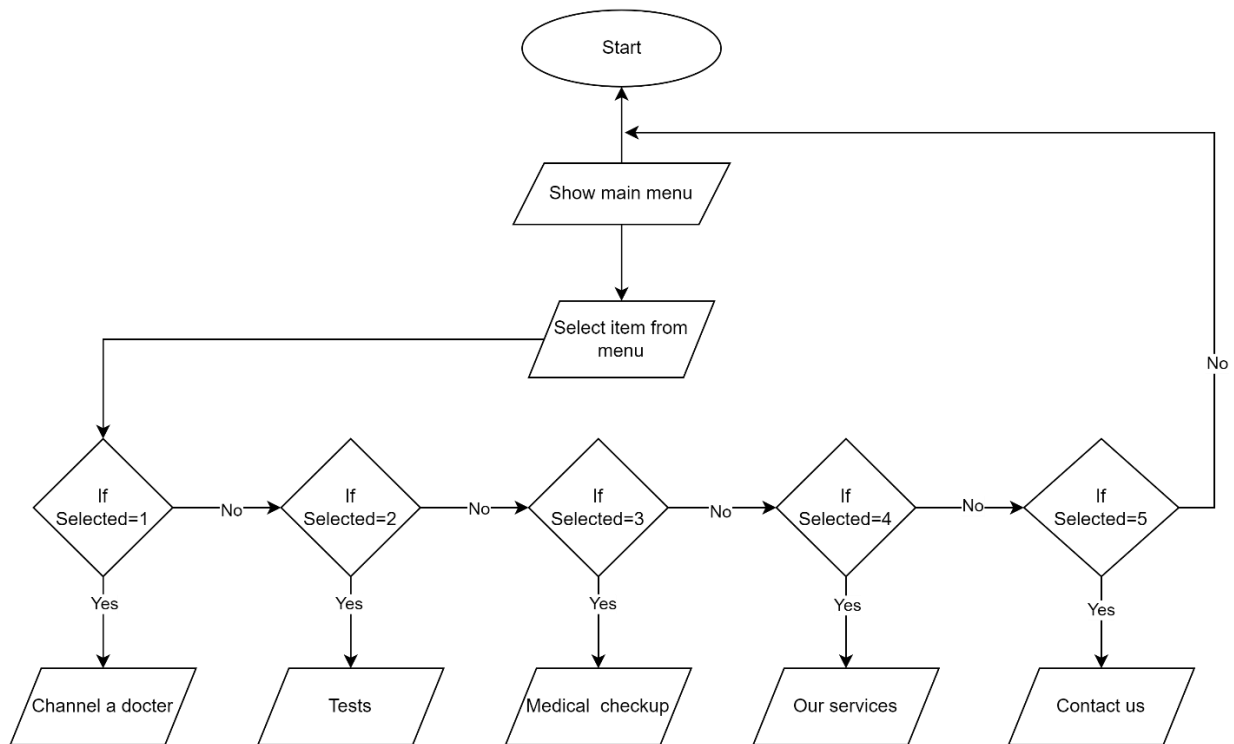
## Implementation of the system

The project leverages the C programming language for its efficiency, simplicity, and low-level system access. Key aspects include:

- **Structured Programming:** Utilizing functions, structures, and modular programming for organized code.
- **File Handling:** Managing user data and appointment information through file handling in C.

# Flow charts

❖ The flowchart of main menu shown below.



