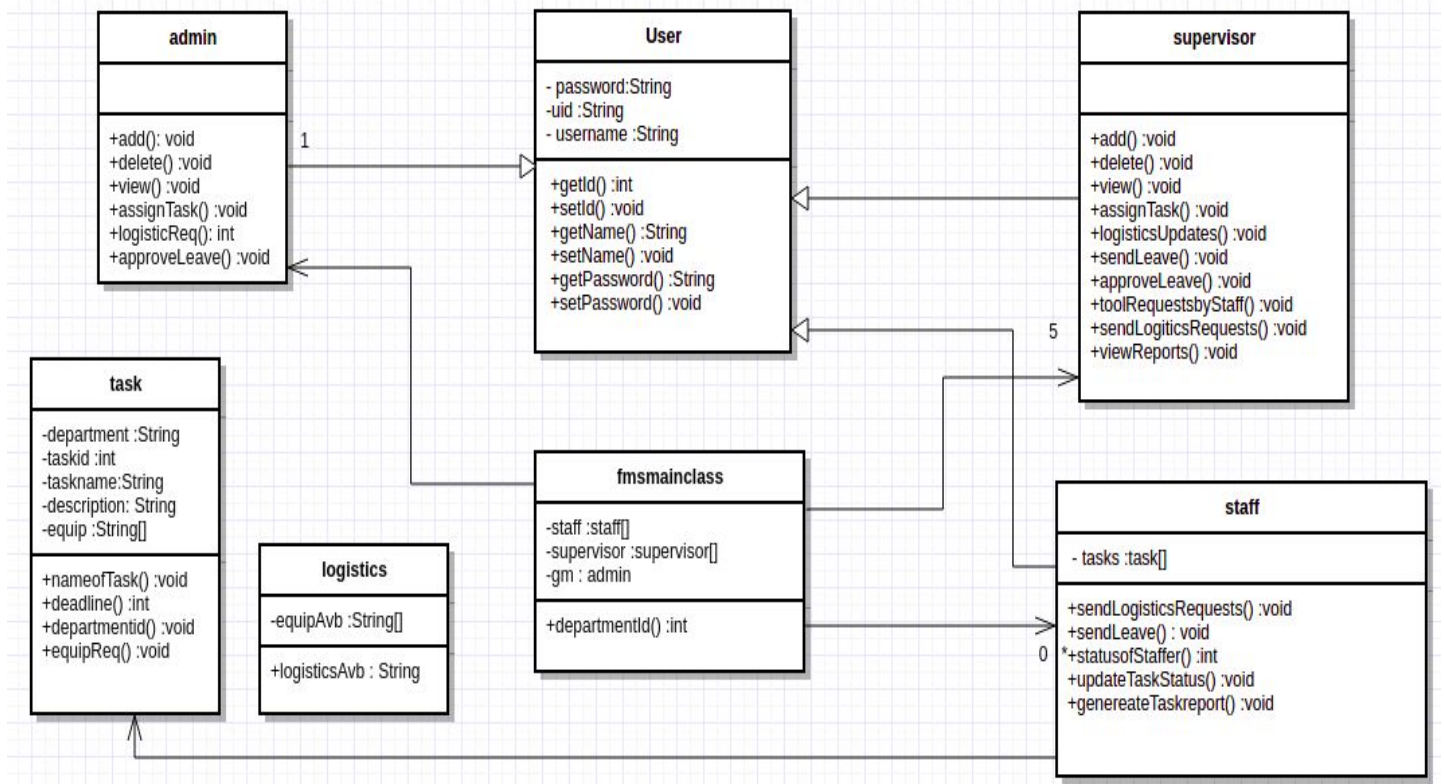


ADVANCED PROGRAMMING PROJECT - FACILITY MANAGEMENT SYSTEM

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#CLASS DIAGRAM -



CLASS DIAGRAM ANALYSIS-

Our project design includes a USER class that has the common variables and functions that are associated with the users of the FMS system.

The common variables include the username, unique ID , password and the USER class therefore, includes setters - getters for the variables given.

The user in the system : ADMIN/GM , SUPERVISOR and STAFF extend the variables and function of the USER.

