

**HOTEL MANAGEMENT SYSTEM**

**Submitted By:**

**MUHAMMAD BURHAN , CS-2021-129**

**Submitted to:**

**DR . AWAIS HASSAN**

**For Fulfillment**

**CS 161 Programming Fundamentals**

**Department of Computer Science**

**University of Engineering and Technology, Lahore**

**Short Description Of My Project :**

In my project (BHB HOTEL MANAGEMENT SYSTEM) , this enter the guest data ,room data , discount data , check in form data , check out form data , available data , reservation data and view all the list of the above data and is used to change the password , add the users, send the alert message to the user by the manager .My project store the data in different arrays and give the balance according to the total days , room and discount status , room and discount rate , room and discount type. In my project the sorting function is alos available to sort the check out balance in the descending order.

I used the concept of the arrays and the file handling in my project version 5.

**Users Of Application :**

There may be multiple user’s by using add user function but I use the only two user’s in my application for testing .

Main user’s of my application is :

* Manager
* User

**Functional Requirements of the Hotel Management System**

* **Users:**

It consists on two users which are as following:

1. Manager
2. User

* **Functionality:**

In hotel management system the functionality of the user can be overlapped because the manager is the author and he have the all authorities but the user have some functions which is defined by the manager.

* **Manager’s Functionality:**

The functions which are demanded by the manager are:

1. Add the new guest
2. View guest list
3. Add new room type
4. View room list type
5. Add discount type
6. View discount type list
7. Add check in form
8. View check in form
9. Add check out form
10. View check out form
11. Add available room
12. View reservation list
13. Add users
14. Change the password
15. Sorting check out form according to high balance
16. Alert massage send to user by the manager
17. Exists

**User’s Functionalities:**

The functions which are demanded by the manager for the user are:

1. View available room
2. View room list type
3. View discount list type
4. Add the reservation list
5. Manager alert message 6. logout

**Wireframes**

**Manager:**

Whether the person who is using the system have to tell that he / she is a manager or the user and by entering his /her password as shown below:

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HOTEL MANAGEMENT SYSTEM

LOGIN

Please enter your id <Manager/User>……Manager

Please enter your password……….Manager

After the user have to press any key to continue

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ADMIN MAIN MENU

>>>>>>>>>>>>>>>>>>>

Select one of the following option …..

1.add new guest

2.view guest list

3.add new room type

4. view room list type

5.add discount type

6.view discount type list

7.add check in form

8.view check in form

9.add check out form

10.view check out form

11.add available room

12.view reservation list

13. add users 14.change password 15. Sorting the checkout form 16. Alert massage

17.exists

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ADMIN > ADD GUEST (option 1)

1.enter the first name …….

2.enter the middle name ……

3.enter the last name……….

4.enter the address…………..

5.enter the contact no… 6.enter the gender…… 7.enter the email address ……….

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MAIN MENU > VIEW GUEST LIST (option 2)

FIRST NAME MIDDLE NAME LAST NAME ADDRESS CONTACT NO GENDER EMAIL ADDRESS

MR ABDULLAH BHOLA D BLOCK 456556587 MALE @GMAIL.COM

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1. enter the discount id ……

2.enter the discount type…..

3.enter the discount rate……

4.enter the discount status……

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ID ROOM NO ROOM STATUS ROOM TYPE ROOM RATE OCCUPENCY

1 101 VIP SINGLE 200 1

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MAIN MENU > ADD ROOM TYPE (OPTION 3)

1. enter the room id …..

2. enter the room no……

3. enter the room status…….

4. enter the room type ……..

5.enter the room rate……….

6.enter the number of occuppency……….

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MAIN MENU >> VIEW DISCOUNT TYPE LIST (OPTION 6)

DISCOUNT ID DISCOUNT RATE DISCOUNT STATUS DISCOUNT TYPE

1 0.20 VIP SINGLE

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MAIN MENU >> VIEW CHECK IN FORM LIST (OPTION 8)

ID >NAME > ROM.NO >ROM.T >ROM.S>ROM.R>CHECK.I.DATE>CHECK.O.DATE>N.O.D>N.O.A>N.O.C>DISCOUNT.T>BALENCE

1 HELLO 101 SINGLE VIP 200 21/1/2021 29/1/2021 8 2 0 0.20 ……

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MAIN MENU >> ADD CHECK IN FORM (OPTION 7 )

1.entre the transaction id…..