➤ This is how it shown

```

C:\Users\ghani\Desktop\C PI
*****
WELCOME TO THE
SUMAYA
MEDICAL CENTER
*****

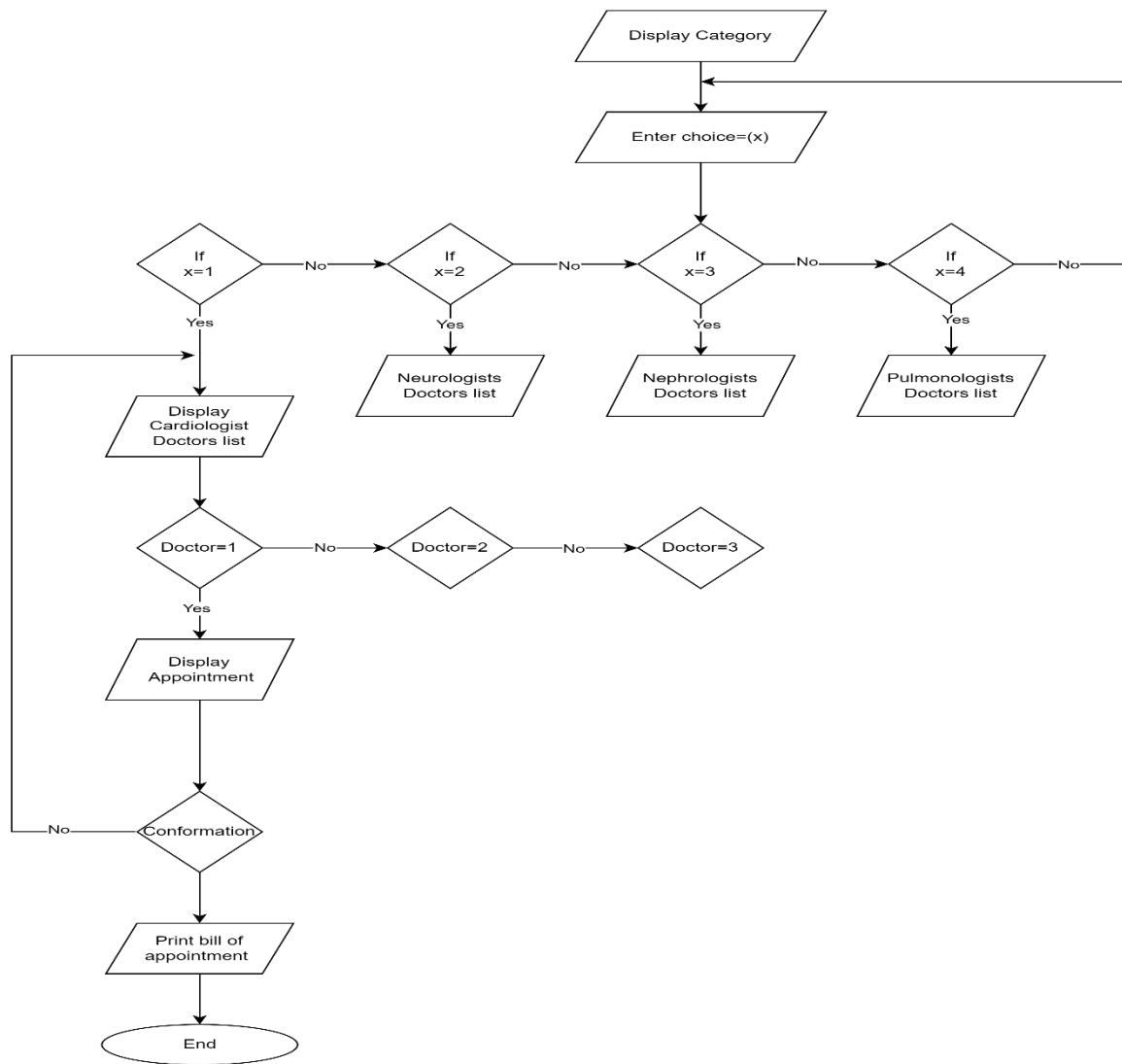
"Exceeding patient expectations by the advancement of quality medical services and setting the standard in the new century for health, healing & comfort"
The school aims to train and develop young, talented individuals for future nursing positions within the Group. It focuses on building and enhancing the
skills, attitudes and behaviours that are essential for the professional growth and development of nursing professionals at the SUMAYA Group of Hospitals.

Welcome, We Are Offering Below Services For You.
Please Choose What you Want to...

[ 01 ] CHANNEL A DOCTOR
[ 02 ] TESTS
[ 03 ] MEDICAL CHECKUP
[ 04 ] OUR SERVICES
[ 05 ] CONTACT US

Enter Your Requirement Code:
  
```

❖ The flowchart of select doctors section shown below.



➤ This is how it shown

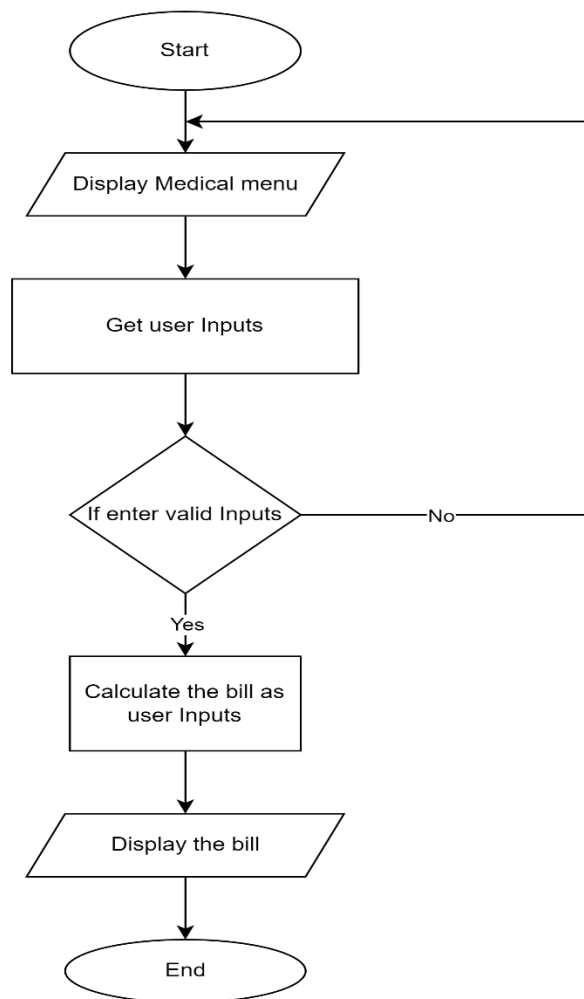
```

Choose An Section For Chanelling

[ 01 ] Cardiologists (Heart specialists)
[ 02 ] Neurologists (Nervous system specialists)
[ 03 ] Nephrologists (Kidney specialists)
[ 04 ] Pulmonologists (Respiratory system specialists)

Enter Choice Go Forward Press '1'/'2'/'3'/'4':
Enter Choice Go Backword Press '0':
  
```

❖ The flowchart of Test section shown below.



