DBMS PROJECT DELIVERABLE 3

Group Members -
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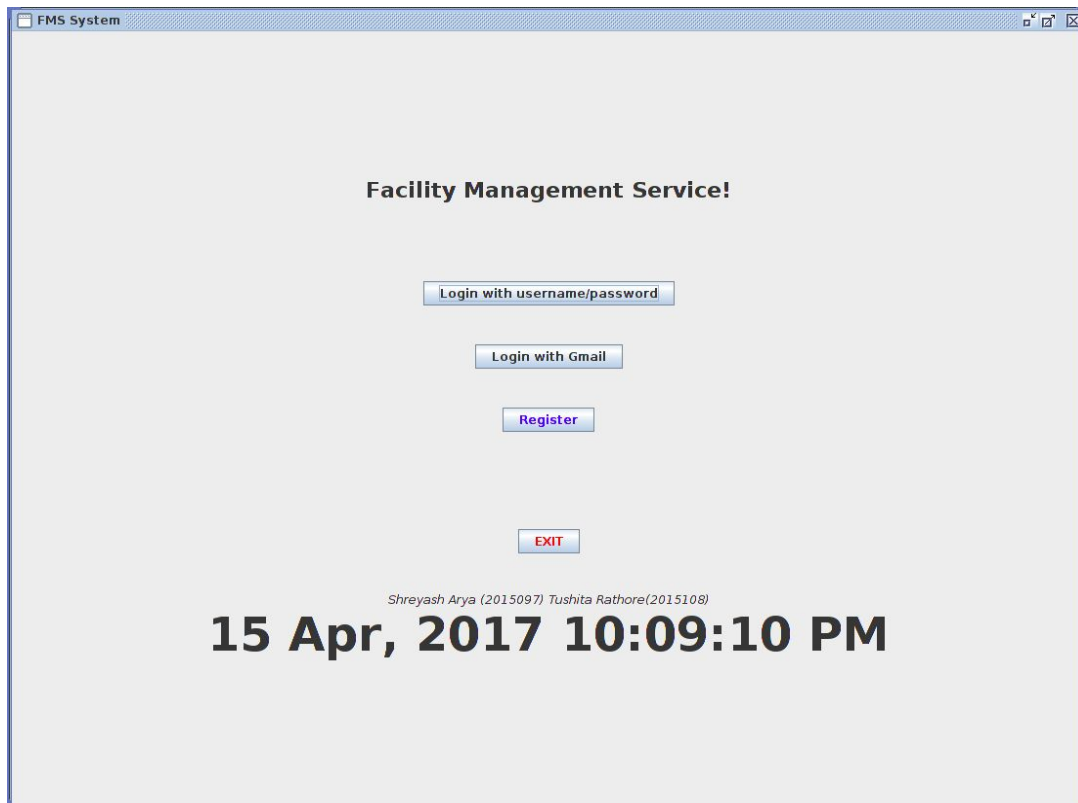

Project -
Facility Management System
The system uses the following table -
1. AdminInfo
2. SupervisorInfo
3. StaffInfo
4. NewReg
5. Inventory
6. InventoryReq
7. Task
8. DOES

