AP PROJECT REPORT

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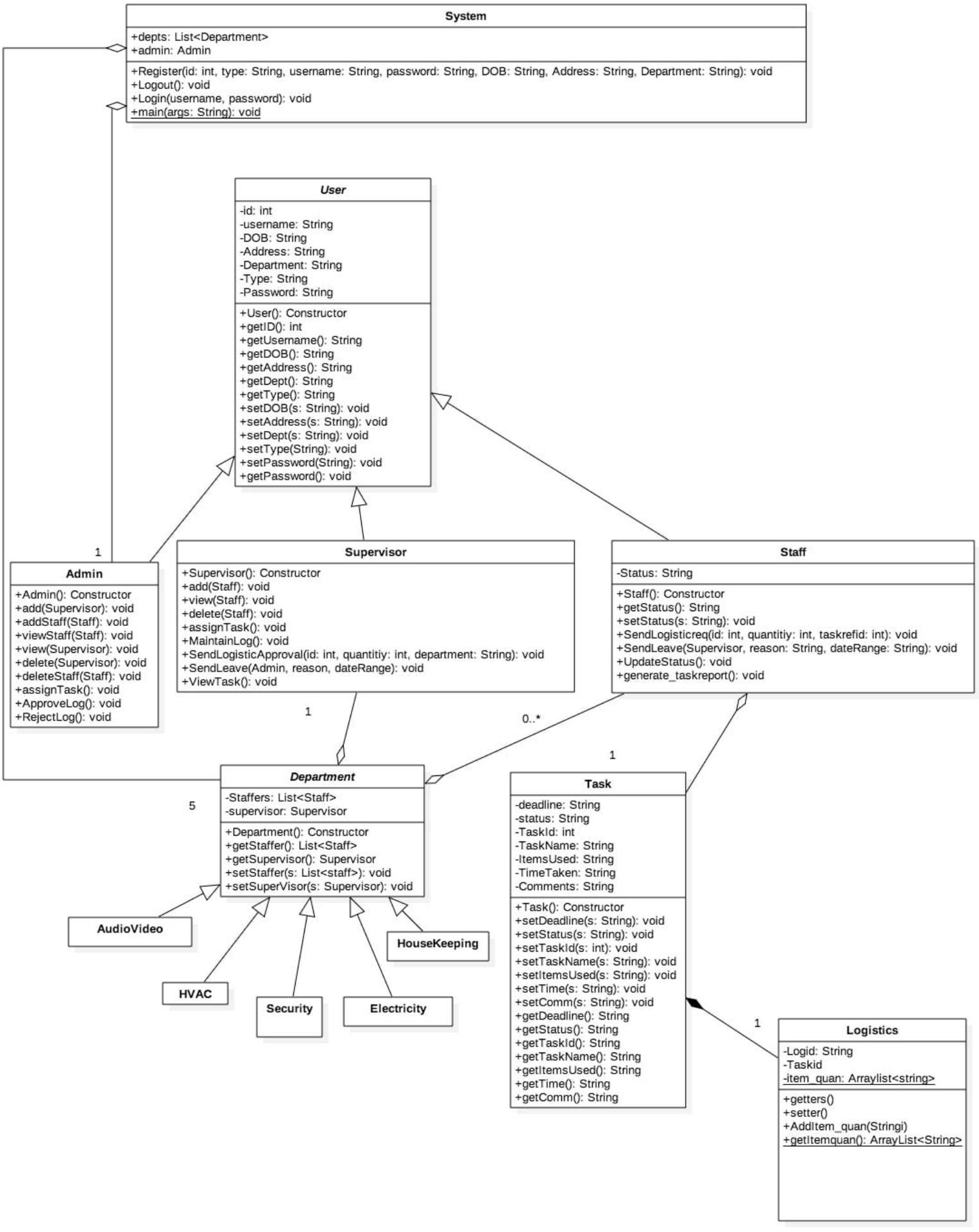
