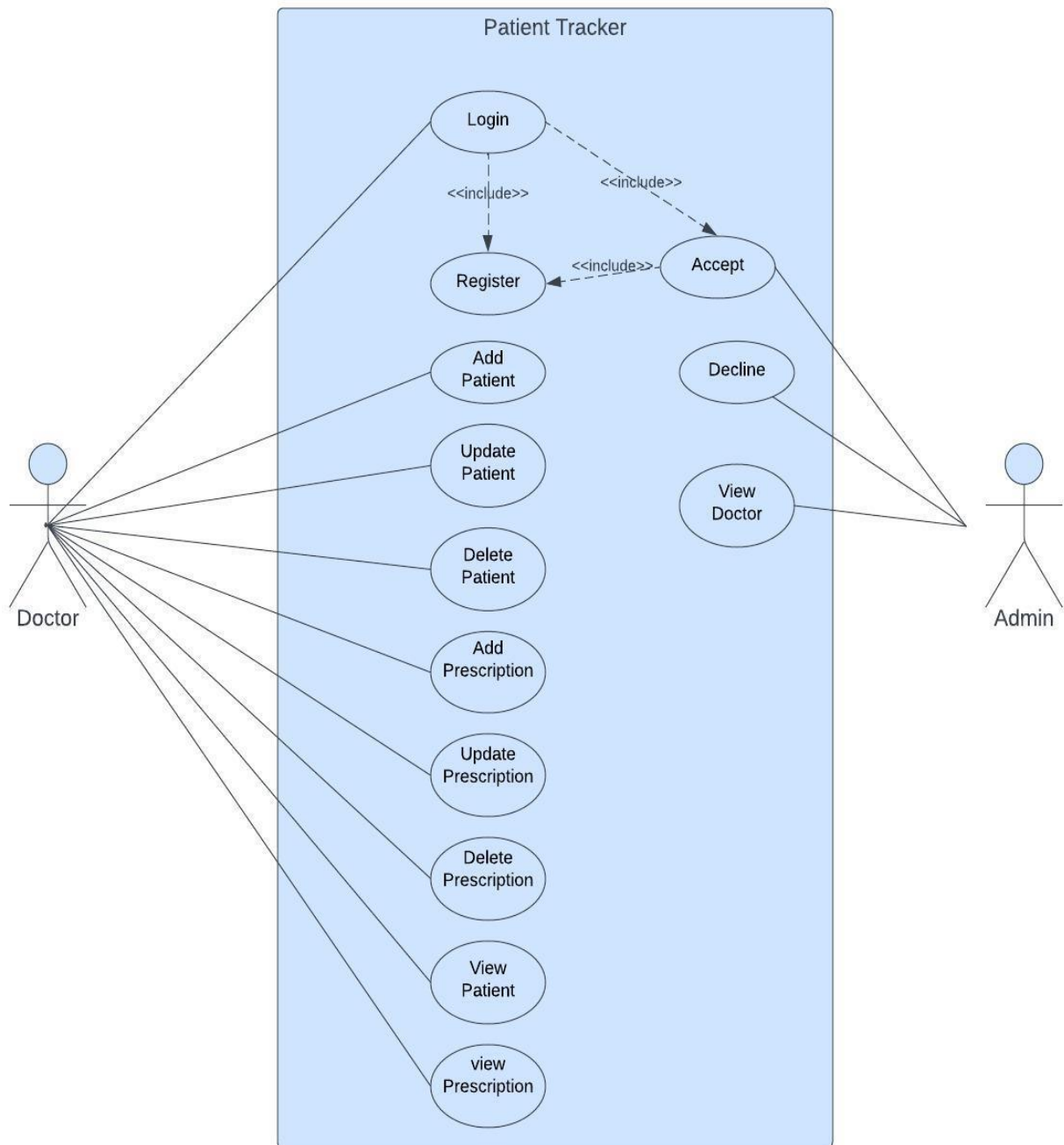


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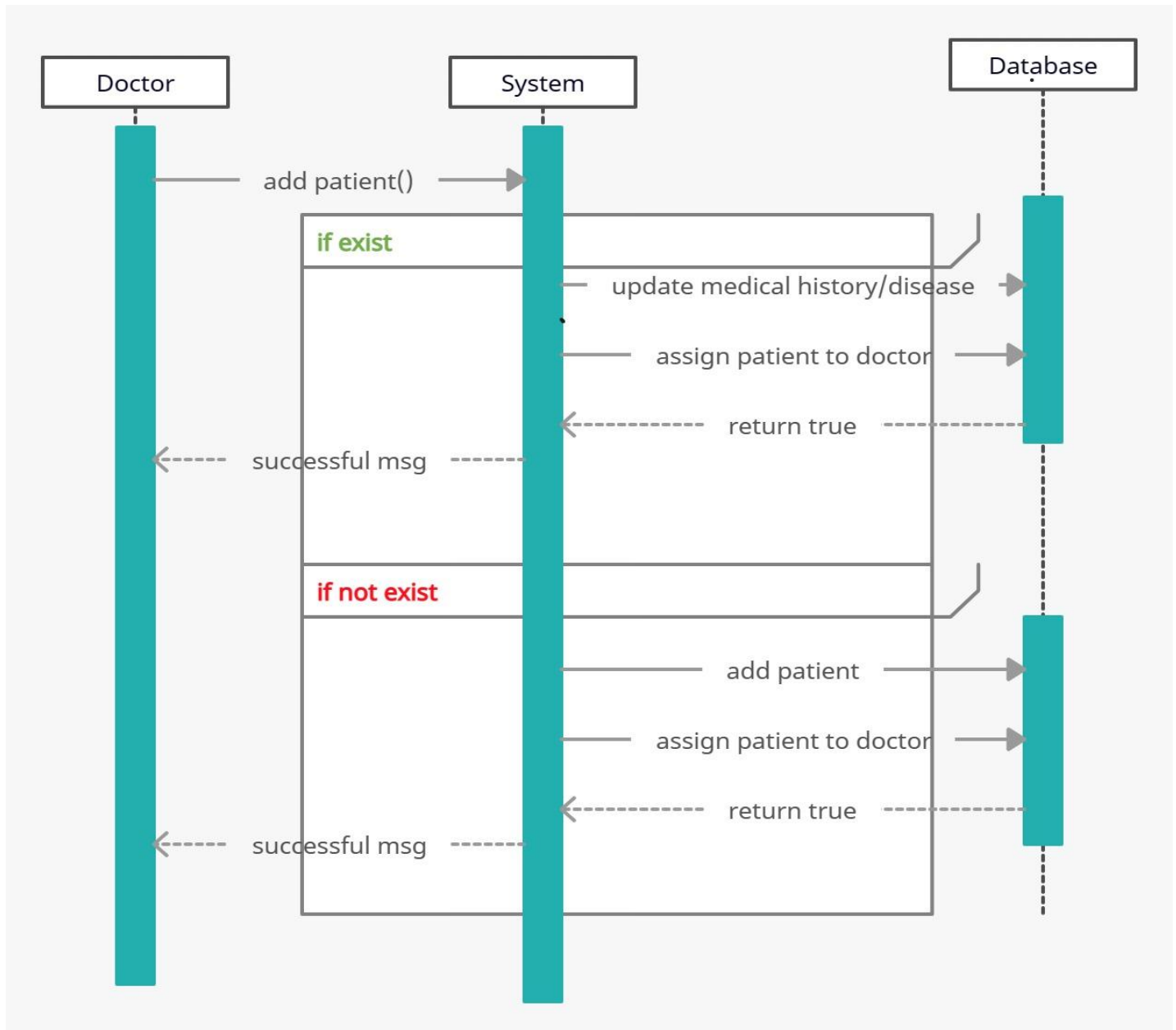
I. UML Diagrams :

1- Use Case :

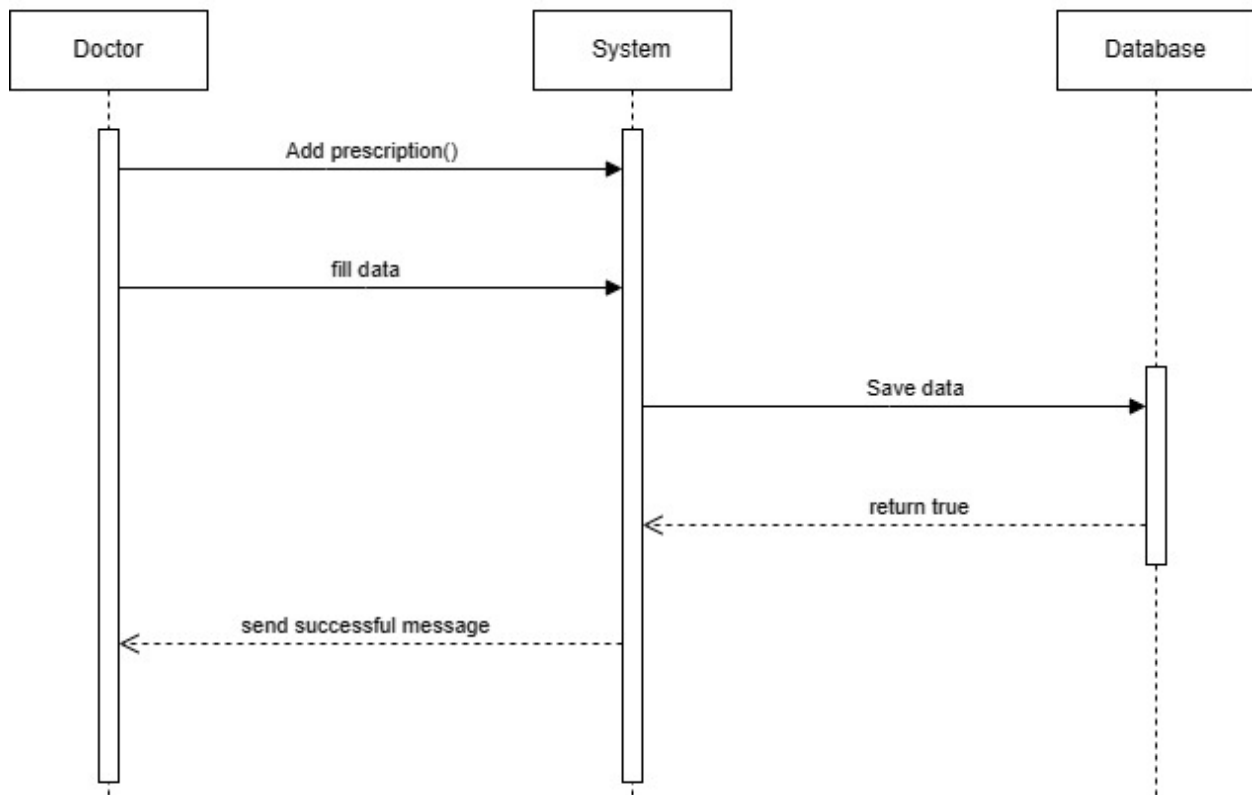


2- Sequence Diagram :

