

PES UNIVERSITY

(Established under Karnataka Act No. 16 of 2013) 100 Ft. Road, BSK III Stage, Bengaluru – 560 085

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Title: Problem Solving with C Laboratory Course code: UE19CS152					
SRN: PES1UG19CS519	Name: Sumukh Raju Bhat	(Roll no:39)			
SRN: PES1UG19ME031	Name: Anush D	(Roll no:60)			
SRN: PES1UG19CV056	Name: G Vamsi Krishna	(Roll no:37)			
SRN: PES1UG19EC216	Name: Prem Kumar L	(Roll no:57)			

PROJECT REPORT:

"Hospital management system"

Problem Statement:

- *A digitialized effort to reduce a hospital's front desk burden.
- *A step towards reducing paperwork and maintaining efficient order in data access and arrangement.

Description:

- *In order to provide a decent user-interface for the job, a border, coloured texts and output to a specified position of a screen is given.
- *A transperant choice based selection process to access a file based database.
- *Various choice to arrange or access data i.e w.r.t date of admission,name of the patient,category as OPD or emergency respectively.
- *Maintain financial records and the mathematics for the patient, as well as the hospital management w.r.t balance, totalfee, amount to be received or given.
- *Clear categorization various specialists and their room numbers and various tests and their fees.
- *Easy way to get rid of record(delete) and bill his finances once a patient discharges.

C-concepts used:

- *'switch' and 'if-else' statements for choice-making.
- *'gotoxy(x,y)' to position the output, 'textcolor(n)' to color the text, 'clrscr()' to clear the screen for new output.
- *Binary file read/write operations for database access purpose.
- *Structure variables for scanning and printing a group of patient's data, a way to store/access from a file.
- *'rewind(fp)', 'fseek(fp,offset,position)', 'ftell(fp)' to get file pointer position operations.
- *'fflush(stdin)' to clear input buffer, 'cprintf()' to avoid output data to print on the buffer or stdout , but to directly print it on the console. The whole idea is to avoid errors/ambiguity in character input/output .
- *String comparission and sorting techniques to access data.
- *'remove(filename)', 'rename(filename1, filename2)' in the deleting process.
- *The below are the user defined functions and their functions:
- 1)mainscreen()=>clear the screen and border the screen with *'s.
- 2)newrecord()=>scan name,age,address,gender,specialist,room etc
- 3)newrecord1()=>scan the tests and their fees.
- 4)editrecord()=>access to edit record via switch1() when pressed '1'.
- 5)switch1()=>when pressed '1' to edit test/doctor/catogory or deposit
- 6)print()=>display all the scanned and maintained data.
- 7)bill()=>Financial care:total fee,balance,to be paid/returned,test fee
- 8)displaydepartment()=>display all the specialists and their room no
- 9)displaytest()=>display all the tests and their fees.
- 10)'delete' records in main().

NOTE:Some of the above mentioned/used is compiler specific!.We used turboc's compiler to code the project.

Learning Outcome:

- *Integrate all the concepts of record management into a simple program.
- *Decent user-interface in c-programming language.
- *String sorting in a particular order from a file.
- *Using file as a database of a large variety of data.
- *Michellaneous file operations and file pointer manipulations.
- *Overview of database management with known information in C-programming language.
- *Finiancial management of data.

Output Screenshots:

