2022

CSE 2101 ASSIGNEMENT SUBMISSION 3:SYSTEM DESIGN

SYSTEM DESIGN

USER

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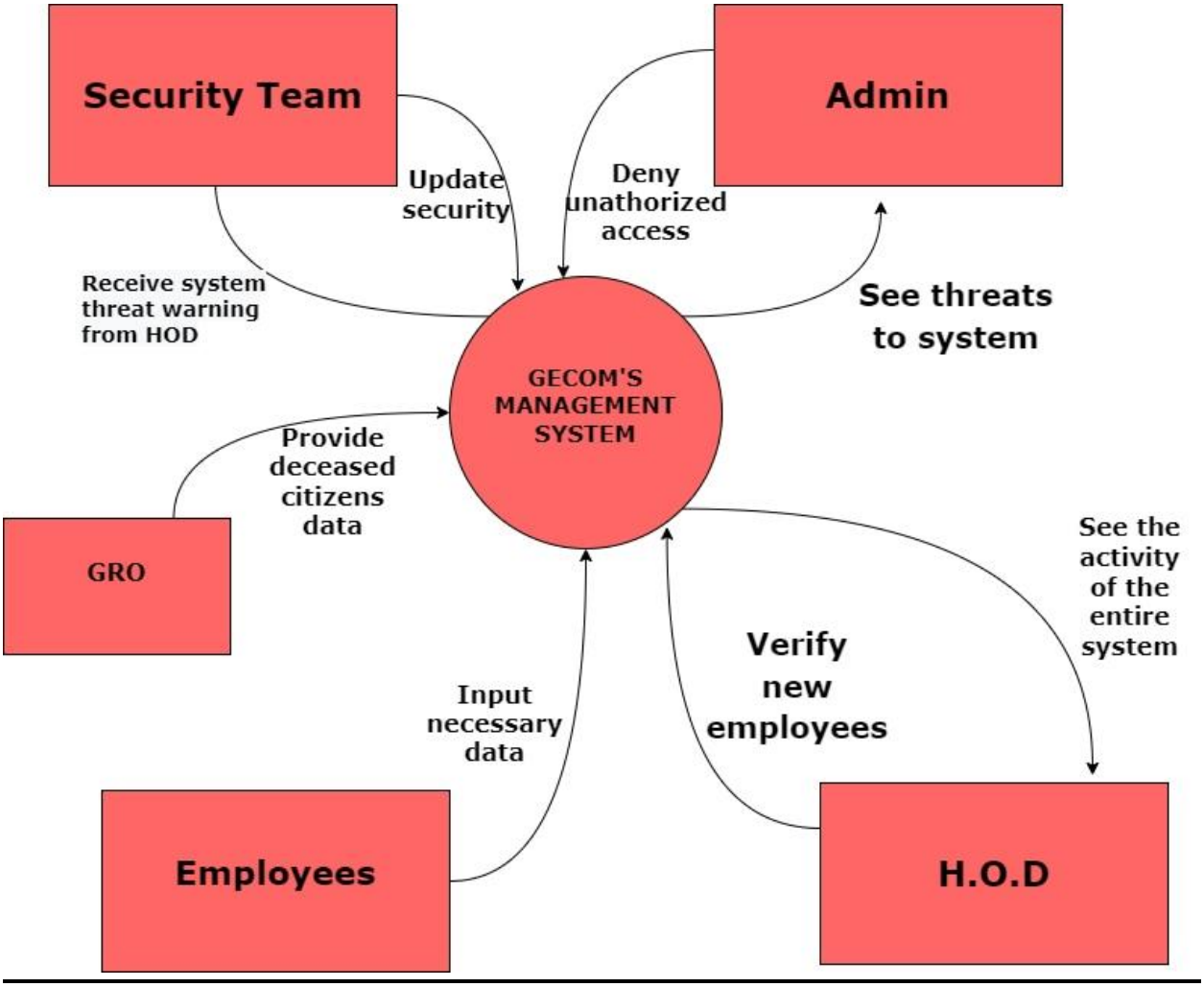
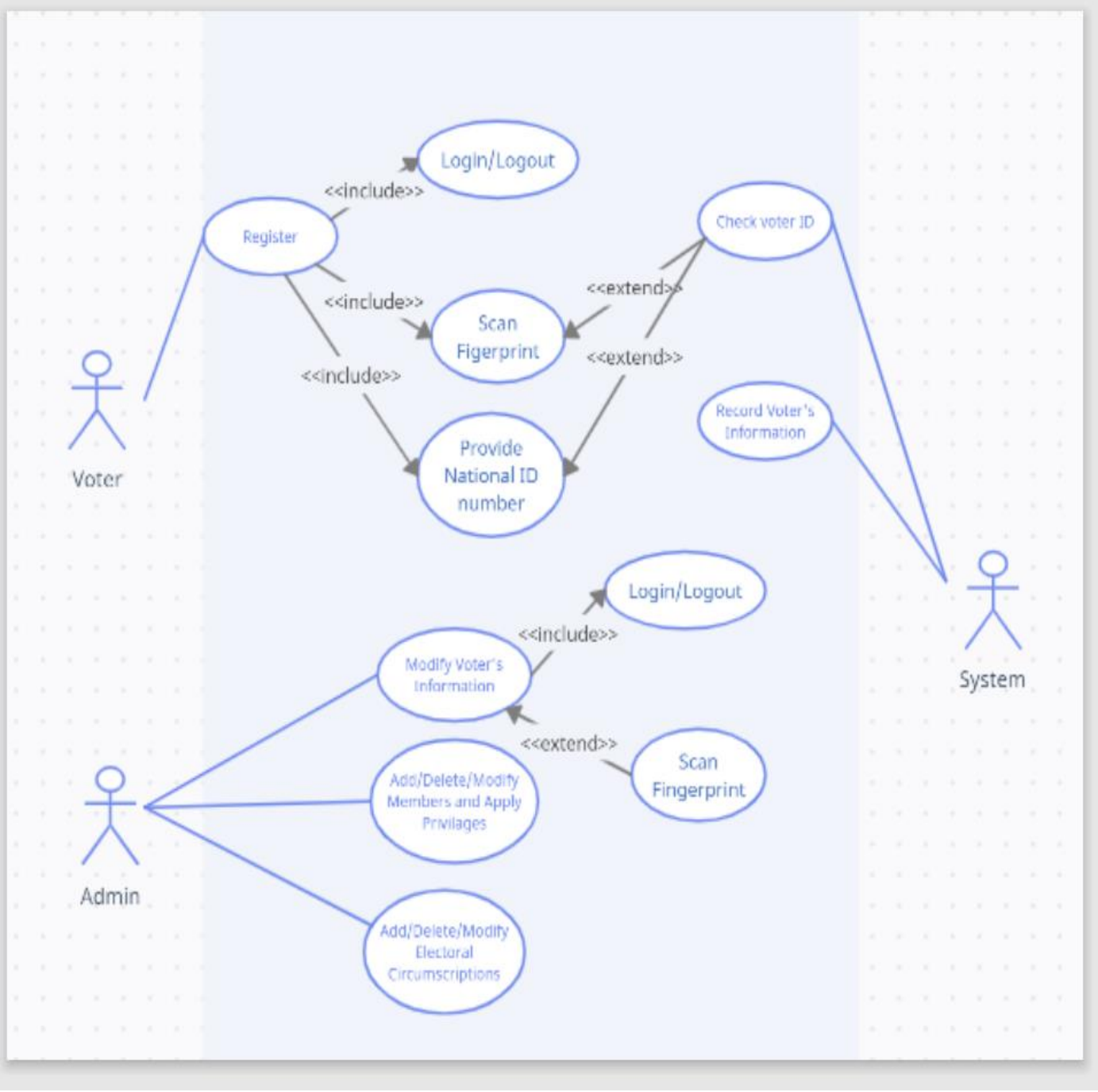
Context Diagram



