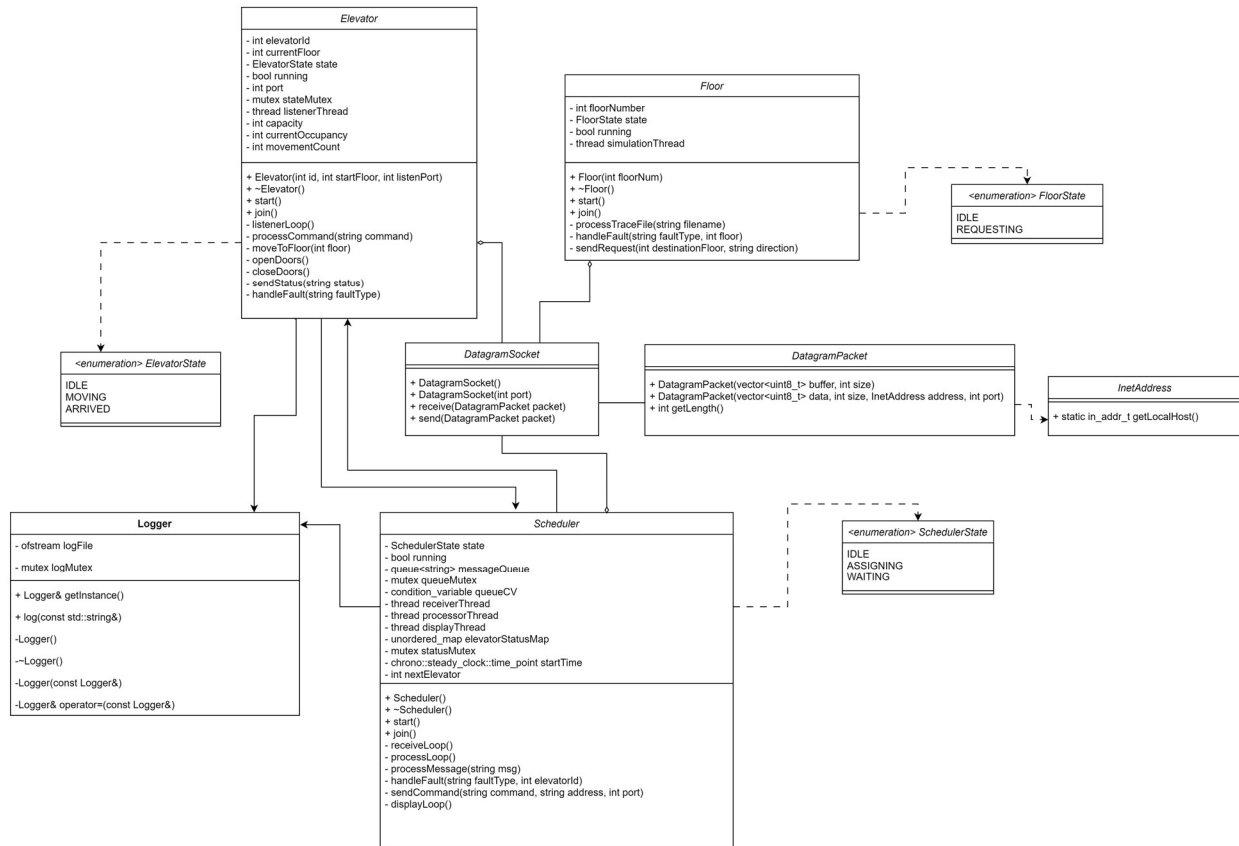
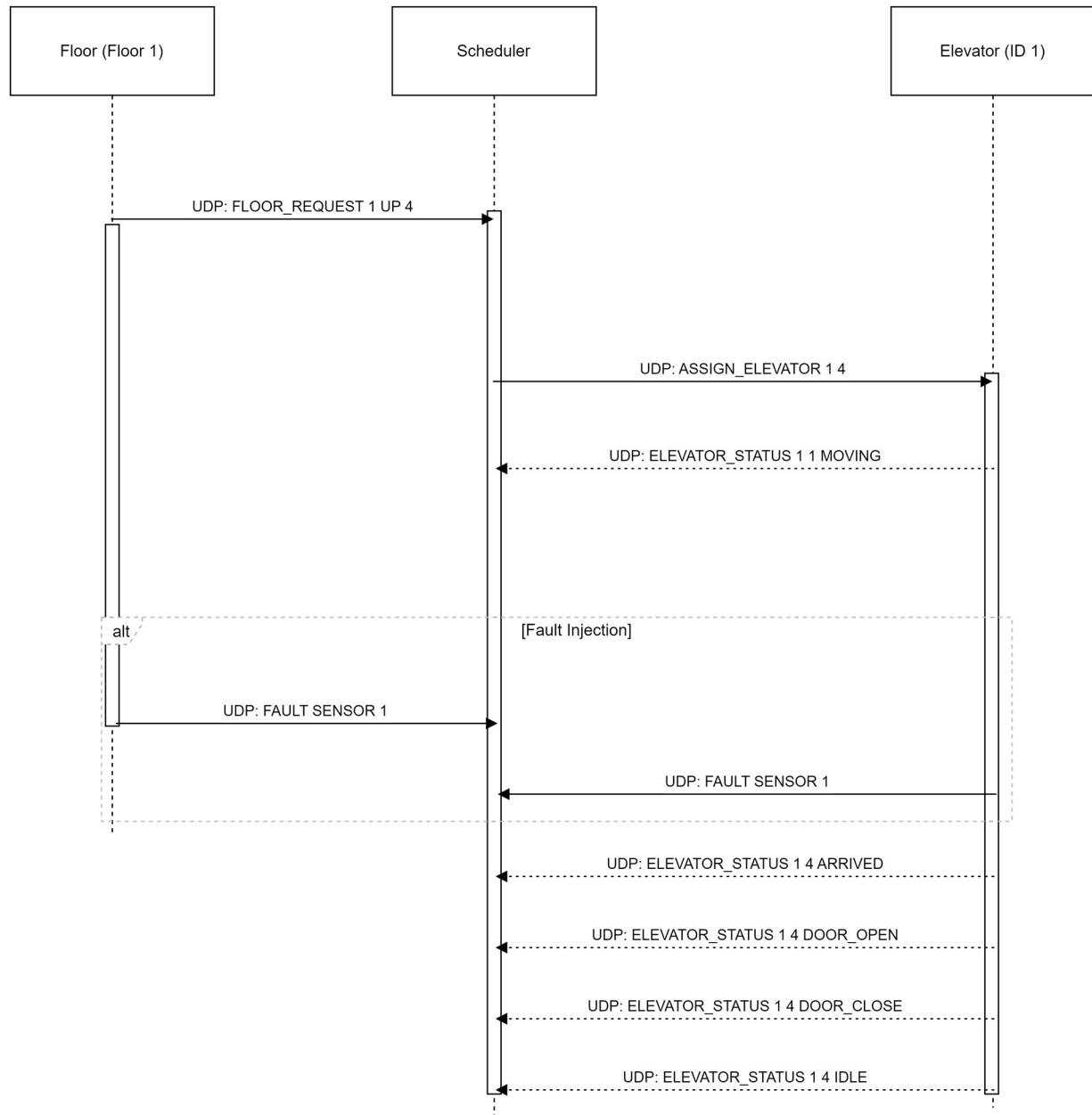


UML class diagram:



UML sequence diagram:



State diagrams:

