

NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA , SURATHKAL



Department of Mathematical and computational sciences

DSA PROJECT

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Submitted To
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SEAT ALLOTMENT SYSTEM

OBJECTIVE:

THE OBJECTIVE OF THE “SEAT ALLOTMENT SYSTEM” IS TO DESIGN SOFTWARE BASED SYSTEM WHICH IS USED TO AUTOMATICALLY ALLOT THE SEAT AS PER STUDENT'S CHOICE.



SYNOPSIS

- THIS PROJECT ENTRANCE SEAT ALLOTMENT SYSTEM IS A WINDOWS APPLICATION IN WHICH TWO MODULES ARE PRESENT 1. ADMINISTRATOR 2. STUDENT . IN THE ADMIN PANEL , ADMIN CAN INSERT THE DATA ABOUT COLLEGE AND AVAILABLE SEATS UNDER SPECIFIC CATEGORIES. THE ADMINISTRATOR CAN ALLOT THE SEATS FOR THE STUDENTS. USING THIS SOFTWARE THE ENTRANCE SEAT ALLOTMENT BECAME EASIER AND CAN BE IMPLEMENTED USING A SYSTEM. THE MAIN ADVANTAGE OF THE PROJECT IS THE COMPUTERIZATION OF THE ENTRANCE SEAT ALLOTMENT PROCESS

Administrator

College details

SEAT ALLOTMENT SYSTEM FOR NIMCET(MCA) ENTRANCE

Enter

0 For Admin panel
1 For Student panel

0

Student

Student details

BEFORE ENTER ADMIN PANEL YOU NEED TO VERIFY PASSWORD

Enter Your Password: *****

Enter no of colleges:5

NIMCET SEAT ALLOTMENT



ADMIN PANEL :- INSERT THE DATA FOR COLLEGE



NOTE :- FOR EACH COLLEGE 10 CATEGORY(AS NIMCET)
AND NUMBER OF SEATS.



Here we show only one college entry in next slide ,similarly
we enter entries for all colleges

Enter name of 1 college:NITT

Enter Category name: OP

Enter no of seats: 2

Enter Category name: OP-PWD

Enter no of seats: 1

Enter Category name: OP-EWS

Enter no of seats: 2

Enter Category name: EWS-PWD

Enter no of seats: 0

Enter Category name: OBC

Enter no of seats: 3

Enter Category name: OBC-PWD

Enter no of seats: 1

Enter Category name: ST

Enter no of seats: 1

Enter Category name: ST-PWD

Enter no of seats: 0

Enter Category name: SC

Enter no of seats: 1

Enter Category name: SC-PWD

Enter no of seats: 1

E:\NITK\COLLEGE\2nd sem\finalds.exe

College entry Successful..!!!

Now Enter the details of Student, press Y
Y

Enter

0 For Admin panel

1 For Student panel

1

Enter number of Student
15

Insert the data

Name of student :

AFTER THE INSERT
THE DATA FOR
COLLEGE
THE SECOND STEP
IS TO INSERT THE
DATA FOR
STUDENT , FOR
THIS YOU NEED TO
GO INSIDE OF
STUDENT PANEL

Now Enter the details of Student, press Y
Y

Enter

0 For Admin panel
1 For Student panel

1

Enter number of Student
15

Insert the data

Name of student
BHARAT PATIDAR
Category of student
OBC
Rank of Student
2

Name of student
SHUBHAM CARPENT
Category of student
OP
Rank of Student
4

Name of student
VINAY SHARMA
Category of student
OP
Rank of Student
14

Name of student :
AMAN VERMA
Category of student :
OP-EWS
Rank of Student
1

Name of student :

INSERT THE DATA FOR STUDENTS , HERE WE SHOW
ONLY FEW STUDENT DATA INSERTING , YOU NEED TO
INSERT ALL
STUDENTS DATA

Name of student :
SANDEEP KUMAR
Category of student :
ST
Rank of Student
11

Name of student :
DAN RAWAT
Category of student :
SC
Rank of Student
6

Name of student :
NIRANJAN KUMAR
Category of student :
OP
Rank of Student
5

Name of student :
ANSHUL JOSHI
Category of student :
OP-EWS
Rank of Student
11
This rank already allocated
Rank of Student
13
This rank already allocated
Rank of Student
12

Name of student :

After insert the data for students , A new menu will be display with three options

- 1) Display
- 2) Sorting
- 3) For seat allotment

According to your requirement you can performs the operations.

For better understand first display the list ,then sort it and again display it , after all go into seat allotment option

```
E:\NHNK\COLLEGE\2nd sem\mainids.exe

Students entry Successful..!!!

Press Y for next step...!!!
Y

#####

# 0.   Display          #
# 1.   sorting          #
# 2.   For going into seat allotement  #

#####

Enter your choice :
```


NAME :	CATEGORY :	RANK :	ALLOTMENT :	COLLEGE:	UNDER_CAT:
BHARAT PATIDAR	OBC	2	Not allocated	Not allocated	Not allocated
SHUBHAM CARPENTER	OP	4	Not allocated	Not allocated	Not allocated
VINAY SHARMA	OP	14	Not allocated	Not allocated	Not allocated
AMAN VERMA	OP-EWS	1	Not allocated	Not allocated	Not allocated
ANJALI PATIDAR	OBC	13	Not allocated	Not allocated	Not allocated
RAHUL SINGH	OP	15	Not allocated	Not allocated	Not allocated
SANDEEP KUMAR	ST	11	Not allocated	Not allocated	Not allocated
DAN RAWAT	SC	6	Not allocated	Not allocated	Not allocated
NIRANJAN KUMAR	OP	5	Not allocated	Not allocated	Not allocated
ANSHUL JOSHI	OP-EWS	12	Not allocated	Not allocated	Not allocated
MAHAK SHARMA	OBC	9	Not allocated	Not allocated	Not allocated
VINITA BOKE	OP	10	Not allocated	Not allocated	Not allocated
SALONI RAJPUT	SC	7	Not allocated	Not allocated	Not allocated
NEHA THAKUR	OBC	8	Not allocated	Not allocated	Not allocated
PRADEEP PATIDAR	OBC	3	Not allocated	Not allocated	Not allocated