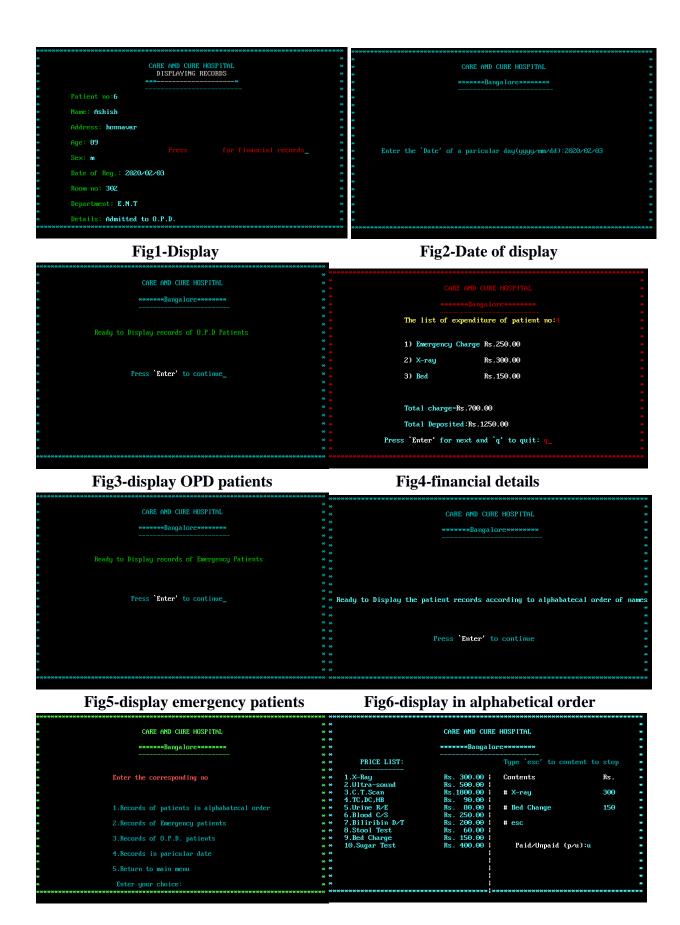


Fig7-options to access records

Fig8-Add tests

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* CARE AND CURE HOSPITAL	**	* * * * * * * * * * * * *				
* *******Banga lore************************************	* *	*****Banga lor	*******Bangalore***********			
* * DEPOSITING MONEY	* * * * * * * * * * * * * * * * * * *	CHANGING SPECIALIST	Specialists:	Room No. *		
*	* * * * *	CHANGING SECCIALISI	1.General Physician	201 *		
*	* * *		2.E.N.T 3.Cardiologist	302 * 509 *		
**	**	Previous Specialist: Dermatologist	4.Dermatologist	406 *		
Deposited balance: Rs.1000	** Enter the new changed Specialist: ** ** Reff. Specialist no:1	5.Gastroenterologist	*			
56 M Mr	* * * *	Reff.Specialist:Generalphysician Room no:201_	6.Pediatrician	111 *		
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Fig8-Deposit balance

Fig9-Change specialist

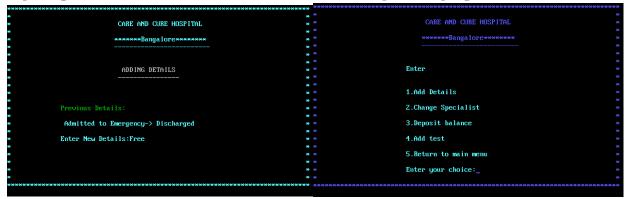


Fig10-Change patient status

Fig11-Details to edit



Fig12-Financial details

Fig13-Display records

	CODE OND CH	DE MUGDIANI		* *	CARE AND CURE HOSPITAL	
CARE AND CURE HOSPITAL			* *	CHAE HAD COME HOSTITHE		
ADDING NEW O.P.D.PATIENT RECORD			* *	*******Bangalore******		
	**************************************			* *	Dangaror	
Record of par	tient no: 9	Specialists:	Room No.			
		i			Enter the corresponding no	
Name:	Ramya	i				
		1.General Physician	201			
Address:	Geetanjali nagar			W W	and the second s	
	43	2.E.N.T	302	H H	1.Add new patient record	
Age:	12	3.Cardiologist	509	* *	2.Search or edit record	
Sex(m/f):	£	5.Caratotogist	202	* *	2.Search of east record	
JCX(IIV1).		4.Dermatologist	406	* *	3.Know the records of patients	
Dise(In Shor	t):cold	1.Delina collegist	100	* *	3.7mow the records of patrents	
		5.Gastroenterologist	308	* *	4.Delete the records	
Reff. Specia	list no:6					
		: 6.Pediatrician	111		5.Exit from the program	
	ist:Pediatrician					
Room no:207_					Enter your choice:	



Fig16-Bill before Deletion

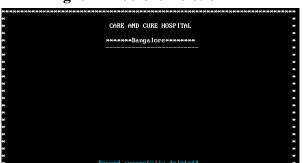


Fig17-Record after edit to status of patient



Fig18-Confirmation after deletion

Fig19-Exit page