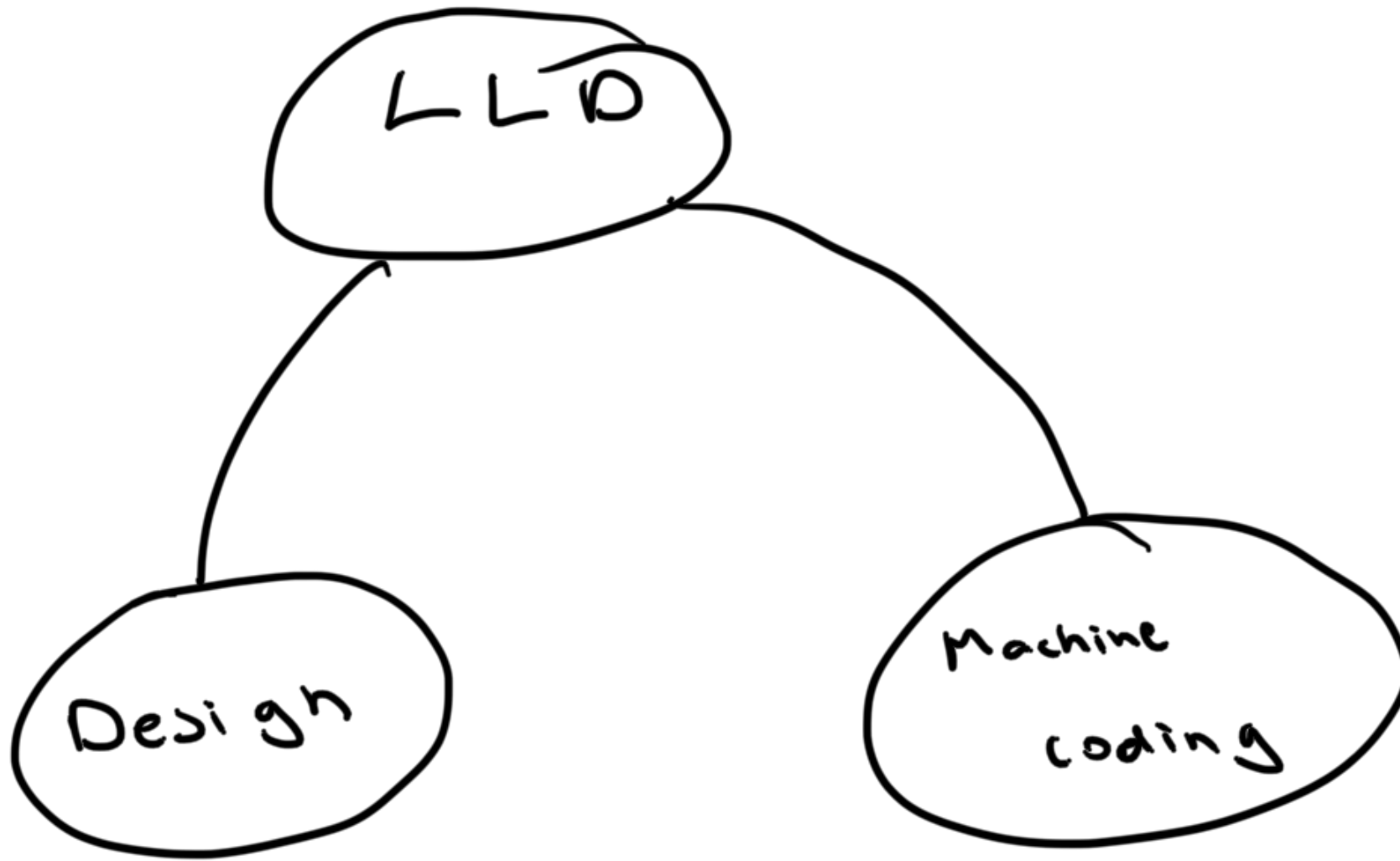


Machine coding
↳ Splitwise



Agenda

→ what are UML Diag.?

→ Use case diagrams

→ Case diag.

→ Assignment

→ Class diagram

→ Case study

→ Assignment

→ Inheritance vs Association

→ Cardinality

Good software

↳ Extensibility

↳ Scalability

↳ Maintainability

How to increase?

