STATE DIAGRAMS

2) Credit Card processing

- CardValidationPending
  - enter details
- CardValidity
  - valid → Transaction Authorization Pending
  - invalid → Transaction failed
- Transaction Authorization Pending
  - Process Transaction
- Authorize Transaction
  - Yes → Transaction authorized → authorize → Transaction Completed
  - NO → NotAuthorized → Transaction Failed → failed
- Transaction Completed
  - receipt → GenerateReceipt
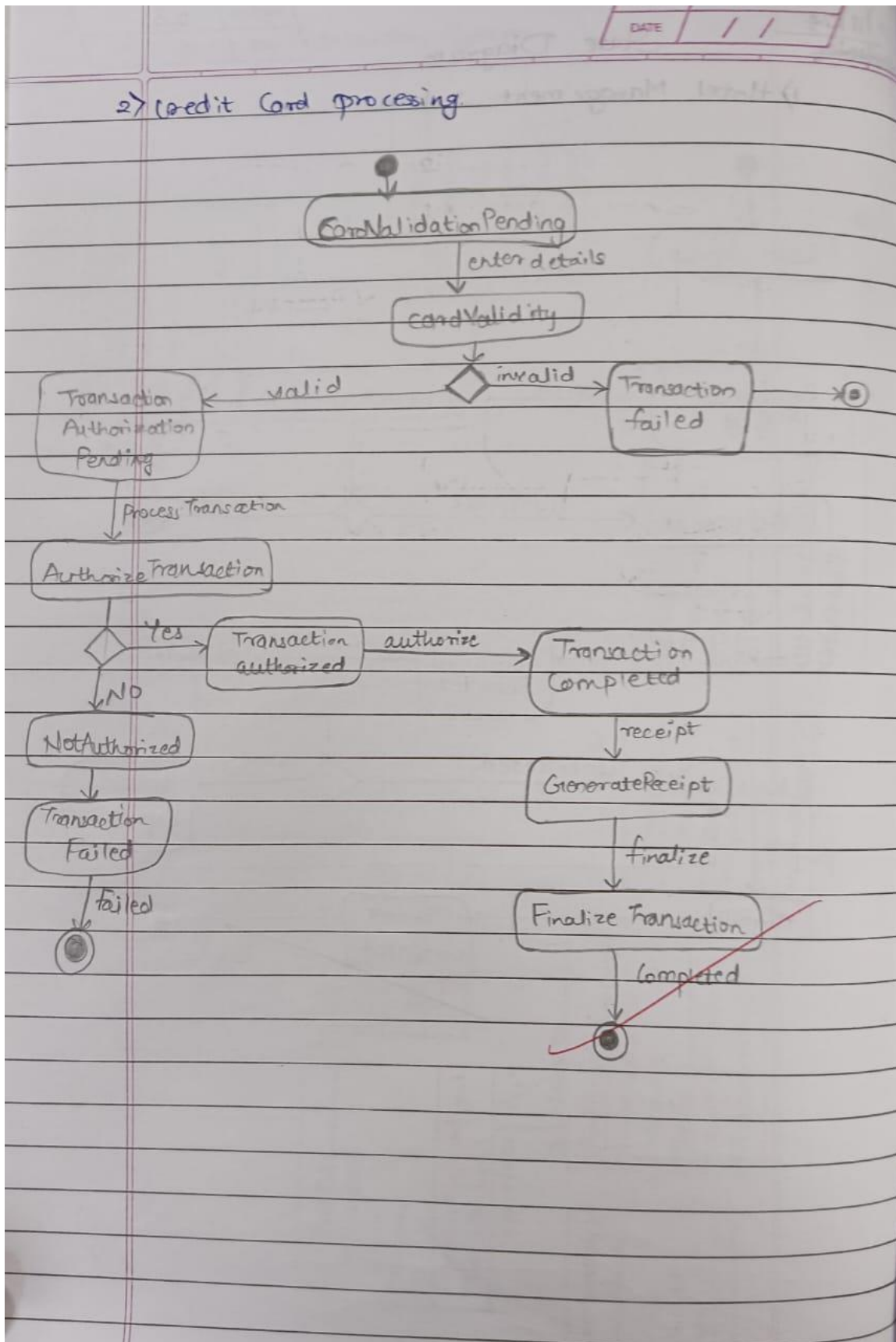 - finalize → Finalize Transaction
  - completed

