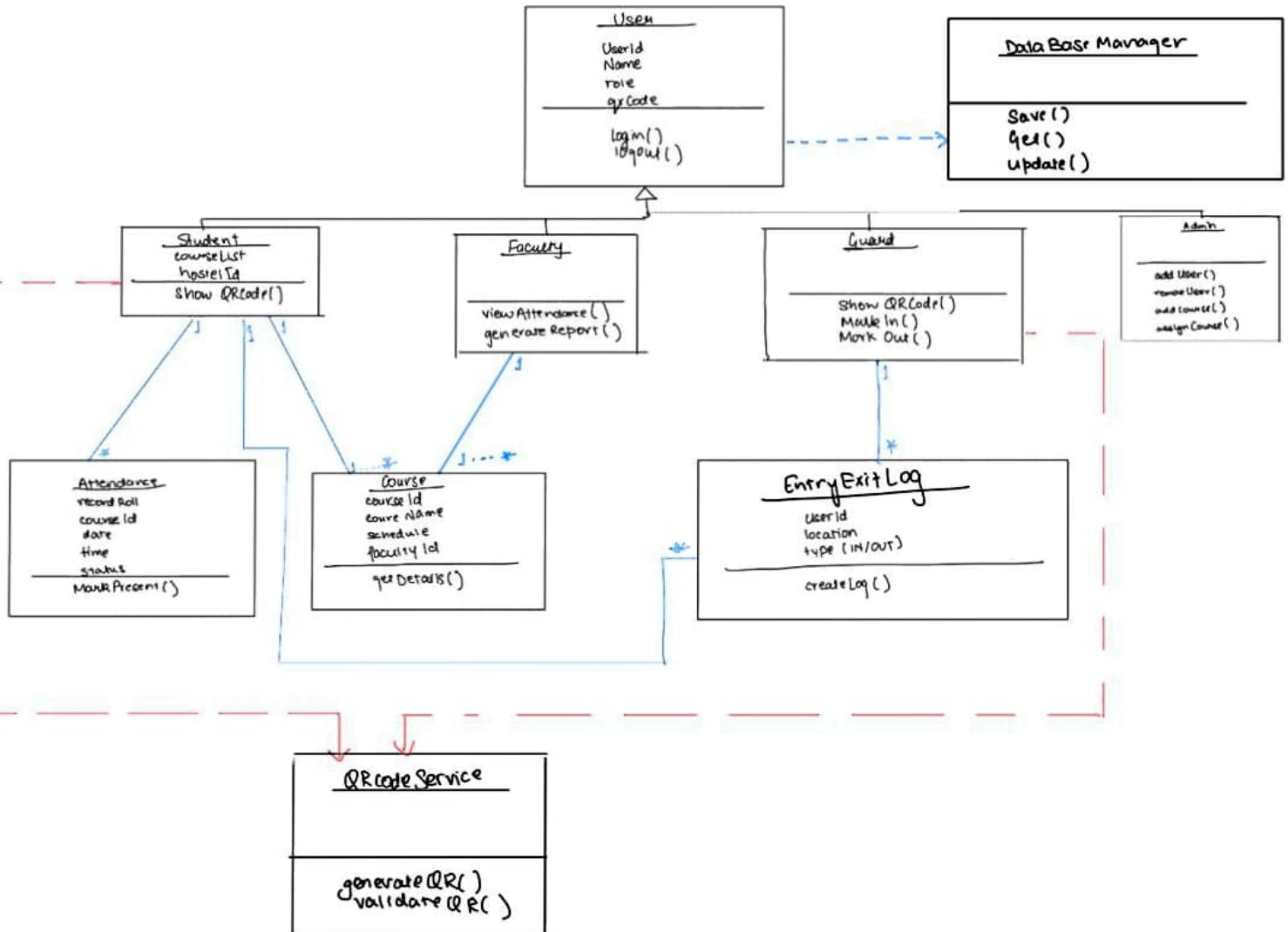