Screenshots of the System -

FMS System

Login Panel

Enter username: [_____]
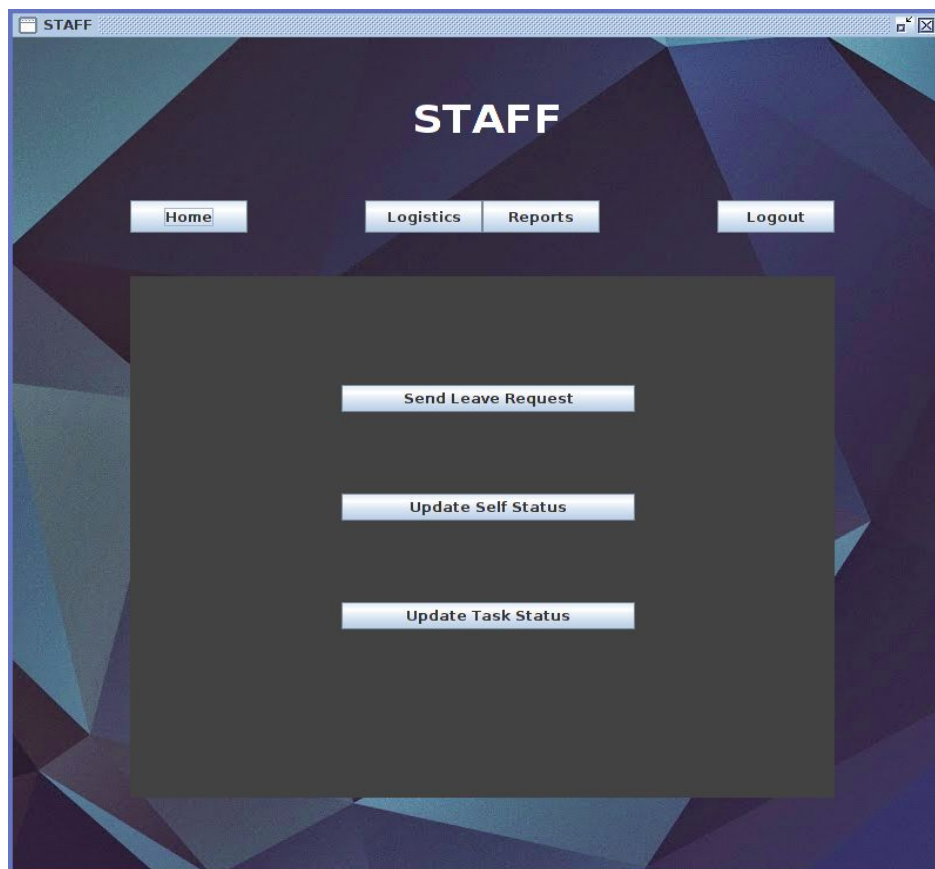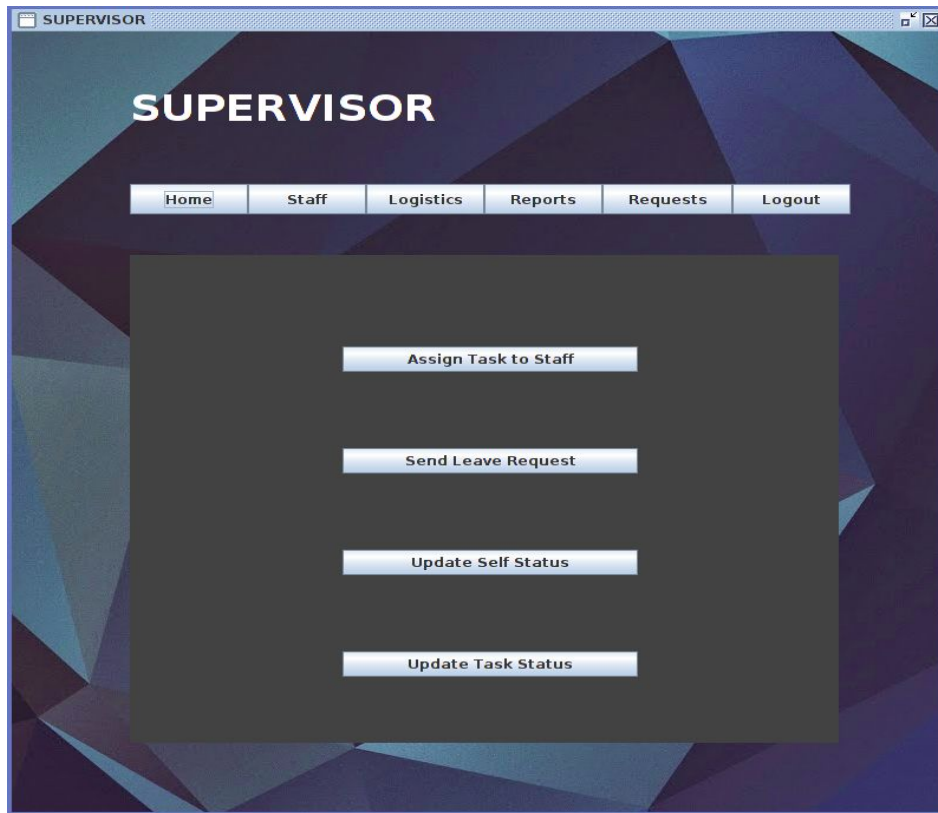
Enter password: [_____]