➤ This is how it shown

```

=====
MEDICAL TESTS
=====
Medical tests can help detect a condition, determine a diagnosis, plan treatment,
check to see if treatment is working, r monitor the condition over time.
A doctor may order these tests as part of a routine checkup,
to check for certain diseases and disorders, or to monitor your health.

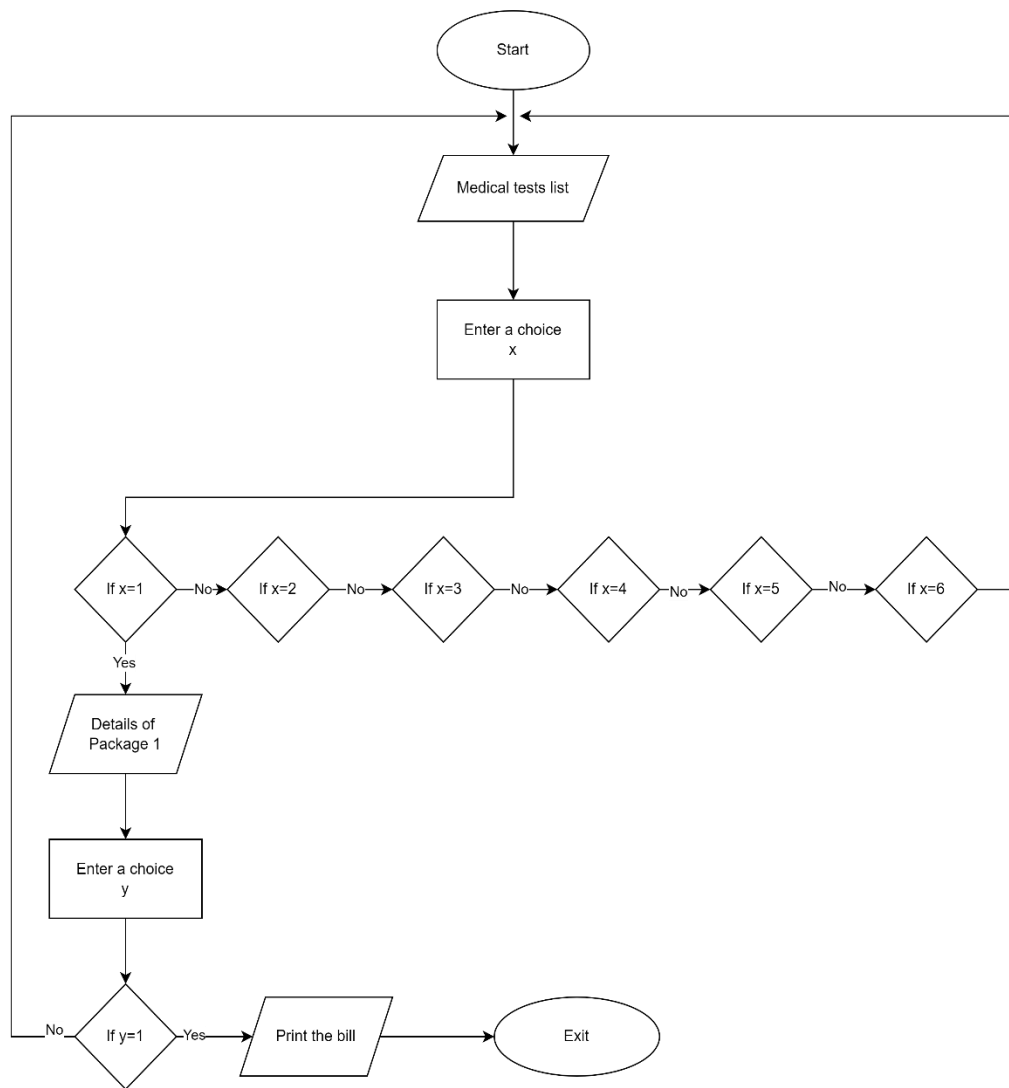
we offer below medical tests for you!::

[01].Blood Test - Rs.500/=
[02].Urine Test - Rs.450/=
[03].X-ray - Rs.800/=
[04].MRI - Rs.25000/=
[05].ECG - Rs.550/=

Enter your choice 1 to 5,(If you don't need one,press 0 for it).
You can choose 5 test per time:
*Press '6' for Previous Page:
1
2
3
0
5
  
```

The screenshot shows a terminal window titled "C:\Users\gihan\Desktop\C PI". The content displays a menu titled "MEDICAL TESTS" with a description of medical tests and a list of five options with their respective costs. It prompts the user to enter a choice from 1 to 5, or 0 if they don't need one, and allows for up to 5 tests per time. A prompt for pressing '6' to go to the previous page is also visible.

❖ The flowchart of Medical checkups section shown below.