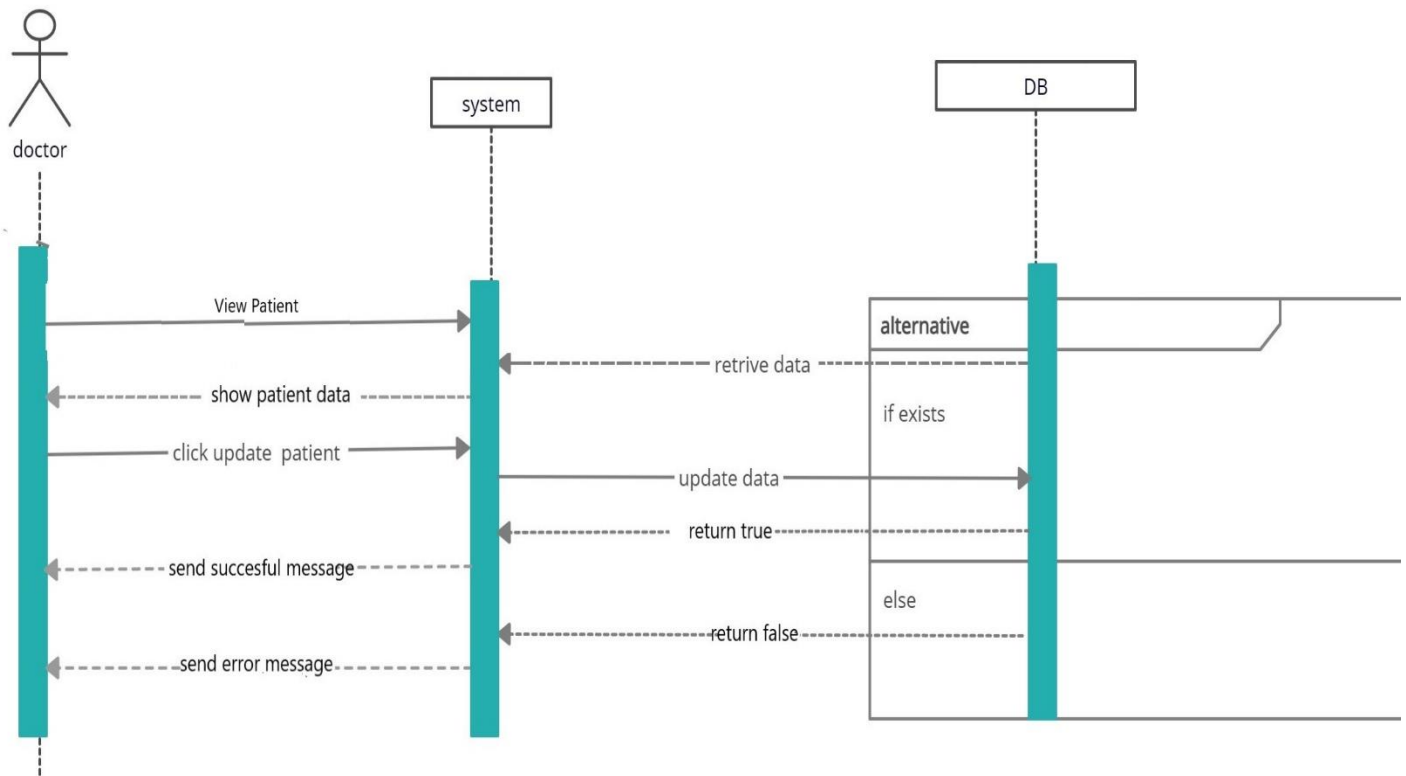
2.1 – Add Patient



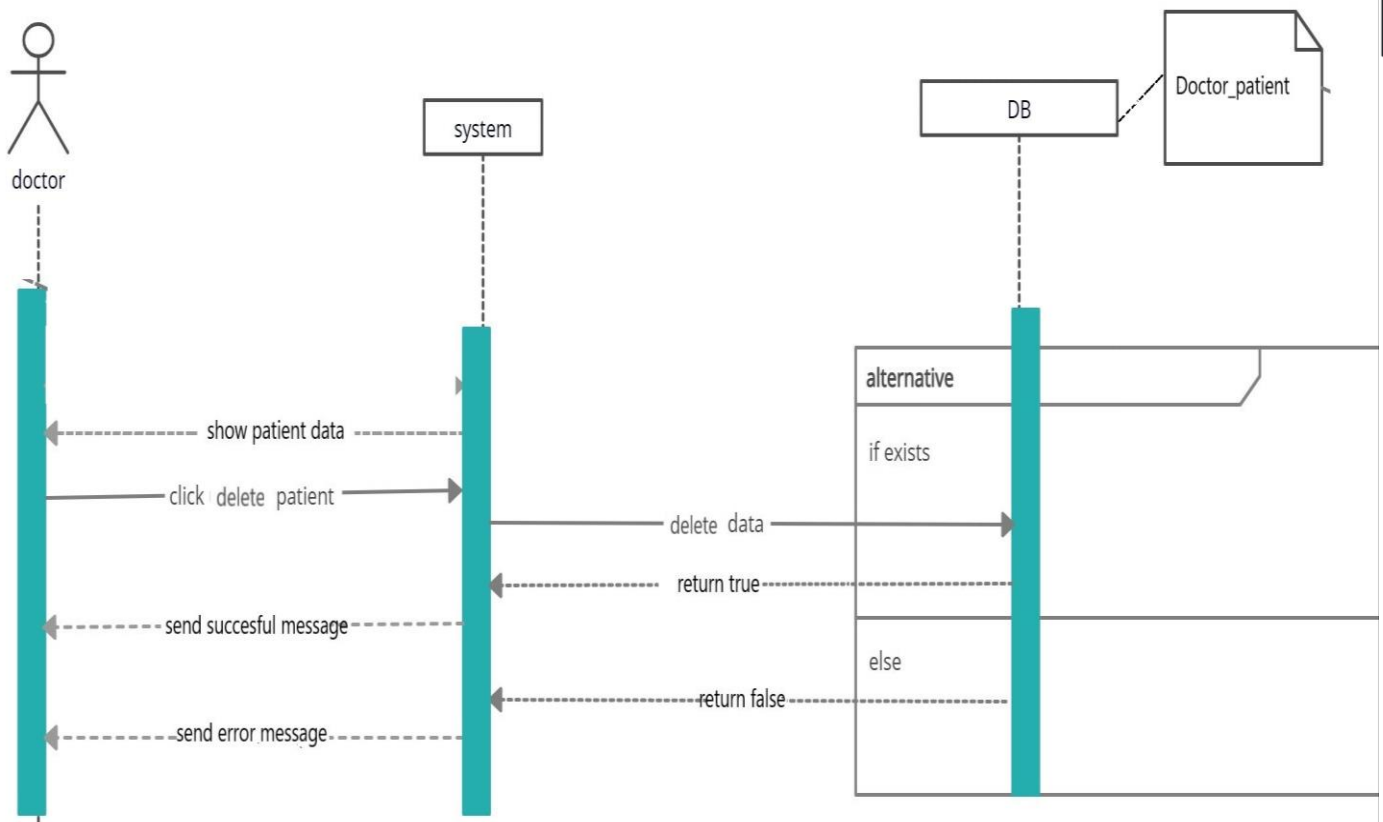
2.2 – Add Prescription



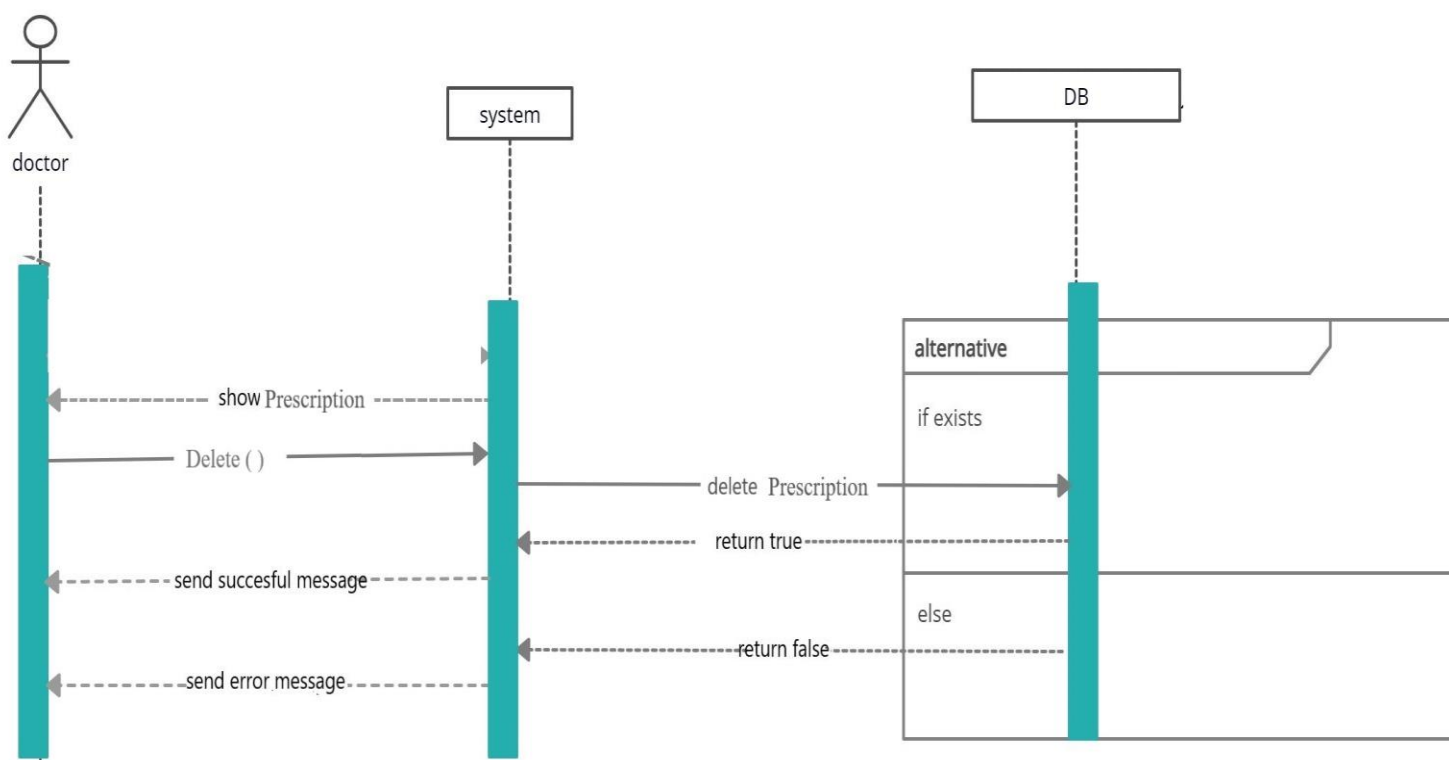
2.3- Update Patient / Prescription



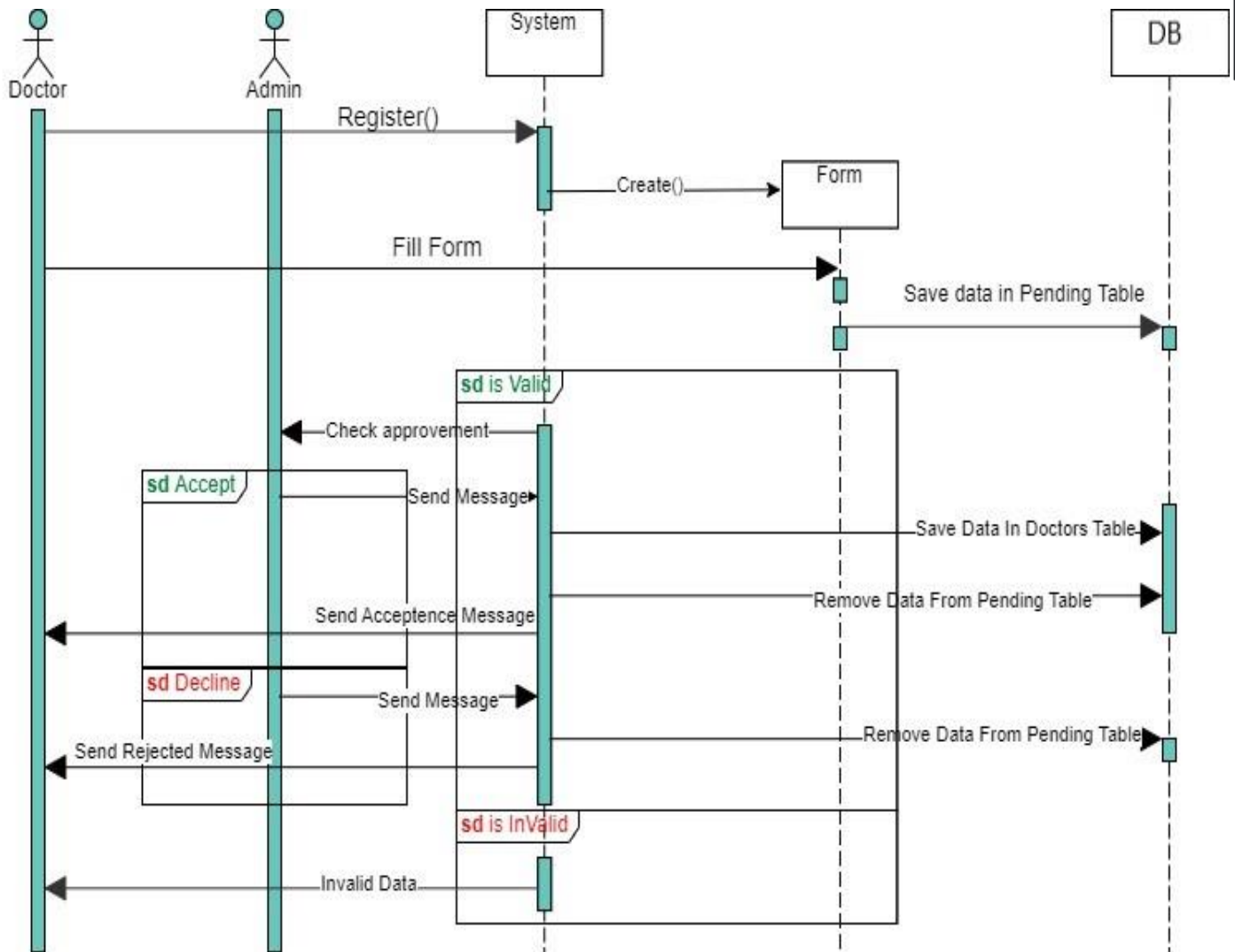