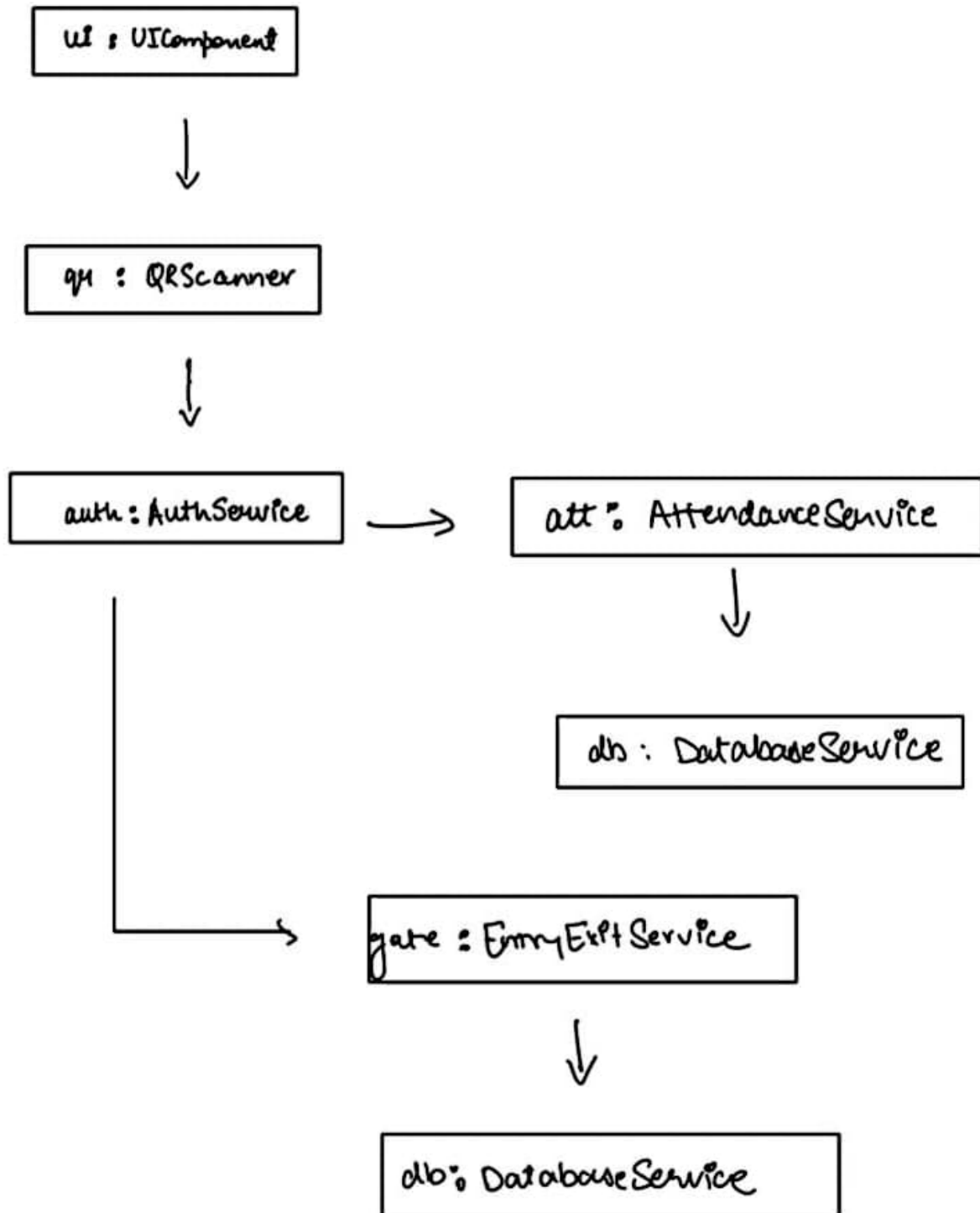


