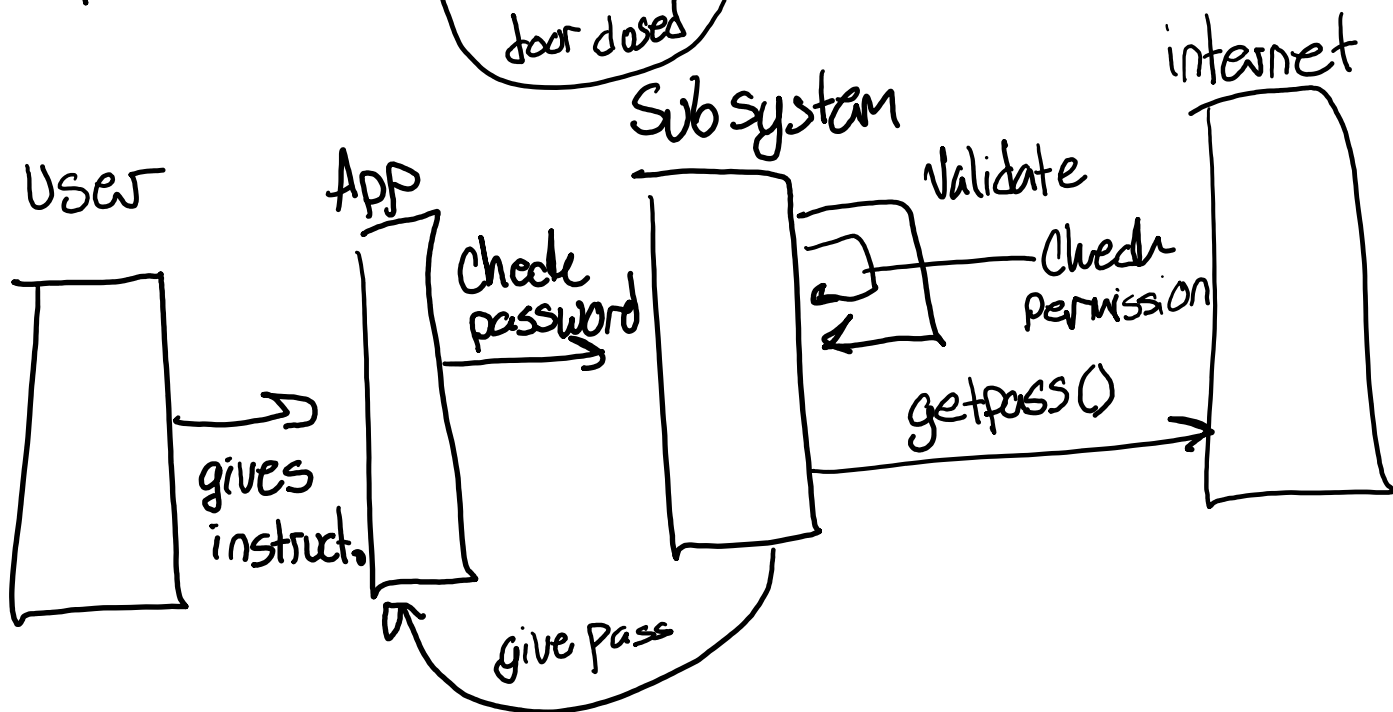
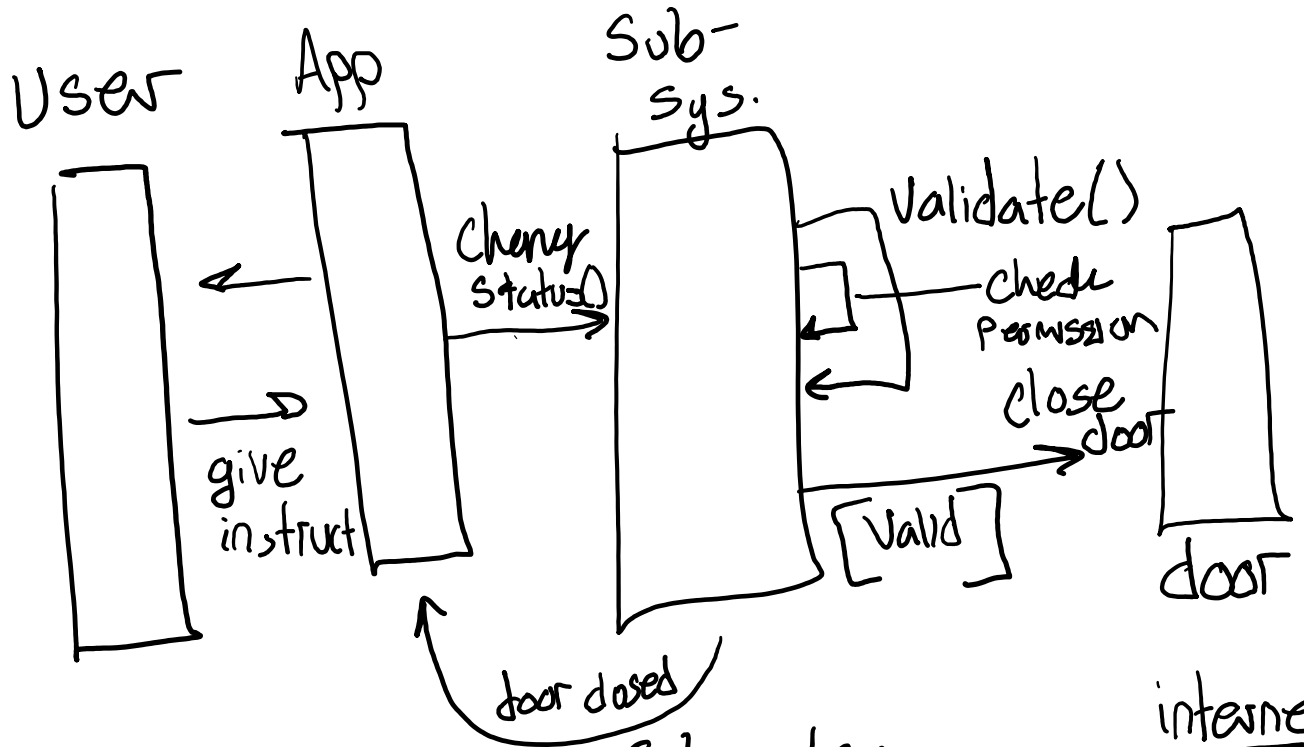