➤ This is how it shown

```

*****
Health Check Packages
*****

(1) Starter Health Check Package
(2) Essential Health Check Package
(3) Essential Plus Health Check Package
(4) Professional Health Check Package
(5) Premium Male Health Check Package

Select a package(1-5)
Press '6' for Main Menu
Enter Your Package:
  
```



# Pseudo codes

## Home page

```

BEGIN
    DISPLAY listoffers
INPUT choice THEN
IF(choice=1) THEN
    PRINT "Channel A Doctor"
IF(choice=2) THEN
    PRINT "Appointment For Tests"
IF(choice=3) THEN
    PRINT "Medical Checkups"
IF(choice=4) THEN
    PRINT "Services"
IF(choice=5) THEN
    PRINT "Contact Us"
ELSE
    PRINT "Invalid No"
END IF
END IF
END IF
END IF
END IF

```

## Doctor channeling page

```

BEGIN

    DISPLAY Category

INPUT selection THEN
IF(selection =1) THEN
    PRINT " Cardiologists"
    DISPLAY
    cardiologydoctorlist();
    DISPLAY Select A Doctor;
    IF (choice='Y') THEN
        PRINT bill();
    Else IF(choice='N')THEN
        RETURN listoffers();
    ELSE
        PRINT "Invalid No"
END IF
END IF

```

## Test page

BEGIN

PRINT "Display Medical Tests"

total = 0 ;

choices = [0] \* 5

test\_prices = [500, 450, 800, 25000, 550]

test\_names = ["Blood Test", "Urine Test", "X-ray", "MRI", "ECG"]

FOR i in range(5):

choices[i] = input()

IF choices[i] < 0 or choices[i] > 6: THEN

PRINT "Invalid choice"

ELSE IF choices[i] == 6: THEN

listoffer()

ELSE:

total += test\_prices[choices[i]]

PRINT bill();

END IF

END IF

## Checkup page

```
BEGIN
DISPLAY firstCheckup()
INPUT choice THEN
IF(choice=1) THEN
    PRINT " Starter Health Check Package"
    DISPLAY HealthCheckup1();
    PRINT bill();
IF(choice=2) THEN
    PRINT " Essential Health Check Package"
    DISPLAY HealthCheckup2();
    PRINT bill();
IF(choice=3) THEN
    PRINT " Essential Plus Health Check Package"
    DISPLAY HealthCheckup3();
    PRINT bill();IF(choice=4) THEN
    PRINT " Professional Health Check Package"
    DISPLAY HealthCheckup4();
    PRINT bill();
IF(choice=5) THEN
    PRINT " Premium Male Health Check Package"
    DISPLAY HealthCheckup5();
    PRINT bill();
ELSE
    PRINT "Invalid No"
END IF
END IF
END IF
END IF
```

## Services page

BEGIN

GET user input

DISPLAY services()

IF (answer==1)

listoffers()

ELSE IF(answer==0)

exit(0)

ELSE

PRINT "Invalid"

END IF

END IF

## Contact us page

BEGIN

GET user input

DISPLAY contactus()

IF (answer==1)

listoffers()

ELSE IF(answer==0)

exit(0)

ELSE

PRINT "Invalid"

END IF

END IF

## Report—Medical center appointment system

```

Start here X mioni project c final final.c X
109 scanf("%d",&selection);
110
111 if (selection == 1){
112     doctorlistCardiologists();
113 }
114 else if (selection == 2){
115     doctorlistNeurologists();
116 }
117 else if (selection == 3){
118     doctorlistNephrologists();
119 }
120 else if (selection == 4){
121     doctorlistPulmonologists();
122 }
123 else if (selection == 0){
124     system("cls");
125     listoffer();
126 }
127 else{
128     printf("Wrong ");
129 }
130 }
131
132 void selectCategory(){
133
134 int choice;
135 printf("\nEnter code to continue\n");
136 scanf("%d",&choice);
137
138 switch (choice){
139     case 1:
140         doctorlistCardiologists();
141         break;
142     case 2:
143         doctorlistNeurologists();
144         break;
145     case 3:
146         doctorlistNephrologists();
147         break;
148     case 4:
149         doctorlistPulmonologists();
150         break;
151     default:
152         printf("Enter Valid a Number\n");
153 }
154 }
155
156 void doctorlistCardiologists(){
157     system("cls");
158     printf("\nChoose An Doctor For Challenging\n\n");
159     printf(" [ 01 ] Dr.Kamun Lakmal Siriwardenathana\n\t(MD/Ph.D.),MBBS MRCP(UK),PhD(Cantab),FESC,FRCP(Glasgow)\t\t(Monday 6.00 p.m.- 9.00 p.m.)\n\n");
160     printf(" [ 02 ] Dr.Jeevantha Herath\n\t(MD/Ph.D.),MBBS MRCP(UK),PhD(Uo),FESC,FRCP(DDC)\t\t\t\t(Thursday 11.00 a.m.- 6.00 a.m.)\n\n");
161     printf(" [ 03 ] Dr.Chandana Kumara\n\t(MBBS MRCP(UK),PhD(ADS)\t\t\t\t\t\t\t\t(Thursday 3.00 p.m.- 7.00 p.m.)\n\n");
162
163 int selection;
164 printf("Enter Choice Go Forward Press '1'/'2'/'3':\n\n");
165 printf("Enter Choice Go Backward Press'0': ");
166 scanf("%d",&selection);
167
168 if (selection == 1){
169     CardiologistsDoc01();
170 }
171 else if (selection == 2){
172     CardiologistsDoc02();
173 }
174 else if (selection == 3){
175     CardiologistsDoc03();
176 }
177 else if (selection == 0){
178     system("cls");
179     chooseSpecification();
180 }
181 }
182
183 else{
184     printf("You Entered Wrong Number.Please Enter Correct Number\n");
185     doctorlistCardiologists();
186 }
187 }
188
189 void CardiologistsDoc01(){
190     system("cls");
191     printf("Are You Sure,You Want To Get An Appointment For Dr.Kamun Lakmal Siriwardenathana\n\n");
192     answer01();
193 }
194
195 void CardiologistsDoc02(){
196     system("cls");
197     printf("Are You Sure,You Want To Get An Appointment For Dr.Jeevantha Herath\n\n");
198     answer01();
199 }
200
201 void CardiologistsDoc03(){
202     system("cls");
203     printf("Are You Sure,You Want To Get An Appointment For Dr.Chandana Kumara\n\n");
204     answer01();
205 }
206
207 void doctorlistNeurologists(){
208     system("cls");
209     printf("\nChoose An Doctor For Challenging\n\n");
210     printf(" [ 01 ] Dr.Kamun Siriwardenathana\n\t(MD/Ph.D.),MBBS MRCP(UK),PhD(Cantab),FESC,FRCP(Glasgow)\t\t(Monday 6.00 p.m.- 9.00 p.m.)\n\n");
211     printf(" [ 02 ] Dr.Jeevantha Herath\n\t(MD/Ph.D.),MBBS MRCP(UK),PhD(Uo),FESC,FRCP(DDC)\t\t\t\t(Thursday 10.00 a.m.- 1.00 p.m.)\n\n");
212     printf(" [ 03 ] Dr.Dilasa Thastumaka\n\t(MBBS MRCP(UK),PhD(ADS)\t\t\t\t\t\t\t\t(Thursday 3.00 p.m.- 7.00 p.m.)\n\n");
213
214 int selection;
215 printf("Enter Choice Go Forward Press '1'/'2'/'3':\n\n");
216 printf("Enter Choice Go Backward Press'0': ");
217 scanf("%d",&selection);
218
219 if (selection == 1){
220     NeurologistsDoc01();
221 }
222 }