Description:

It can be seen that the diagram has 5 stakeholders those being GRO, Admin, Employees, HOD and security team. There is an input and also an output carried out when these stakeholders interact with the system.

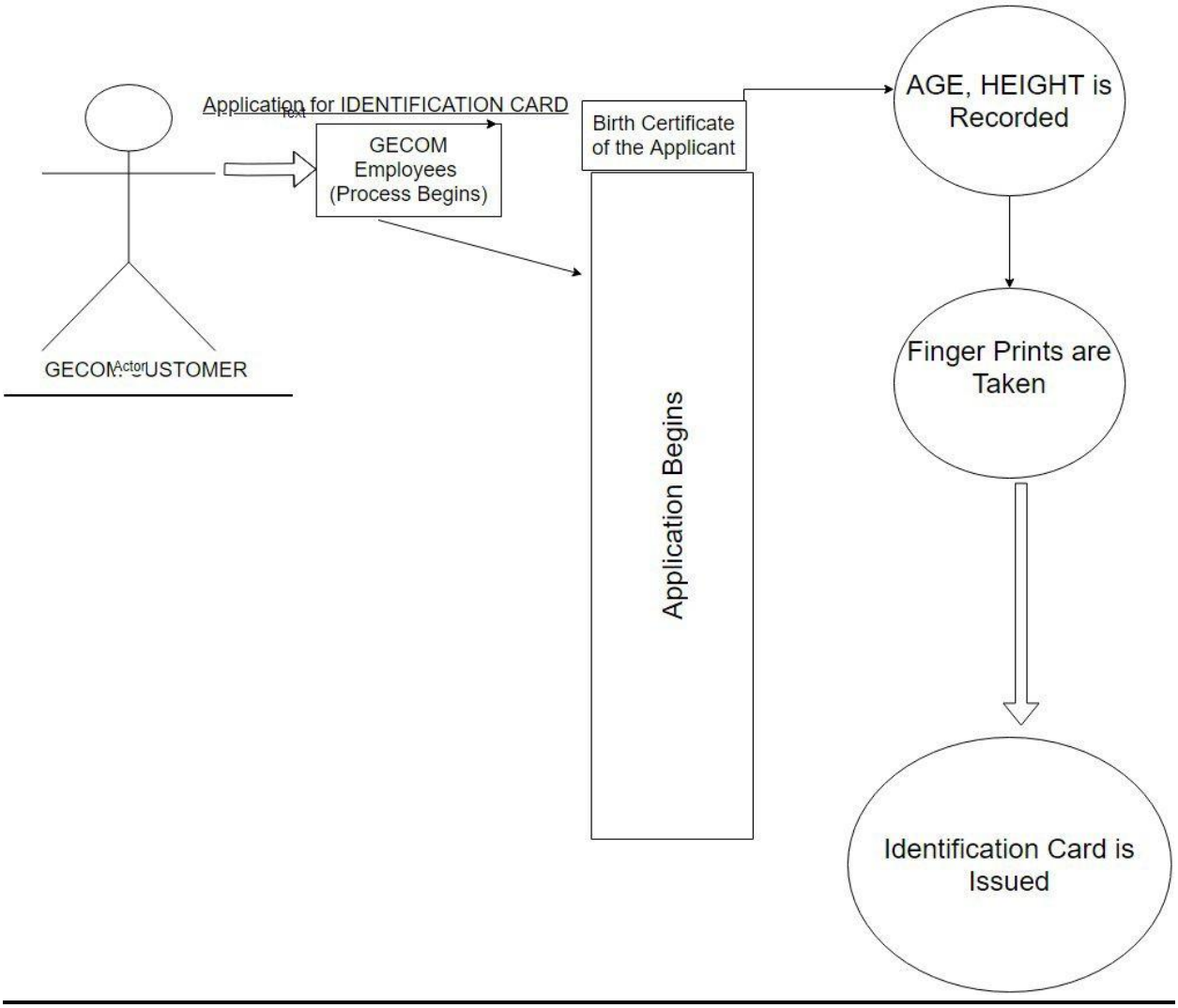
USE CASE MODEL



Description: The case model shows the representation of the actions the system will perform between the Voter, Admin and System. It always shows the order of different commands and actions made by users

SEQUENCE DIAGRAM

Sequence Diagram



Description:

A sequence diagram is a Unified Modeling Language diagram that illustrates the sequence of messages between the GECOM employee and the customer in their interaction. A sequence diagram consists of a number of activities that are documents, and personal information that they exchange over time during the interaction in order to receive the product in which they desire.

