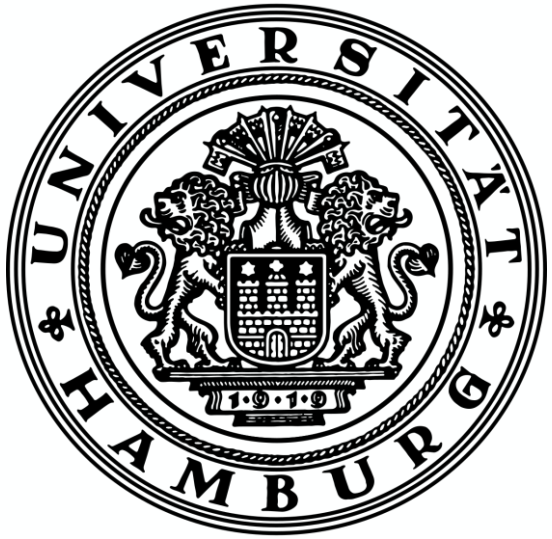
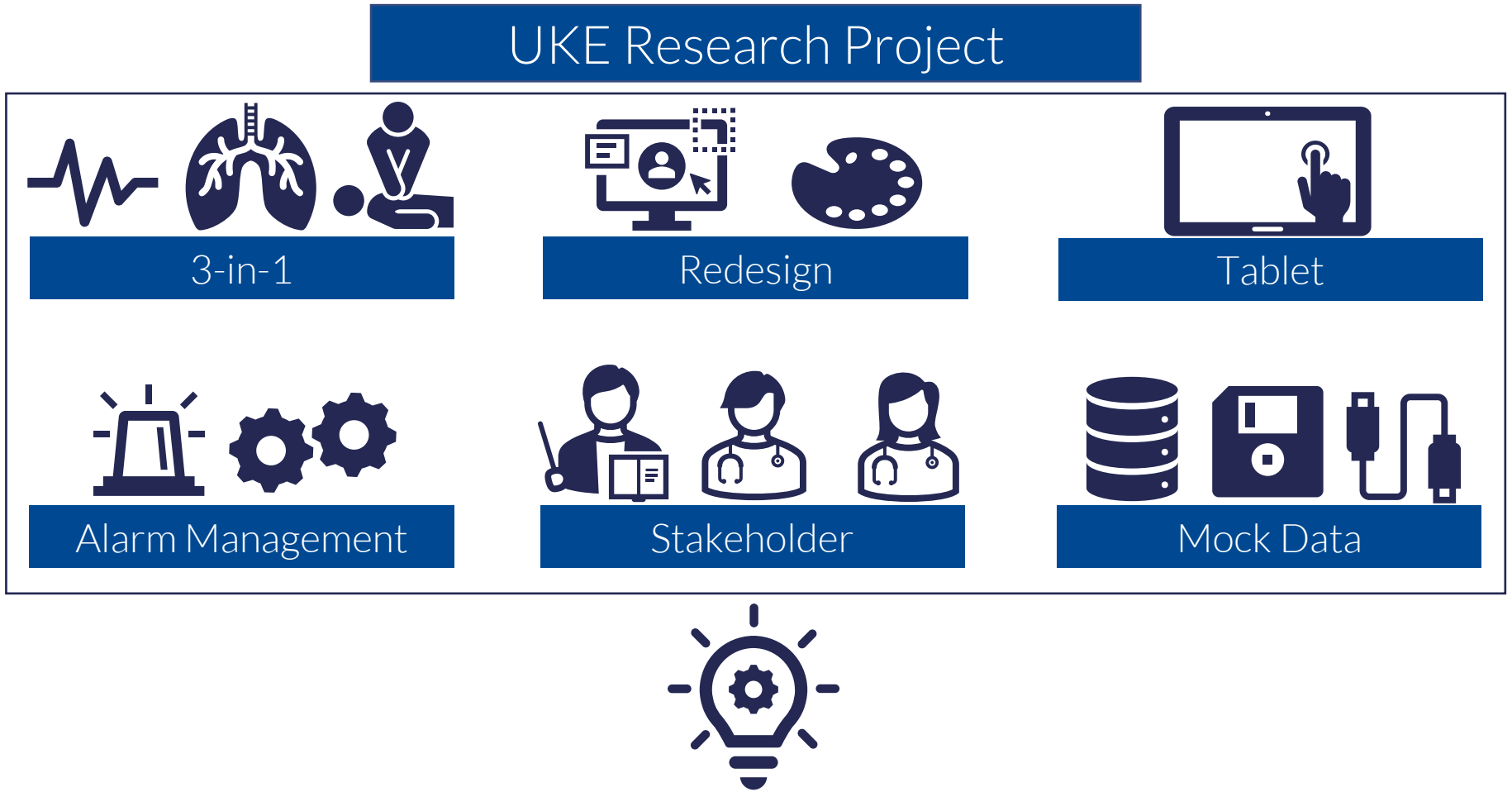