Documentation ★

Requirements

↳ Documents

Problems →

→ Lengthy

→ Ambiguous

→ Diagrams
→ UML

❌ P1





Requirements → functionalities
→ features
→ behaviour
→ use cases

UML



Structural

① Class Diagram ★

② Object diag.



Instance

③ Package

④ Component

Behavioural

① Use case ★

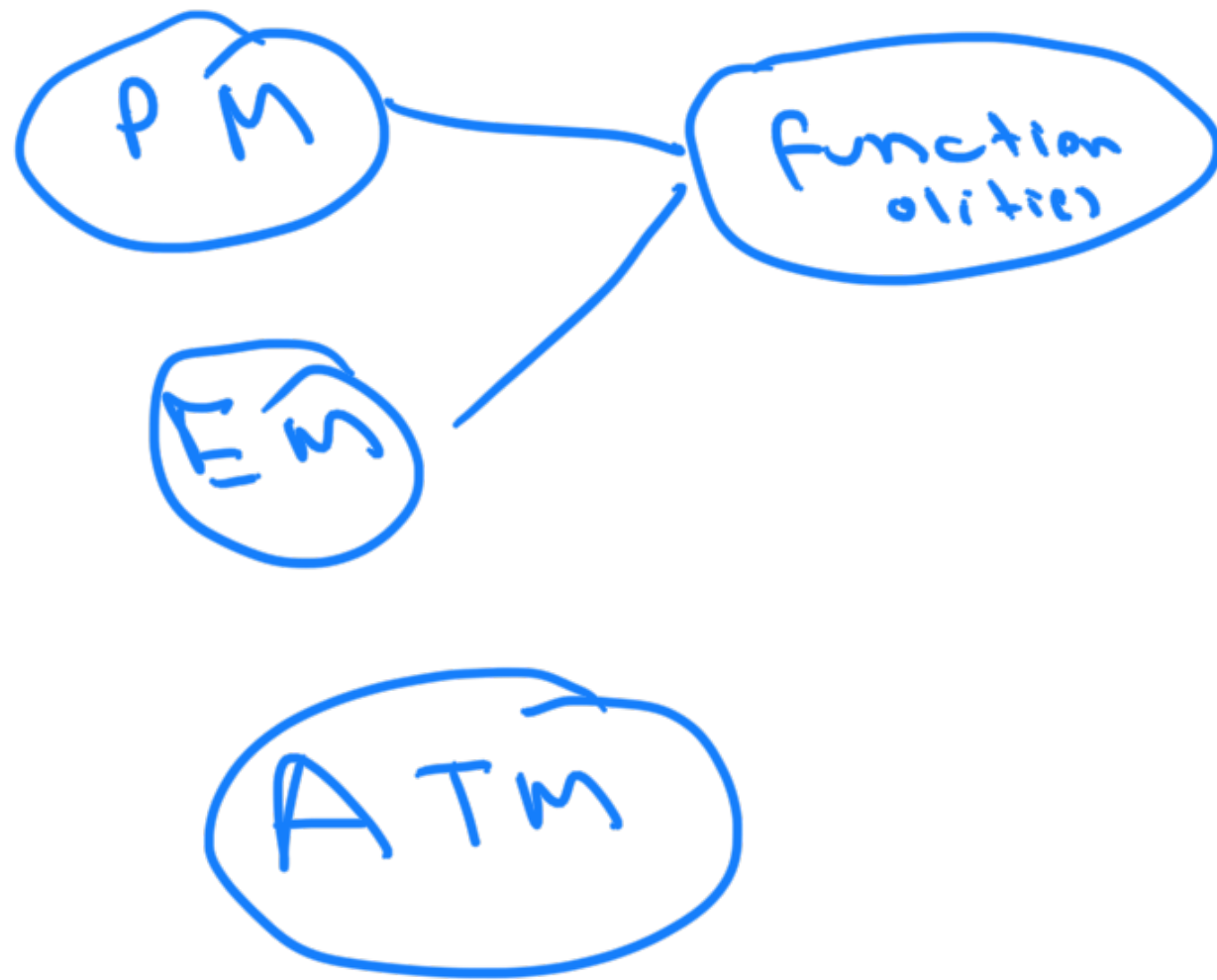
② Sequence

③ Activity

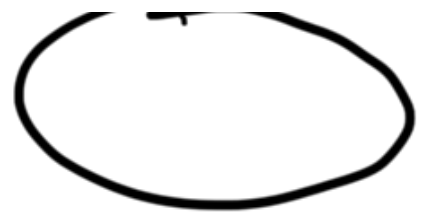
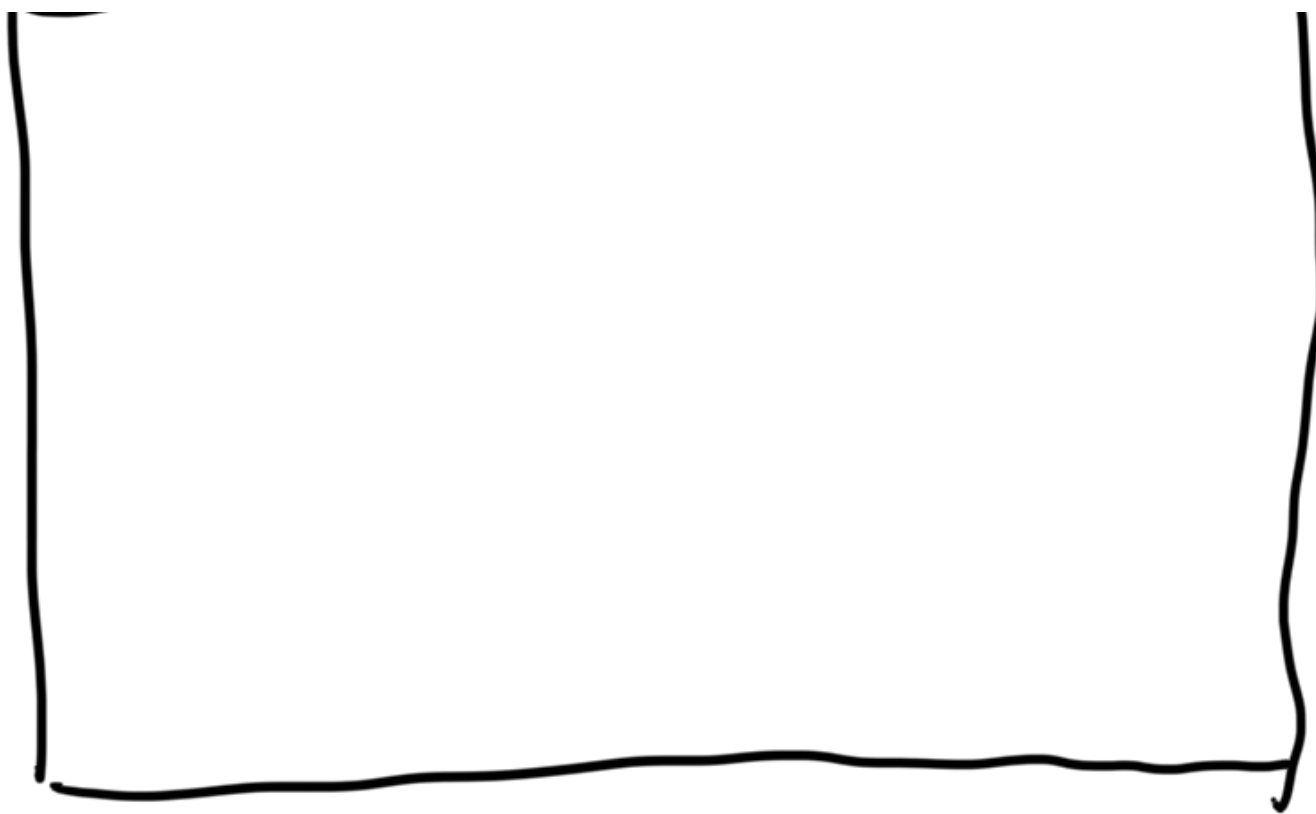
④ State