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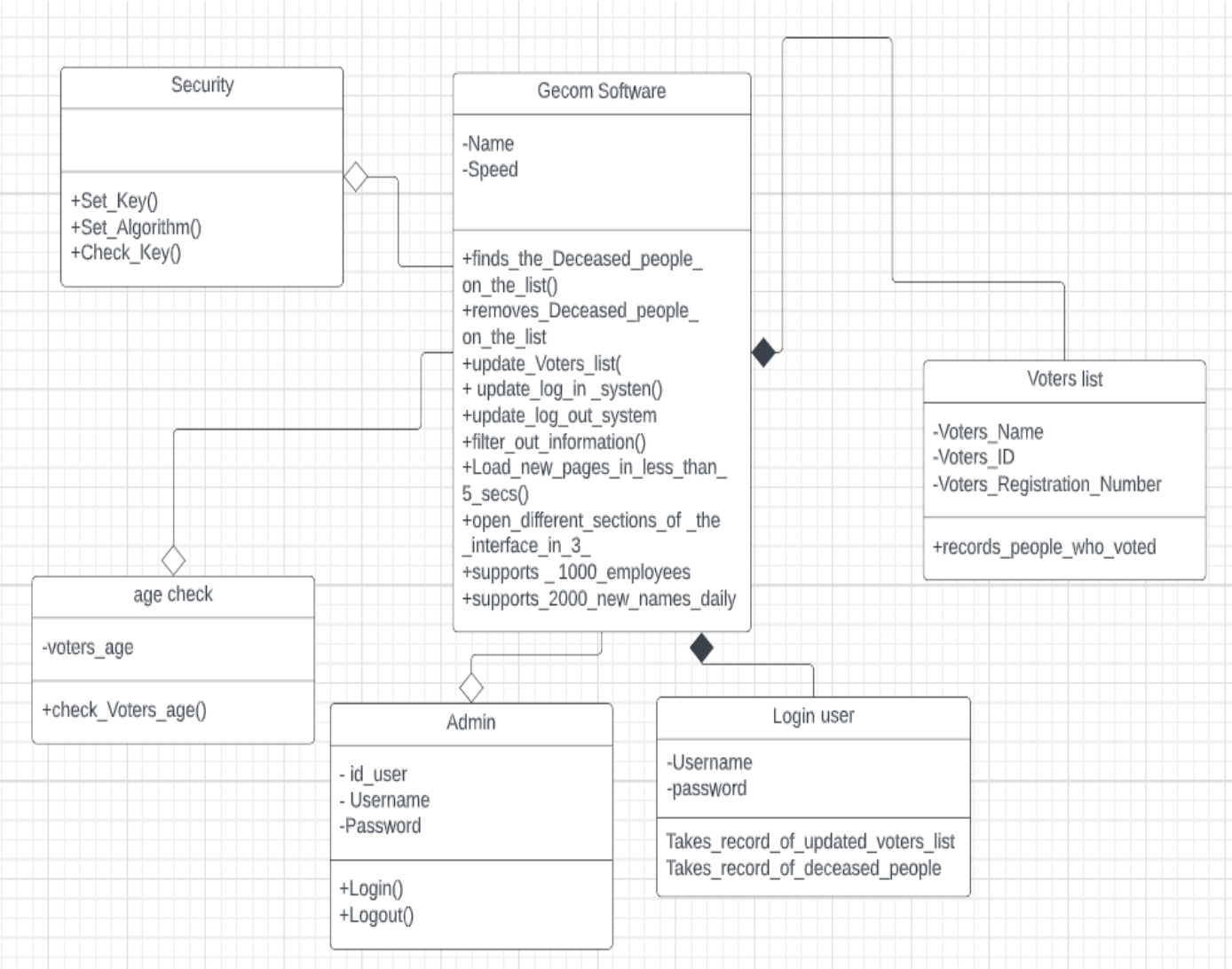