[Reset] [Login] [Cancel]

GM

ADMIN

| Home | Staff | Logistics | Tasks | Requests | Logout |

Choose Supervisor Dept to view: [--Supervisor-- ▼]

Choose Staff Dept to view: [--Staff-- ▼]

[Assign Task]

SUPERVISOR

| Home | Staff | Logistics | Reports | Requests | Logout |

Assign Task to Staff

Send Leave Request

Update Self Status

Update Task Status

STAFF

| Home | Logistics | Reports | Logout |

Send Leave Request

Update Self Status

Update Task Status

SQL Queries -

1. Displaying list of staff or department heads of a particular department.
   SQL - Select *
         From StaffInfo or From SupervisorInfo
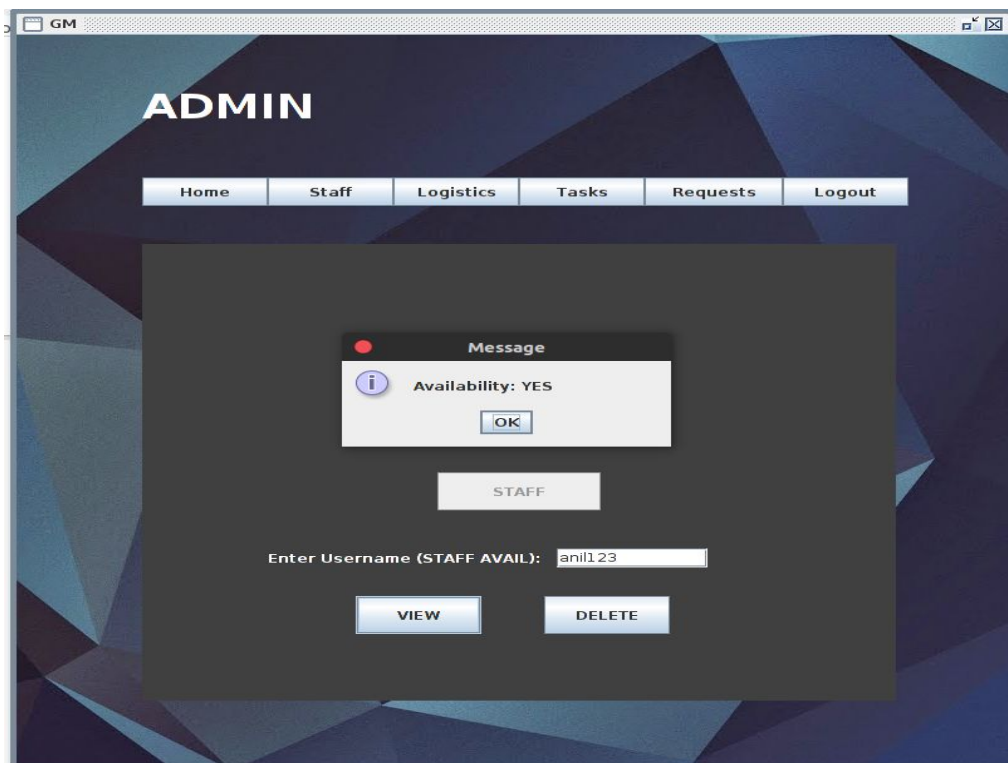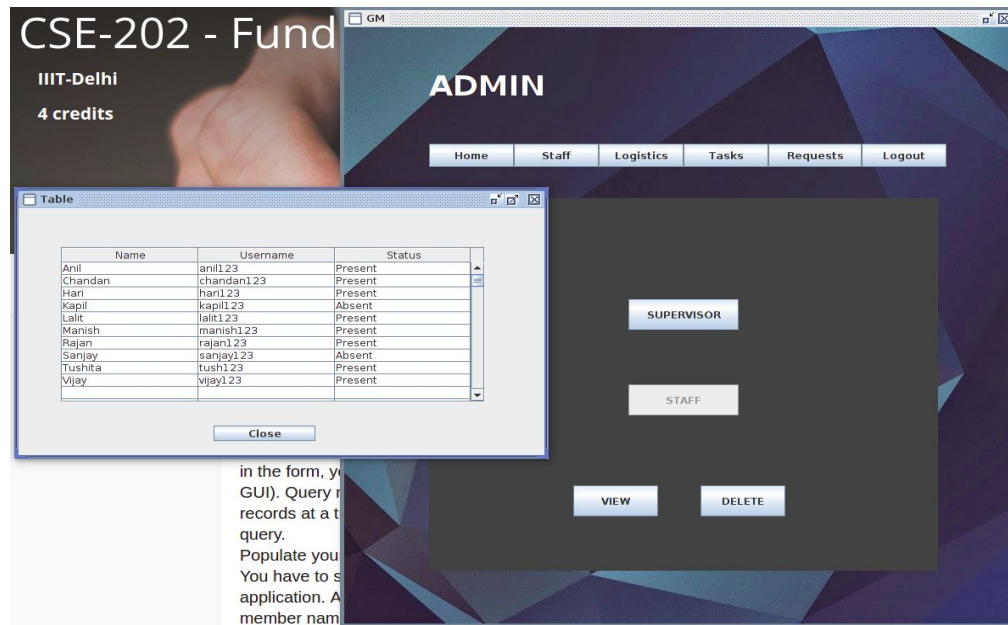   Where Dept = "deptname"