DISPLAY OPTION DISPLAY THE LIST OF STUDENTS. THIS DISPLAY IS BEFORE
THE SORTING SO NOTICE ALL RANKS ARE NOT IN
SEQUENCE

```
#####
```

```
# 0.  Display          #  
# 1.  sorting          #  
# 2.  For going into seat allotement #
```

```
#####
```

```
Enter your choice :
```

```
1
```

```
#####
```

```
# 0.  Display          #  
# 1.  sorting          #  
# 2.  For going into seat allotement #
```

```
#####
```

```
Enter your choice :
```

NOW NEXT
STEP IS
SORTING
AFTER
SORTING ,
AGAIN
DISPLAY THE
DATA

Enter your choice :
0

NAME :	CATEGORY :	RANK :	ALLOTMENT :	COLLEGE:	UNDER_CAT:
AMAN VERMA	OP-EWS	1	Not allocated	Not allocated	Not allocated
BHARAT PATIDAR	OBC	2	Not allocated	Not allocated	Not allocated
PRADEEP PATIDAR	OBC	3	Not allocated	Not allocated	Not allocated
SHUBHAM CARPENTER	OP	4	Not allocated	Not allocated	Not allocated
NIRANJAN KUMAR	OP	5	Not allocated	Not allocated	Not allocated
DAN RAWAT	SC	6	Not allocated	Not allocated	Not allocated
SALONI RAJPUT	SC	7	Not allocated	Not allocated	Not allocated
NEHA THAKUR	OBC	8	Not allocated	Not allocated	Not allocated
MAHAK SHARMA	OBC	9	Not allocated	Not allocated	Not allocated
VINITA BOKE	OP	10	Not allocated	Not allocated	Not allocated
SANDEEP KUMAR	ST	11	Not allocated	Not allocated	Not allocated
ANSHUL JOSHI	OP-EWS	12	Not allocated	Not allocated	Not allocated
ANJALI PATIDAR	OBC	13	Not allocated	Not allocated	Not allocated
VINAY SHARMA	OP	14	Not allocated	Not allocated	Not allocated
RAHUL SINGH	OP	15	Not allocated	Not allocated	Not allocated

AFTER SORTING NOTE THAT ALL THE STUDENT'S DATA ARE IN
ASCENDING ORDER ACCORDING TO THEIR RANK

Now the next step is Seat Allotment , In this Option user get the Seat matrix of college with category name and available seats

Entry for student whose rank 1 Category = OP-EWS

Enter name of college you want to choose:

With seat matrix , it is display the rank , and category of student for whom you are going to allocate the college , here you need to enter the name of college as student choice

```
Entry for student whose rank 1   Category = OP-EWS
```

```
Enter name of college you want to choose:NITT
```

```
Congrates! Admission Successful
```

If seat is available then it is display the message Congrates !...

And if seat is not available then it will give a second chance for choose another college

If student don't want to use second chance then seat is not allocate to him

```
Entry for student whose rank 4   Category = OP  
  
Enter name of college you want to choose:NITK  
  
Sorry Seats Full try again  please try another college  
  
If you want to try again press Y  
  
Enter name of college you want to choose:NITT  
  
Congrates! Admission Successful
```

AFTER THIS IT WILL DISPLAY THE FINAL LIST OF STUDENT
AS NEXT SLIDE
WHICH IS DISPLAY THE ALLOCATED COLLEGE NAME
WITH UNDER CATEGORY

FINAL LIST ###.....

NAME :	CATEGORY :	RANK :	ALLOTMENT :	COLLEGE:	UNDER_CAT :
AMAN VERMA	OP-EWS	1	allocated	NITT	OP
BHARAT PATIDAR	OBC	2	allocated	NITK	OP
PRADEEP PATIDAR	OBC	3	allocated	NITK	OP
SHUBHAM CARPENTER	OP	4	allocated	NITT	OP
NIRANJAN KUMAR	OP	5	allocated	NITC	OP
DAN RAWAT	SC	6	allocated	NITR	OP
SALONI RAJPUT	SC	7	allocated	NITC	OP
NEHA THAKUR	OBC	8	allocated	NITR	OP
MAHAK SHARMA	OBC	9	allocated	NITT	OBC
VINITA BOKE	OP	10	allocated	NITW	OP
SANDEEP KUMAR	ST	11	allocated	NITW	OP
ANSHUL JOSHI	OP-EWS	12	allocated	NITR	OP-EWS
ANJALI PATIDAR	OBC	13	allocated	NITW	OP
VINAY SHARMA	OP	14	Not allocated	Not allocated	Not allocated
RAHUL SINGH	OP	15	Not allocated	Not allocated	Not allocated

..... DONE BY BHARAT PATIDAR (194CA014) AND SHUBHAM CARPENTER (194CA043)

Project EndTHANK YOU....!!!

Process exited after 1164 seconds with return value 0

Press any key to continue



THANK
YOU