Class UML



Campus QR System



UML COMPONENT DIAGRAM

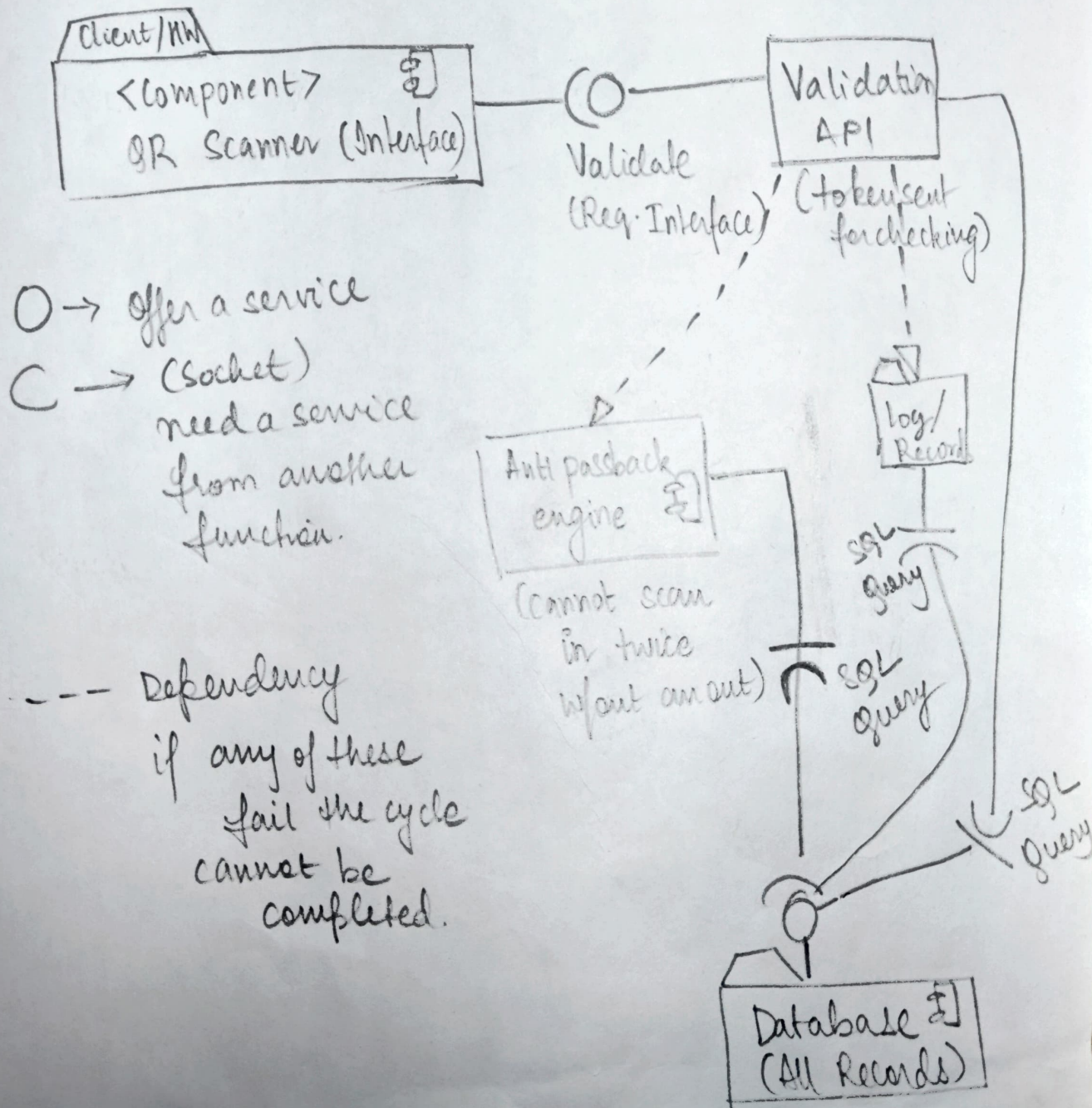
Illustrates how physical components are wired and organised along with their interfaces and relationships to form a larger system. (highlighted)

Can be broken down into three layers.

