FINAL PROJECT REPORT

ABOUT

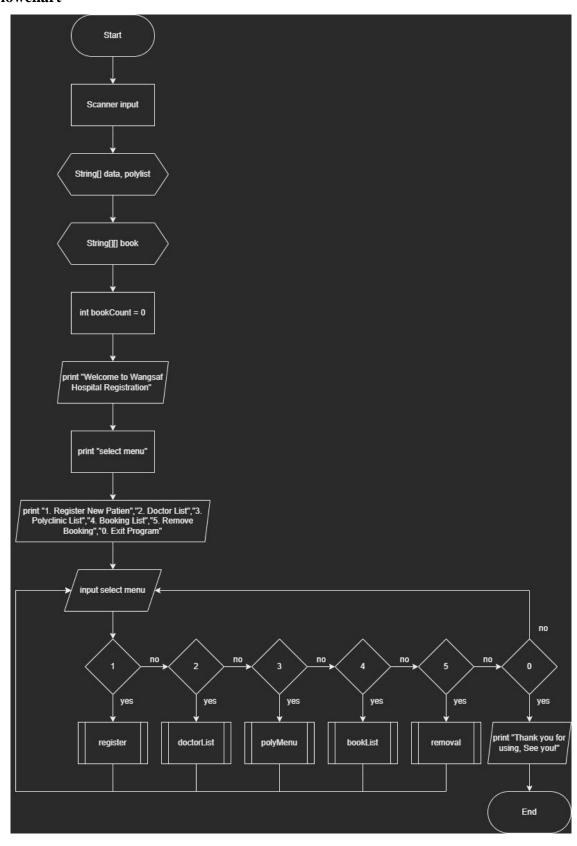
REGISTRATION AND BOOKING SYSTEM ON "WANGSAF" HOSPITAL

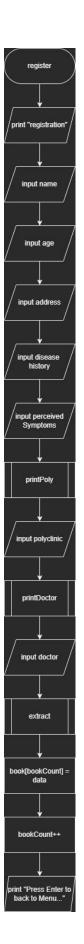
YANUAR THAIF CHALIL CANDRA 1I

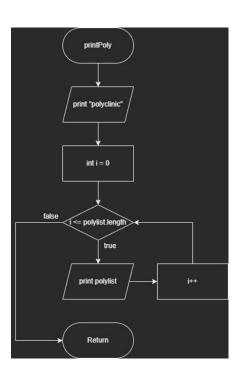


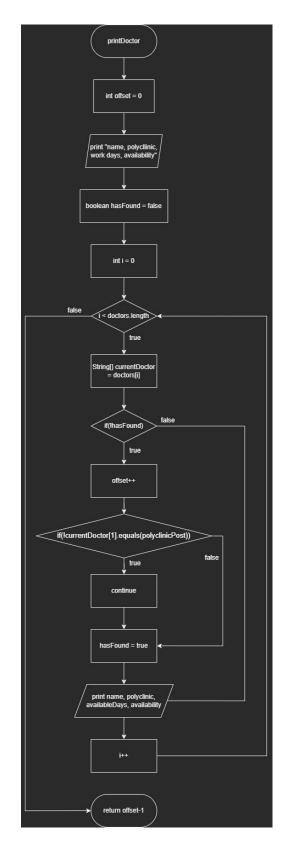
POLITEKNIK NEGERI MALANG DECEMBER 2022

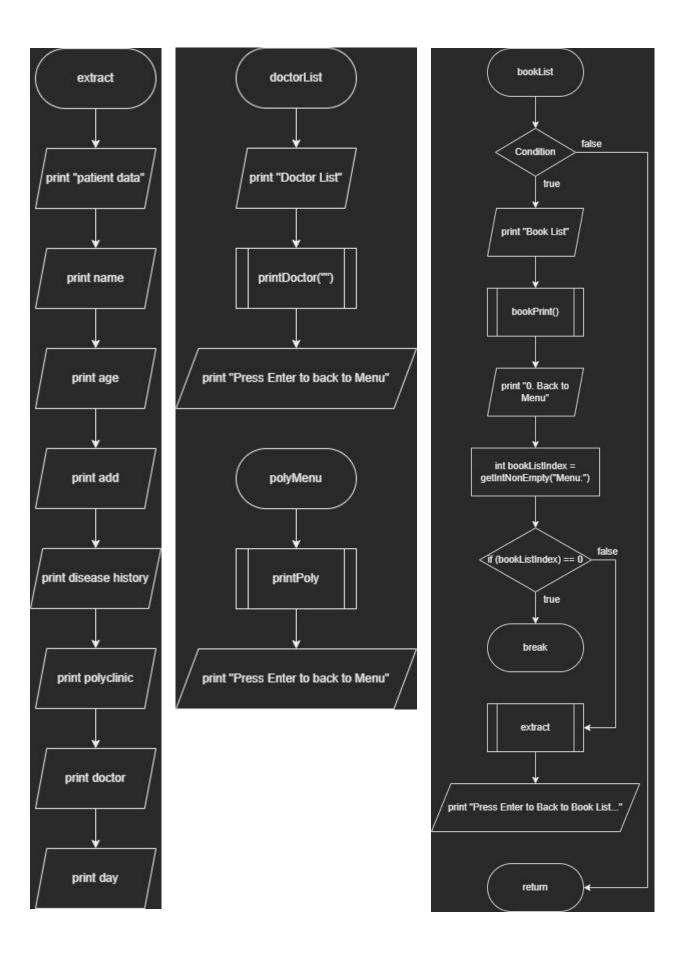
1.1 Flowchart

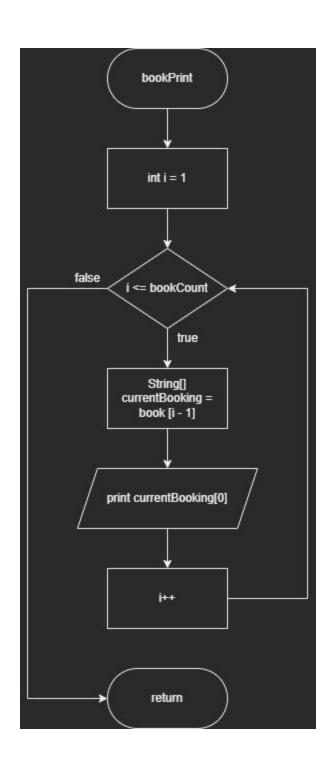


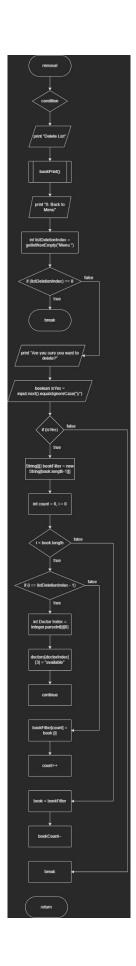








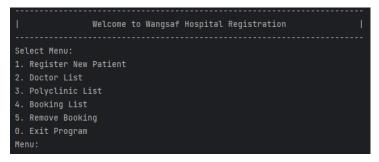




1.2 Steps to Run the Program

The following are the steps for running the application

1. This application consists of 6 menus, namely Register New Patient, Doctor List, Polyclinic List, Booking List, Remove Booking, and Exit Program



2. The first menu is Register New Patient, where we need to register all the patient data, selecting polyclinic and the doctor

I	Registration	1	
Patient Name Patient Age Patient Address Disease History Perceived Symptoms Polyclinic:			
L	Polyclinic		
1 . General Polyclinic 2 . Obstetrics Polyclin 3 . Children's Polyclin 4 . Eye Clinic 5 . Ear, Nose, Throat F 6 . Oral and Dental Pol	nic Polyclinic		
Polyclinic Selection			
Name	Polyclinic	Work Days	Availability
dr. Liam Byrne dr. Vincent Fabron dr. Sabine Callas	Ear, Nose, Throat Polyclinic	Thursday Monday Tuesday	available available available
Select Doctor			