Design Review System Design

09.12.2021

M-Lab 2021/2022

Project Motivation



Team UKE

Arne

System Design
Backend Developer

Max

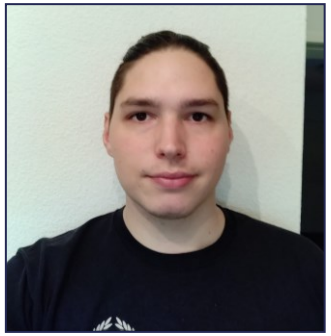
UX Design
Full Stack Developer

Noah

Data Engineer
Full Stack Developer

Mudi

Performance Engineer
Full Stack Developer



Corvin

Testing
Frontend Developer

Fynn

DevOps Engineer
Full Stack Developer

Anni

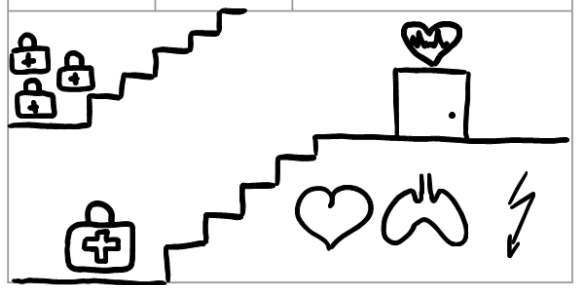
Project Management
Frontend Developer

SCENE #:	SHOT #:	SHOT SIZE:

Start - Scene:
UKE
M-Lab / UHH
Year
?

SCENE #:	SHOT #:	SHOT SIZE:

ambulance
house
Siren



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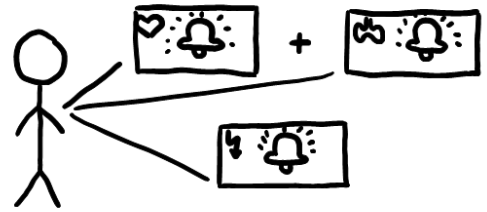
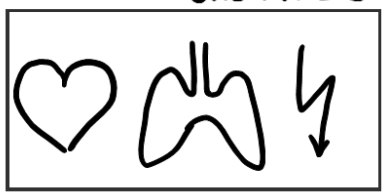


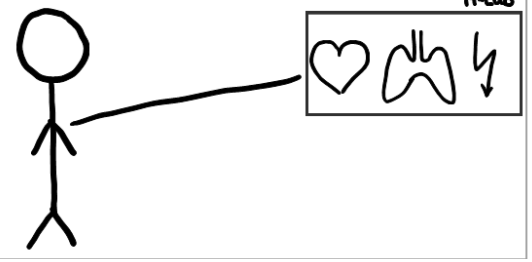
SCENE #:	SHOT #:	SHOT SIZE:

UKE + M-Lab



SCENE #:	SHOT #:	SHOT SIZE:

M-Lab



SCENE #:	SHOT #:	SHOT SIZE:

app + customizing
NIBD history
presets, height, weight

SCENE #:	SHOT #:	SHOT SIZE:

SpO2 Alarm !!
Confirm / mute ?