```

```

Start here X mioni project c final final.c X
217 }
218 else if (selection == 2){
219     NeurologistsDoc02();
220 }
221 else if (selection == 3){
222     NeurologistsDoc03();
223 }
224 else if(selection == 0 ){
225     system("cls");
226     chooseSpecification();
227 }
228 else{
229     printf("You Entered Wrong Number.Please Enter Correct Number\n");
230     doctorlistNeurologists();
231 }
232 }
233 void NeurologistsDoc01(){
234     system("cls");
235     printf("\nAre You Sure,You Want To Get An Appointment For Dr.Rasuni hettiasachchi\n\n");
236     answer02();
237 }
238 void NeurologistsDoc02(){
239     system("cls");
240     printf("\nAre You Sure,You Want To Get An Appointment For Dr.Ignara laknash\n\n");
241     answer02();
242 }
243 void NeurologistsDoc03(){
244     system("cls");
245     printf("\nAre You Sure,You Want To Get An Appointment For Dr.Dalara Thashnika\n\n");
246     answer02();
247 }
248 }
249 void doctorlistNephrologists(){
250     system("cls");
251     printf("\nChoose An Doctor For Chanelling\n\n");
252 }
253
Start here X mioni project c final final.c X
253 printf(" [ 01 ] Dr.Savantha Dilshan\n\t(MD/Ph.D.),MBBS MRCP(UK,PhD(Cantab),FESC,FRCP(Glasgow)\t\t(Monday 6.00 p.m.- 9.00 p.m.)\n\n");
254 printf(" [ 02 ] Dr.Kanchana Herath\n\t(MD/Ph.D.),MBBS MRCP(UK,PhD(UK),FESC,FRCP(UOC)\t\t\t\t\t(Thursday 9.00 a.m.- 10.00 a.m.)\n\n");
255 printf(" [ 03 ] Dr.Chandani Sumari \n\t(MBBS MRCP(UK,PhD(ANZ)\t\t\t\t\t\t\t\t\t\t\t(Thursday 2.00 p.m.- 7.00 p.m.)\n\n");
256
257 int selection;
258 printf("Enter Choice Go Forward Press '1'/'2'/'3'\n\n");
259 printf("Enter Choice Go Backward Press'0' :\n");
260 scanf("%d",&selection);
261
262 if (selection == 1){
263     NephrologistsDoc01();
264 }
265 else if (selection == 2){
266     NephrologistsDoc02();
267 }
268 else if (selection == 3){
269     NephrologistsDoc03();
270 }
271 else if(selection == 0 ){
272     system("cls");
273     chooseSpecification();
274 }
275 else{
276     printf("You Entered Wrong Number.Please Enter Correct Number\n");
277     doctorlistNephrologists();
278 }
279 }
280 void NephrologistsDoc01(){
281     system("cls");
282     printf("\nAre You Sure,You Want To Get An Appointment For Dr.Savantha Dilshan\n\n");
283     answer03();
284 }
285 void NephrologistsDoc02(){
286     system("cls");
287     printf("\nAre You Sure,You Want To Get An Appointment For Dr.Kanchana Herath\n\n");
288     answer03();
289 }
290
Start here X "mioni project c final final.c X
289 }
290 void NephrologistsDoc03(){
291     system("cls");
292     printf("\nAre You Sure,You Want To Get An Appointment For Dr.Chandani Sumari\n\n");
293     answer03();
294 }
295 }
296 void doctorlistPulmonologists(){
297     system("cls");
298     printf("\nChoose An Doctor For Chanelling\n\n");
299     printf(" [ 01 ] Dr.Rasuni Shehara\n\t(MD/Ph.D.),MBBS MRCP(UK,PhD(Cantab),FESC,FRCP(Glasgow)\t\t(Monday 6.00 p.m.- 9.00 p.m.)\n\n");
300     printf(" [ 02 ] Dr.Lakisha Ranawaka\n\t(MD/Ph.D.),MBBS MRCP(UK,PhD(UK),FESC,FRCP(UOC)\t\t\t\t\t(Thursday 9.00 a.m.- 11.00 a.m.)\n\n");
301     printf(" [ 03 ] Dr.Rasuni Manthiaka \n\t(MBBS MRCP(UK,PhD(ANZ)\t\t\t\t\t\t\t\t\t\t\t(Thursday 3.00 p.m.- 7.00 p.m.)\n\n");
302
303
304 int selection;
305 printf("Enter Choice Go Forward Press '1'/'2'/'3'\n\n");
306 printf("Enter Choice Go Backward Press'0' :\n\n");
307 scanf("%d",&selection);
308
309 if (selection == 1){
310     PulmonologistsDoc01();
311 }
312 else if (selection == 2){
313     PulmonologistsDoc02();
314 }
315 else if (selection == 3){
316     PulmonologistsDoc03();
317 }
318 else if(selection == 0 ){
319     system("cls");
320     chooseSpecification();
321 }
322 else{
323     printf("You Entered Wrong Number.Please Enter Correct Number\n");
324     doctorlistPulmonologists();
325 }
326 }