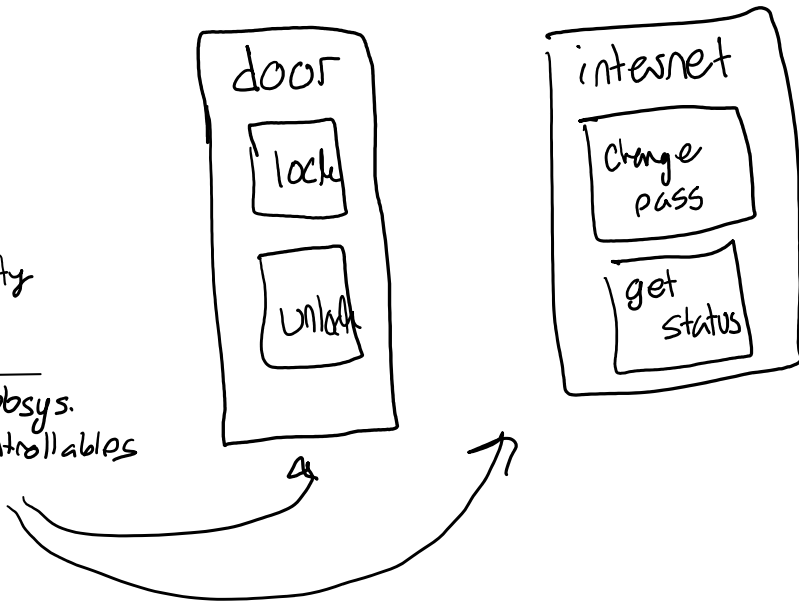