Figure 1: Simple State Diagram
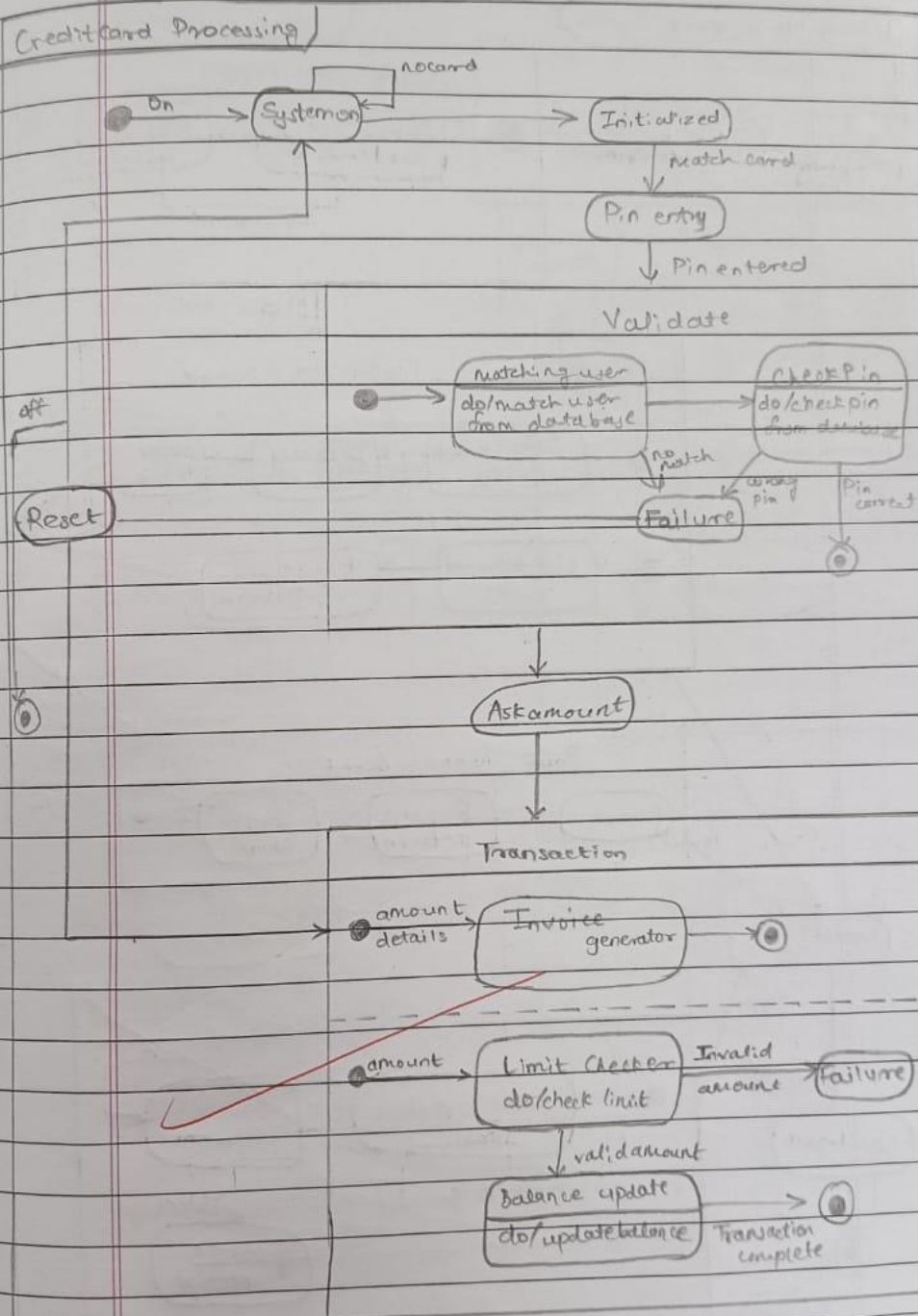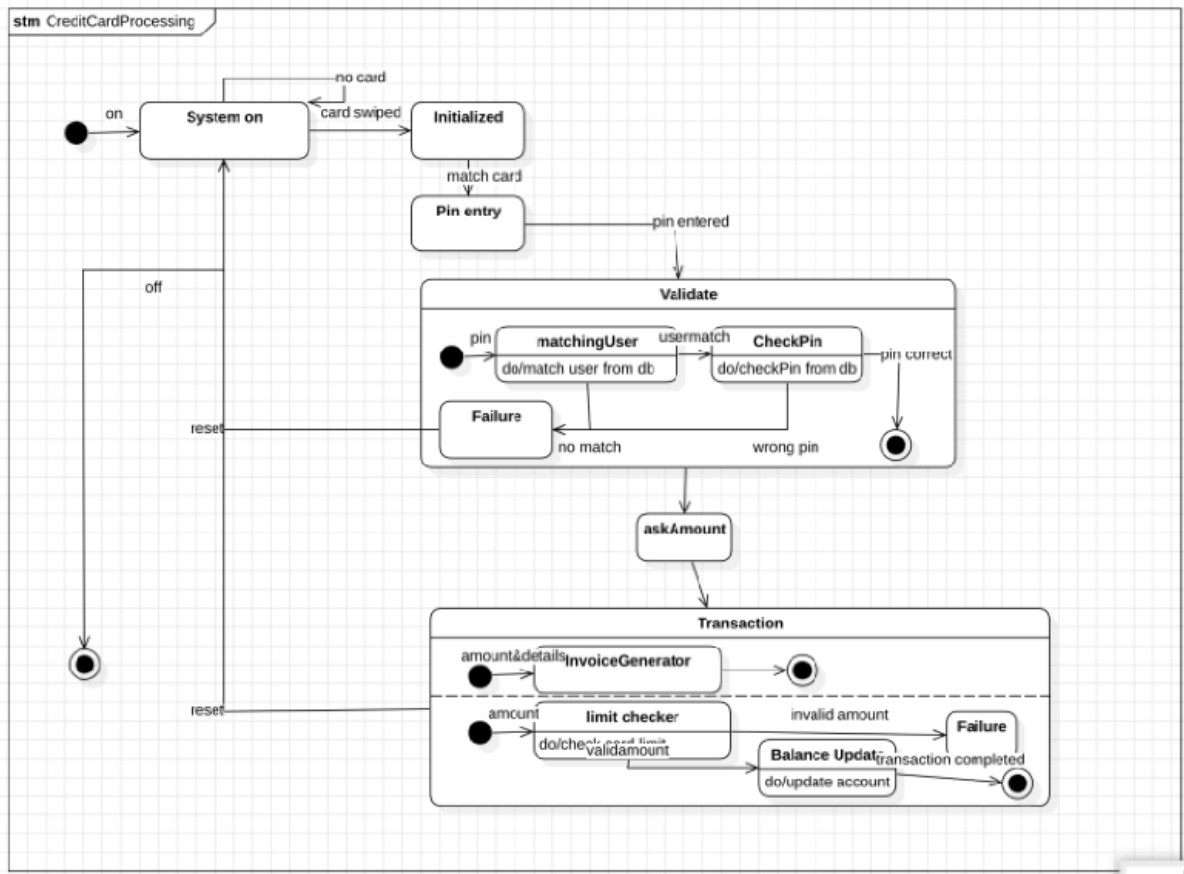
2. Credit Card Processing

Figure 2: Advanced State Diagram

Figure 3: Star UML diagram