2.enter the guest name……

3.enter the room no…..

4.enter the room type…..

5.enter the room status…..

6.enter the room rate….

7.enter the check in date ….

8.enter the check out date…

9.enter the no of days…

10.enter the no of adult…

11.enter the no of children…

12.enter the discount type….

13.display the balance

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MAIN MENU >> ADD CHECK OUT FORM (OPTION 9)

1.enter the transaction id …..

2.enter the guest name…

3.enter the room no …

4.enter the room type…

5.enter the room rate…..

6.enter the check in date…

7.enter the check out date…

8.enter the no of days….

9.enter the no of adult…

10.enter the no of children …

11.enter the discount type….

12.enter the room status..

13.calculate the balance and display

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MAIN MENU >>> ADD THE AVAILABLE ROOM (OPTION 11)

1. enter the available room no …

2. enter the id of available room ….

3. enter the status of the available room….

4. enter type of available room …..

5.enter the rate of available room…

6.enter the no of occupancy bof available room ….

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MAIN MENU >>> VIEW CHECK OUT FORM LIST (OPTION 10)

ID>NAME>ROM.NO>ROM.T>ROM.R>CHECK.I.DATE>CHECK.O.DATE>N.O.D>N.O.A>N.O.C>DISCOUNT.TYPE>BALANCE>ROM.S

1 HELLO 101 SINGLE 200 21/1/2021 29/1/2021 8 2 0 0.20 SOME.. VIP

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MAIN MENU>>> VIEW THE RESERVATION LIST (OPTION 12)

ID>NAME>ROOM.NO>ROOM.T<ROOM.S>CHECK.I.D>CHECK.O.D>N.O.D>N.O.A>N.O.C>DISCOUNT.TYPE>DISCOUNT.S>BALANCE

1 HELOO 101 SINGLE VIP 21/1/2021 29/1/2021 8 2 0 SINGLE VIP SOME..

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MAIN MENU >> ADD USER (OPTION 13)

Enter the name

Enter the password

Enter the role of person

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Main menu >> change password (option 14)

Enter the user name

Enter the password

Enter the new password

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Main menu >> sorting (option 15)

Sorting the check out form according to its balance

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Main menu >> sorting (option 16)

ENETER THE USER NAME WHICH YOU WANT TO SEND MASSAGE….

ENTER THE MASSAGE YOU WANT TO SEND TO USER

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MAIN MENU >> EXIST (option 17)

LOG OUT

**USER:**

If he / she enter the id as **user** or the **password** is enter as user then the **user menu** will appear on the screen.

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LOGIN

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Please enter your id<Manager/user………user

Please enter your password………user

Please enter any key to continue…

After the id and the password is correct the user menu will appear .

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USER MENU >> VIEW ROOM TYPE LIST (OPTION 2)

ID ROOM NO ROOM STATUS ROOM TYPE ROOM RATE OCCUPENCY

1 101 VIP SINGLE 200 1

2 102 REGULAR DOUBLE 400 2

3 103 VIP SINGLE 200 1

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USER MENU >> VIEW DISCOUNT TYPE LIST (OPTION 3)

ID DISCOUNT RATE DISCOUNT STATUS DISCOUNT TYPE

1 0.5 VIP SINGLE 200

2 0.20 REGULAR DOUBLE 400

3 0.30 VIP SINGLE 200

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USER MENU >> VIEW AVAILABLE ROOM LIST (OPTION 1)

AVAILABLE ROOM NO ID ROOM STATUS ROOM TYPE ROOM RATE NO OCCUPENCY

102 1 DOUBLE DOUBLE 400 2

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1.enter the transaction id …

2.enter the guest name …

3.enter the room no ….

4.enter the type of the room ….

5.enter the room status…

6. enter the check in date ….

7.enter the check out date…

8.enter the no of days….

9.enter the no of adult…

10. enter the no of children…

11.enter the no discount type …

12.enter the no of discount status..