2.4- Delete Patient



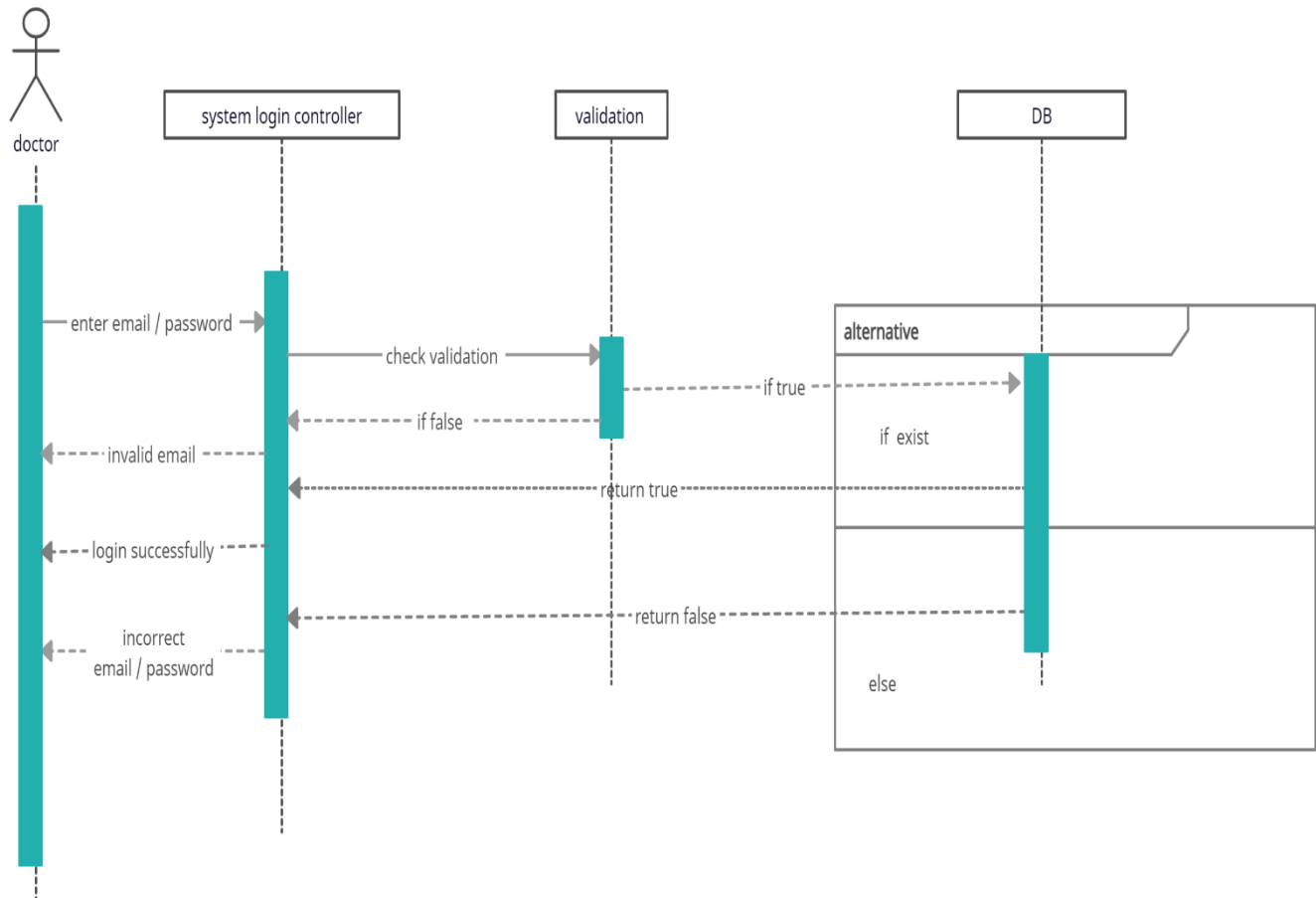
2.5- Delete Prescription



2.6- Register / Approve



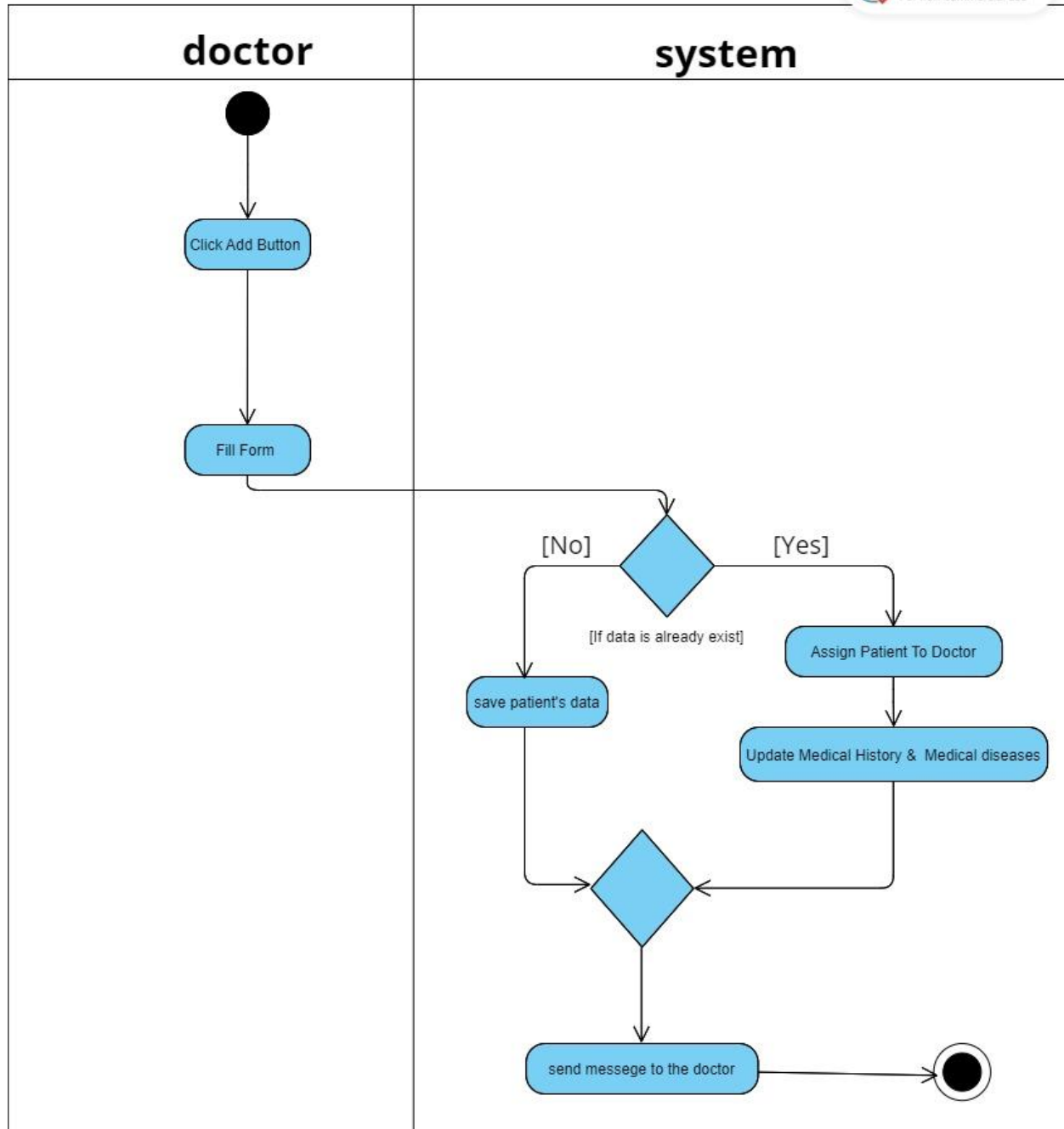
2.7 – login



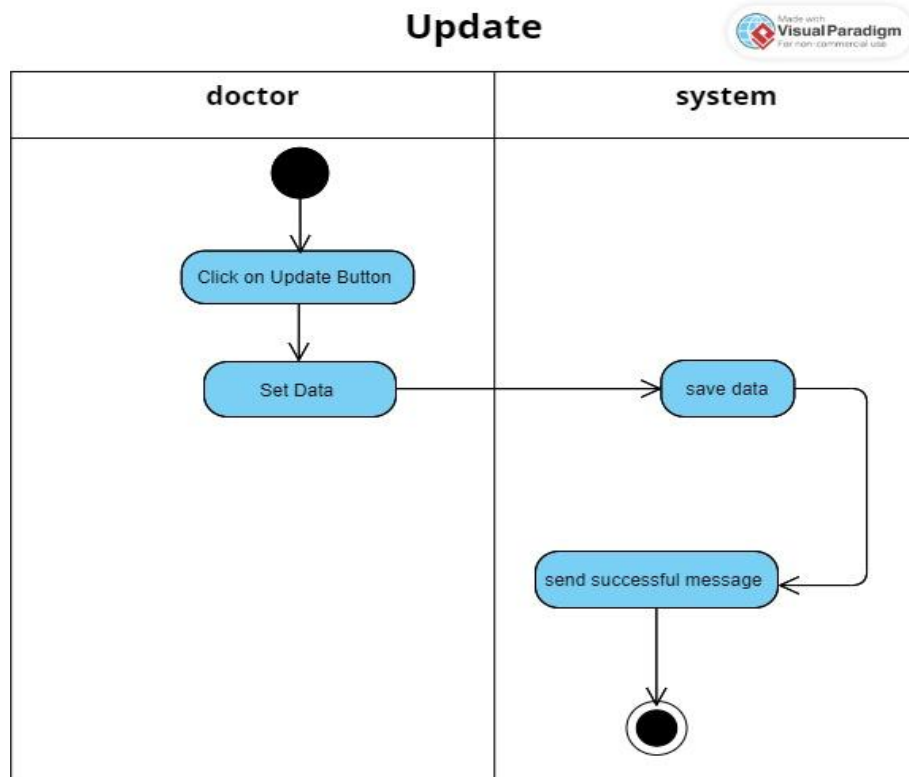
3- Activity Diagram :