Use case Diagram



① System boundary



→ useful, if third party APIs

→ functionalities maintained by us

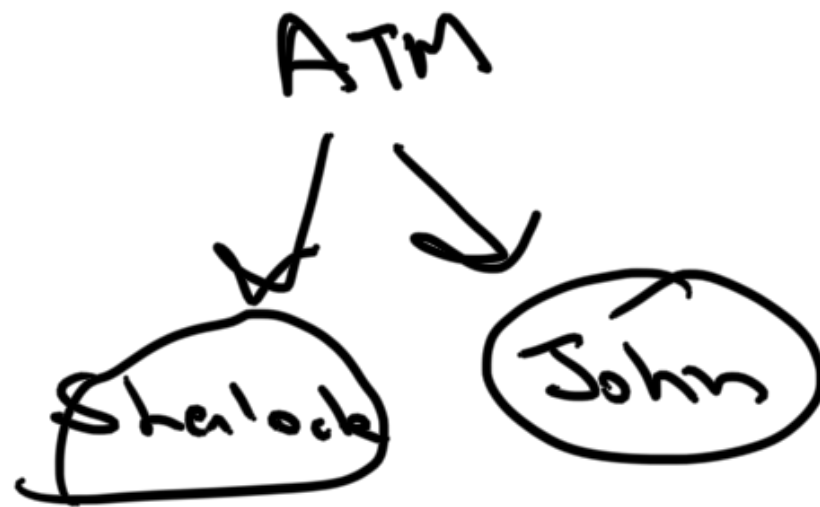
② Use cases
→ functionalities

- ① Withdraw cash
- ② Check balance

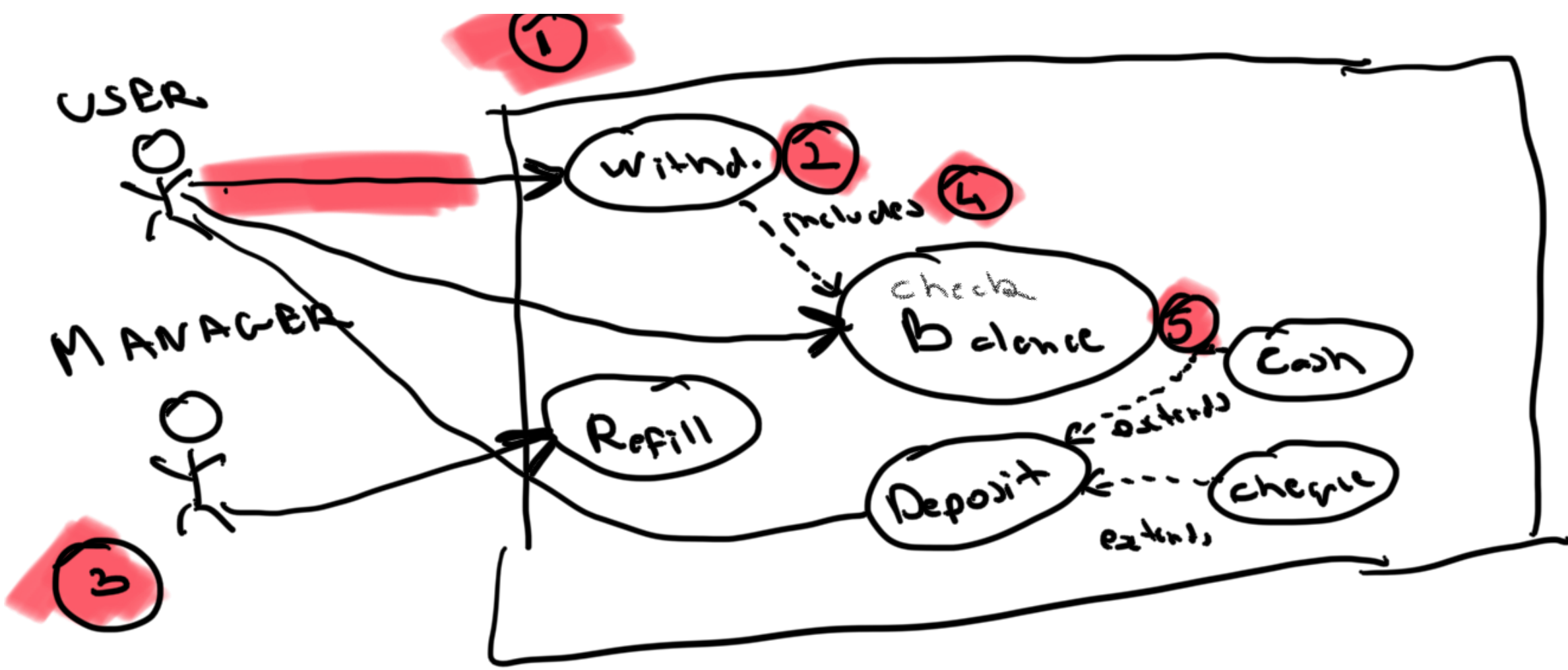




