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Project Title: Hospital management system

About Project:

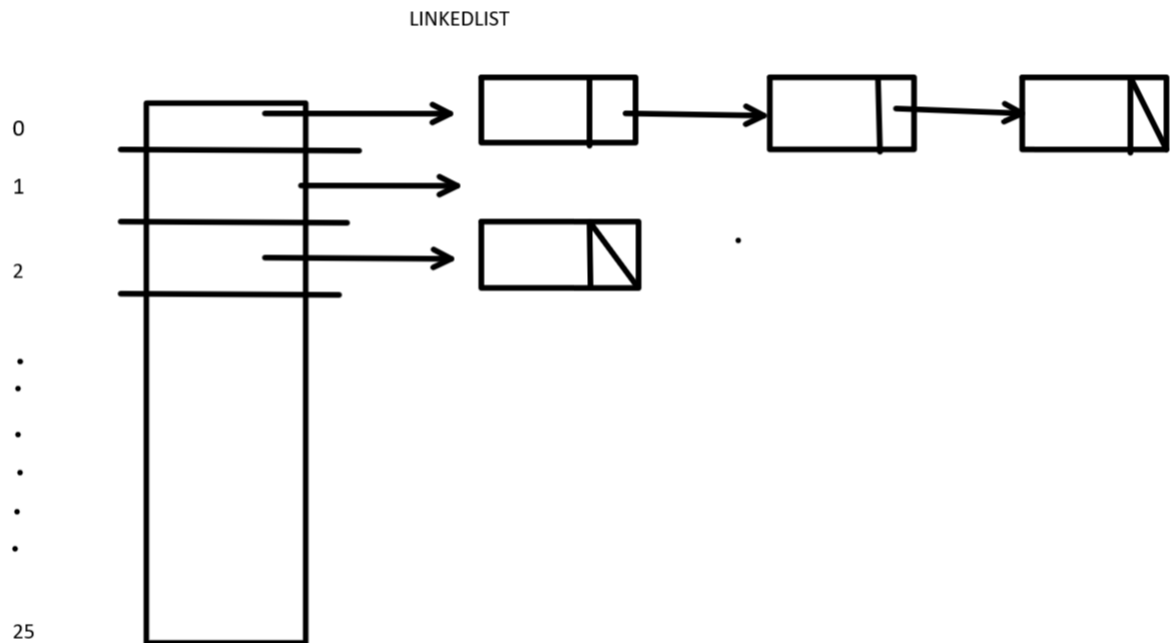
We have use in this Hashing chain algorithm for display, insert, delete ,modify ,search patient details and we have also add some flie handling in this project.

We have add file handling for checkin checkout for the patient and we have also add current time concept in it.

→we first of all create node pointer array of 26

Means → 26 character

We use string by first character hash function



Output:

1.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 5
RECORD IS EMPTY

```

In this when we start the program and we click in the display menubar so we can get as output is RECORD IS EMPTY.

2.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 1
ENTER PATIENT NAME      : sahil
ENTER PATIENT AGE       : 123
RENTER THE AGE LESS THAN 100
ENTER PATIENT AGE       : 19
ENTER PATIENT BLOODGRP   : b+
ENTER PATIENT GENDER    : male
ENTER PATIENT PHONENUMBER : 7283960425
ENTER PATIENT DISEASE    : fever

```

When we have enter the age greater than 100 so program can warning by RENTER THE AGE LESS THAN 100.

3.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 1
ENTER PATIENT NAME      : sahil
ENTER PATIENT AGE       : 19
ENTER PATIENT BLOODGRP   : b-
ENTER PATIENT GENDER    : male
ENTER PATIENT PHONENUMBER : 7283960425
ENTER PATIENT DISEASE    : fever

NAME IS ALREADY EXIST , PLZ ENTER ANOTHER NAME

```

When we have enter the duplicate so program give the warning as a NAME IS ALREADY EXIST, PLZ ENTER ANOTHER NAME.

4.

```
/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR  TERMINATION

/*****/

ENTER CHOICE : 1
ENTER PATIENT NAME      : yash
ENTER PATIENT AGE       : 19
ENTER PATIENT BLOODGRP  : b+
ENTER PATIENT GENDER    : male
ENTER PATIENT PHONENUMBER : 7283960425
ENTER PATIENT DISEASE    : maleriya

/*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR  TERMINATION

/*****/

ENTER CHOICE : 1
ENTER PATIENT NAME      : karan
ENTER PATIENT AGE       : 20
ENTER PATIENT BLOODGRP  : b+
ENTER PATIENT GENDER    : male
ENTER PATIENT PHONENUMBER : 9925173601
ENTER PATIENT DISEASE    : diariya
```

This is a basic insert function using Hasing algorithm in it.

5.

```
≡ checkin-checkout.txt

1  sahil      09:09:09am    07/11/2021    CHECK-IN
2  yash      09:20:25am    07/11/2021    CHECK-IN
3  karan     09:22:01am    07/11/2021    CHECK-IN
4  [          ]
```

When we start the program generate file name checkin-checkout.txt when we insert the name so program can generate the current time, date and also written CHECK-IN.

6.