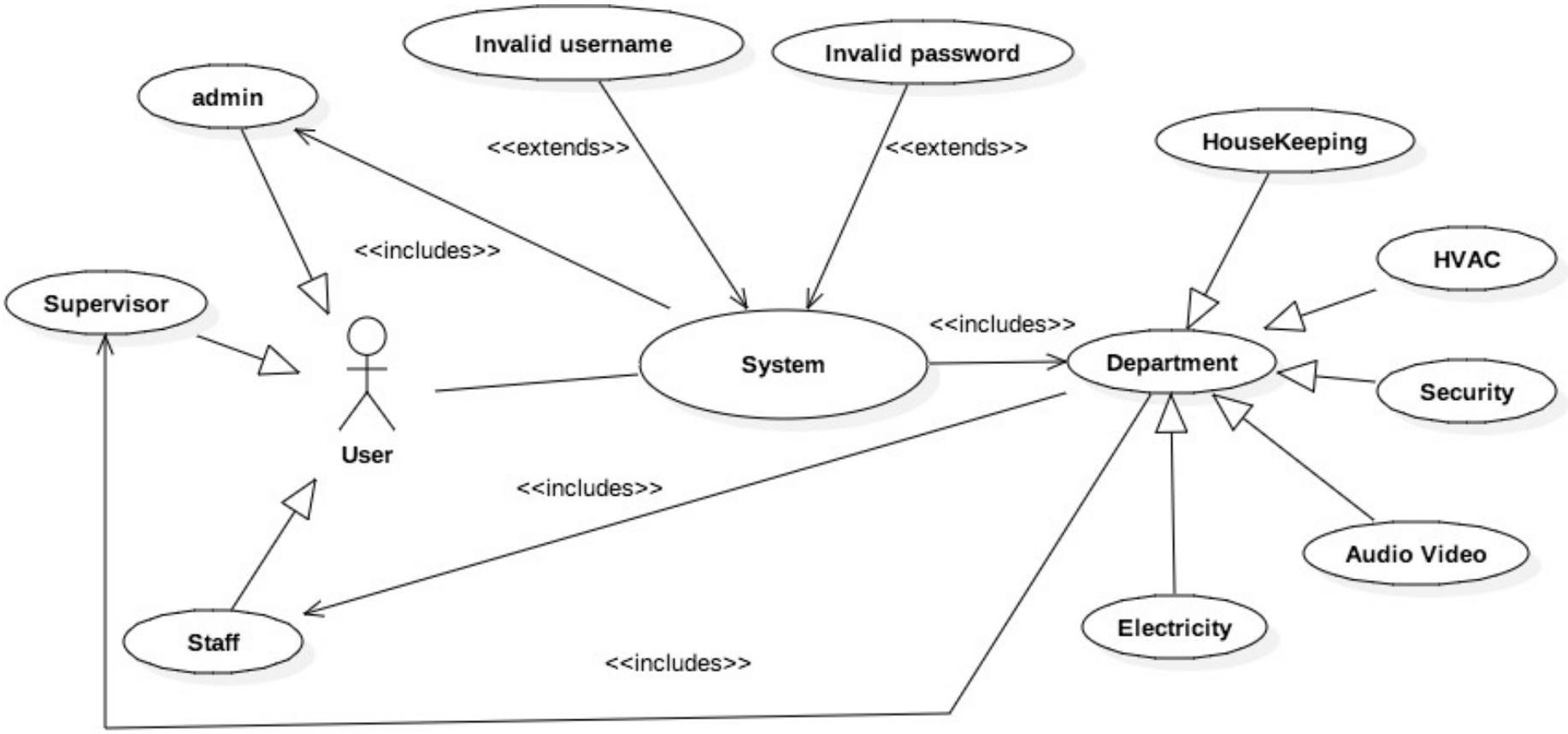
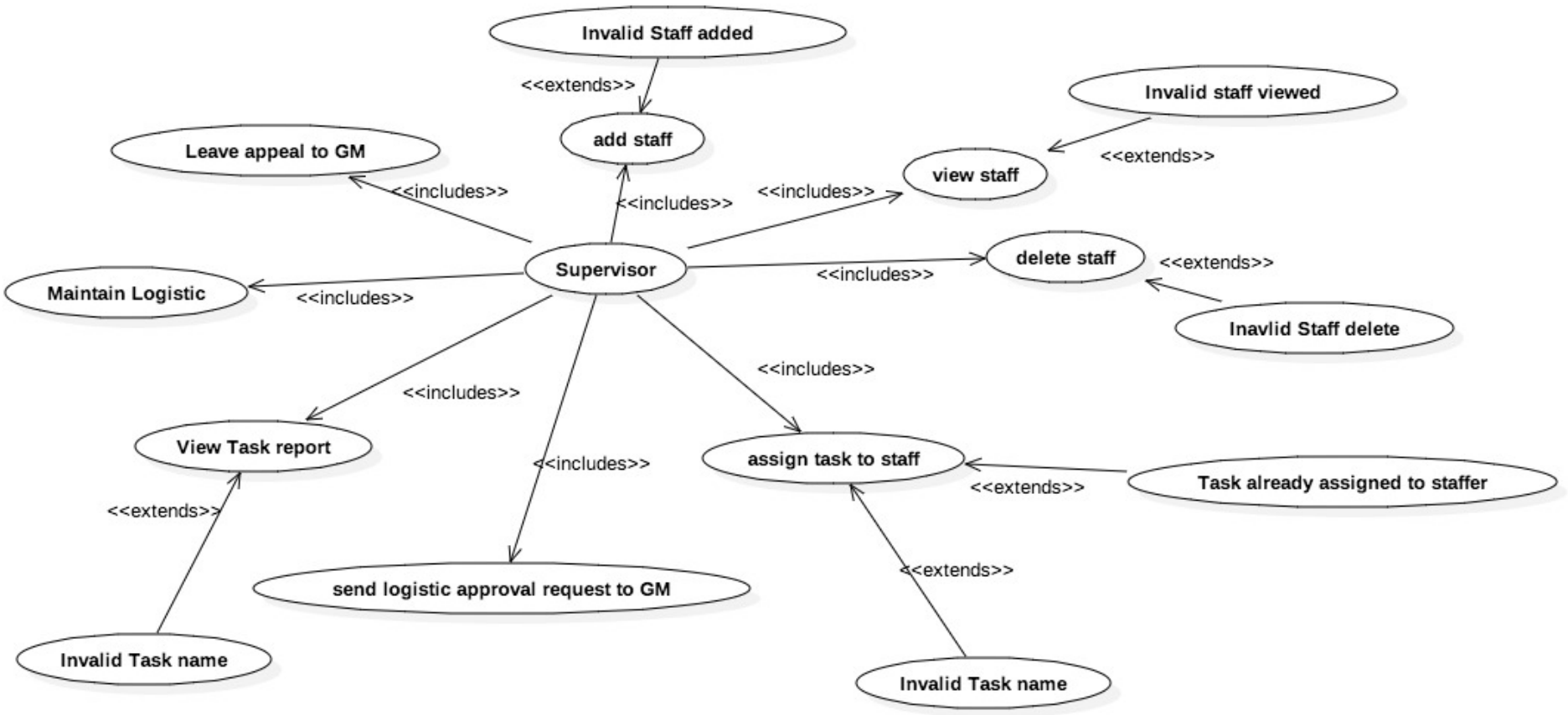