```

```

Start here X *mioni project c final final.c X
325 }
326 }
327 void PulmonologistsDoc01() {
328     system("cls");
329     printf("\nAre You Sure, You Want To Get An Appointment For Dr. Rasun Shekhara? \n\n");
330     answer04();
331 }
332 void PulmonologistsDoc02() {
333     system("cls");
334     printf("\nAre You Sure, You Want To Get An Appointment For Dr. Lakshya Manavady? \n\n");
335     answer04();
336 }
337 void PulmonologistsDoc03() {
338     system("cls");
339     printf("\nAre You Sure, You Want To Get An Appointment For Dr. Rasun Manthilake? \n\n");
340     answer04();
341 }
342 void answer01() {
343     char answer[3];
344     printf("Enter Choice Go Forward Press: ('Y'/'y') \n\n Enter Choice Go Backward Press: ('N'/'n') ");
345     scanf(" %c", &answer[0]);
346     if (answer[0] == 'Y' || answer[0] == 'y') {
347         bill101();
348         choiceFinal01();
349     }
350     else if (answer[0] == 'N' || answer[0] == 'n') {
351         //system("cls");
352         doctorListCardiologists();
353     }
354     else {
355         printf("invalid input");
356     }
357 }
358 }
359 }
360 }
361 }
362 }
363 }
364 void answer02() {
365     char answer[3];
366     printf("\n Enter Choice Go Forward Press: ('Y'/'y') \n\n Enter Choice Go Backward Press: ('N'/'n') ");
367     scanf(" %c", &answer[0]);
368     if (answer[0] == 'Y' || answer[0] == 'y') {
369         printf("kkkk");
370         bill102();
371         choiceFinal02();
372     }
373     else if (answer[0] == 'N' || answer[0] == 'n') {
374         printf("nnnn");
375         //system("cls");
376         doctorListNeurologists();
377     }
378     else {
379         printf("invalid input");
380     }
381 }
382 }
383 }
384 void answer03() {
385     char answer[3];
386     printf("\n Enter Choice Go Forward Press: ('Y'/'y') \n\n Enter Choice Go Backward Press: ('N'/'n') ");
387     scanf(" %c", &answer[0]);
388     if (answer[0] == 'Y' || answer[0] == 'y') {
389         bill103();
390         choiceFinal03();
391     }
392     else if (answer[0] == 'N' || answer[0] == 'n') {
393         //system("cls");
394         doctorListMephrologists();
395     }
396     else {
397         printf("invalid input");
398     }
399 }
400 }
401 }
402 void answer04() {
403     char answer[3];
404     printf("\n Enter Choice Go Forward Press: ('Y'/'y') \n\n Enter Choice Go Backward Press: ('N'/'n') ");
405     scanf(" %c", &answer[0]);
406     if (answer[0] == 'Y' || answer[0] == 'y') {
407         bill104();
408         choiceFinal04();
409     }
410     else if (answer[0] == 'N' || answer[0] == 'n') {
411         //system("cls");
412         doctorListPulmonologists();
413     }
414     else {
415         printf("invalid input");
416     }
417 }
418 }
419 }
420 void bill101() {
421     system("cls");
422 }

```



[illegible][illegible]

```

Start here X "mioni project c final final.c" X
505 int answer;
506 printf("Enter Choice Go Backward Press '1':\n\nEnter Choice Go Main Menu Press '2':\n\nExit Channelling Press'0' ");
507 scanf("%d",&answer);
508 if(answer==1){
509     system("cls");
510     doctorlistNeurologists();
511 }
512 }
513 else if(answer==2){
514     system("cls");
515     listoffer();
516 }
517 }
518 else if(answer==0){
519     system("cls");
520     exit(0);
521 }
522 }
523 else{
524     printf("Invalid input");
525 }
526 exit(0);
527 }
528 void choiceFinal03(){
529     int answer;
530     printf("Enter Choice Go Backward Press '1':\n\nEnter Choice Go Main Menu Press '2':\n\nExit Channelling Press'0' ");
531     scanf("%d",&answer);
532     if(answer==1){
533         system("cls");
534         doctorlistNephrologists();
535     }
536 }
537 else if(answer==2){
538     system("cls");
539     listoffer();
540 }