3.1 – Add patient

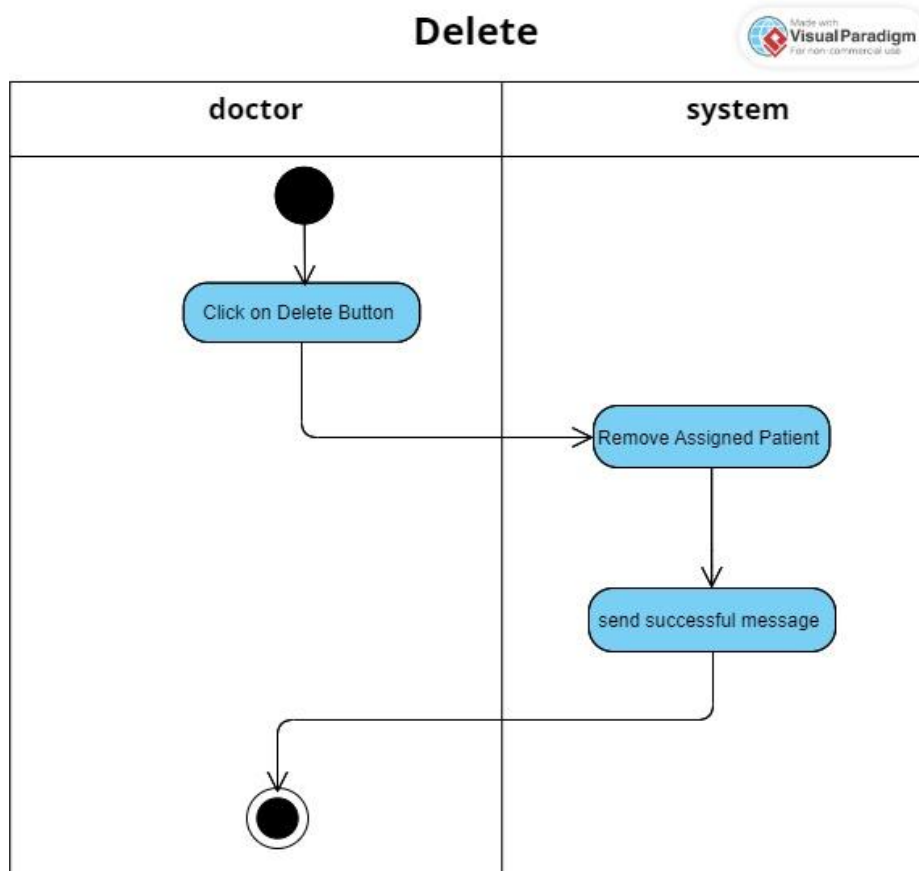
Add patient



3.2 – Update patient / Prescription

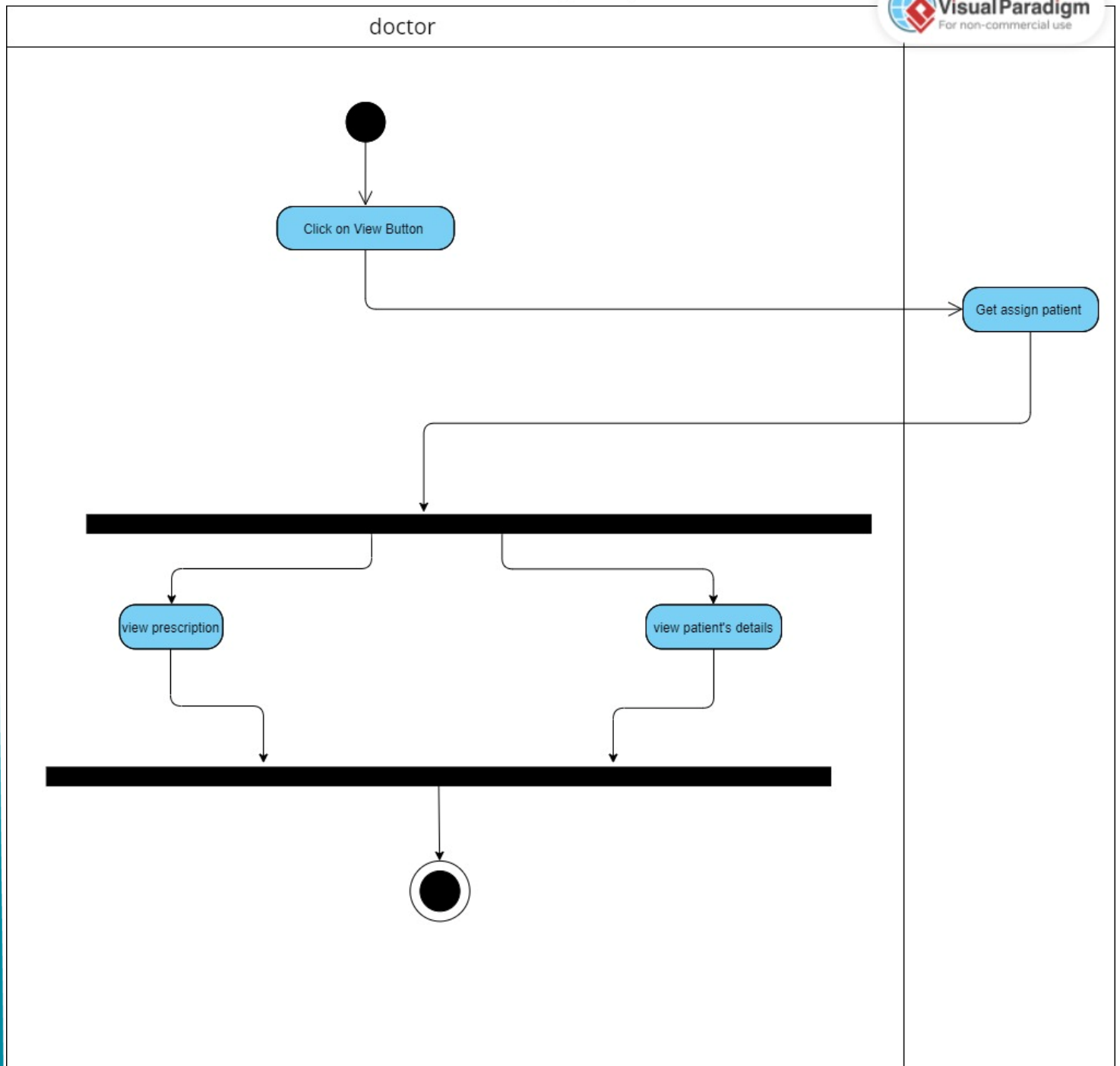


3.3 – Delete patient

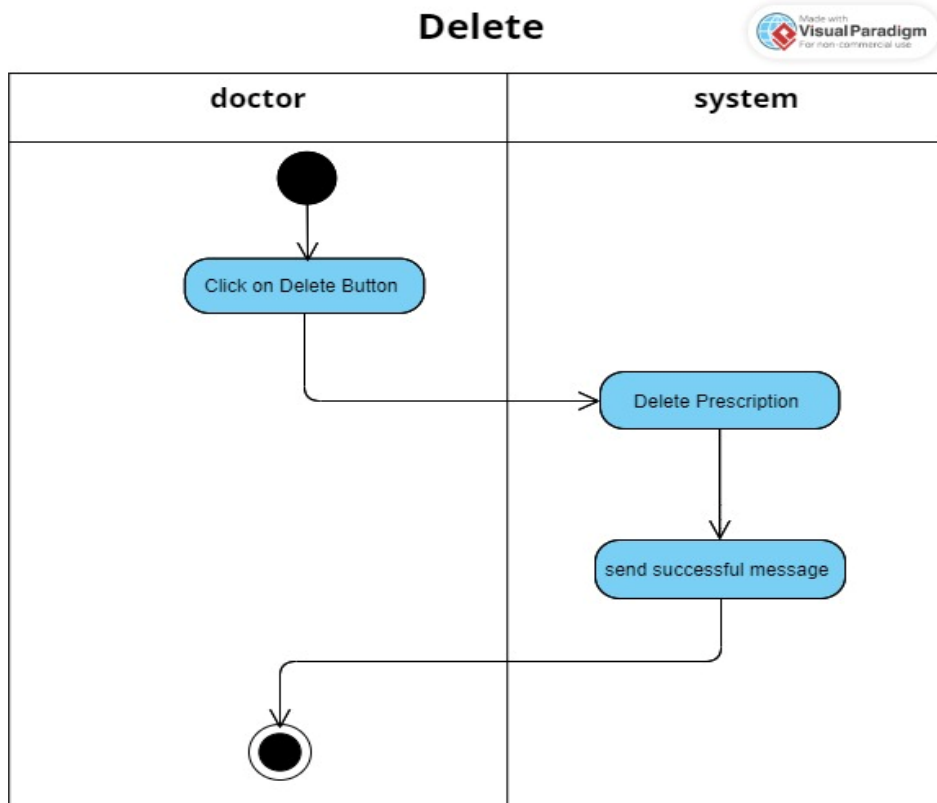


3.4 – View patient

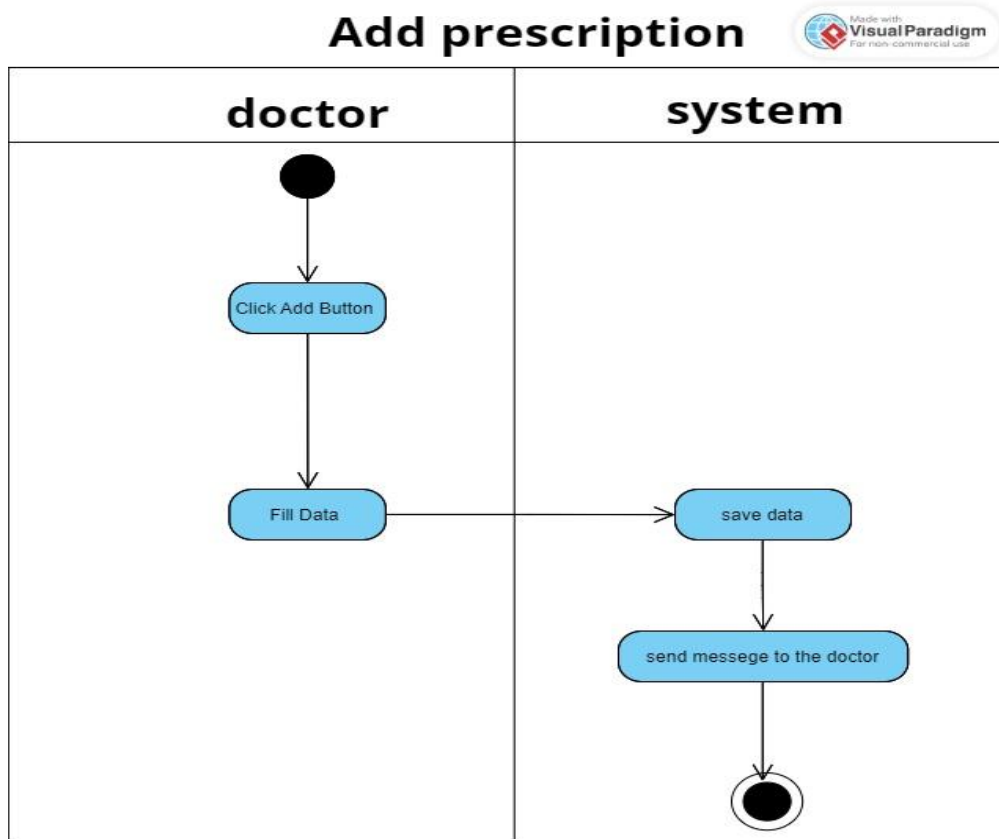