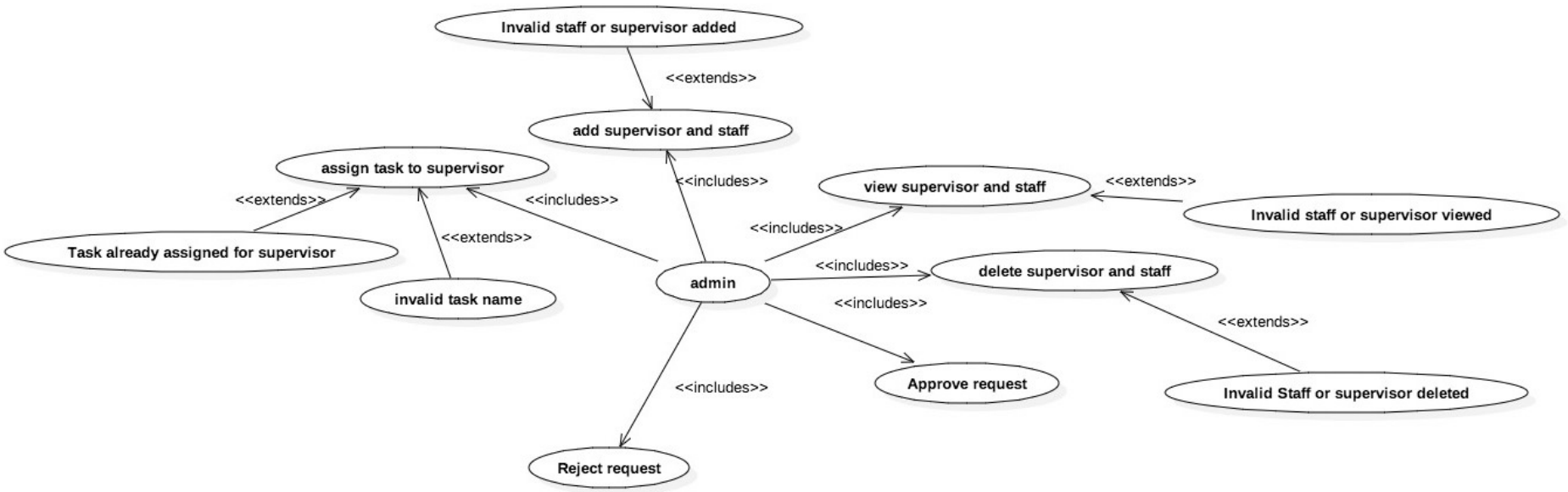
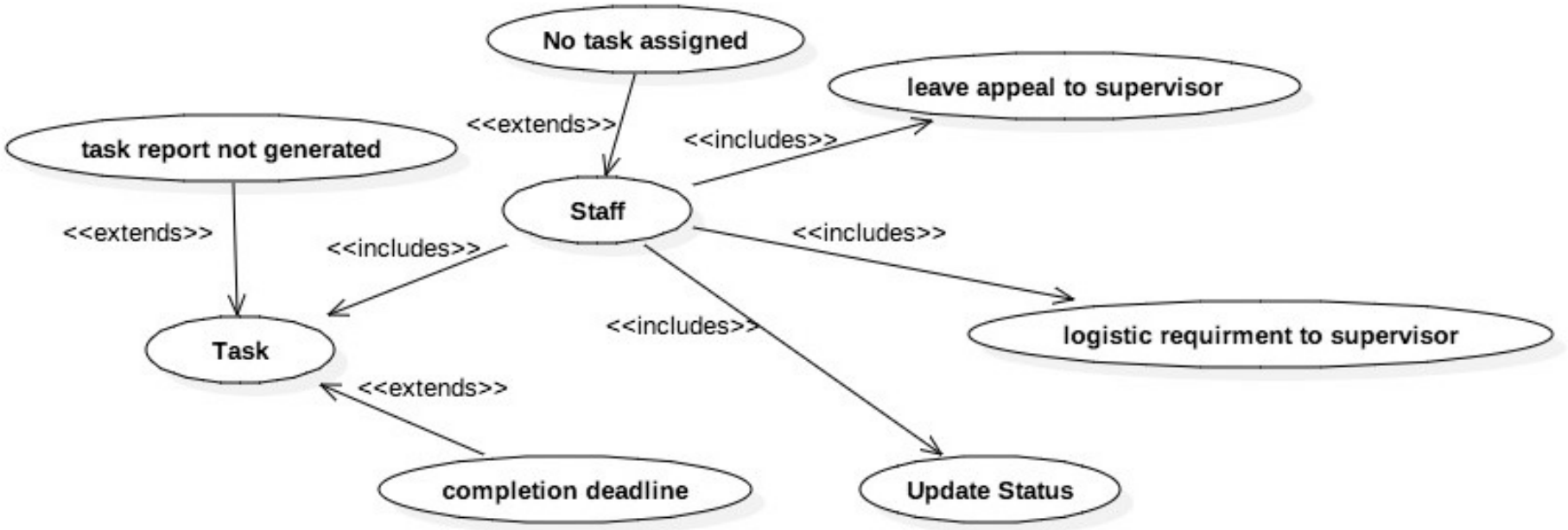

