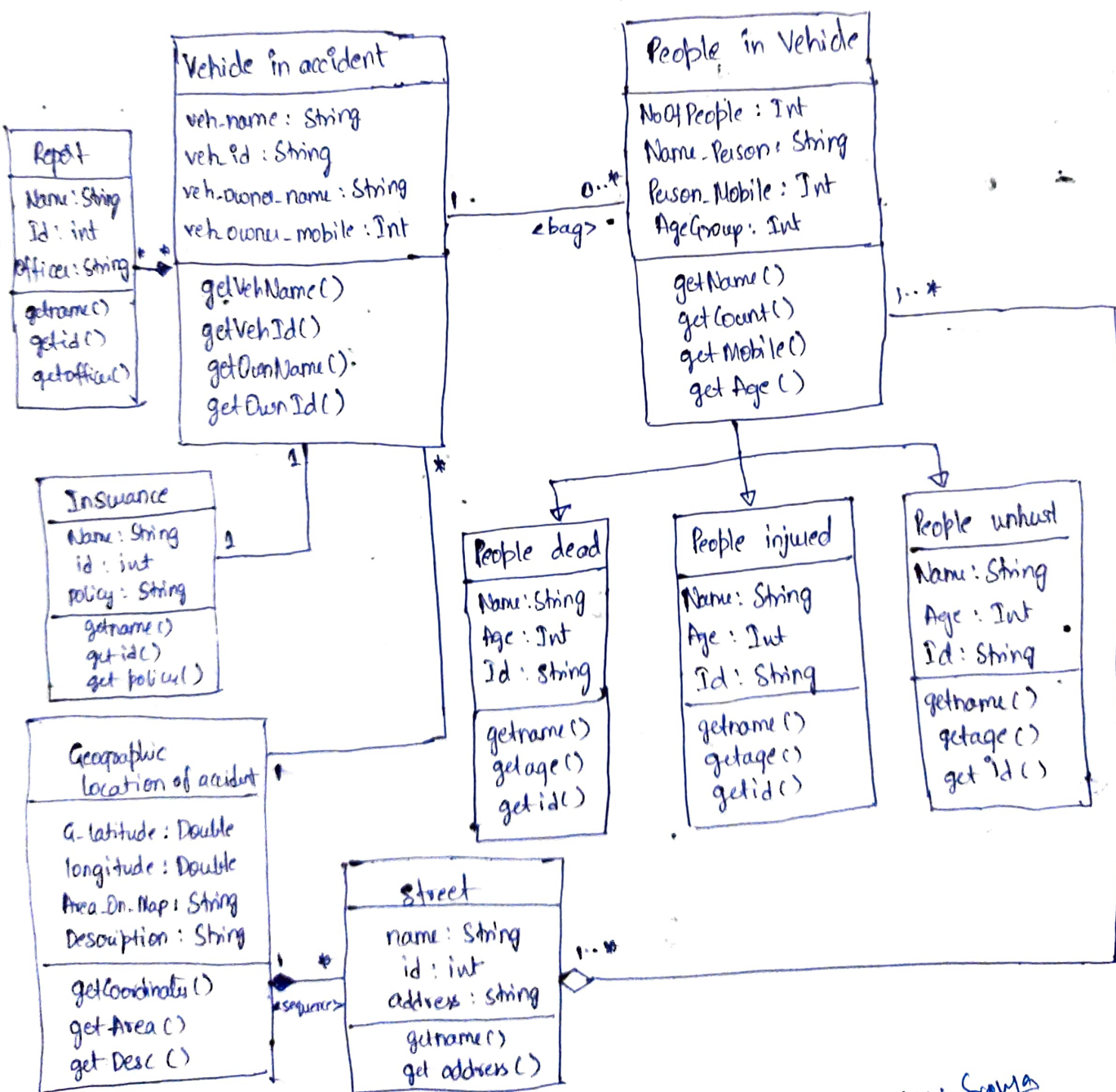


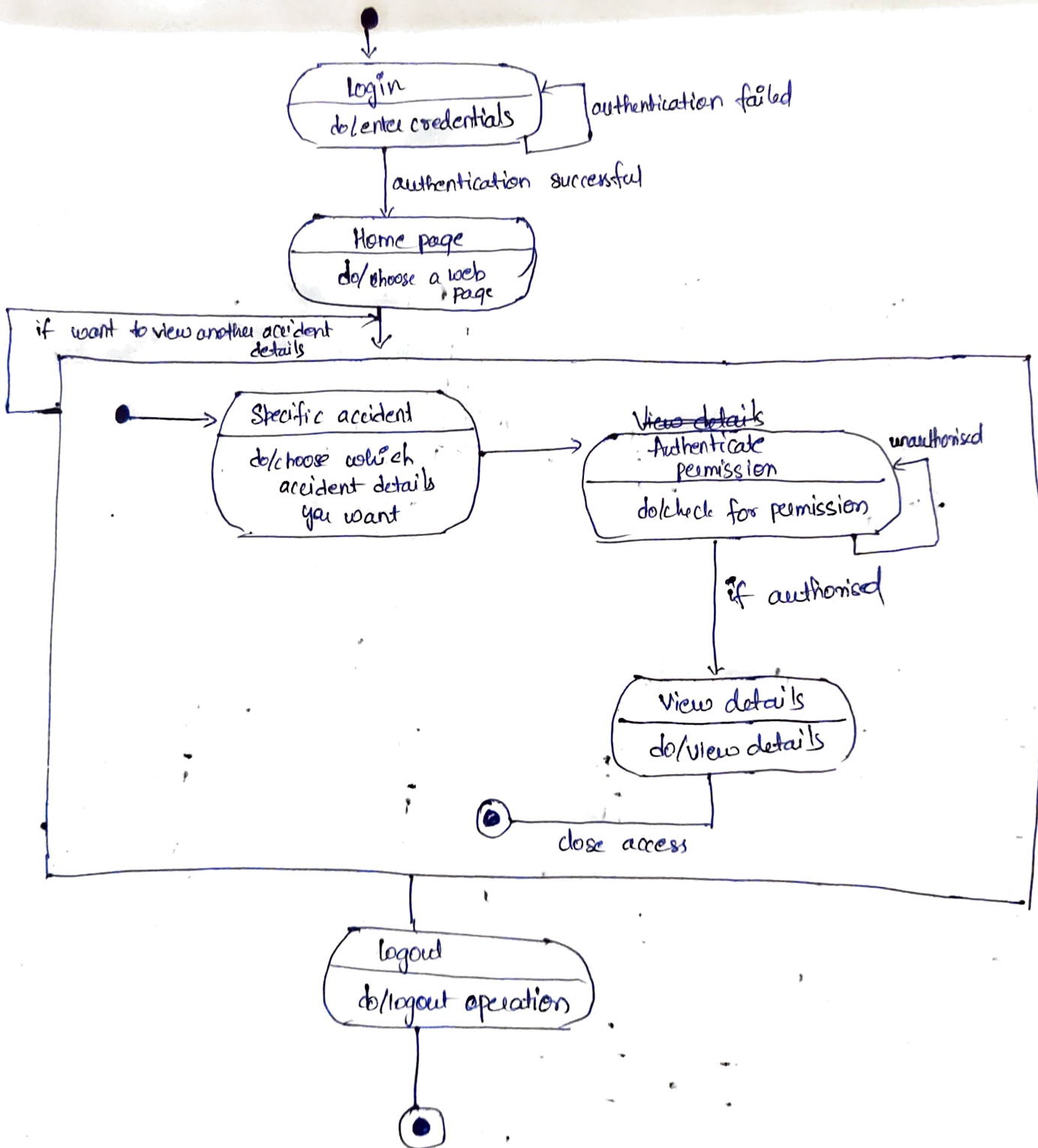
Design class and State diagram for Accident database Management system.

- Explain constraints on links
- Show the use of entry and exit activities

Class diagram

Accident database management



State diagram

Viva

1) Explain constraints on links

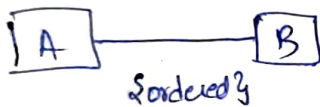
A constraint extends the interpretation of a UML block instance allowing you to add new rules.

It is nothing but a condition that restricts the extensions of an element.

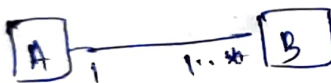
Example constraints



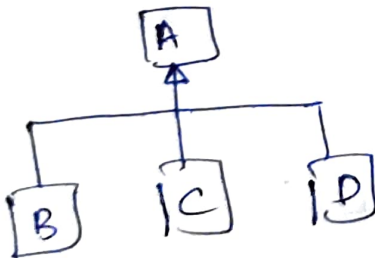
navigation constraint



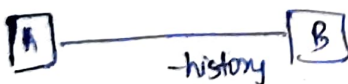
ordering property constraint



multiplicity constraint



generalisation constraint



visibility constraint



changability constraint



composition constraint

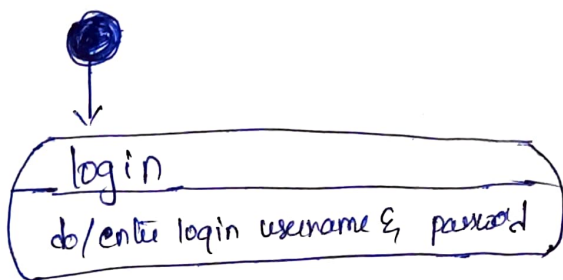
2) Show the use of entry & exit activities

In a UML one can add an entry or exit activity to describe a task that is done on entry into a state & exit out of a state

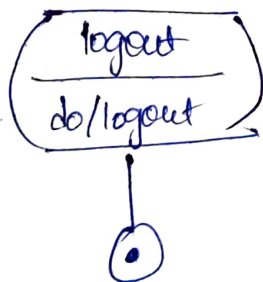
Entry action: Any action that is marked as a link to the entry action is executed whenever a given state is entered via transition.

Exit action: This is executed whenever a state leaves via a transition.

eg:



here upon entry login process starts.



here after logout the function exits.