The class ADMIN includes the methods -

1. add() - to add a new supervisor or staff
2. delete() - to delete any member from the system.
3. view() - to view details of supervisor and staff.
4. assignTask() - to assign tasks to supervisor.
5. approveLeave() - to approve./ disapprove the leaves of supervisor and staff.
6. LogisticReq() - to approve./ disapprove the logistic requirement requests sent by supervisor.

The class SUPERVISORr includes -

1. add() - to add a new staff
2. delete() - to delete any staffer from the system.
3. view() - to view details of staff.
4. assignTask() - to assign tasks to staff.
5. approveLeave() - to approve./ disapprove the leaves of staff.
- 6.logisticsUpdates() - the supervisor has to update the inventory and things he has left after someone borrow/uses something.
7. viewReports() - view task reports of the staff.
8. sendLogisticsRequests() - a supervisor could send requests for the things required for the inventory he has.
9. toolRequestsbyStaff() - approve or rejects requests of tools made by staff

The class STAFF includes -

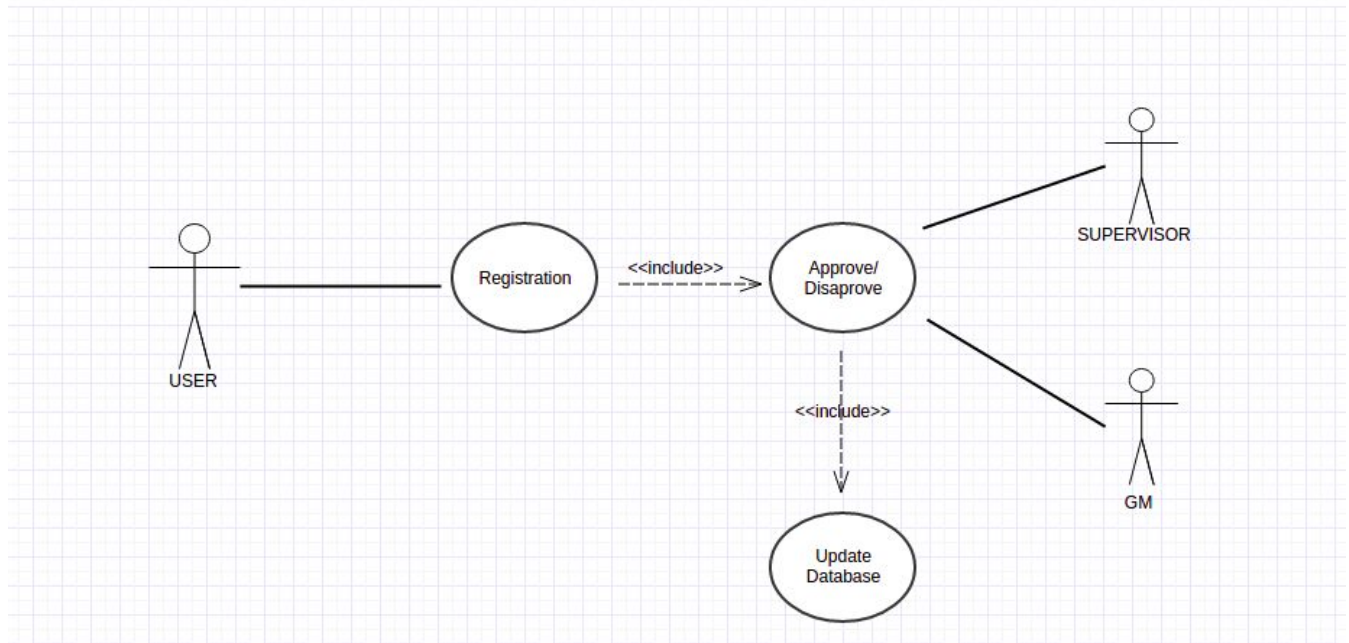
1. An array of type TASK that would contain tasks assigned.
2. sendLeave() - send leave to senior authority.
3. sendLogisticsRequests() - a staffer could send requests for the things required for the task he has.
4. updateTaskStatus() - update the task status to complete/in progress / not started
- 5.generateTaskReport() - after completion of the task, the staffer has to write a report about it, so this method would allow it to generate a report for analysis.
6. statusofStaffer() - the staffer has to keep his availability or leave or busy status updated.

The TASK Class has all the requirements for the task a person is assigned like id, department , its deadline and the description.