System
+depts: List<Department>
+admin: Admin
+Register(id: int, type: String, username: String, password: String, DOB: String, Address: String, Department: String): void
+Logout(): void
+Login(username, password): void
+main(args: String): void
User
-id: int
-username: String
-DOB: String
-Address: String
-Department: String
-Type: String
-Password: String
+User(): Constructor
+getID(): int
+getUsername(): String
+getDOB(): String
+getAddress(): String
+getDept(): String
+getType(): String
+setDOB(s: String): void
+setAddress(s: String): void
+setDept(s: String): void
+setType(String): void
+setPassword(String): void
+getPassword(): void
1
Admin
+Admin(): Constructor
+add(Supervisor): void
+addStaff(Staff): void
+viewStaff(Staff): void
+view(Supervisor): void
+delete(Supervisor): void
+deleteStaff(Staff): void
+assignTask(): void
+ApproveLog(): void
+RejectLog(): void
Supervisor
+Supervisor(): Constructor
+add(Staff): void
+view(Staff): void
+delete(Staff): void
+assignTask(): void
+MaintainLog(): void
+SendLogisticApproval(id: int, quantitiy: int, department: String): void
+SendLeave(Admin, reason, dateRange): void
+ViewTask(): void
Staff
-Status: String
+Staff(): Constructor
+getStatus(): String
+setStatus(s: String): void
+SendLogisticreq(id: int, quantitiy: int, taskrefid: int): void
+SendLeave(Supervisor, reason: String, dateRange: String): void
+UpdateStatus(): void
+generate_taskreport(): void
1
0..*
1
5
Department
-Staffers: List<Staff>
-supervisor: Supervisor
+Department(): Constructor
+getStaffer(): List<Staff>
+getSupervisor(): Supervisor
+setStaffer(s: List<staff>): void
+setSuperVisor(s: Supervisor): void
AudioVideo
HVAC
Security
Electricity
HouseKeeping
Task
-deadline: String
-status: String
-TaskId: int
-TaskName: String
-ItemsUsed: String
-TimeTaken: String
-Comments: String
+Task(): Constructor
+setDeadline(s: String): void
+setStatus(s: String): void
+setTaskId(s: int): void
+setTaskName(s: String): void
+setItemsUsed(s: String): void
+setTime(s: String): void
+setComm(s: String): void
+getDeadline(): String
+getStatus(): String
+getTaskId(): String
+getTaskName(): String
+getItemsUsed(): String
+getTime(): String
+getComm(): String
1
Logistics
-Logid: String
-Taskid
-item_quan: Arraylist<string>
+getters()
+setter()
+AddItem_quan(Stringi)
+getItemquan(): ArrayList<String>