Client/Hardware layer [Scanner]

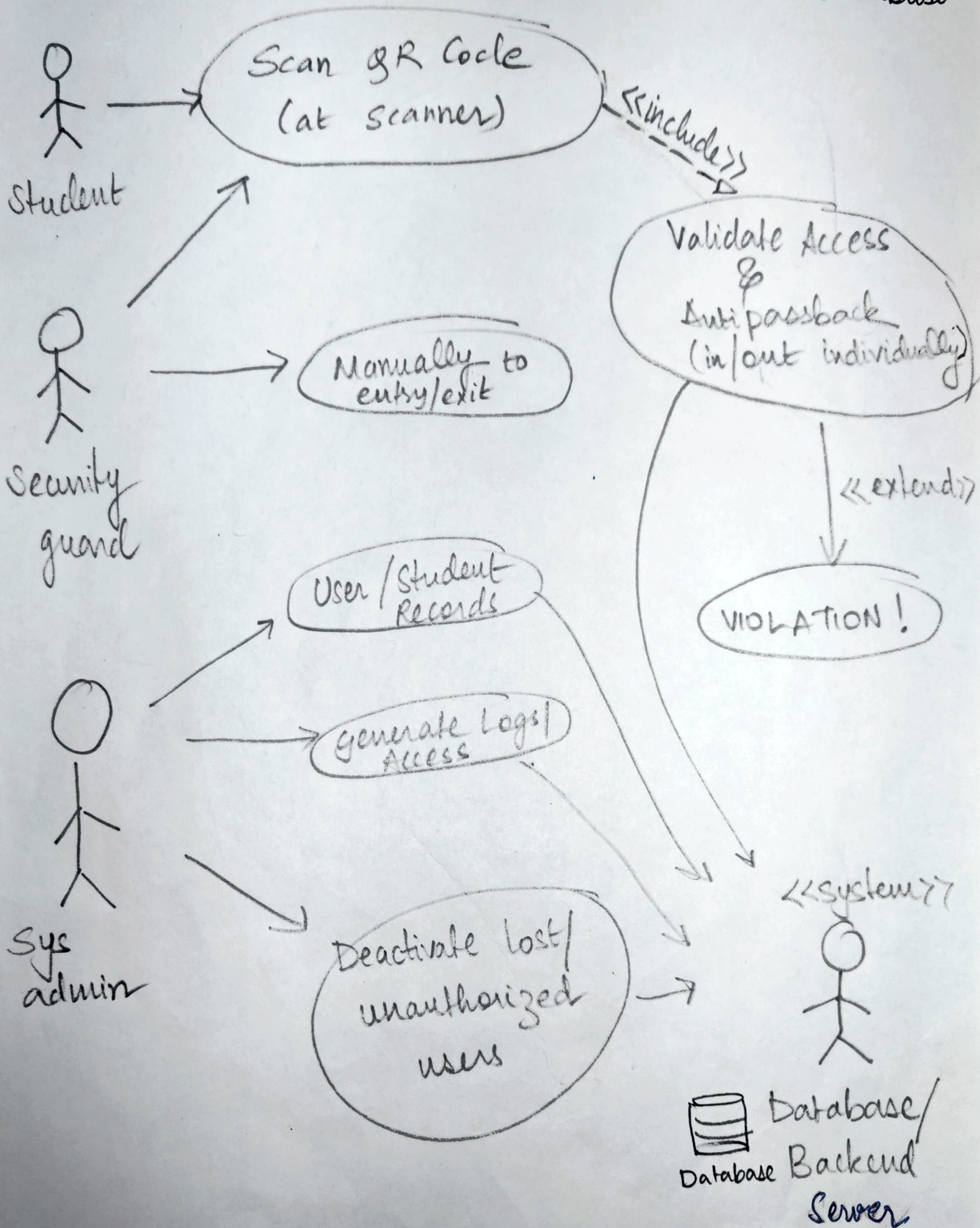
Application/Service Layer [Validation + API]

Data Layer [DBMS]