I	Patient Data		
Age	Declare Street Number 9 Flu		
Press Enter to back to Mer	ບາ		

3. The second menu is consisting of the list of all Doctor, the availability will change to unavailable once we select the Doctor from the Registration menu

1	Doc	tor List		
Name	Polyclinic	Work Days	Availability	
dr. Johnny Sins	General Polyclinic	Monday	available	
dr. Hello World	General Polyclinic	Tuesday	available	
dr. Za Warudo	General Polyclinic	Thursday	available	
dr. Hoonee Haq	Obstetrics Polyclinic	Wednesday	available	
dr. Shaquille Oatmeal	Obstetrics Polyclinic	Friday	available	
dr. Yao Ming	Obstetrics Polyclinic	Monday	available	
dr. True Story	Children's Polyclinic	Tuesday	available	
dr. Not Bad	Children's Polyclinic	Wednesday	available	
dr. Lmao What	Children's Polyclinic	Friday	available	
dr. Trevor Philips	Eye Clinic	Thursday	available	
dr. Franklin Clinton	Eye Clinic	Friday	available	
dr. Michael de Santa	Eye Clinic	Monday	available	
dr. Liam Byrne	Ear, Nose, Throat Polyclinic	Thursday	available	
dr. Vincent Fabron	Ear, Nose, Throat Polyclinic	Monday	unavailable	
dr. Sabine Callas	Ear, Nose, Throat Polyclinic	Tuesday	available	
dr. Tayane Alves	Oral and Dental Polyclinic	Friday	available	
dr. Sunwoo Han	Oral and Dental Polyclinic	Tuesday	available	
dr. Varun Batra	Oral and Dental Polyclinic	Wednesday	available	
Press Enter to back to Menu	<u>.</u>			

