

# Codera

## Hospital Management System: Queue with Linked List



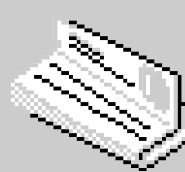
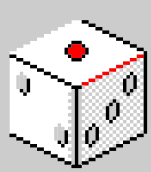
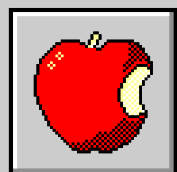
**NEO ZENG WENG**



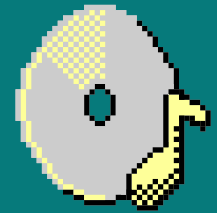
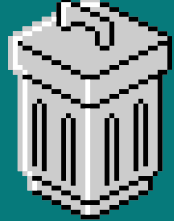
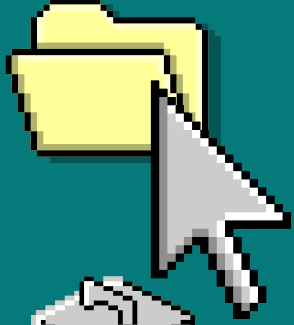
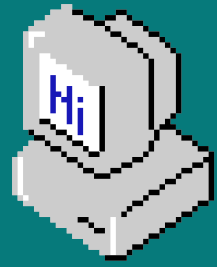
**JOSEPH LAU**



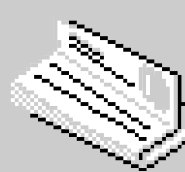
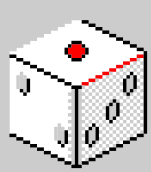
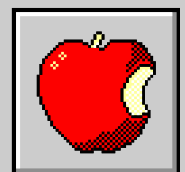
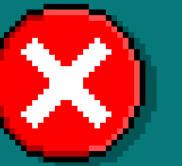
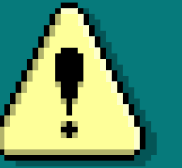
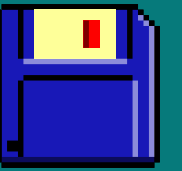
**LEE YIK HONG**