2. Displaying availability of a staff member/Supervisor.

      SQL (a)- Select Name,Username,Avail_Status

         From StaffInfo

      SQL (b)- Select Name,Username,Avail_Status

         From StaffInfo where Username = 'anil123';

3. Displaying list of member who have registered(approval pending).
    SQL - Select Name,Username,Post,Dept,DOB,City
        From NewReg

4. Displaying tasks assigned to staff.
    SQL - Select DOES.Username,Title,Location
        From Task,DOES
        Where Task.TID=DOES.TID

5. Displaying Inventory of a department.
   SQL - Select SupervisorInfo.Name,SupervisorInfo.Dept, List_items
        From SupervisorInfo, Inventory
        Where SupervisorInfo.Dept = Inventory.Dept
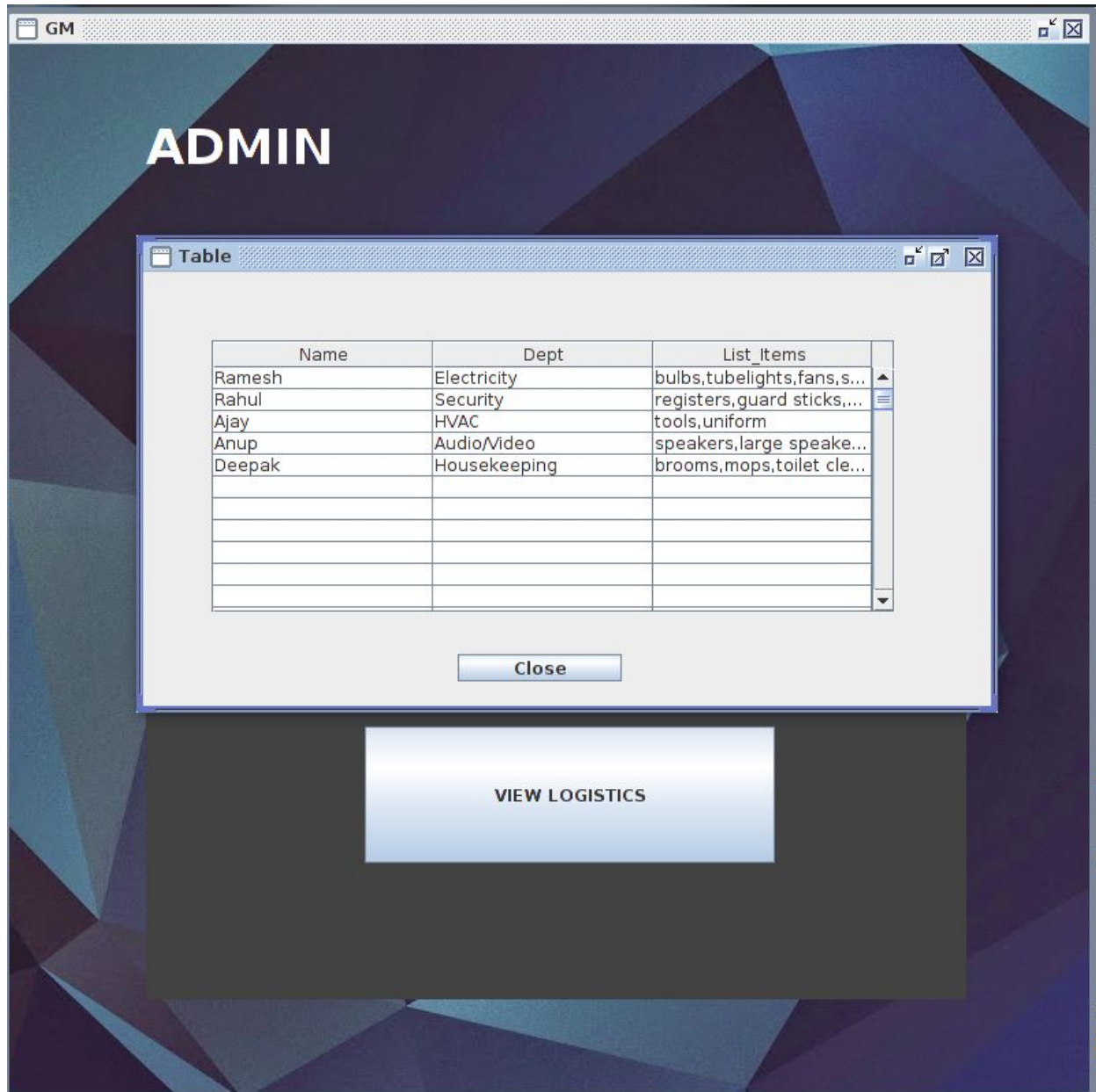
6. Details of task assigned to staffs of particular department.
   SQL - Select StaffInfo.Username,StaffInfo.Dept,Title,Location,Status,Deadline
         From Task natural join DOES natural join StaffInfo