```

```

541 -|
542 |else if(answer==0){
543 |
544 |    system("cls");
545 |    exit(0);
546 -|
547 |else{
548 |    printf("invalid input");
549 -|
550 |    exit(0);
551 -|
552 |void choiceFinal04() {
553 |
554 |
555 |
556 |
557 |    int answer;
558 |    printf("Enter Choice Go Backward Press '1'\n\nEnter Choice Go Main Menu Press '2'\n\nExit (Challenging Press'0' ");
559 |    scanf("%d",&answer);
560 |    if(answer==1){
561 |        system("cls");
562 |        doctorListPulmonologists();
563 |
564 -|
565 |else if(answer==2){
566 |
567 |    system("cls");
568 |    listoffer();
569 -|
570 -|
571 |else if(answer==0){
572 |
573 |    system("cls");
574 |    exit(0);
575 -|
576 |else{

```

[illegible]

```

613
614
615 for (i = 0; i < 5; i++) {
616     printf("\n\t\t\t\t\t");
617     scanf("%d", &choices);
618     if (choices < 0 || choices > 6) {}
619     printf("Invalid");
620
621 }
622 else{
623
624
625 switch (choices) {
626 case 1:
627     strcpy(x[i], "\n\t\t\t\t\tBlood Test = 500");
628     total += 500;
629     break;
630 case 2:
631     strcpy(x[i], "\n\t\t\t\t\tUrine Test = 450");
632     total += 450;
633     break;
634 case 3:
635     strcpy(x[i], "\n\t\t\t\t\tX-ray = 800");
636     total += 800;
637     break;
638 case 4:
639     strcpy(x[i], "\n\t\t\t\t\tMRI = 25000");
640     total += 25000;
641     break;
642 case 5:
643     strcpy(x[i], "\n\t\t\t\t\tECG = 550");
644     total += 550;
645     break;
646 case 6:
647     system("cls");
648     listoffer();

```

[illegible][illegible]

```

721
722     switch (num) {
723     case 1:
724         HealthCheckup1();
725         break;
726     case 2:
727         HealthCheckup2();
728         break;
729     case 3:
730         HealthCheckup3();
731         break;
732     case 4:
733         HealthCheckup4();
734         break;
735     case 5:
736         HealthCheckup5();
737         break;
738     case 6:
739         listoffer();
740         break;
741     default:
742         printf("\n\tEnter Correct Number");
743         //system("cls");
744         mainCheckup();
745         firstCheckup();
746     }
747 }
748 void HealthCheckup1() {
749
750     system("cls");
751     int num, num1;
752     float num2=6450.00;
753     printf("\n\t(1) Starter Health Check Package\n\n");
754     printf("\n\tThis includes \n\n\t*Full Blood Count (General Body Condition)\n\n\t*Fasting Blood Sugar (Glucose Levels)\n\n\t*Cholesterol (Cardiac Health)\n\n\t*Triglycerides (Cardiac Health)\n\n\t*Creatinine & eGFR (Kidney & Renal Hea
755     printf("\n\t*Price Rs.6,450.00\n\n");
756     printf("\n\tIf you select this package press \n\n\t*For previous page press 2 * ");

```

```

721
722 switch (num) {
723     case 1:
724         HealthCheckup1();
725         break;
726     case 2:
727         HealthCheckup2();
728         break;
729     case 3:
730         HealthCheckup3();
731         break;
732     case 4:
733         HealthCheckup4();
734         break;
735     case 5:
736         HealthCheckup5();
737         break;
738     case 6:
739         listoffer();
740         break;
741     default:
742         print("\n\tEnter Correct Number");
743         //system("cls");
744         mainCheckup();
745         firstCheckup();
746     }
747 }
748
749 void HealthCheckup1() {
750     system("cls");
751     int num, num1;
752     float num2=1450.00;
753     printf("\n\t1) Starter Health Check Package\n\n");
754     printf("\n\tThis includes \n\n\tFull Blood Count (General Body Condition)\n\n\tFasting Blood Sugar (Glucose Levels)\n\n\tCholesterol (Cardiac Health)\n\n\tTriglycerides (Cardiac Health)\n\n\tCreatinine & eGFR (Kidney & Renal Hea
755     printf("\n\tFor select this package press \n\n\tFor previous page press 2 : ");

```

```

721 Start Here X *mioni project c final final.c X
722 switch (num) {
723 case 1:
724     HealthCheckup1();
725     break;
726 case 2:
727     HealthCheckup2();
728     break;
729 case 3:
730     HealthCheckup3();
731     break;
732 case 4:
733     HealthCheckup4();
734     break;
735 case 5:
736     HealthCheckup5();
737     break;
738 case 6:
739     listOffer();
740     break;
741 default:
742     printf("\n\tEnter Correct Number");
743     //system("cls");
744     mainCheckup();
745     firstCheckup();
746 }
747 }
748 @void HealthCheckup1() {
749
750     system("cls");
751     int num, num1;
752     float num2=450.00;
753     printf("\n\t1) Starter Health Check Package\n\n");
754     printf("\n\tThis includes \n\n\tFull Blood Count (General Body Condition)\n\n\tFasting Blood Sugar (Glucose Levels)\n\n\tCholesterol (Cardiac Health)\n\n\tTriglycerides (Cardiac Health)\n\n\tCreatinine & eGFR (Kidney & Renal Hea
755     printf("\n\tPrice Rs.6,450.00\n\n");
756     printf("\n\tFor select this package press 1\n\n\tFor previous page press 2 : ");