view for a patient



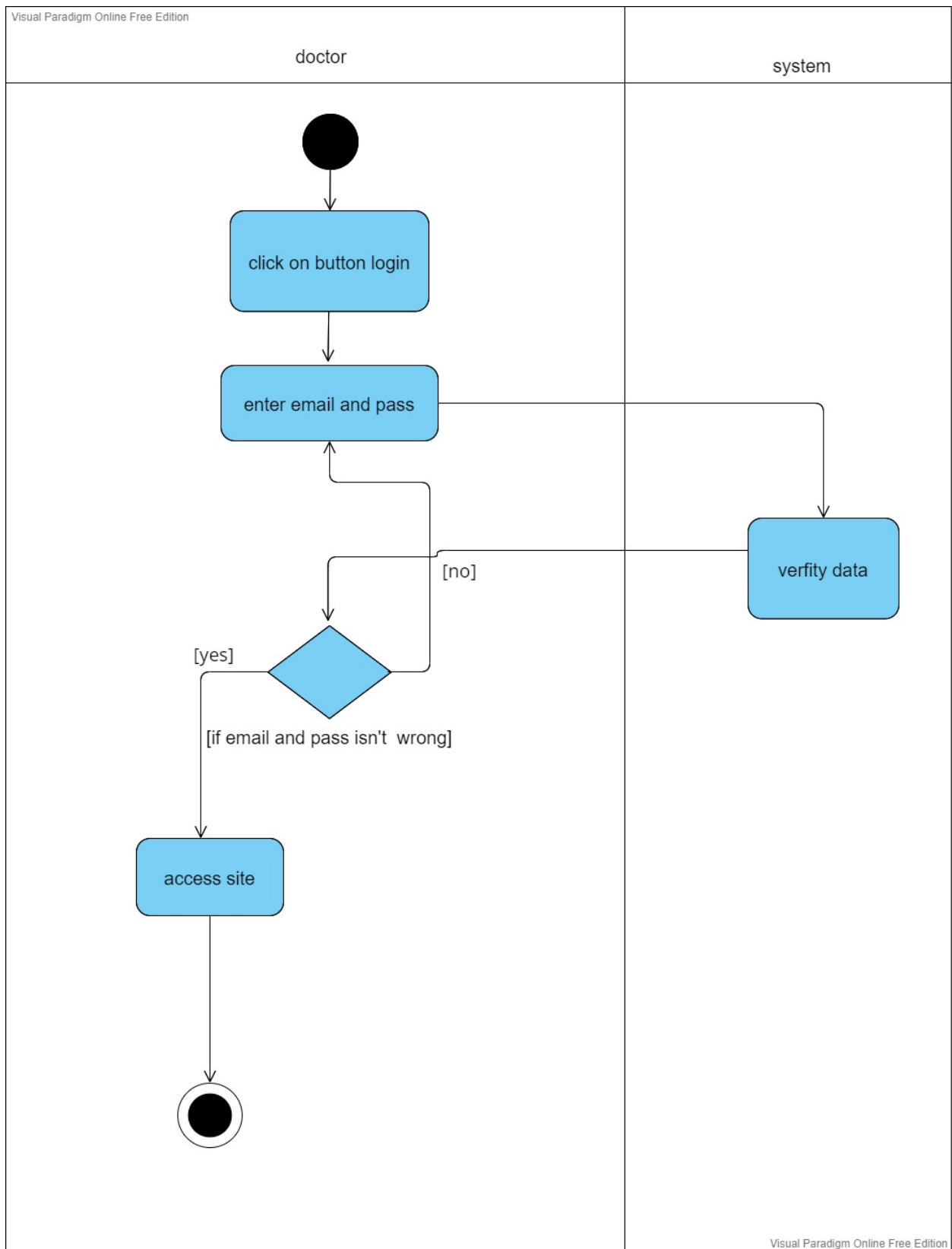
3.5- Delete Prescription



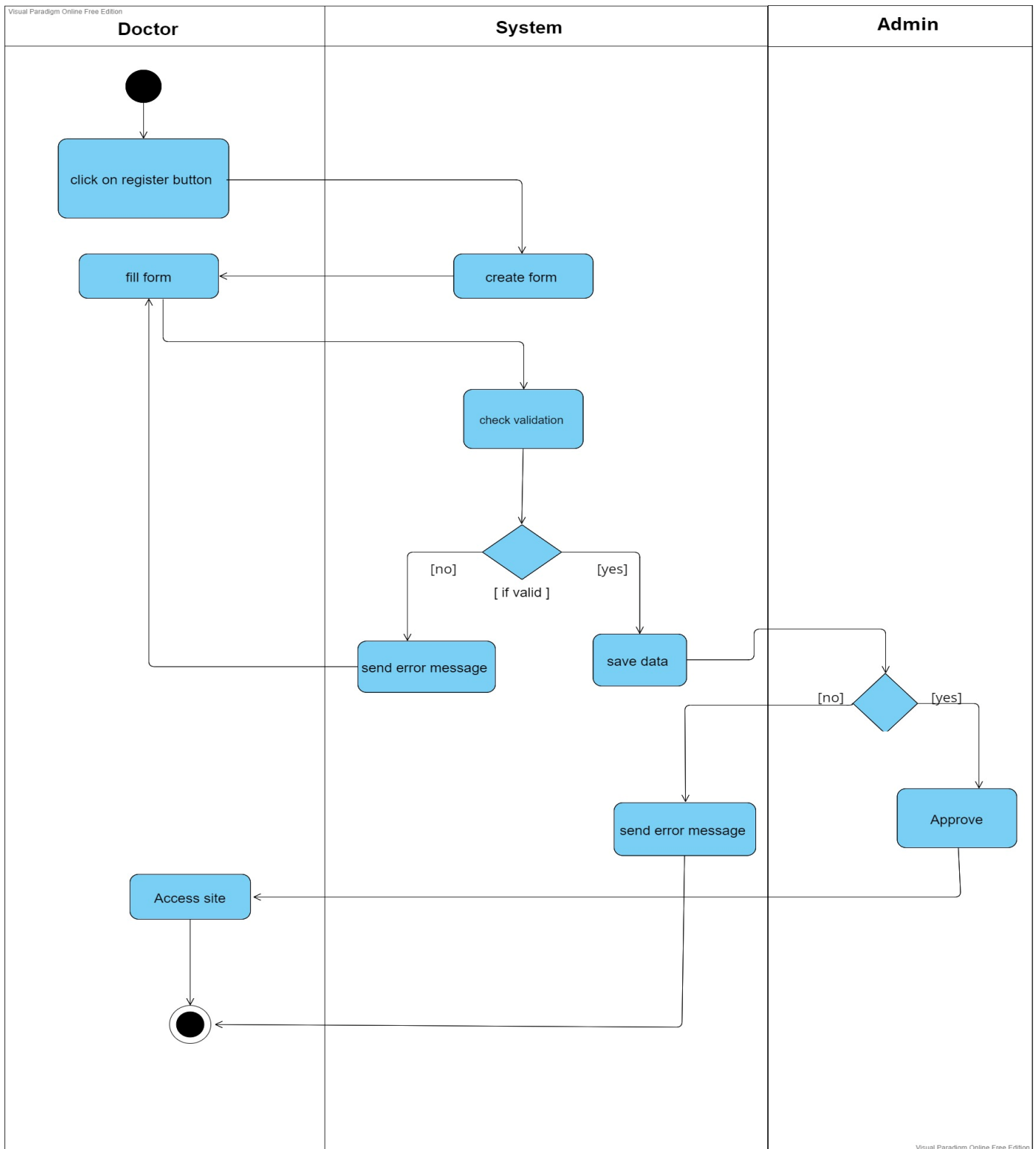
3.6- Add Prescription



3.7 – login

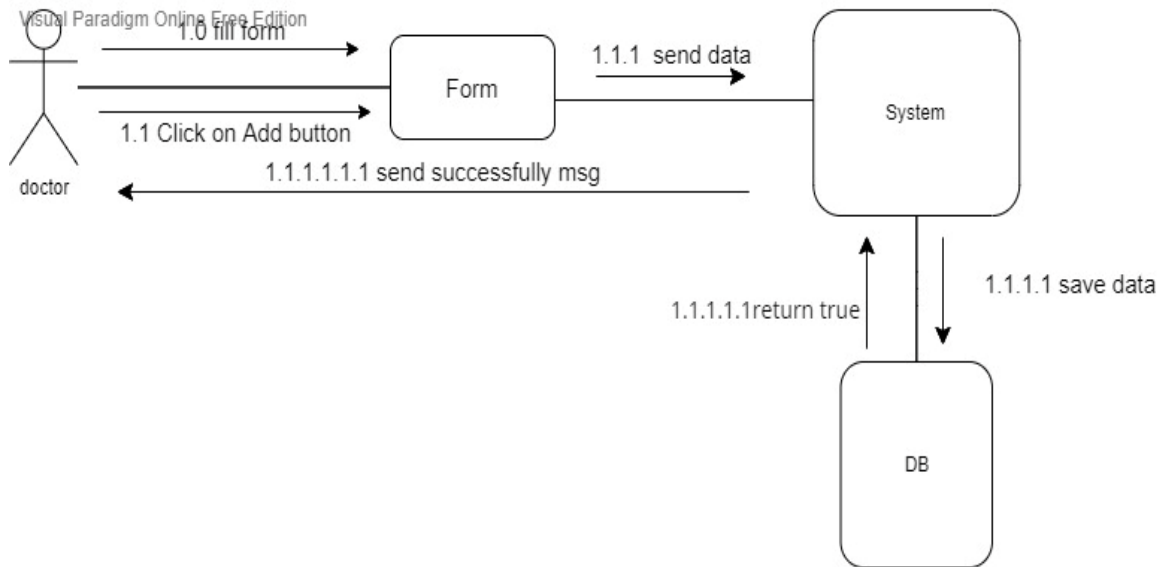


3.8– Register

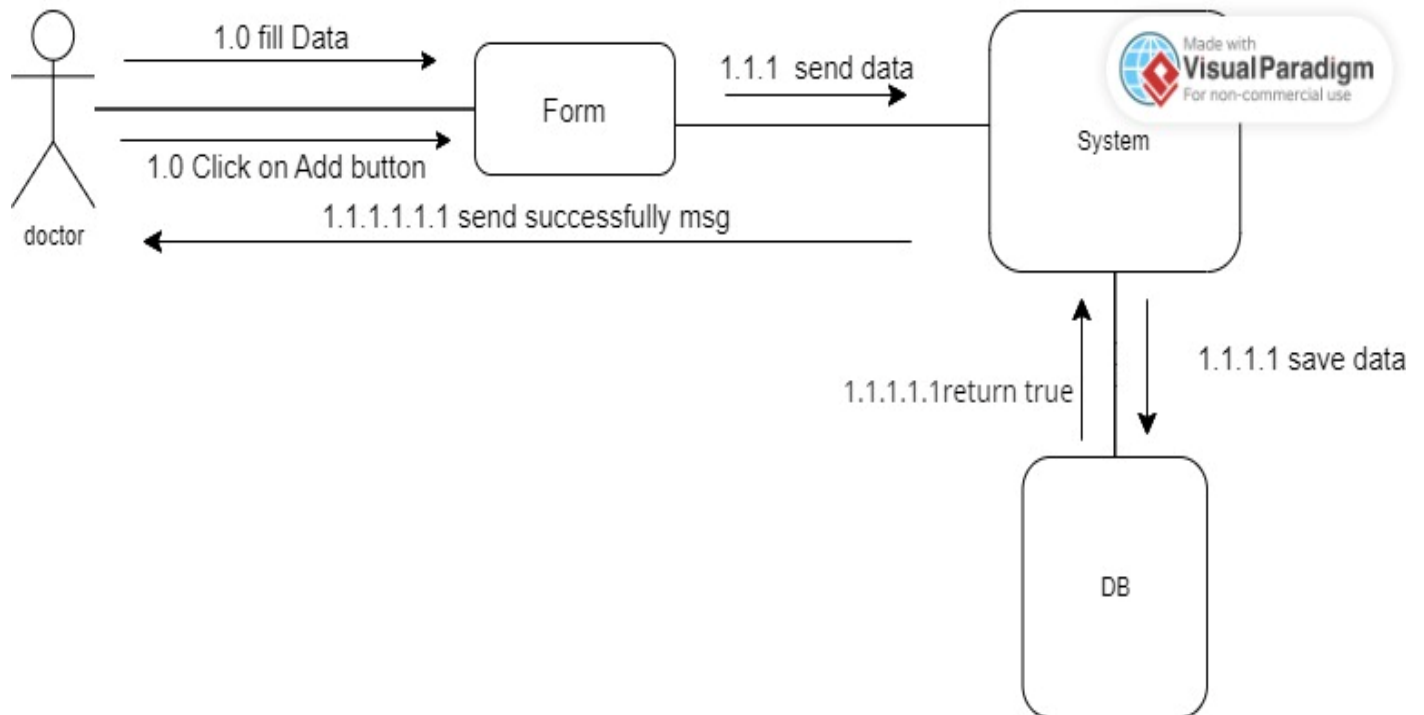


4- Communication Diagram :