4. The third menu is showing all available Polyclinic

Polyclinic			
1 . General Polyclinic			
2 . Obstetrics Polyclinic			
3 . Children's Polyclinic			
4 . Eye Clinic			
5 . Ear, Nose, Throat Polyclinic			
6 . Oral and Dental Polyclinic			
Press Enter to back to Menu			

5. The fourth menu showing all the Booking list, the maximum list in the Booking is 5 patients

1	Book List	T
1. David		
0. Back to Menu		
Menu:		

6. In the Booking list menu, we can see the patient data again by selecting the patient number in the list

 	Book List
1. David 0. Back to Menu Menu: 1	
1	Patient Data
Name Age Address Disease History Perceived Symptoms Polyclinic Doctor Day	: Flu
Press Enter to Back to	Book List

7. The Fifth menu is to delete the booking list

Delete List	l
1. David	
0. Back to Menu	
Menu:	

8. To delete the list, we select the number that we wanted to delete

```
Delete List

1. David

0. Back to Menu
Menu: 1
Are you sure you want to delete? (y to confirm)
```

9. Once we select the number, we need to type 'y' or "Y" to confirm

```
Are you sure you want to delete? (y to confirm) y

| Delete List |

0. Back to Menu
Menu:
```

10. And the last menu is to exit the program

```
Welcome to Wangsaf Hospital Registration |

Select Menu:

Register New Patient

Doctor List

Polyclinic List

Remove Booking

Exit Program

Menu:

Thank you for using, See you!
```

1.3 Program Code

```
{"dr. Hello World","0","Tuesday","available"},
static String getCanEmpty(String message)
    text(message);
    return input.nextLine();
static String getNonEmpty(String message, String errorMsg)
        String userInput = input.nextLine();
        if (!userInput.isEmpty()) {
            return userInput;
static int getIntNonEmpty(String message, String errorMsg, int min, int
        if (userInput > min && userInput < max)</pre>
            return userInput;
        text(errorMsg);
public static void printPoly()
```

```
textln(
    System.out.printf("| %28s %s %-28s |\n", _" ", "Polyclinic_", " ");
    textln("----
public static void polyMenu()
    printPoly();
private static void bookPrint()
    int offset = 0;
    System.out.printf("| %-30s | %-30s | %-30s | %-30s | \n", \_\n", \_\n"
            if(!hasFound) offset++;
            if (!currentDoctor[1].equals(polyclinicPost))
            hasFound = true;
        String name = currentDoctor[0];
```

```
return offset-1;
private static void register()
       data[0] = getNonEmpty("Patient Name\t\t\t\t: ", "Patient Name
       data[1] = String.format("%d", getIntNonEmpty("Patient
        data[2] = getNonEmpty("Patient Address\t\t\t\t: ", "Patient
        data[3] = getCanEmpty("Disease History\t\t\t: ");
        data[4] = getNonEmpty("Perceived Symptoms\t\t\t: ", "Perceived
       printPoly();
       data[5] = String.format("%d", getIntNonEmpty("Polyclinic
       int offset = printDoctor(String.format("%d", polyclinicIndex));
       String availableDays;
           data[6] = String.format("%d", getIntNonEmpty("Select
           String[] doctor = doctors[doctorIndex];
           boolean isDoctorAvailable = doctor[3].equals("available");
           if (isDoctorAvailable) break;
           textln("Doctor isn't available right now, please choose
```

```
doctorName, availableDays);
            input.nextLine();
            textln("---
            textln("-----
            bookPrint();
            int bookListIndex = getIntNonEmpty("Menu: ", "Please choose menu
            if (bookListIndex == 0)
            String[] bookSelect = book[bookListIndex - 1];
            int doctorIndex = Integer.parseInt(bookSelect[6]);
            String doctor = doctors[doctorIndex][0];
            String daySelection = doctors[doctorIndex][2];
            textln("");
```

```
textln("|
     bookPrint();
     int listDeletionIndex = getIntNonEmpty("Menu: ", "Please choose
     if (listDeletionIndex == 0)
     boolean isYes = input.next().equalsIgnoreCase("y");
               if (i == listDeletionIndex - 1) {
          book = bookFilter;
textln("-
textln("|
System.out.printf("| %-20s : %-45s | n", "Age", age);
System.out.printf("| %-20s : %-45s |\n", "Disease History", dis);
System.out.printf("| %-20s: %-45s |\n", "Perceived Symptoms",sym);
System.out.printf("| %-20s: %-45s |\n", "Polyclinic",poly);
System.out.printf("| %-20s: %-45s |\n", "Doctor",doc);
System.out.printf("| %-20s : %-45s |\n", "Day", day);
textln("--
```

```
System.out.printf("| %-58s %11s %58s |\n"," ","Doctor List"," ");
   printDoctor("");
    input.nextLine();
public static void main(String[] args) {
        textln("-----
        textln("4. Booking List");
        textln("5. Remove Booking");
        menu = getIntNonEmpty("Menu: ", "Please choose menu
               register();
                doctorsList();
               polyMenu();
```