Username	Dept	Title	Location	Status	Deadline
lalit123	Housekee...	Fan cleani...	In B104 b...	Completed	10 April

Close

Choose Dept to view task: Housekeeping ▼

Choose Dept to count ON-task: --ONGOING-- ▼

View All Tasks

7. Details of inventory of a particular department ,waiting for approval and already present.

SQL - Select SupervisorInfo.Name,SupervisorInfo.Dept, List_items,Req_Items
   From SupervisorInfo natural join Inventory natural join InventoryReq
   Where Supervisor.Dept='Dep'

Name	Dept	Current inventory	Requested Inventory
Rahul	Security	registers,guard sticks,uniforms	New Uniforms men

Close

Current + Required Inventory: Security ▾

LOGISTICS

MEMBERS

8. Count the number of staff members of a particular department who have some assigned task with status="ongoing"
   SQL - select count(*) from StaffInfo natural join DOES natural join Task where Status = 'ongoing' and Dept='Audio/Video'
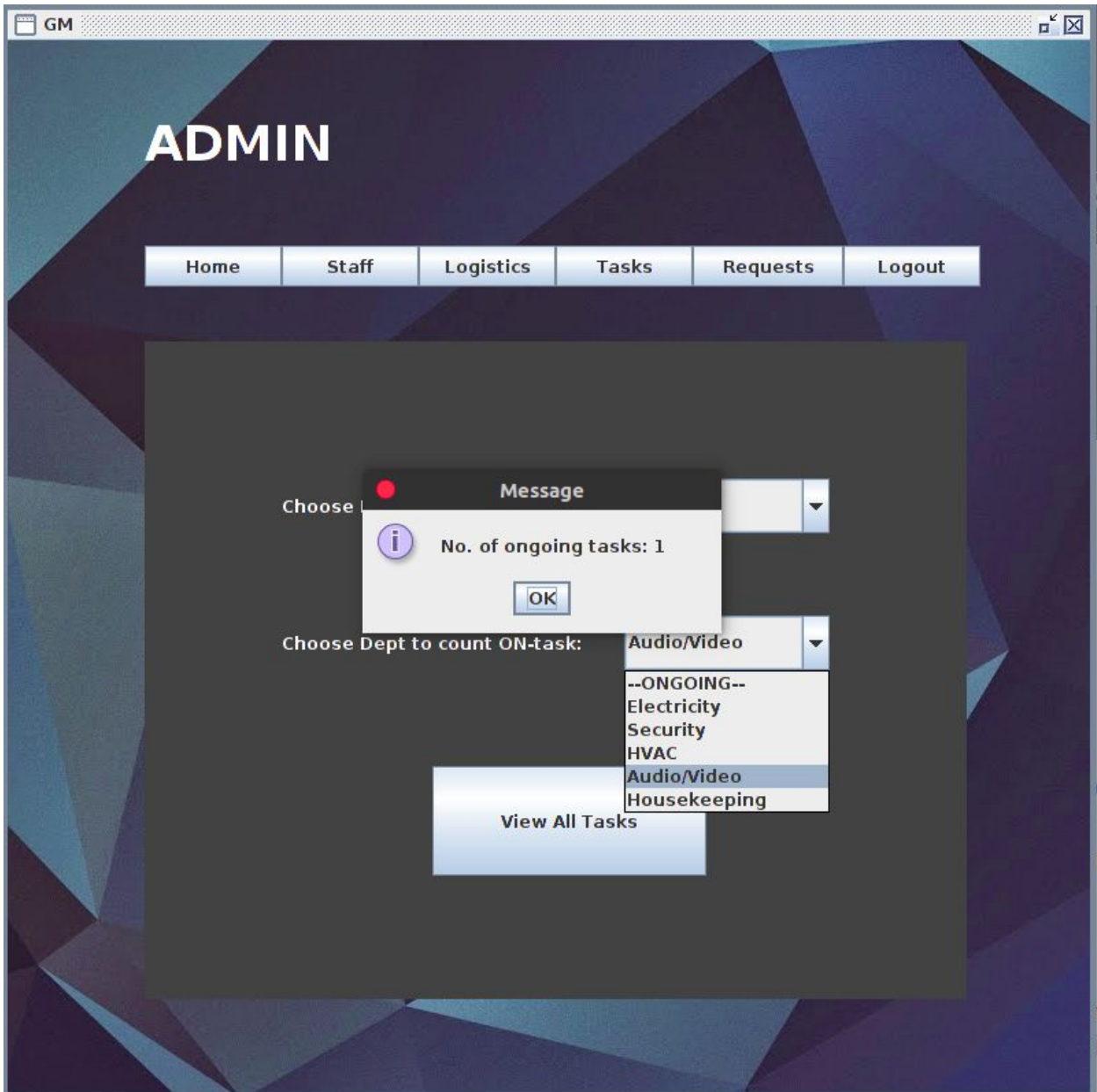
9. Deleting any member from staff using his username only if the staff member does not have an ongoing task,otherwise delay deletion.
   SQL -