Invalid username
Invalid password
admin
<<extends>>
<<extends>>
HouseKeeping
<<includes>>
HVAC
Supervisor
<<includes>>
System
Department
Security
User
<<includes>>
Audio Video
Staff
Electricity
<<includes>>


Invalid Staff added
<<extends>>
add staff
Invalid staff viewed
<<extends>>
view staff
Leave appeal to GM
<<includes>>
<<includes>>
<<includes>>
Supervisor
delete staff
<<extends>>
Inavlid Staff delete
Maintain Logistic
<<includes>>
<<includes>>
<<includes>>
<<includes>>
View Task report
<<includes>>
assign task to staff
Task already assigned to staffer
<<extends>>
<<extends>>
send logistic approval request to GM
<<extends>>
Invalid Task name
Invalid Task name


Invalid staff or supervisor added
<<extends>>
add supervisor and staff
assign task to supervisor
<<extends>>
<<includes>>
<<includes>>
view supervisor and staff
<<extends>>
Invalid staff or supervisor viewed
<<includes>>
Task already assigned for supervisor
<<extends>>
invalid task name
admin
<<includes>>
delete supervisor and staff
<<includes>>
<<extends>>
<<includes>>
Approve request
Invalid Staff or supervisor deleted
Reject request


No task assigned
leave appeal to supervisor
<<extends>>
<<includes>>
task report not generated
Staff
<<extends>>
<<includes>>
<<includes>>
<<includes>>
Task
logistic requirment to supervisor
<<extends>>
completion deadline
Update Status

System Description

1. The SystemFMS class has departments and has a unique admin. Each department has a unique Supervisor.
2. There are 3 types of users-admin, supervisors, staff members.
3. The admin assigns tasks to the supervisors and the supervisors assign these tasks to a staffer or a group of staffers of the department.
4. Every staffer has a task and every task has a logistics requirement.
5. The logistics requirement of a task are sent by the staffer to the supervisor for approval and further sent for the admin's approval if approved by the supervisor.
6. Leave requests by the staffer can be made to his department's supervisor and the supervisor requests for leave from the admin.
7. The admin registers first. The further registrations by staffers and supervisors are approved by the admin and then become a part of the system.

Individual Contributions:

1. Gunkirat Kaur(2015032) - Database handling, GUI, editing functions.
2. Shaan Chopra(2015090) - Implementation of functions of all classes, GUI, System design.