③ Actors



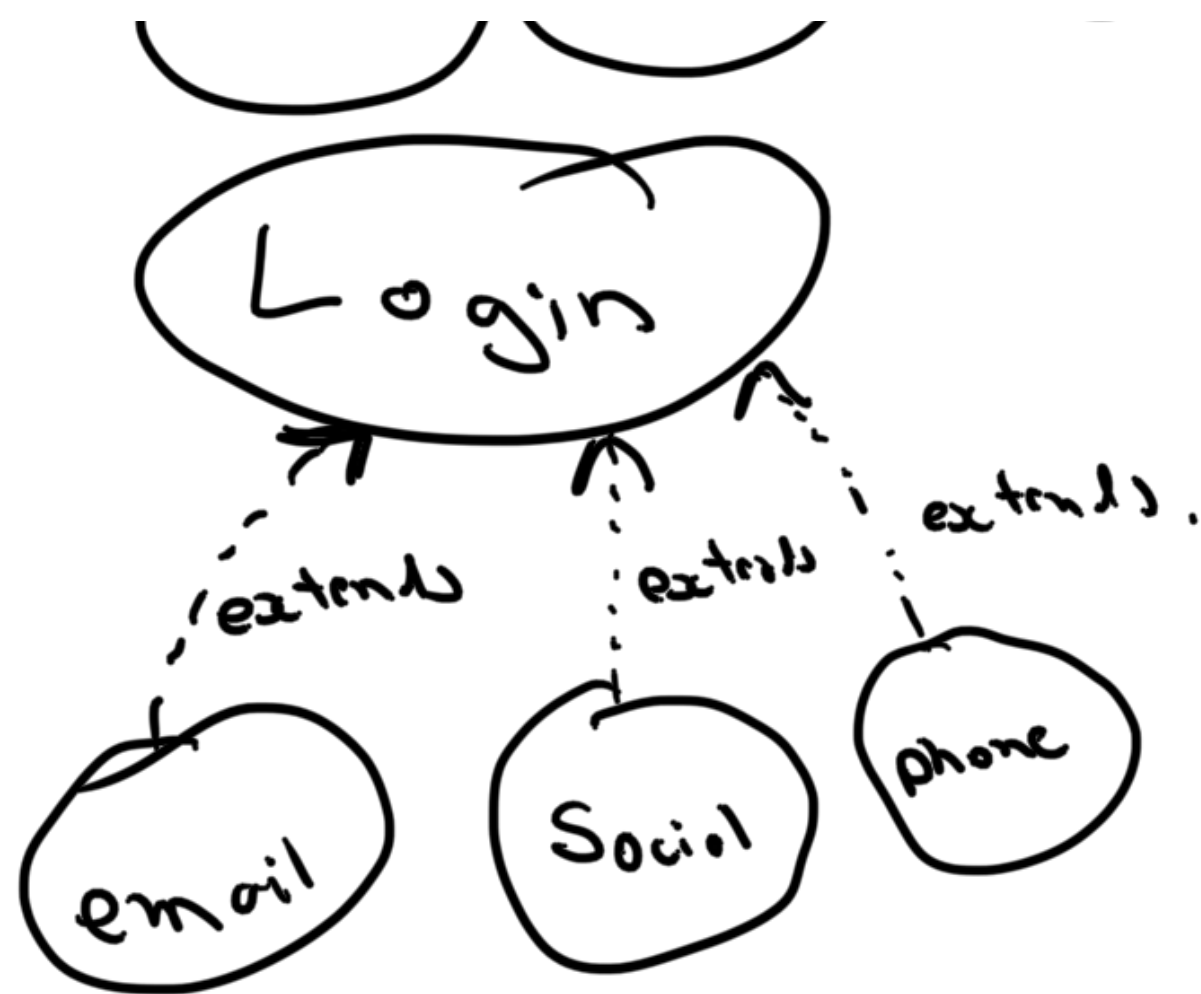
→ type of people who interact with
our system



④ Includes → depends on | ① includes → ②

⑤ Extends
↓
inheritance





ATM

Assignment break

↳ 5:14 - 5:34

- 11:04

use case