Data Driven UML



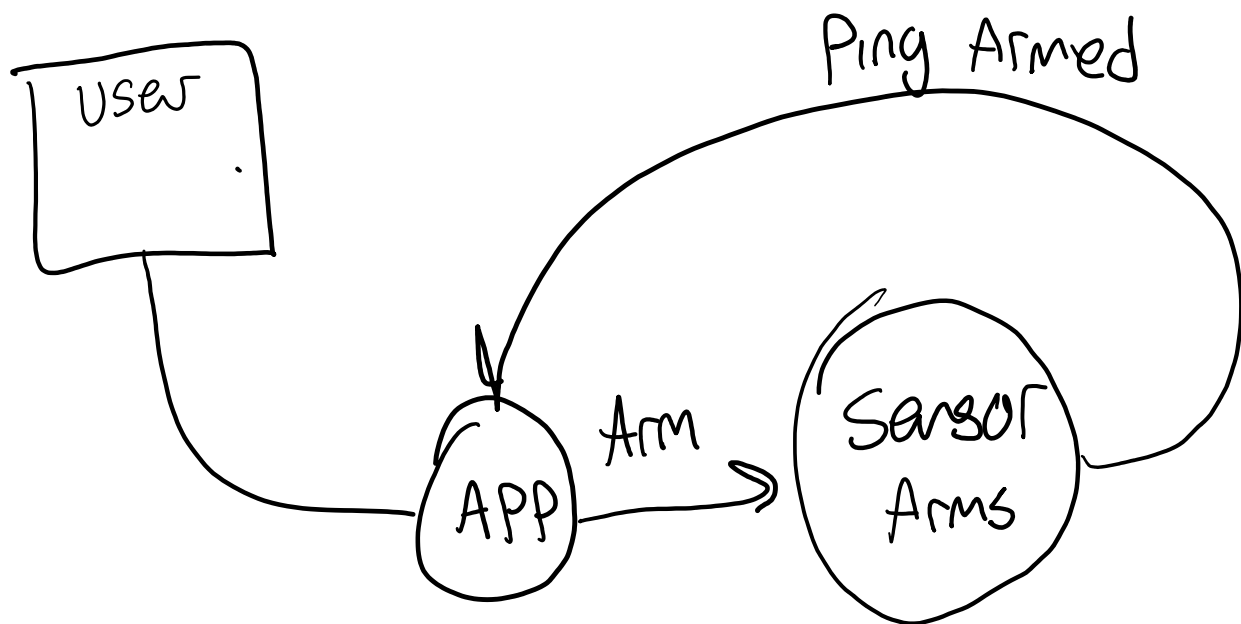
element	description
• stakeholder	home owner, system designer, smart home manu.
• Concerns	show interactions between systems in home + how security works to make things safer
• Modeling	• nested boxes - outer : subsys. inner : controllables



Arch. Viewpoint → Physical view

• Communications

- Dataflow for model based (physical object comm)
- Event based interaction (user → app → object)



Our system is a Centralized system

↳ Data is only handled w/i a household

There is no reason for data to be queried over web

↳ other than accessing systems from far away, but that will be controlled w/i over ping to home network

* Review design decisions in Lecture 8 slides! *

o Layered Architectural structure

non functional → sys.

As a home owner, I want to be able to ^{not measurable} ~~easy~~ secure my property from
an app, so that I can ensure my anxiety about security is alleviated.

As a home owner, I want my information to be secure behind a login
so that I don't need to worry who can access my system

- Yes, these use cases provide necessary abstraction of most important requirements because they state that the system must be efficient, fast, and secure whenever a user changes a part of their system.

↳ App focused, so mobile architecture

↳ Databases?

↳ Can we store our info in the cloud or do we need a physical database?