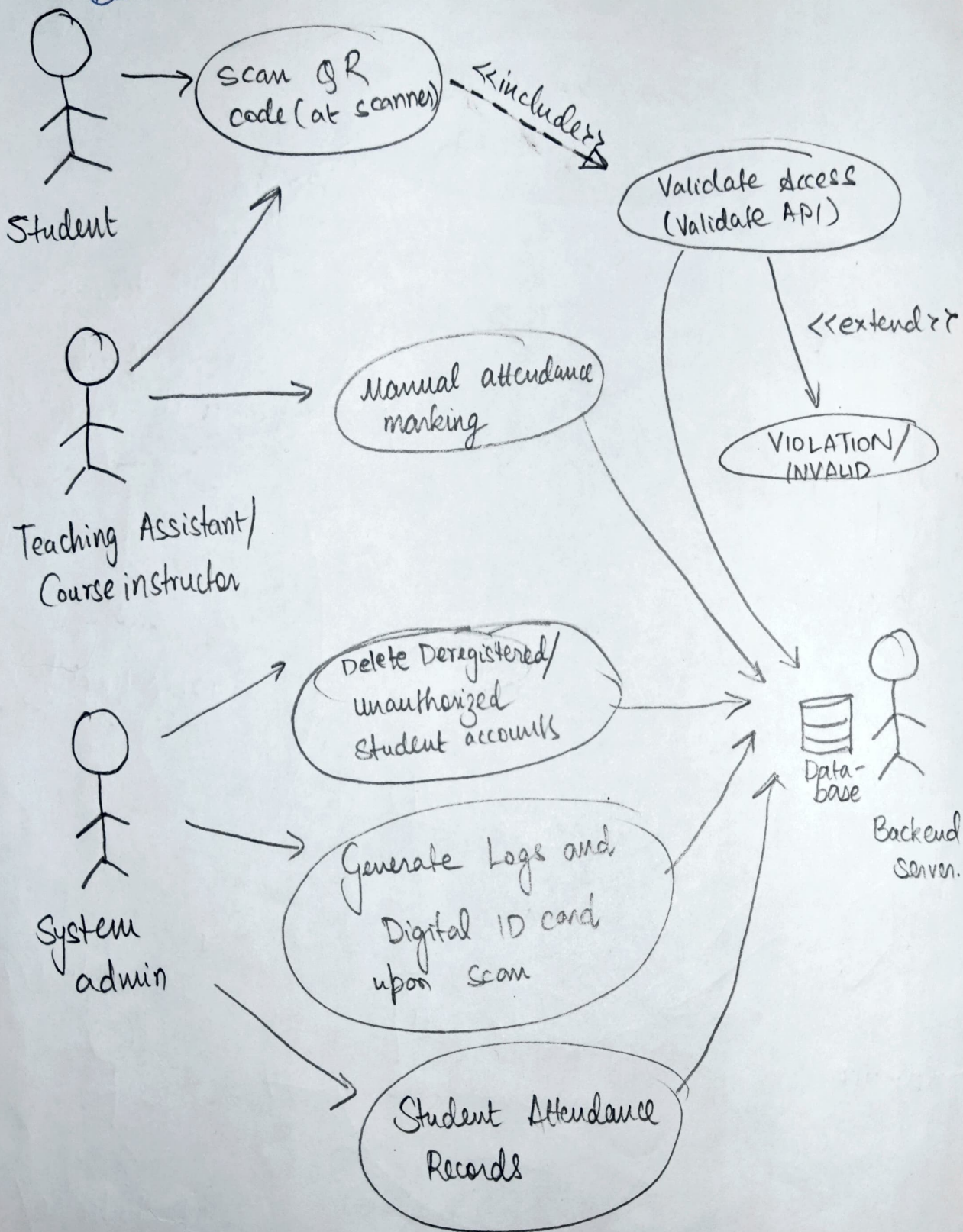
USE - CASE DIAGRAM

Actors: Student, Security guard, sysadmin, backend ~~server~~ / database