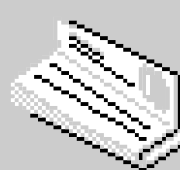
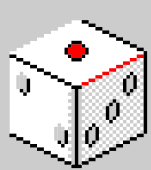
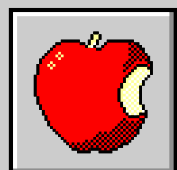
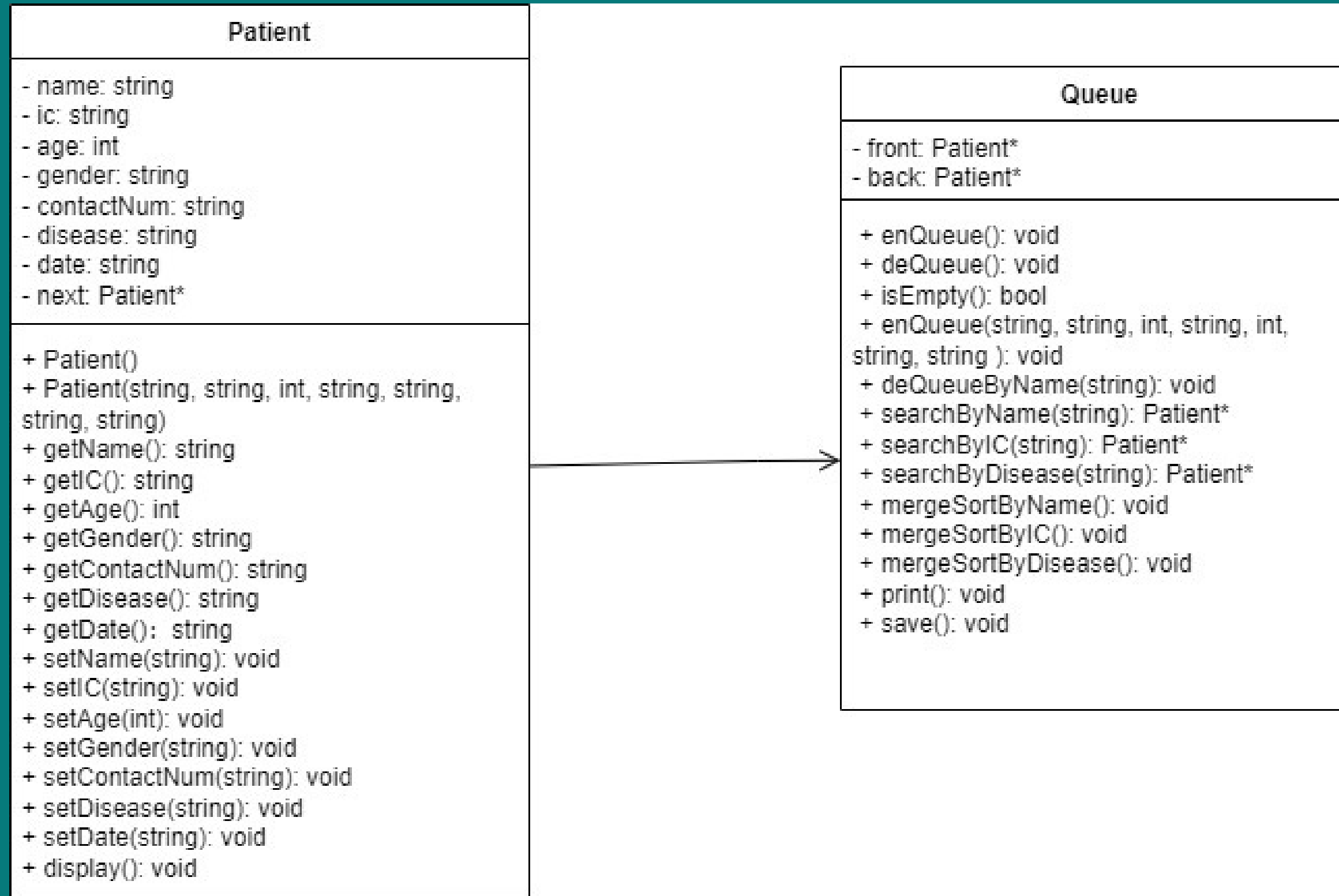
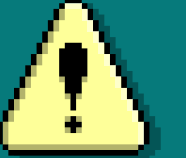
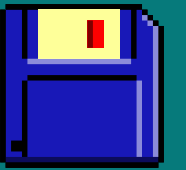
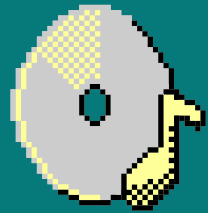
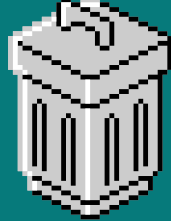
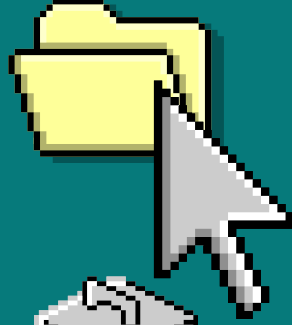
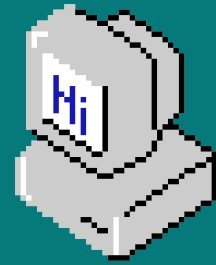
# Project Description



- Build a system for hospitals to handle patient records.
- Use linked lists and queue data structures to organize data effectively.
- This system helps workers to add and remove patient info, searching sorting and edit patient medical history.

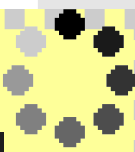


# Project Design



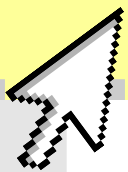


# Project Design & Interfaces



WELCOME TO HOSPITAL MANAGEMENT SYSTEM!

Loading...



