Inputs -> Step I(A)

1. Our project is a brown field project Lo we're building off of "aloand and and we can pull from other architecture o well understood domain, not "novel"

2. Non functional Prequirements

· Reliability -> System needs to be functional 100% of the time while providing constant survalence

ofailure transparency -> if system does fail, reports to user quickly + efficiently · Scallability - Allows systems to be efficiently added o Disoster Precovery -> Attempt to recover by all means either by system reboot or by transfering responsibility to police

Constraints - to be considered (I want to discuss)

·One/little Adnin user(=>)

· Systam needs to be Mobile Phone Accessable

· security is top priority

Concerns ->

- · System needs to be cloud or outside database oriented to not put much prossure on Mobile phone
- . Baseline cybersecurity to prevent attaches + Collection of user data

Assumptions

1. User has preinstalled hendware from 3rd party - ei comercus, door locks, etc.

2. That system has commections to hardware either that our product is that hardware's main driver software or we have occess to driver

3. Security of server hosted on cloud

Use cases -UC-3,5,7

about - establish overall systm arch. + Connections to 3rd party

Step 3A



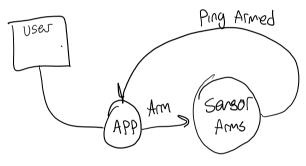
- · Decompose >> top down approach
- · First iteration designs top level arch.

Step 4A

La layered system Arch.

> Arch. Viewpoint >> Physical view o Communications

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



> Component diagram

Step 5 A

User Interface

User interface neveryement

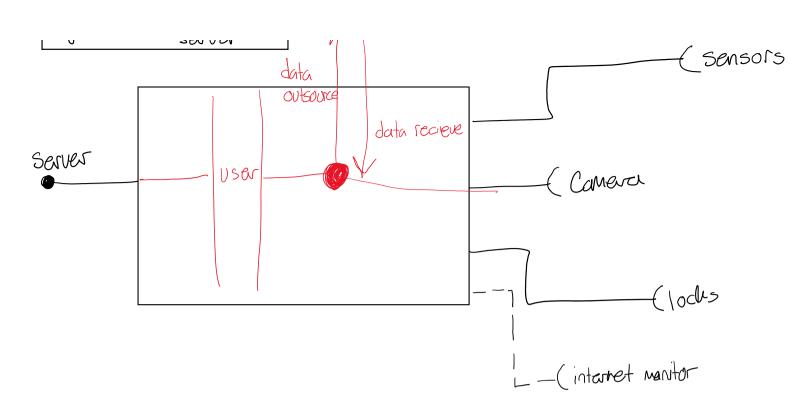
Out source to hardware

Business logic t data

System support (OS, database)

Jata /

Sensors



step 7A

• Specify component / overall system

• Data flow specification