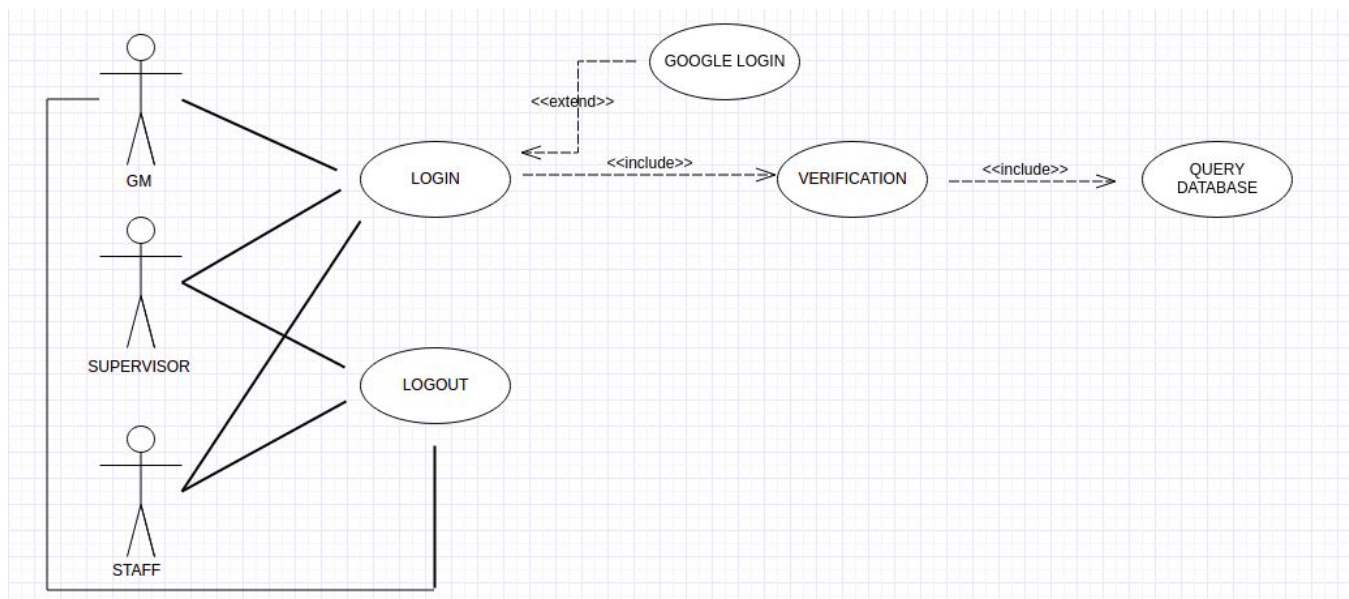
The logistics class is used to keep the arrays that store the inventory of various supervisors.