# MAIN PAGE:



# Add New Patient:

## Hospital Management System

<<MAIN PAGE>>

- [1] Add new patient
- [2] Delete patient
- [3] Search patient
- [4] Sort patient
- [5] Display patient list
- [6] Edit patient info
- [7] Logout

Option:

```
<<ADD NEW PATIENT>>
[1] Insert record
[2] Back

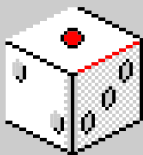
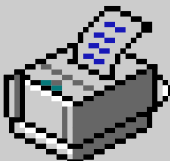
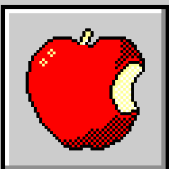
Option: 1

---Enter patient details---
Name: David
IC: 011111110567
Age: 18
Gender: Male
Contact Number: 0111111111
Disease: Disease2
Diagnosed Date: 20/8/2023

Patient added successfully!
```

# Added:

```
Ali bin Abu|020917052131|21|Male|01319972345|Disease1|23/12/2023
Sabrina|971010012234|26|Female|0126672318|Disease2|20/11/2023
Lim Ching Chong|031209151097|20|Male|01110952318|Disease3|19/10/2023
Sakura Imoto|071109191177|17|Female|01215552481|Disease2|11/10/2023
Chloe Lee|000321070045|23|Female|01719972345|Disease4|07/09/2023
joan lee|030917092345|20|Female|0121234567|Disease5|12/11/2023
Davie|111011130111|13|Male|0191234567|Diarrhea|19/2/2023
Joseph|011111131111|15|Male|01110123456|Fever|19/2/2023
David|011111110567|18|Male|01111111111|Disease2|20/8/2023
```



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# Delete Patient:

<<DELETE PATIENT>>

Enter patient name to delete:

<<DELETE PATIENT>>

Enter patient name to delete: Joseph

Patients with the specified name:

Patient Details:

Name: Joseph

IC: 0111111131111

Age: 15

Gender: Male

Contact Number: 01110123456

Disease: Fever

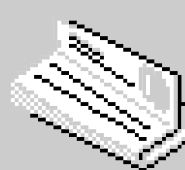
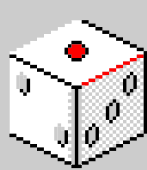
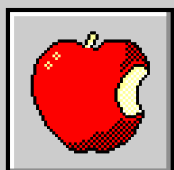
Diagnosed Date: 19/2/2023

-----

Are you sure you want to delete these patients? (Y/N): Y

## After delete:

Ali bin Abu|020917052131|21|Male|01319972345|Disease1|23/12/2023  
Sabrina|971010012234|26|Female|0126672318|Disease2|20/11/2023  
Lim Ching Chong|031209151097|20|Male|01110952318|Disease3|19/10/2023  
Sakura Imoto|071109191177|17|Female|01215552481|Disease2|11/10/2023  
Chloe Lee|000321070045|23|Female|01719972345|Disease4|07/09/2023  
joan lee|030917092345|20|Female|0121234567|Disease5|12/11/2023  
Davie|111011130111|13|Male|0191234567|Diarrhea|19/2/2023  
David|011111110567|18|Male|01111111111|Disease2|20/8/2023



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# Search Patient



```
<<SEARCH PATIENT>>
[1] Search by name
[2] Search by IC
[3] Search by disease
[4] Back

Option:
```

## Search By Name:

```
<<SEARCH PATIENT>>
[1] Search by name
[2] Search by IC
[3] Search by disease
[4] Back

Option: 1

Enter search keyword: joan lee

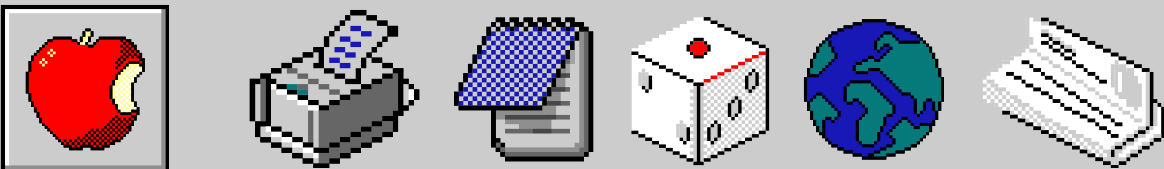
Patient Found:

Patient Details:
Name: joan lee
IC: 030917092345
Age: 20
Gender: Female
Contact Number: 0121234567
Disease: Disease5
Diagnosed Date: 12/11/2023
Press any key to continue . . .
```