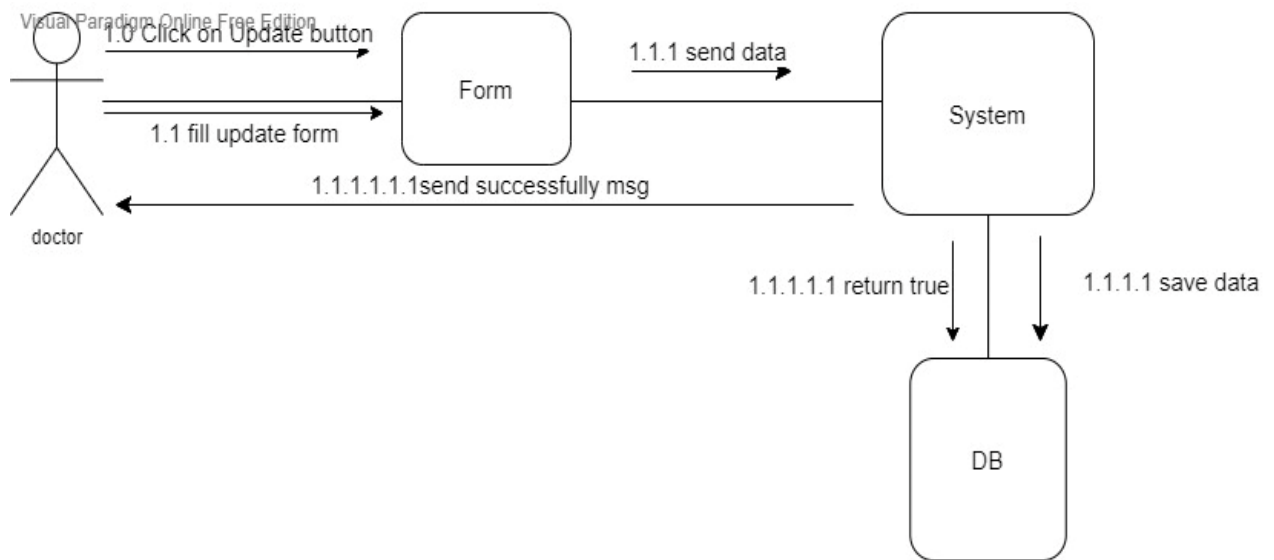
4.1 – Add patient



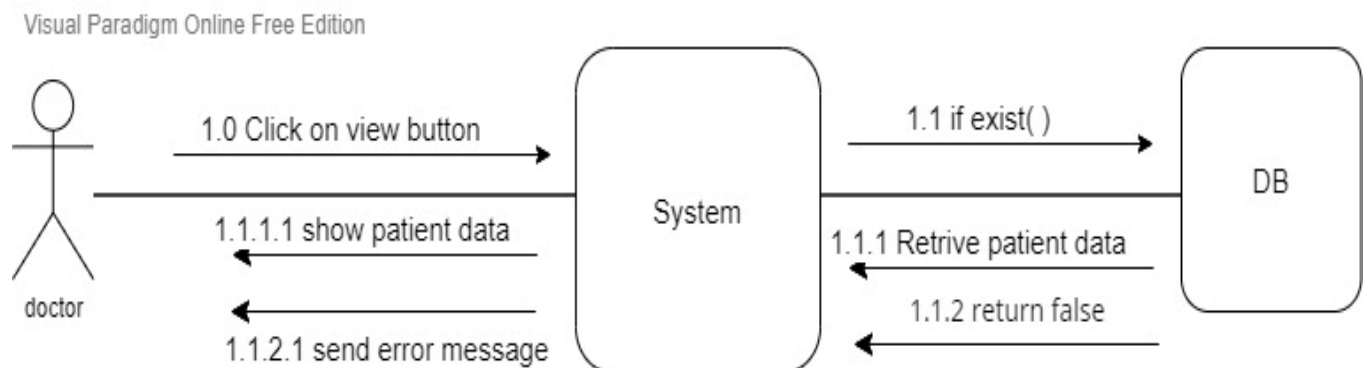
4.2 – Add Prescription



4.3 – Update Patient / Prescription

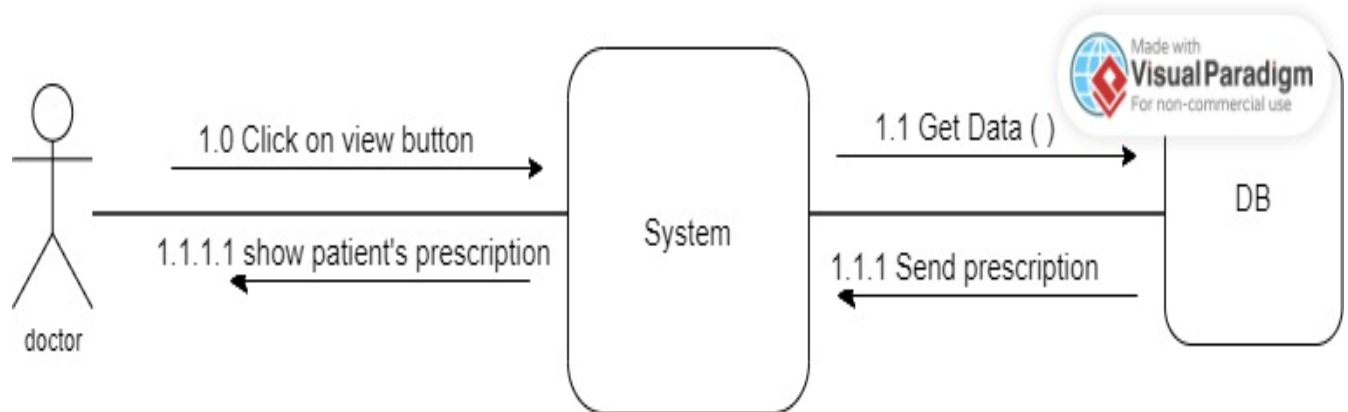


4.4- View Patient

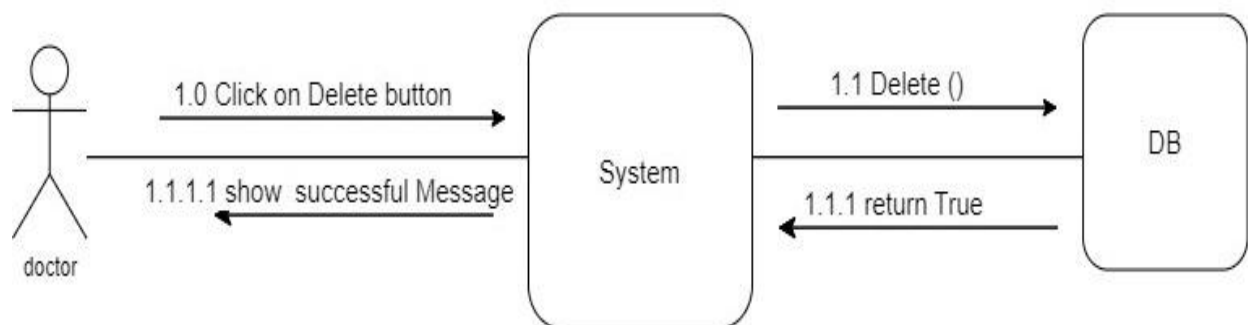


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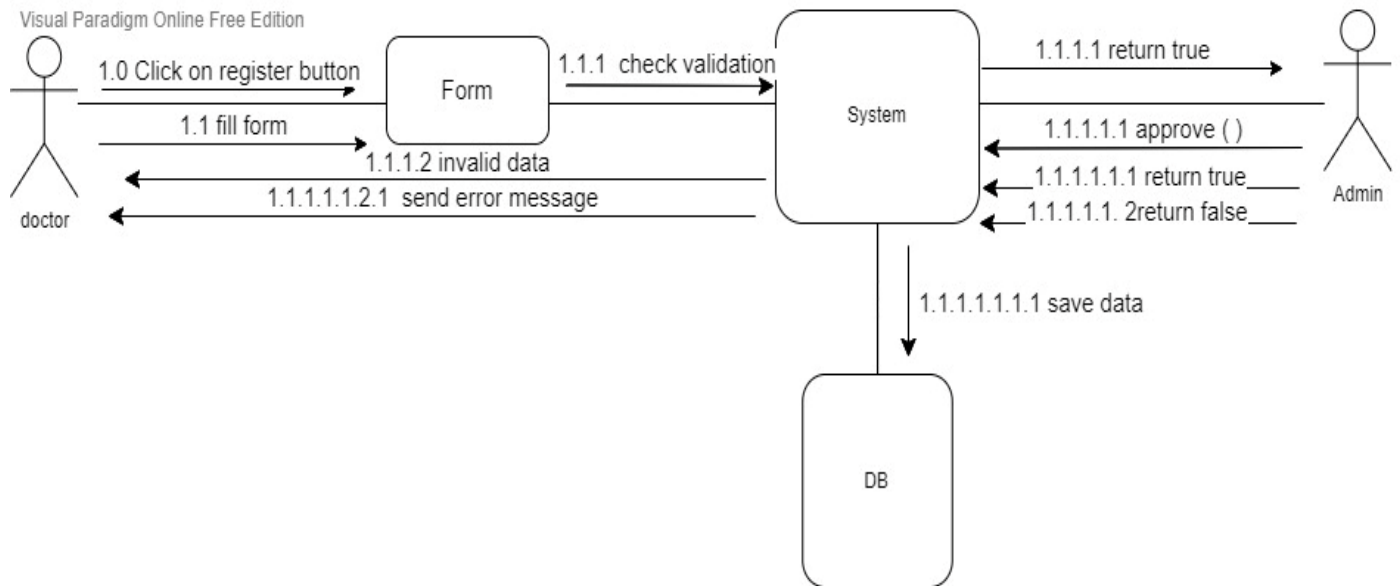
4.5 – View Prescription