#USE CASE DIAGRAMS-

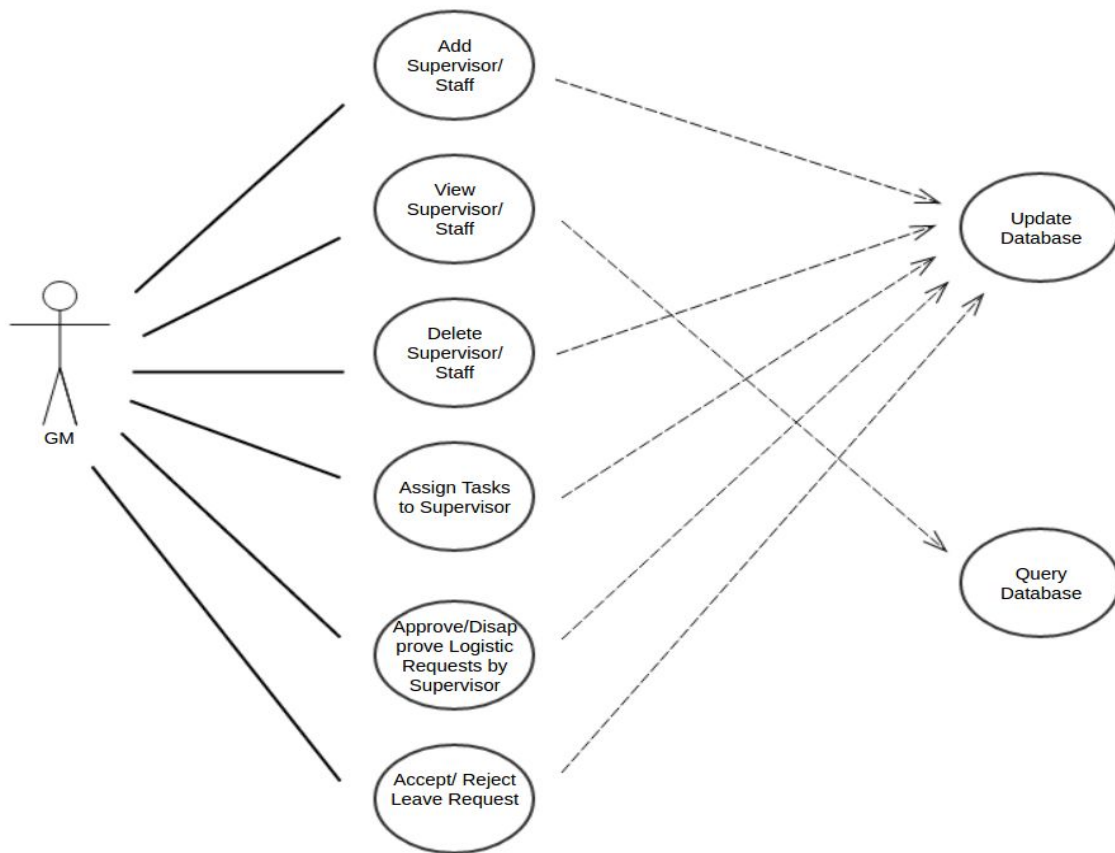
-REGISTER



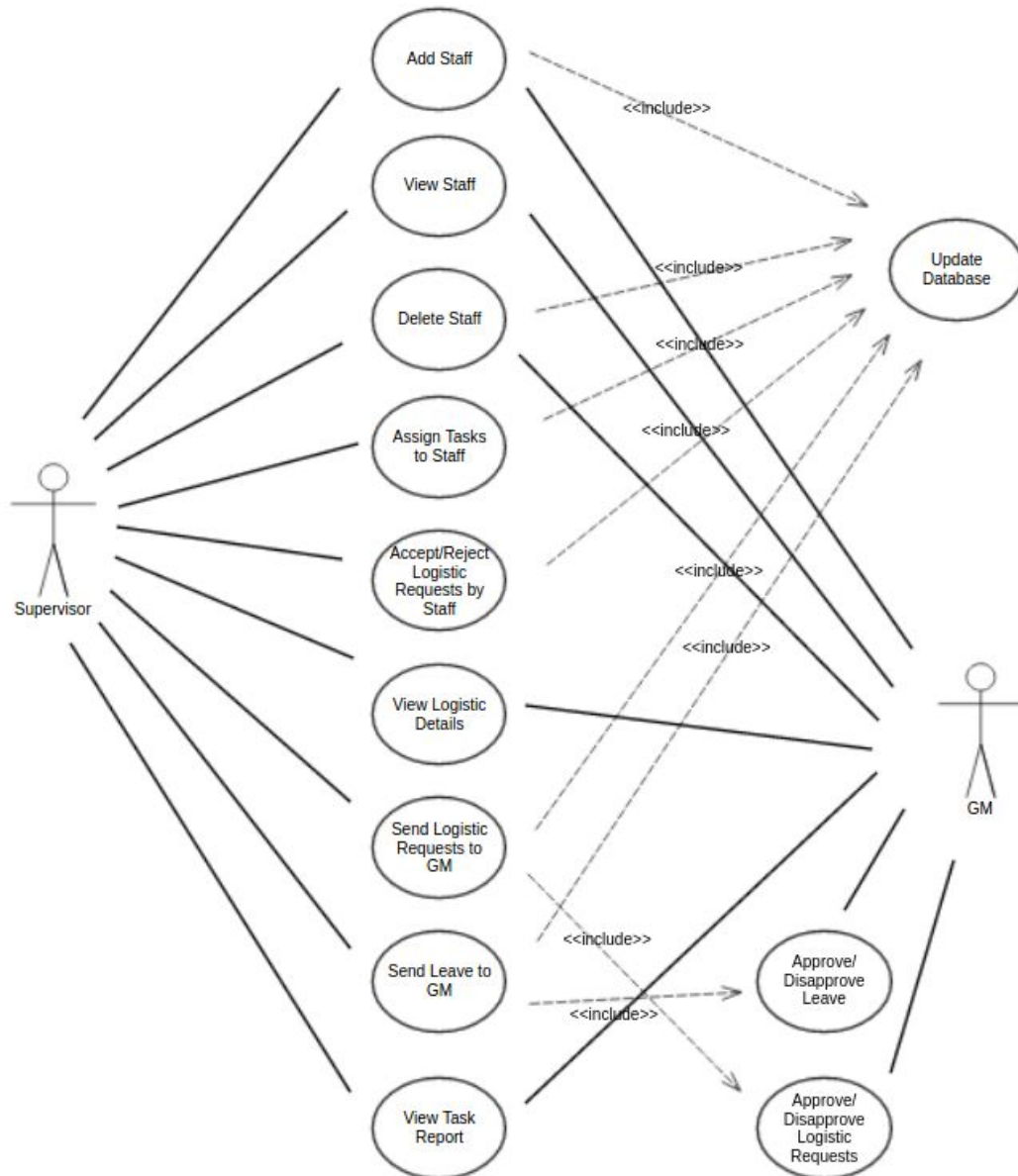
-LOGIN



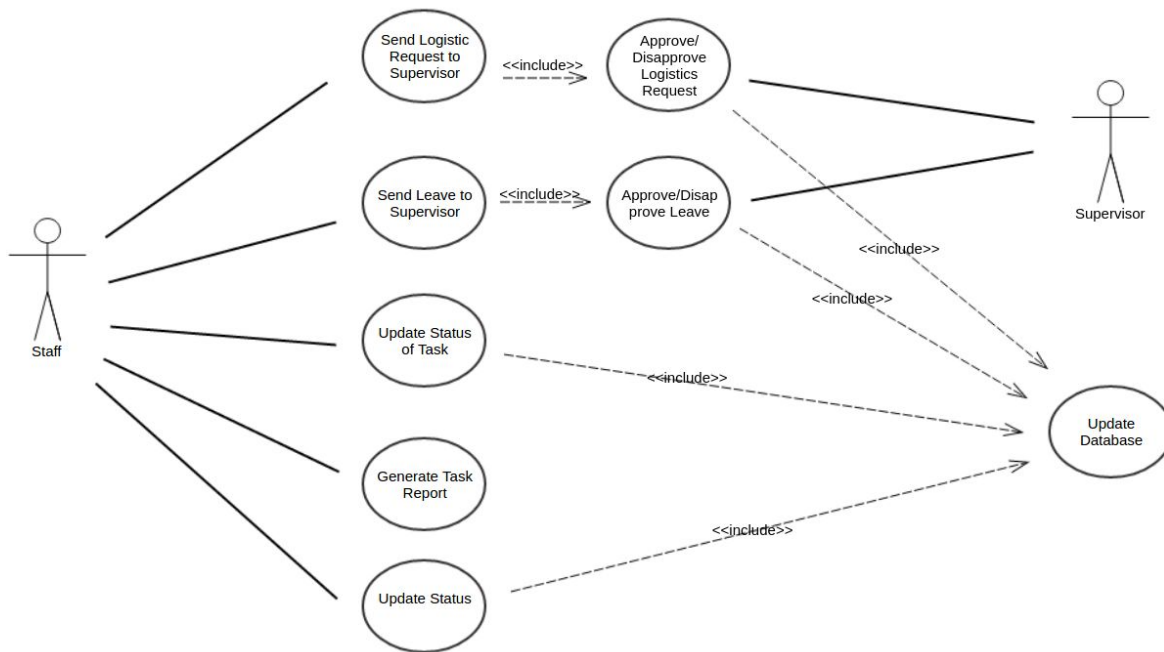
-GM



-SUPERVISOR



STAFF



USE-CASE DETAILS:

Name: Login

Participating actor: GM, Supervisor, Staff

Entry condition: Correct Username. Correct Password.

Exit condition: Verification Successful.

Event flow:

1. User chooses login method.
2. User enter username and password.
3. Verification is done by querying the database.

Exceptional Case:

If logged in through Gmail, it will log in directly by querying the details from Gmail server.

Name: Register

Participating actor: GM, Supervisor, Staff

Entry condition: Enter details.

Exit condition: Approve/ Disapprove.

Event flow:

1. User enter details..