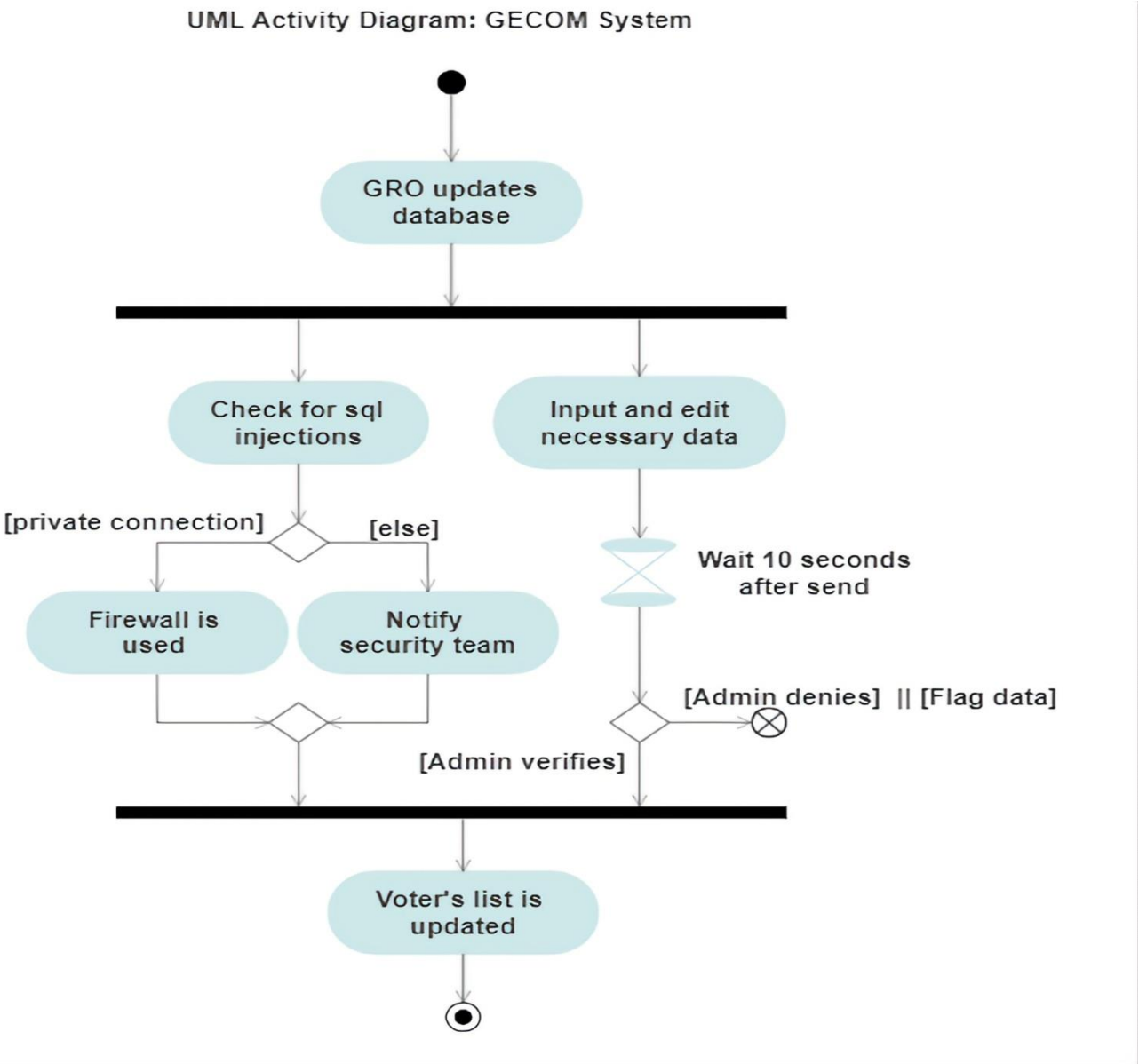
Class Diagram