```

[illegible]

[illegible]

```
Show here x *mioni project c final final.c X
```

```
865 system("cls");  
866 int num,sum;  
867 float mm=9000.00;  
868 printf("\n(3) Essential Plus Health Check Package\n");  
869 printf("This includes \n\tFull Blood Count (General Body Condition)\n");  
870 printf("\tFasting Blood Sugar (Glucose Levels)\n\tHbA1c (Diabetes - Glucose Levels)\n\tHdl/LdL Cholesterol (Early Detection of Diabetes)\n\tLipid Profile (Cardiac Health)\n\tRenal Profile (Overall Kidney Health)\n\tLiver Prof  
871 printf("\tPSA (Prostate Cancer Detection - Males over 50 years)\n\tESR (Infections/Inflammation)\n\tTSH/T4 (Thyroid Function)\n\tUric Acid (Gout Risk Assessment)\n\tVitamin D Level (Bone Health)  
872 printf("\tChest X-ray (Lung Conditions) - Once every 3-5 years\n\tUltrasound Scan (Abdominal & Pelvis Investigation)\n\tECG (Heart Rhythm Screening)\n\tStress Test (If Recommended by Doctor)  
873 printf("Price Rs.49,000.00\n");  
874 printf("For select this package press 1\nFor previous page press 2 : ");  
875 scanf("%d",&num);  
876 system("cls");  
877 if (num==1){  
878     printf("You selected The Starter Package.\n");  
879     system("cls");  
880 }else{  
881     loadinganimation();  
882 }  
883 printf("\n\nYour Health Check Package Has Proceeded\n");  
884 printf("\n\t\t\t*****\n");  
885 printf("\n\t\t\tSONAYA MEDICAL CENTER          \n");  
886 printf("\n\t\t\t*****\n");  
887 printf("\n\t\t\t    \n");  
888 printf("\n\t\t\tYour Package fee is " );  
889 printf("Rs.");  
890 printf("\n\t\tVar %f ",mm);  
891 printf("\n\t\t      *****\n");  
892 printf("\n\t\t\tTotal Fee is " );  
893 printf("Rs.");  
894 printf("57020.00\n");  
895 printf("\n\t\t\t*****\n");  
896 printf("\n\t\t\tTHANK YOU ~~~~~~\n");  
897 printf("\n\t\t\t*****\n");  
898 printf("\n\nPress '1' for the previous page\npress '2' for main menu\npress '0' For Exit :");  
899 scanf("%d",&sum);  
900 if(sum==1)
```

```

Start here X *mioni project c final final.c X
901     system("cls");
902     printf("\n\tHealth Check Packages");
903     firstCheckup();
904
905 }
906 else if (num1==2){
907     system("cls");
908     listoffer();
909 }
910 else if (num1==0){
911     system("cls");
912     exit(0);
913 }
914 }
915
916
917 else
918 {
919     firstCheckup();
920     printf("\n\tHealth Check Packages");
921 }
922
923 void HealthCheckup4(){
924     system("cls");
925     int num,num1;
926     float num2=7500.00;
927     printf("\n\t(4) Professional Health Check Package\n\n");
928     printf("This includes \n\tFull Blood Count (General Body Condition)\n\n");
929     printf("Fasting Blood Sugar (Glucose Levels)\n\tHbA1c (Diabetes + Glucose Levels)\n\tCreatinine + eGFR (Kidney + Renal Health)\n\tLiver Profile (Liver Function + Health)\n\tTSH (Thyroid Generation)");
930     printf("\n\thsCRP (Inflammation/Identifying Heart Disease)\n\tUrine Full Report (General Body Condition)\n\tMicro Albumin (Kidney Health)\n\tStool Occult Blood (Bleeding in Lower Intestine)\n\tUltrasound Scan (Abdominal)");
931     printf("\n\tFull Medical Report\n\n");
932     printf("Price Rs.27,500.00\n");
933     printf("For select this package press 1\nfor previous page press 2 : ");
934     scanf("%d",#);
935     system("cls");
936     if (num==1){

```

[illegible]

[illegible]



## Conclusion

Medical center management system scenario, in which we got a solution for problem how to Channel A Doctor/Appointment for Tests/Appointment For Medical Checks by using automated software solution

Finally the purpose was successfully with our programme and it is possible to install this programme software for the medical center while minimizing the mistakes and difficulties.



## References

W3 Schools: <https://www.w3schools.com/c/index.php>

SL Android : <https://www.youtube.com/@SLAndroid>

## Individual Contribution

Enrollment Number	Name	Contribution
UWU/CST/22/020	W.H.G.L Bimsara	Find a problem and solution / Prepare a Presentation
UWU/CST/22/036	K.H.P.H Dayarathna	Prepared project report /Preparing video/ Create Flow Charts
UWU/CST/22/026	A.M Vidanage	Create Pseudo Codes / Preparing video
UWU/CST/22/054	R.M.T.D Senanayake	Create Flow Charts / Prepare Presentation

❖ Everyone Contribute For Coding.