```
record.txt
1  sahil 18 b+ male 7283960425 fever 1
2  yash 19 b- male 9925173601 maleriya 1
3  karan 19 o- male 9723053439 diariya 1
4
```

When we insert patient details program also this data save in record.txt file also and in whoever data can be insert in the end of data can also save 1 in it.

7.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 2

ENTER THE NAME OF PATIENT: karan
FOR MODIFYING ENTER 1 ELSE ENTER 2

MODIFY PATIENT NAME           2
MODIFY PATIENT AGE            2
MODIFY PATIENT BLOODGRP       1
REWRITE PATIENT BLOODGRP      : 0+
MODIFY PATIENT GENDER         2
MODIFY PATIENT PHONENUMBER    2
MODIFY PATIENT DISEASE        2
```

When we can choice modification they can ask for first patient name and for we whichever data modification we enter 1 else we can give 2 for it

8.

```
≡ modifyrecord.txt
1  |karan 19 o- male 9723053439 diariya
2  |karan 19 o+ male 9723053439 diariya
3
```

Modify data can be restore in modifyrecord.txt name file also it.

9.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 3
ENTER THE PATIENT NAME FOR DELETION IN RECORD : karan
SUCCESFULLY DELETED
```

When we choice delete menu for it so they can ask me about which patient name can delete for and they can written the message as a successfully deleted.

10.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 5

FOR PATIENT 1 -->
PATIENT NAME      : sahil
PATIENT AGE       : 18
PATIENT BLOODGRP  : b+
PATIENT GENDER    : male
PATIENT PHONENUMBER : 7283960425
PATIENT DISEAES   : fever

FOR PATIENT 2 -->
PATIENT NAME      : yash
PATIENT AGE       : 19
PATIENT BLOODGRP  : b-
PATIENT GENDER    : male
PATIENT PHONENUMBER : 9925173601
PATIENT DISEAES   : maleriya
```

When we delete patient they can also delete in hashing chain algorithm.

11.

```
record.txt
1  sahil 18 b+ male 7283960425 fever 1
2  yash 19 b- male 9925173601 maleriya 1
3  karan 19 o- male 9723053439 diariya 1
4  karan 19 o+ male 9723053439 diariya 0
5
```

When we can delete patient name in they can delete in record.txt as a last written as 0.

12.

```
checkin-checkout.txt
1  sahil          09:50:33am    07/11/2021    CHECK-IN
2  yash          09:53:31am    07/11/2021    CHECK-IN
3  karan          09:54:16am    07/11/2021    CHECK-IN
4  karan          10:09:16am    07/11/2021    CHECK-OUT
```

When delete patient name in it so we can get in checkin-checkout.txt file as a check-out and also when we delete name of a patient that current time and date can also save it.

13.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 4
ENTER THE NAME YOU WANT TO SEARCH : sahil

YOUR PATIENT DETAILS :
PATIENT NAME       : sahil
PATIENT AGE        : 18
PATIENT BLOODGRP   : b+
PATIENT GENDER     : male
PATIENT PHONENUMBER : 7283960425
PATIENT DISEASES   : fever
```

When we can give search patient detail so we enter patient name and we can all patient data in it.

14.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 4
ENTER THE NAME YOU WANT TO SEARCH : sahu1
PATIENT IS NOT FOUND

```

When we can enter wrong name of patient they can not in restore in it we can get as a warning message is PATIENT IS NOT FOUND.

15.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 5

FOR PATIENT 1 -->
PATIENT NAME      : sahil
PATIENT AGE       : 18
PATIENT BLOODGRP  : b+
PATIENT GENDER    : male
PATIENT PHONENUMBER : 7283960425
PATIENT DISEAES   : fever

FOR PATIENT 2 -->
PATIENT NAME      : yash
PATIENT AGE       : 19
PATIENT BLOODGRP  : b-
PATIENT GENDER    : male
PATIENT PHONENUMBER : 9925173601
PATIENT DISEAES   : maleriya

```


When we give display patient record so we get all patient record data.

16.

```

/*****HOSPITAL MANAGEMENT SYSTEM*****/

1.INSERT  PATIENT RECORD
2.MODIFY  PATIENT RECORD
3.DELETE  PATIENT RECORD
4.SEARCH  PATIENT RECORD
5.DISPLAY PATIENT RECORD
6.FOR TERMINATION

/*****/

ENTER CHOICE : 6

```

When we give for termination so we can terminated the program.

17.

```
/*****HOSPITAL MANAGEMENT SYSTEM*****/
```

- 1.INSERT PATIENT RECORD
- 2.MODIFY PATIENT RECORD
- 3.DELETE PATIENT RECORD
- 4.SEARCH PATIENT RECORD
- 5.DISPLAY PATIENT RECORD
- 6.FOR TERMINATION

ENTER CHOICE : 5

FOR PATIENT 1 -->

PATIENT NAME : sahil
PATIENT AGE : 18
PATIENT BLOODGRP : b+
PATIENT GENDER : male
PATIENT PHONENUMBER : 7283960425
PATIENT DISEAES : fever

FOR PATIENT 2 -->

PATIENT NAME : yash
PATIENT AGE : 19
PATIENT BLOODGRP : b+
PATIENT GENDER : male
PATIENT PHONENUMBER : 9558052694
PATIENT DISEAES : maleriya

When we have rerun the program and we can press in display function we can get all previous details of patient in it.