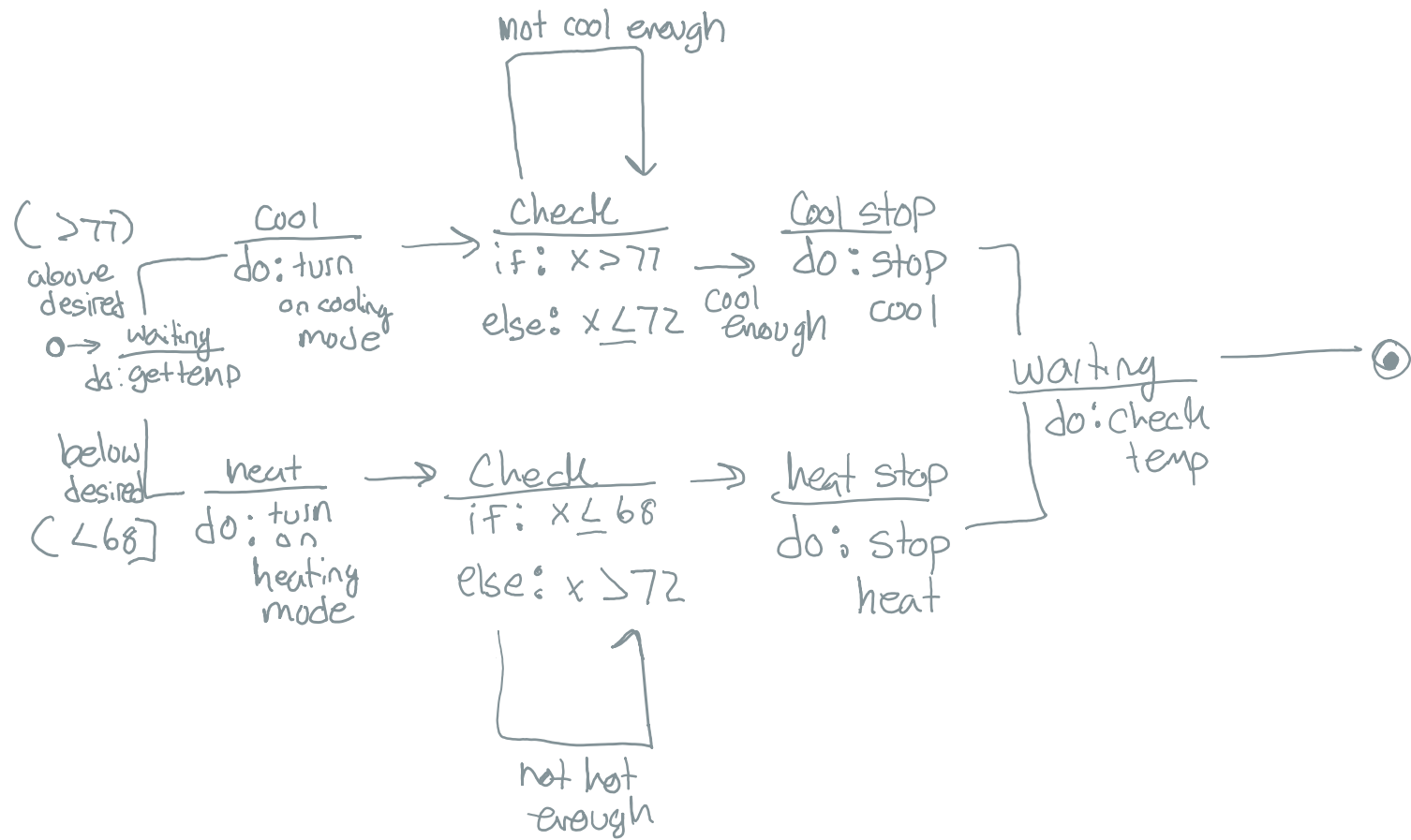
Functional → User interacts w/

As a home owner, I want to be able to access my security status and change it, so that I can ensure my most important possessions are secure.

As a home owner, I want a run down of all systems, so that I can be up to date on status of all sub systems.

Example Of A Event Driven UML diagram

Monday, September 23, 2024 9:07 AM



Interaction Model (VERY MESSY))

Monday, September 23, 2024 9:08 AM