Description:

The class diagram show the object classes in the system and the associations between these classes. There is the Gecom system that we are building which will remove deceased people ,update the voters list, updates log in and log out system etc.. The age check helps the system to check if the voters are eligible enough to vote. We also have the admin which the software can do without but it helps the organization work well. We have the login user which can't do without the system. Then we have the voters list which also can't do without the system. We have the security which the system can do without but it protects the system from external threats.

Activity Diagram



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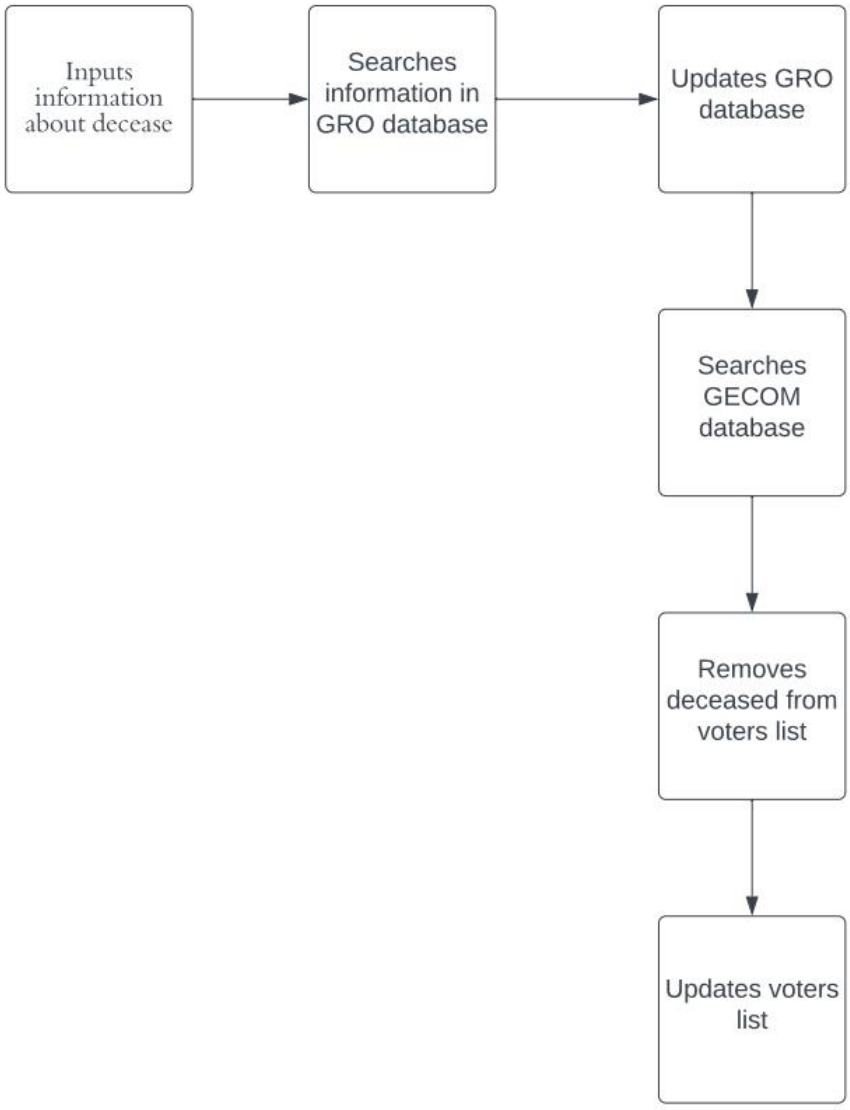
Description:

This diagram starts off by showing that the first action carried out was GRO updating the database, then employees working with the data, the system checking for sql injections and notifying the security team if a problem arises. There is also a connection with the admin and employees. Lastly, the voter's list is updated

FLOWCHART


Inputs information about decease
Searches information in GRO database
Updates GRO database
Searches GECOM database
Removes deceased from voters list
Updates voters list

Description:

In the diagram it shows how each component will successfully help to update the voters list. The first component will receives the necessary information about the deceased, the second will then update GRO their database after this is done the deceased person information will then be searched in GECOM's database after which the name will then be flagged and removed from the voters list and then provide a updated list