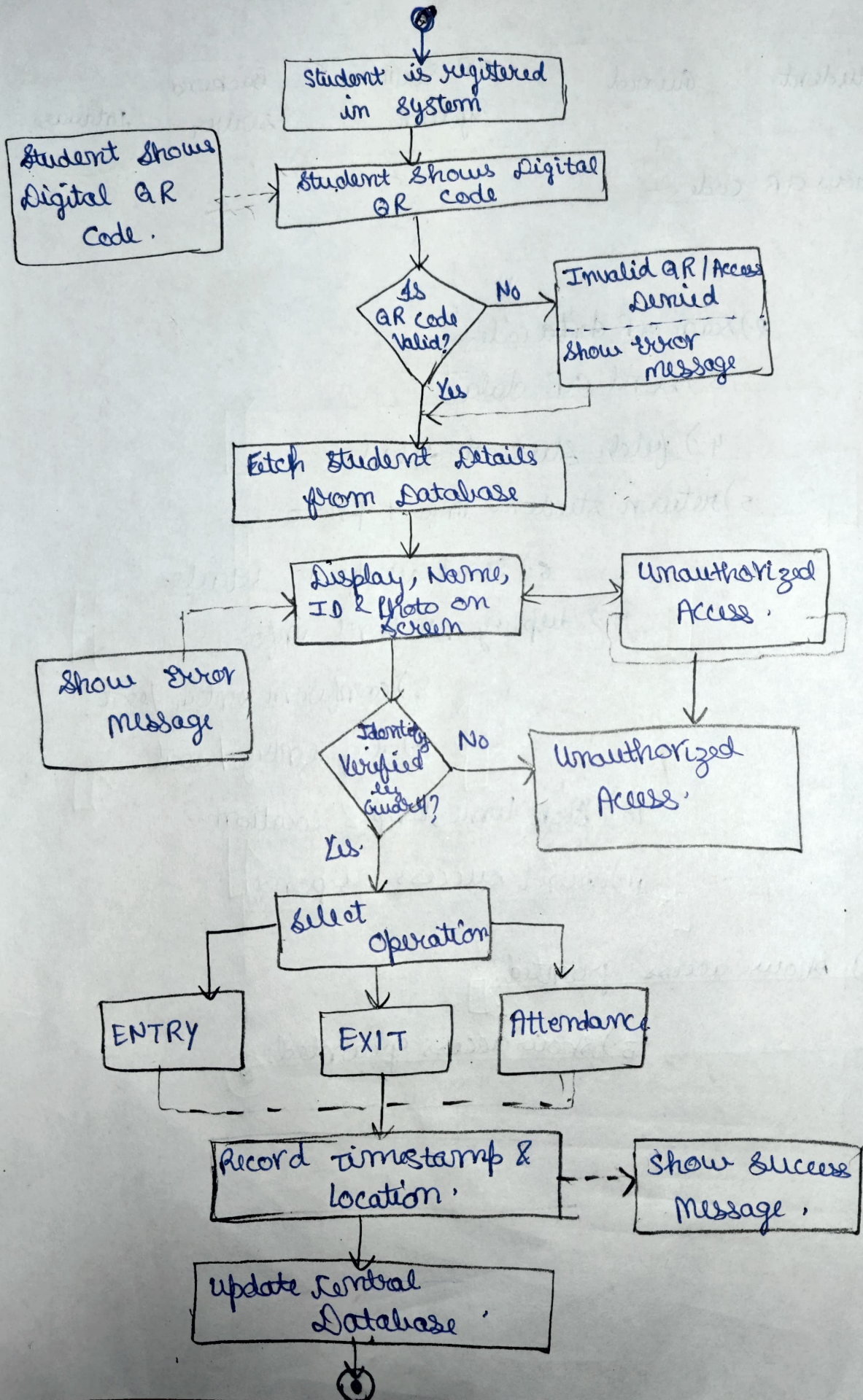


USE-CASE DIAGRAM (FOR ATTENDANCE SYSTEM)

Actors: Student, Teaching Assistant/ Course instructor, System admin, Backend Server.