13.calculate and display balance

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LOG OUT

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>>>>>>>>>>>>>>>>>>>>HELLO TODAY HOTEL IS CLOSED!<<<<<<<<<<<<<<<<<<<<<<<<

**Data structures:**

**const int TOTAL\_VALUE =10;**

**// username**

**string username[TOTAL\_VALUE];**

**string password[TOTAL\_VALUE];**

**string role[TOTAL\_VALUE];**

**// guest data**

**int Gid[TOTAL\_VALUE];// guest id**

**string name[TOTAL\_VALUE];**

**string addres[TOTAL\_VALUE];**

**string gender[TOTAL\_VALUE];**

**string email[TOTAL\_VALUE];**

**double contact[TOTAL\_VALUE];**

**// room data**

**int Rid[TOTAL\_VALUE];// room id**

**int roomNO[TOTAL\_VALUE];**

**string Troom[TOTAL\_VALUE];//room type**

**string Sroom[TOTAL\_VALUE];//room status**

**int roomRate[TOTAL\_VALUE];**

**// discount data**

**int Did[TOTAL\_VALUE];//discount id**

**string Tdiscount[TOTAL\_VALUE];//discount type**

**string Sdiscount[TOTAL\_VALUE];// discount status**

**string discountRate[TOTAL\_VALUE];**

**//(TCI stands for TRANSACTION CHECK IN )**

**int TCIGid[TOTAL\_VALUE];// transaction check in guest id**

**string TCIname[TOTAL\_VALUE];// NAME**

**int TCIroomNO[TOTAL\_VALUE];// ROOM NO**

**string TCITroom[TOTAL\_VALUE];// ROOM TYPE**

**int TCIroomRate[TOTAL\_VALUE];// RATE OF ROOM**

**string TCIdate[TOTAL\_VALUE];// CHECK IN DATE**

**string TCIodate[TOTAL\_VALUE];//check in ke form mai check out**

**int TCIa[TOTAL\_VALUE];// no of adult**

**int TCIc[TOTAL\_VALUE];// no of children**

**string TCISdiscount[TOTAL\_VALUE];// DISCOUNT STATUS**

**int TCIdiscountRate[TOTAL\_VALUE];// DISCOUNT RATE**

**string TCITdiscount[TOTAL\_VALUE];// DISCOUNT TYPE**

**string TCIaddres[TOTAL\_VALUE];// ADREESS OF GUEST**

**double TCIcontact[TOTAL\_VALUE];// CONTACT OF THE GUEST**

**string TCIemail[TOTAL\_VALUE];// EMAIL OF THE GUEST**

**string TCIgender[TOTAL\_VALUE];// GENDER OF THE GUEST**

**string TCISroom[TOTAL\_VALUE];// STATUS OF THE ROOM**

**int Idays[TOTAL\_VALUE];// no of days for living in hotel IN CHECK IN**

**double Ibalance[TOTAL\_VALUE];**

**// transaction check out form**

**int TCOGid[TOTAL\_VALUE];// transaction check in guest id**

**string TCOname[TOTAL\_VALUE];// NAME**

**int TCOroomNO[TOTAL\_VALUE];// ROOM NO**

**string TCOTroom[TOTAL\_VALUE];// ROOM TYPE**

**int TCOroomRate[TOTAL\_VALUE];// RATE OF ROOM**

**string TCOdate[TOTAL\_VALUE];// CHECK OUT DATE**

**string TCOidate[TOTAL\_VALUE];//check OUT ke form mai check IN**

**int TCOa[TOTAL\_VALUE];// no of adult**

**int TCOc[TOTAL\_VALUE];// no of children**

**string TCOSdiscount[TOTAL\_VALUE];// DISCOUNT STATUS**

**int TCOdiscountRate[TOTAL\_VALUE];// DISCOUNT RATE**

**string TCOTdiscount[TOTAL\_VALUE];// DISCOUNT TYPE**

**string TCOaddres[TOTAL\_VALUE];// ADRESSS OF THE GUEST**

**double TCOcontact[TOTAL\_VALUE];// CONTACT OF THE GUEST**

**string TCOemail[TOTAL\_VALUE];// EMAIL OF THE PERSON**

**string TCOgender[TOTAL\_VALUE];// GENDER**

**string TCOSroom[TOTAL\_VALUE];// STATUS OF THE ROOM**

**int Odays[TOTAL\_VALUE];//NO OF DAYS IN CHECK OUT FORM**

**double Obalance[TOTAL\_VALUE];**

**double Obalance2[TOTAL\_VALUE];**

**// A stans for AVAILABLE**

**int ARid[TOTAL\_VALUE];**

**int AroomNO[TOTAL\_VALUE];**

**string ATroom[TOTAL\_VALUE];**

**string ASroom[TOTAL\_VALUE];**

**int AroomRate[TOTAL\_VALUE];**

**// R stands for RESERVATION FORM**

**int RGid[TOTAL\_VALUE];**

**string Rname[TOTAL\_VALUE];**

**int RroomNO[TOTAL\_VALUE];**

**string RTroom[TOTAL\_VALUE];**