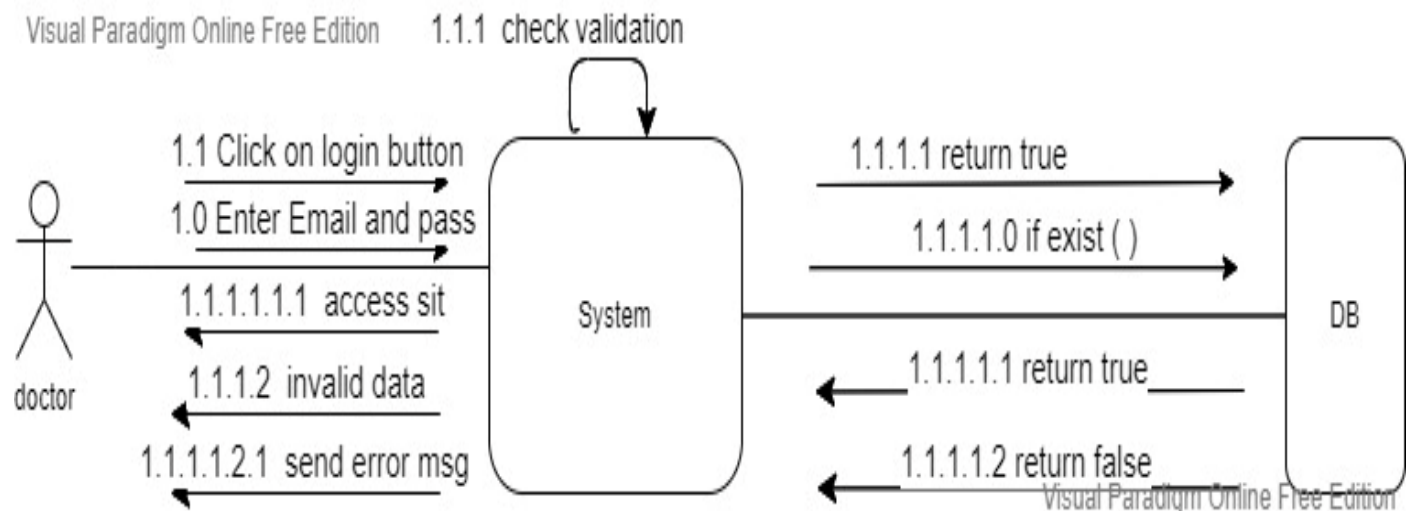
4.6- Delete Patient/ Prescription



4.4- login

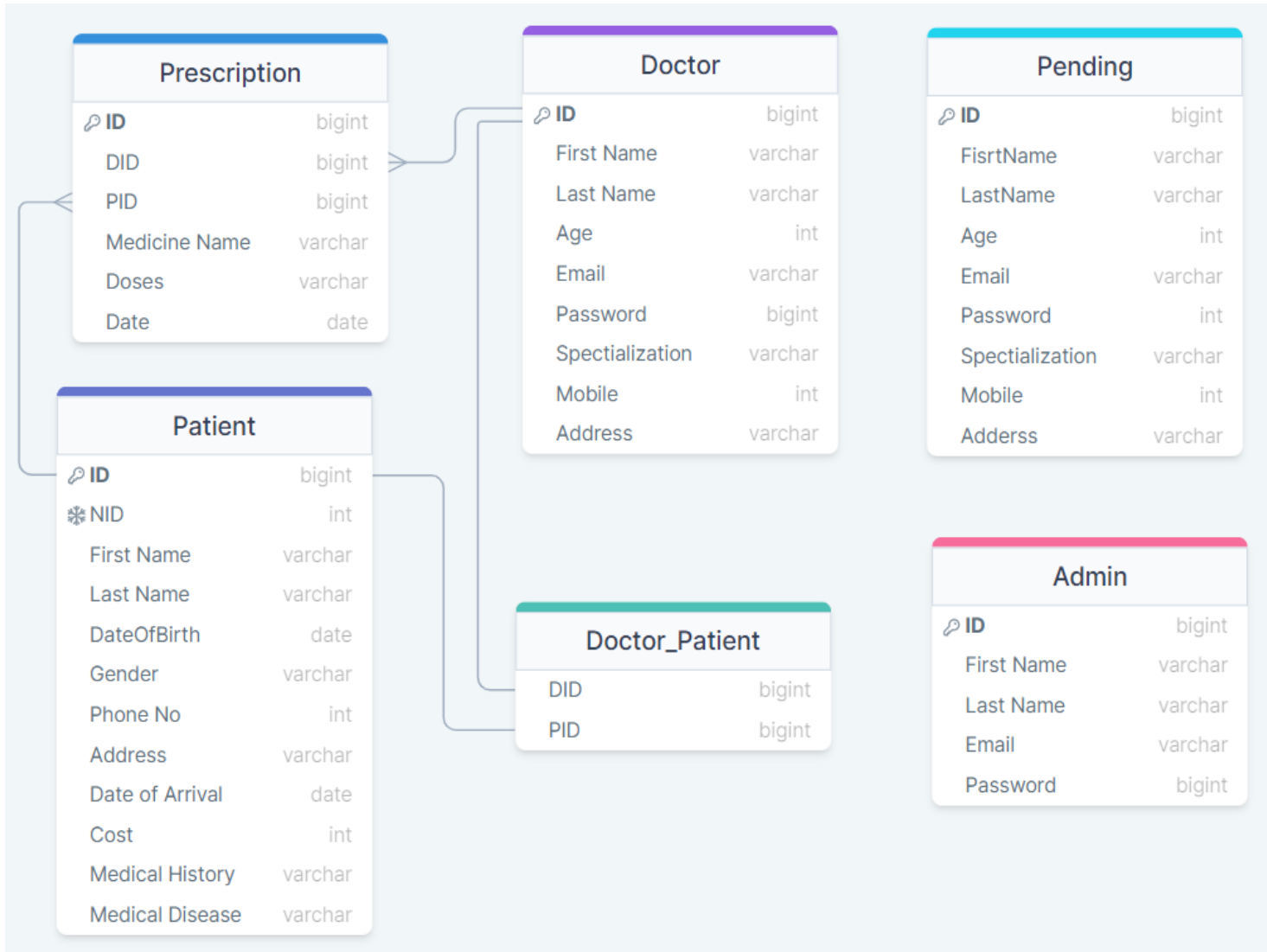


4.5 – Register

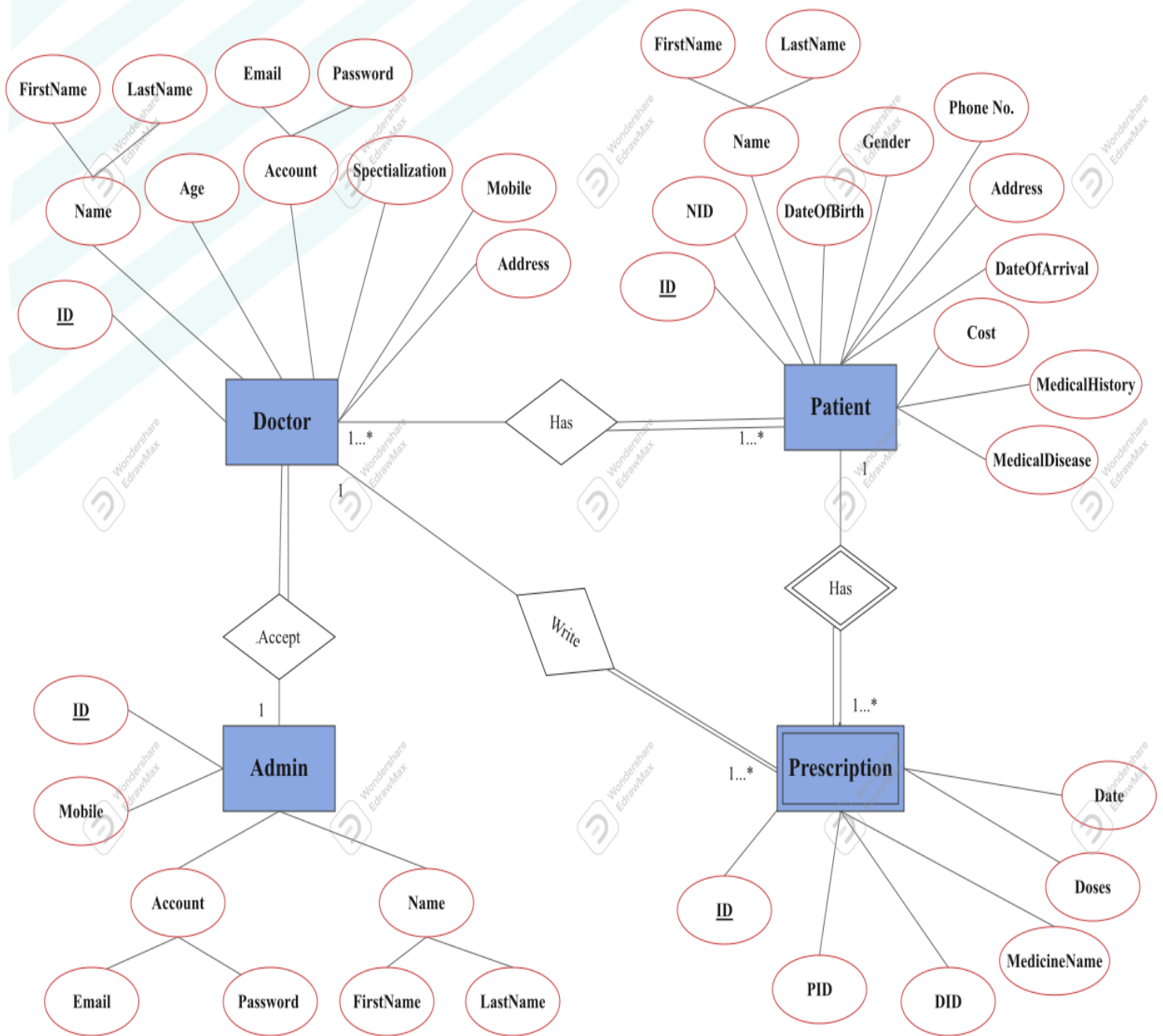


5- DB Architecture

5.1 – Schema

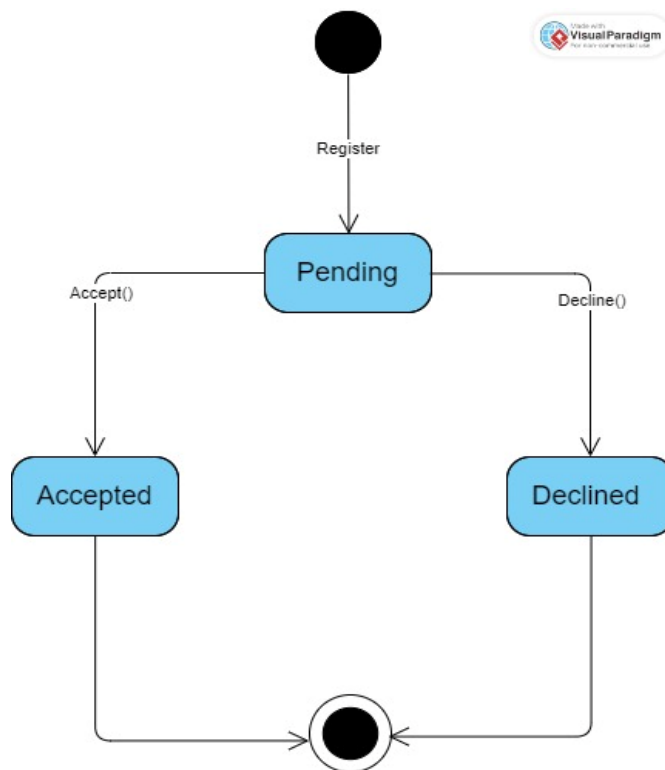


5.2 – ERD

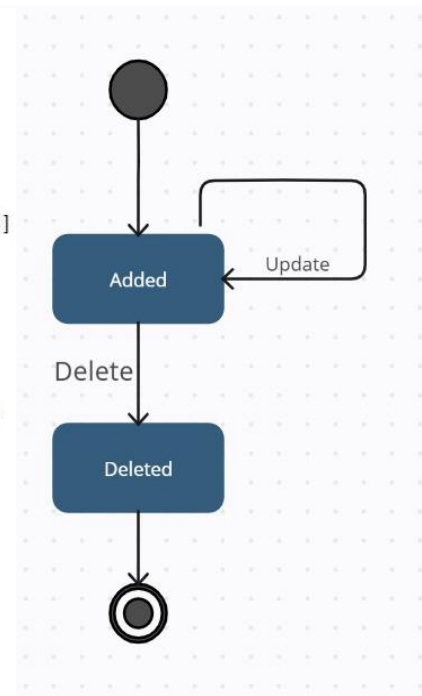
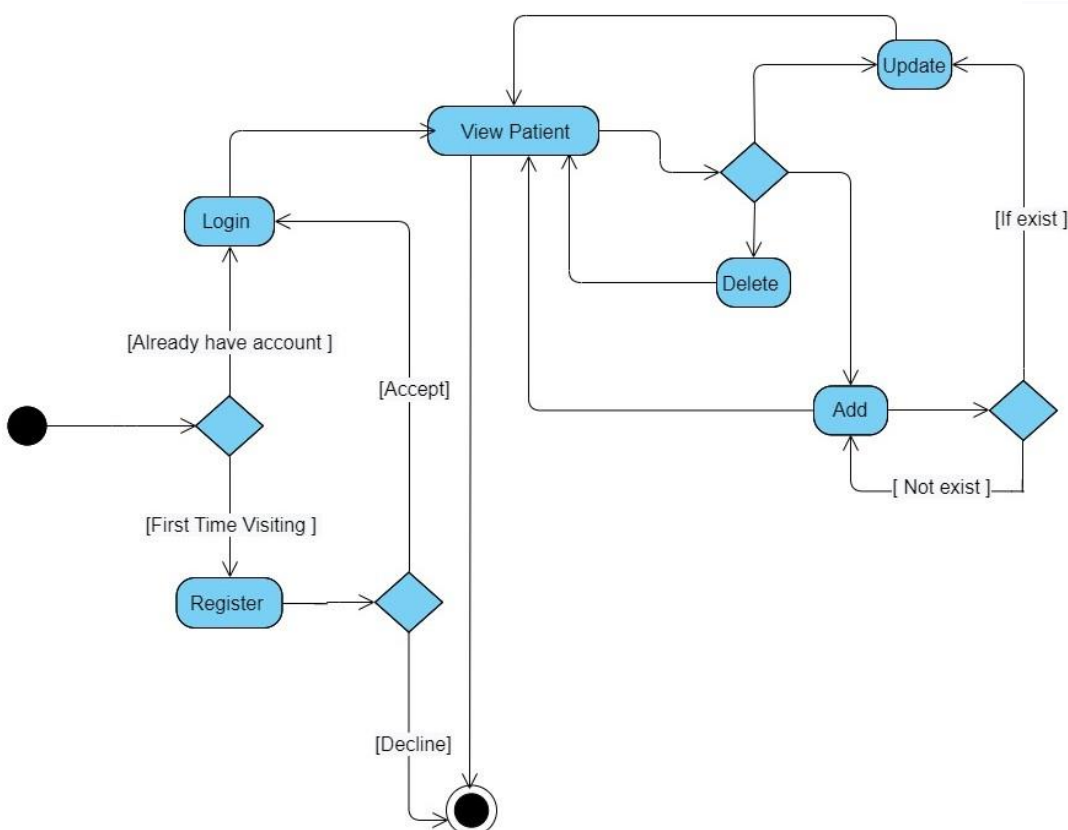


7- State Diagram

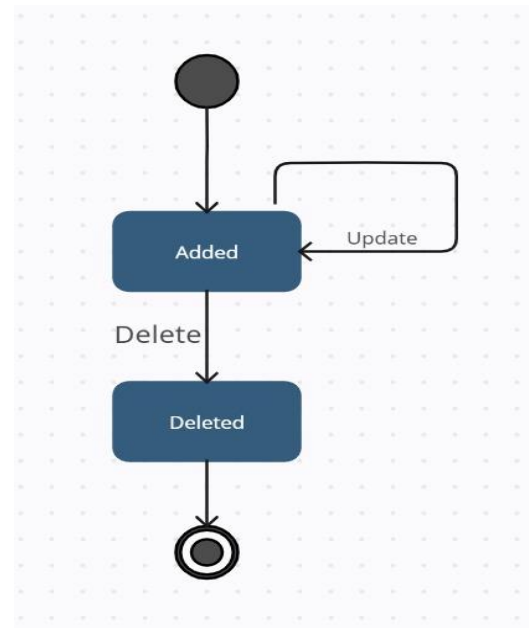
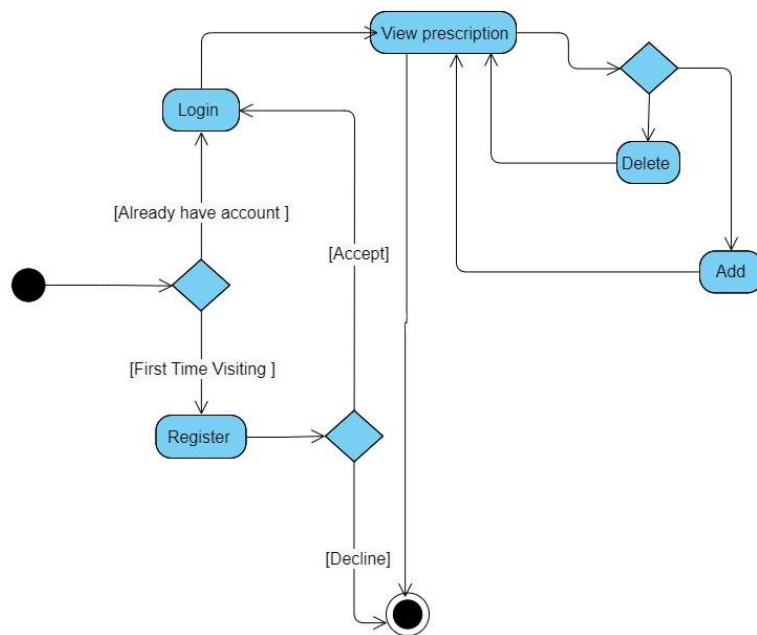
7.1 – Doctor state



7.2- Patient State



7.3- Prescription State



II. OCL Constrains :

- 1- Context pending invariant:
Self. Password ≥ 8
- 2- Context Patient invariant:
Self. NID. length () ==14
- 3- Context Patient invariant:
Not Self. Doctor. oclIsUndefined ()
- 4- Context patient invariant:
Self. Prescription -> notEmpty ()
- 5- Context Prescription invariant:
Self. medicineName != Null
- 6- Context Prescription invariant:
Self. Doses != Null
- 7- Context Prescription invariant:
Self. Date != Null