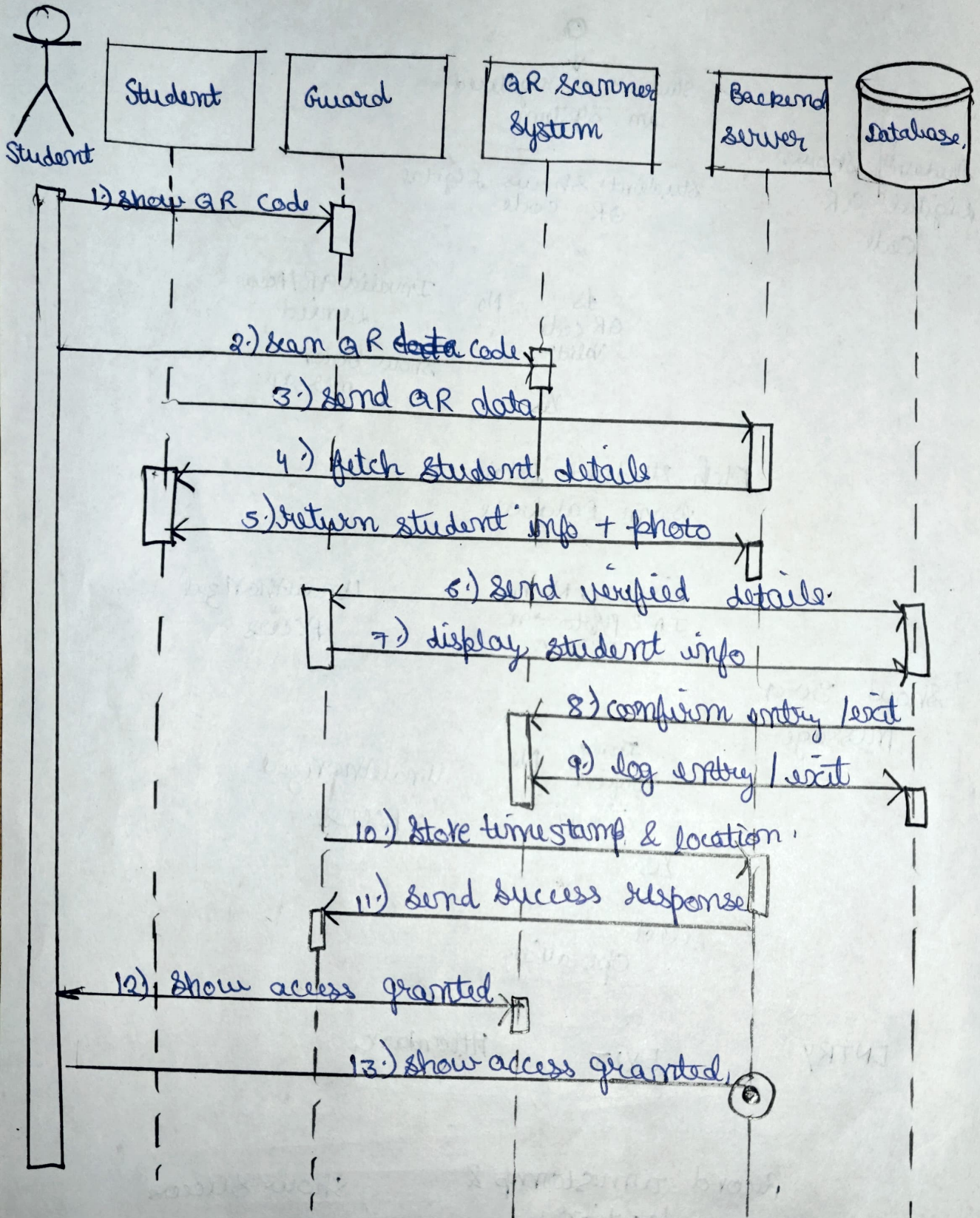


Activity UML Diagram

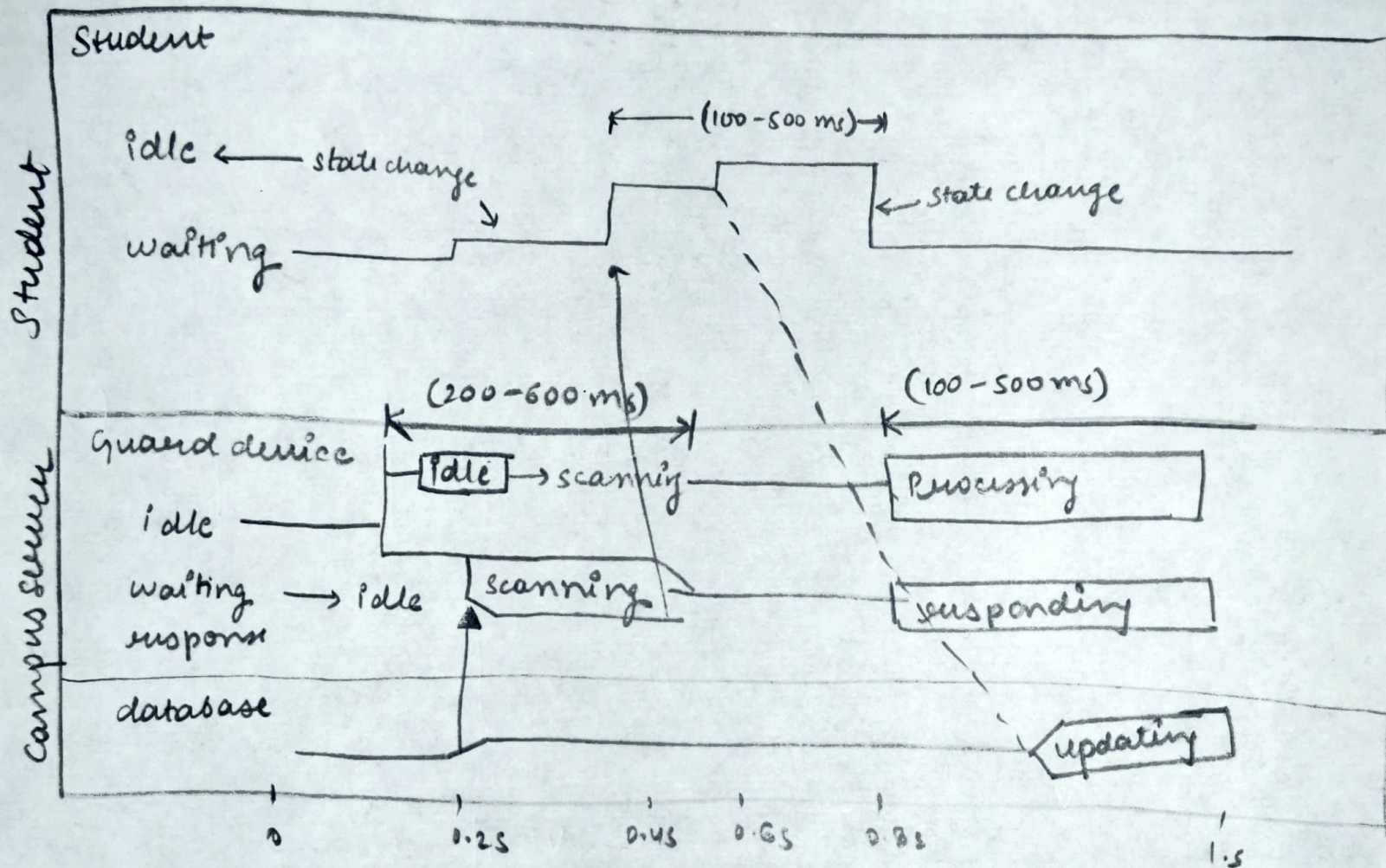


UML Sequence Diagram

QR Code - Based Campus Entry & System



Timing UML diagram



Explains →

How entry/exit or attendance marking happens within a short time window. Sequence of state changes of guard, student, server, and database after QR is scanned.

Deployment UML diagram