**int RroomRate[TOTAL\_VALUE];**

**string Rodate[TOTAL\_VALUE];**

**string Ridate[TOTAL\_VALUE];**

**int Ra[TOTAL\_VALUE];**

**int Rc[TOTAL\_VALUE];**

**string RSdiscount[TOTAL\_VALUE];**

**int RdiscountRate[TOTAL\_VALUE];**

**string RTdiscount[TOTAL\_VALUE];**

**string Raddres[TOTAL\_VALUE];**

**double Rcontact[TOTAL\_VALUE];**

**string Remail[TOTAL\_VALUE];**

**string Rgender[TOTAL\_VALUE];**

**string RSroom[TOTAL\_VALUE];**

**int Rdays[TOTAL\_VALUE];**

**double Rbalance[TOTAL\_VALUE];**

**// message in line type array**

**string line[TOTAL\_VALUE];**

**int usercount = 0;**

**int guest\_count = 0;**

**int room\_count = 0;**

**int discount\_count = 0;**

**int checkout\_count = 0;**

**int availableroom\_count = 0;**

**int reservation\_count = 0 ;**

**int index = 0 ;**

**int messageindex =0; // THIS VARIABLE IS USE TO LOAD DATA FROM MESSAGE TEXT FILE AND STORE INDEX**

**function prototypes :**

**// -----------------------------------------------------START FUNCTION PROTOTYPE ....**

**void header();**

**string loginHeader( );**

**string userMenu();**

**string managerMenu();**

**void newuser();**

**void adduser(string name , string pass , string roll );**

**void newguest();**

**void addguest(int idp , string namep , string addressp , double contactp , string emailp ,string genderp);// p stands for parameter**

**void viewguestlist();**

**void newroom();**

**void addnewroom(int idp , int roomnop , string typep , string statusp , int ratep);**

**void viewroomlist();**

**void newdiscount();**

**void addnewdiscount( int idp , string typep , string statusp , string discountratep );**

**void viewdiscountlist();**

**void newcheckinform();**

**void viewcheckinformlist();**

**void checkoutform();**

**void addcheckoutform( int id , string name , string address , double contact , string email , string gender , int noC , int noA , string indate , string outdate ,int days , int roomno , string roomtype , string statusroom,int roomrate, string discountstatus , string discounttype , int discountrate , double obalance );**

**void viewcheckoutformlist();**

**void availableroom();**

**void addavailableroom(int id , int roomno , string roomtype , string roomstatus , int roomrate);**

**void viewavailableroom();**

**void viewreservationlist();**

**int viewsorting();**

**void newreservationform();**

**void addreservationform(int id , string name , string address , double contact , string email , string gender , int noC , int noA , string indate , string outdate ,int days , int roomno , string roomtype , string statusroom,int roomrate, string discountstatus , string discounttype , int discountrate , double rbalance );**

**void changepassword();**

**void clearScreen();**

**void sendmessage();**

**void mannagerAlert();**

**void addguestfile();**

**void addroomfile();**

**void adddiscountfile();**

**void addcheckinformfile();**

**void addcheckoutformfile();**

**void addavailableroomfilr();**

**void addreservationformfile();**

**void addmessegefile(string line , int field);**

**string s\_user(string line, int field);**

**void loadmessage();**

**void loadguest();**

**void loadroom();**

**void loaddiscount();**

**void loadcheckin();**

**void loadcheckout();**

**void loadavailableroom();**

**void loadreservation();**

**void loaduser();**

**void change\_password\_in\_File();**

**// -------------------------------------------------------END FUNCTION PROTOTYPE ....**

**Functions working flow :**

Main()

Add reservation form()

Logout()

Send message()