   delete from StaffInfo
   where StaffInfo.Username='tush123'
   and (not exists (select Username from DOES
   where Username='tush123')
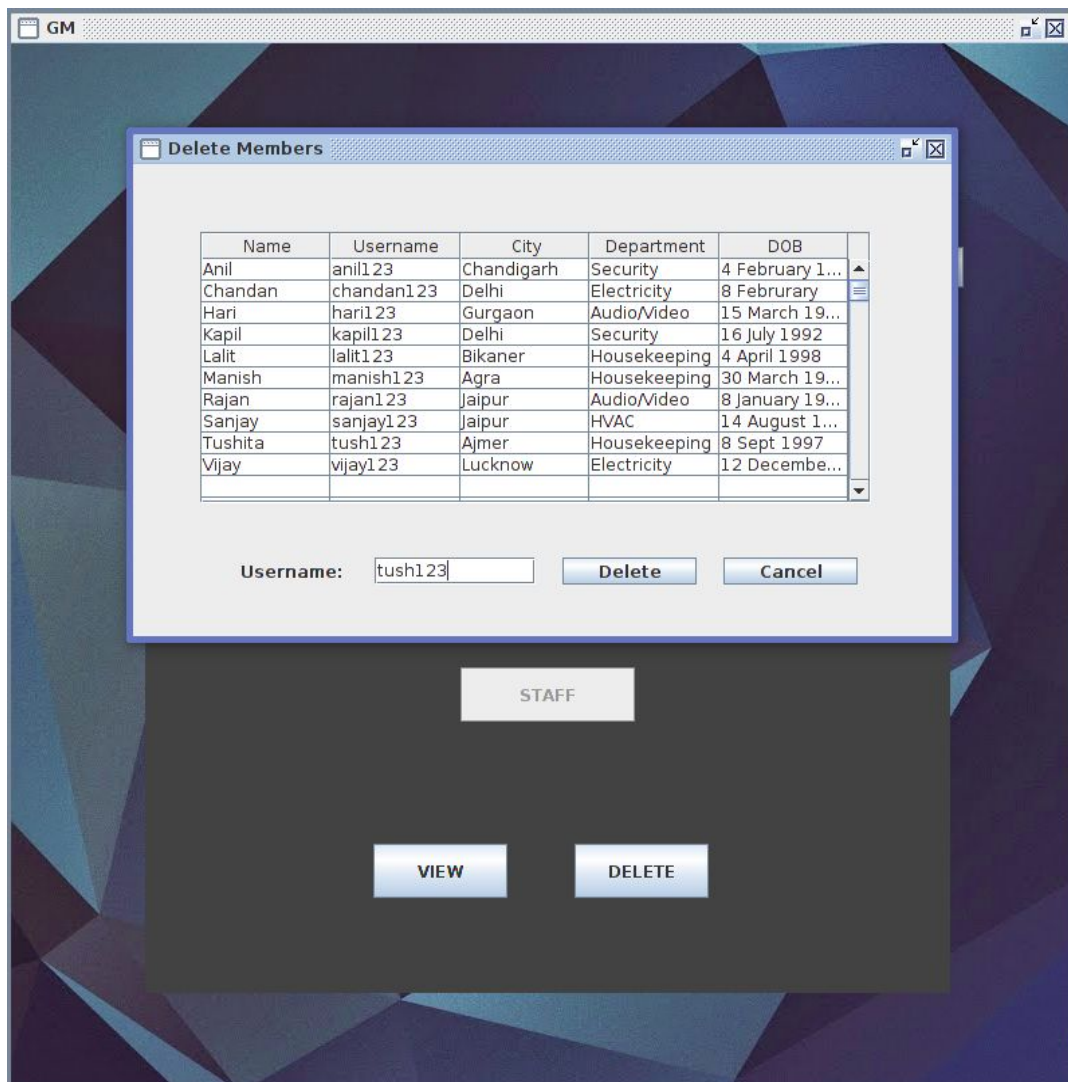   or exists (select Username,Status from DOES,Task
   where Task.TID=DOES.TID and Username = 'tush123' and Status='Completed'));
   delete From Task
   where TID in (select TID from StaffInfo natural join DOES
   where Username = 'tush123');

10. Details of equipments required by a staff member for a particular task, and the availability of equipments.

SQL - Select StaffInfo.Username,StaffInfo.Dept,Task.Title,Task.Tools
From Task natural join StaffInfo natural join DOES

Name	Dept	Title	Tools required	Available-Yes...
rajan123	Audio/Video	Repair Proje...	tools,wires	Not Available
vijay123	Electricity	Repair tubeli...	tools,tubelig...	Available
lalit123	Housekeeping	Fan cleaning	cleaning clot...	Available

Close

VIEW Availability of Tools for Task

VIEW LOGISTICS

----> Extra Queries implemented -

11. Insert values of registrations in Table and delete from NewReg if request approved.
    SQL - select* from NewReg where Username='"+Uname+"';
    Insert into StaffInfo(Name,Username,Dept,DOB,City) values "+ "(?,?,?,?,?);
    delete from NewReg where Username ='"+Uname+"';

12. Delete values from NewReg whose requests are disapproved.
    SQL - Delete from NewReg Where Username = ?

13. Insert details into NewReg of people who register.
    SQL - Insert into NewReg(Name,Username,Post,Dept,DOB,City) values "
        + "(?, ?, ?, ?, ?,?)

14. Displaying requested inventory of a department.

   SQL - SELECT SupervisorInfo.Name,SupervisorInfo.Dept,Req_Items
         FROM SupervisorInfo natural join InventoryReq