## Search By IC:

<<SEARCH PATIENT>>  
[1] Search by name  
[2] Search by IC  
[3] Search by disease  
[4] Back  
  
Option: 2  
  
Enter search keyword: 971010012234

<<SEARCH PATIENT>>  
[1] Search by name  
[2] Search by IC  
[3] Search by disease  
[4] Back  
  
Option: 2  
  
Enter search keyword: 971010012234  
  
Patient Found:  
  
Patient Details:  
Name: Sabrina  
IC: 971010012234  
Age: 26  
Gender: Female  
Contact Number: 0126672318  
Disease: Disease2  
Diagnosed Date: 20/11/2023  
Press any key to continue . . .



# Search By Disease:

```
<<SEARCH PATIENT>>  
[1] Search by name  
[2] Search by IC  
[3] Search by disease  
[4] Back
```

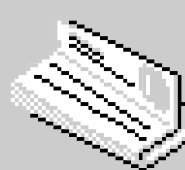
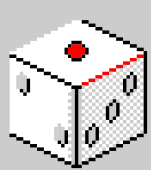
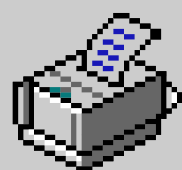
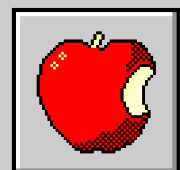
Option: 3

Enter search keyword: Disease1

# Sort Menu:

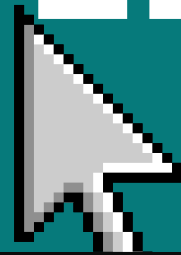
```
<<SORT PATIENT>>  
[1] Sort by name  
[2] Sort by IC  
[3] Sort by disease  
[4] Back
```

Option:





# Search By Disease:

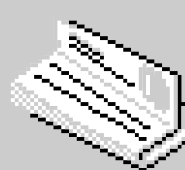
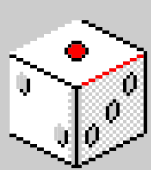
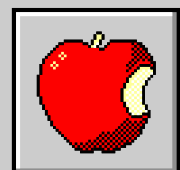


<<SEARCH PATIENT>>

- [1] Search by name
- [2] Search by IC
- [3] Search by disease
- [4] Back

Option: 3

Enter search keyword: Disease1



# Sort By Disease:

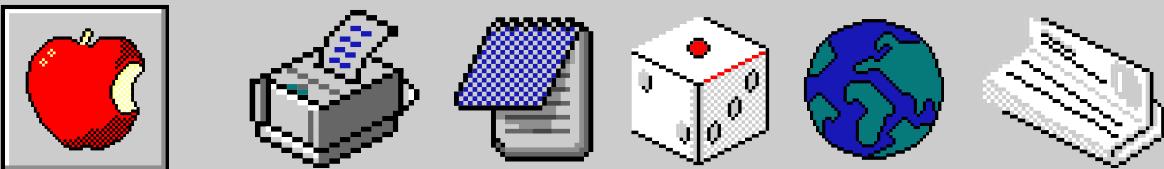
```
<<SORT PATIENT>>
[1] Sort by name
[2] Sort by IC
[3] Sort by disease
[4] Back

Option:
3

Patient list sorted by disease.

Patient Record:
```

Name	IC	Age	Gender	Contact Number	Disease	Diagnosed Date
	111011130111	13	Male	0191234567	Diarrhea	19/2/2023
Davie	111011130111	13	Male	0191234567	Diarrhea	19/2/2023
Ali bin Abu	020917052131	21	Male	01319972345	Disease1	23/12/2023
	011111110567	18	Male	01111111111	Disease2	20/8/2023
David	011111110567	18	Male	01111111111	Disease2	20/8/2023
Sakura Imoto	071109191177	17	Female	01215552481	Disease2	11/10/2023
Sabrina	971010012234	26	Female	0126672318	Disease2	20/11/2023
Lim Ching Chong	031209151097	20	Male	01110952318	Disease3	19/10/2023
Chloe Lee	000321070045	23	Female	01719972345	Disease4	07/09/2023
joan lee	030917092345	20	Female	0121234567	Disease5	12/11/2023
	0111111131111	15	Male	01110123456	Fever	19/2/2023
Joseph	0111111131111	15	Male	01110123456	Fever	19/2/2023