Logout()

Alert message ()

View available room list ()

View room list()

View discount list()

Sorting()

Change passward()

Add new user()

view reser-

vation list()

Add available room ()

View check out form list()

Add check out form ()

View check in form list()

Add checkinform()

View discountlist()

Add discount()

View room list()

Add room ()

View guestlist()

Add guest()

User ()

Manager()

**Test cases for my project :**

**TITEL : BHB HOTEL MANAGEMENT SYSTEM**

**Student Reg. No. :**  CS – 129 - 2021  **Student Name.**  MUHAMMAD BURHAN

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|  | **A-Extensive Evidence** | **B-Convincing Evidence** | **C-Limited Evidence** | **D-No Evidence** |
| Documentation Formatting **Grade:** | All the documentation meets all the criteria. | Documentation is well formatted but some of the criteria is not fulfilled. | Documentation is required a lot of improvement. | Documentation is not Available |
| **Documentation Formatting Criteria:** In **Binder**, **Title** Page, **Header**-Footers, Font **Style**, Font **Size** all are all consistence and according to given **guidelines**. Project **Poster** is professionally design and well presented | | | | |
| Documentation Contents  **Grade:** | Documentation includes all of the criteria. | Documentation meet more than 80% of the criteria given. | Documentation meet more than 50% of the criteria. | When the documentation meet less than 50% of the criteria. |
| **Documentation Contents Criteria:** **Title** Page - **Table** of Contents - Project **Abstract** - **Functional** Requirements - **Wire** Frames –**Data Flow** Diagram-**Data** Structure (Arrays)-**Function** Headers and Description - **Algorithms** and Flow Charts of all functions- **Test Cases** are defined -Project **Code.** - **Weakness** in the Project and **Future** Directions. - **Conclusion** and What your **Learn** from the Project and Course and What is your **Future** Planning. | | | | |
| Project Complexity  **Grade:** | Project has at least 2 user’s types and each user has at least 5 functionalities. | Project complexity meet 80% criteria given in extensive evidence | Project complexity meet 50% criteria given in extensive evidence | Project complexity meet less than 50% criteria given in extensive evidence |
| Code Style  **Grade:** | All Code style criteria is followed | All code style criteria followed but some improvements required | lot of improvements required in coding style. | **Did not follow** code style, |
| **Code Style Criteria:**  Consistent code style. Code is well indented. Variable and Function names are well defined.  White Spaces are well used. Comments are added. | | | | |
| Code Documentation Mapping  **Grade:** | Code and documentation is synchronized. | Code and documentation does not synchronized at **some** places | Code and documentation does not synchronized at **many** places | Code and documentation **does not** synchronized. |
| Data Structure (Arrays)  **Grade:** | Data structure is sufficient for the project requirements | Data Structure is sufficient but require improvement to meet project requirements. | Data structure is not sufficient and need a lot of improvement | Data Structure is not properly identified and declared. |
| Sorting Features  **Grade:** | Sort working 100% and generating useful report | Sorting Feature is working but sorted data is not useful for project. | Sorting feature is partial implemented | Project do not contain sorting |
| Modularity  **Grade:** | Meet all Modularity criteria | Meet all Modularity criteria but at some places it is missing | Do not sufficiently meet the modularity criteria. | No modularity or very minimum modularity. |
| **Modularity criteria:** Functions are defined for each major feature. Functions are independent (identify from parameter list and return types)- Demo Data Functionality Added-At least Two Unit Tests are defined. | | | | |
| Validations  **Grade:** | Validations on all number type inputs are applied | Validations are applied but at some places it is missing. | Validations are missing at lot of places | No Validations are used |
| Recommendation Feature | Proper meaning full recommendation is present into system | Partial Recommendation is implemented | Implemented but not meaning full. | Not implemented |
| Presentation and Demo  **Grade:** | Presentation and Demo was 100% working | Presentation and Demo require some improvements | Presentation and Demo require a lot of improvements | Presentation was not ok and Demo was not working |
| Student Understanding with the Code.  **Grade:** | Student has complete understanding how the code is working and knows the concept. | Student has good understand but some place he does not know the concepts | Student has a very little understand and lack the major concepts. | Student does not have any level of understanding of the code. |

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| **Checked by:** | Click or tap here to enter text. |