# Display Patient Record:



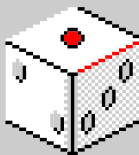
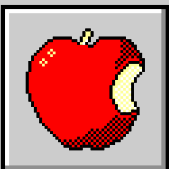
<<DISPLAY PATIENT>>  
[1] Display list  
[2] Back

Option: 1

Patient Record:

Name	IC	Age	Gender	Contact Number	Disease	Diagnosed Date
	111011130111	13	Male	0191234567	Diarrhea	19/2/2023
Davie	111011130111	13	Male	0191234567	Diarrhea	19/2/2023
Ali bin Abu	020917052131	21	Male	01319972345	Disease1	23/12/2023
	011111110567	18	Male	011111111111	Disease2	20/8/2023
David	011111110567	18	Male	011111111111	Disease2	20/8/2023
Sakura Imoto	071109191177	17	Female	01215552481	Disease2	11/10/2023
Sabrina	971010012234	26	Female	0126672318	Disease2	20/11/2023
Lim Ching Chong	031209151097	20	Male	01110952318	Disease3	19/10/2023
Chloe Lee	000321070045	23	Female	01719972345	Disease4	07/09/2023
joan lee	030917092345	20	Female	0121234567	Disease5	12/11/2023
	0111111131111	15	Male	01110123456	Fever	19/2/2023
Joseph	0111111131111	15	Male	01110123456	Fever	19/2/2023

Press any key to continue . . .



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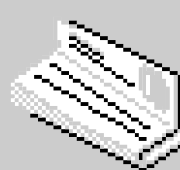
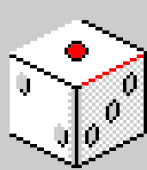
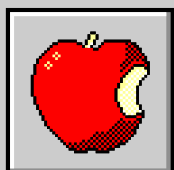
# Edit Patient Record:



## Patient Record:

Name	IC	Age	Gender	Contact Number	Disease	Diagnosed Date
	111011130111	13	Male	0191234567	Diarrhea	19/2/2023
Davie	111011130111	13	Male	0191234567	Diarrhea	19/2/2023
Ali bin Abu	020917052131	21	Male	01319972345	Disease1	23/12/2023
	011111110567	18	Male	01111111111	Disease2	20/8/2023
David	011111110567	18	Male	01111111111	Disease2	20/8/2023
Sakura Imoto	071109191177	17	Female	01215552481	Disease2	11/10/2023
Sabrina	971010012234	26	Female	0126672318	Disease2	20/11/2023
Lim Ching Chong	031209151097	20	Male	01110952318	Disease3	19/10/2023
Chloe Lee	000321070045	23	Female	01719972345	Disease4	07/09/2023
joan lee	030917092345	20	Female	0121234567	Disease5	12/11/2023
	0111111131111	15	Male	01110123456	Fever	19/2/2023
Joseph	0111111131111	15	Male	01110123456	Fever	19/2/2023

Press any key to continue



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# What you want to edit?

```
Enter the name of the patient to edit: Davie

Patient Found:

Patient Details:
Name: Davie
IC: 111011130111
Age: 13
Gender: Male
Contact Number: 0191234567
Disease: Diarrhea
Diagnosed Date: 19/2/2023

What would you like to edit?
[1] Name
[2] IC
[3] Age
[4] Gender
[5] Contact Number
[6] Disease
[7] Diagnosed Date
Option: 1
Enter new name: Davie wong

Patient info updated successfully!
Press any key to continue . . .
```

Log Out: 

Hospital Management System

<<MAIN PAGE>>  
[1] Add new patient  
[2] Delete patient  
[3] Search patient  
[4] Sort patient  
[5] Display patient list  
[6] Edit patient info  
[7] Logout  
  
Option: 7  
  
You have successfully logged out!  
Press any key to continue . . .