SCENE #:	SHOT #:	SHOT SIZE:

Switch ventilation
Settings
alarm-limit

SCENE #:	SHOT #:	SHOT SIZE:

red alarm → VT / VF
Switch defi

SCENE #:	SHOT #:	SHOT SIZE:

Shock
CPR

SCENE #:	SHOT #:	SHOT SIZE:

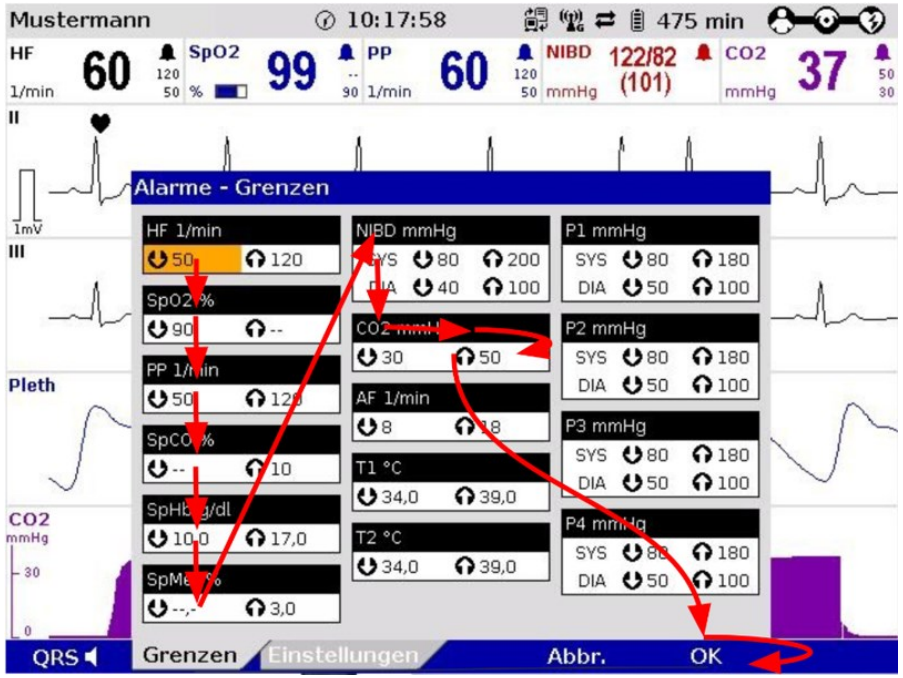
UKE + M-Lab

Credits
...

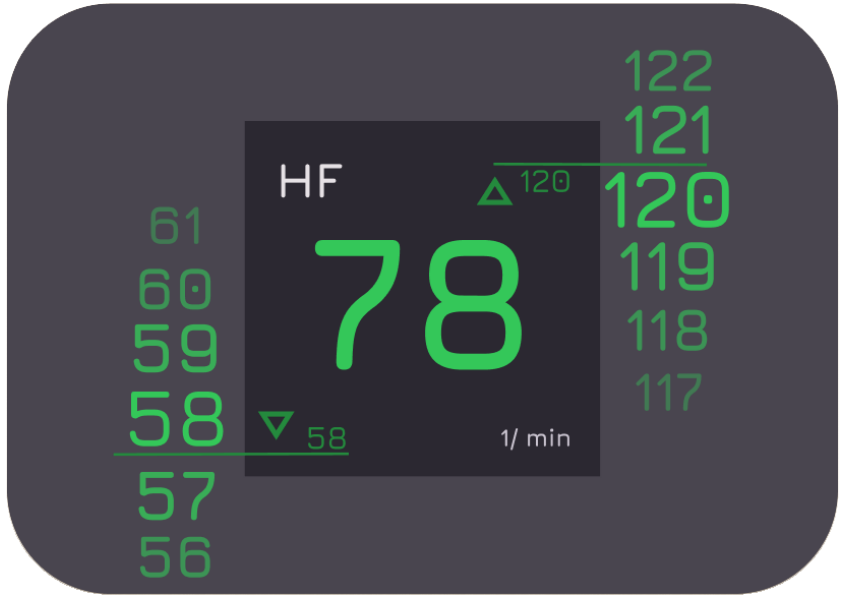
Trailer

User Friendliness

Old Interface

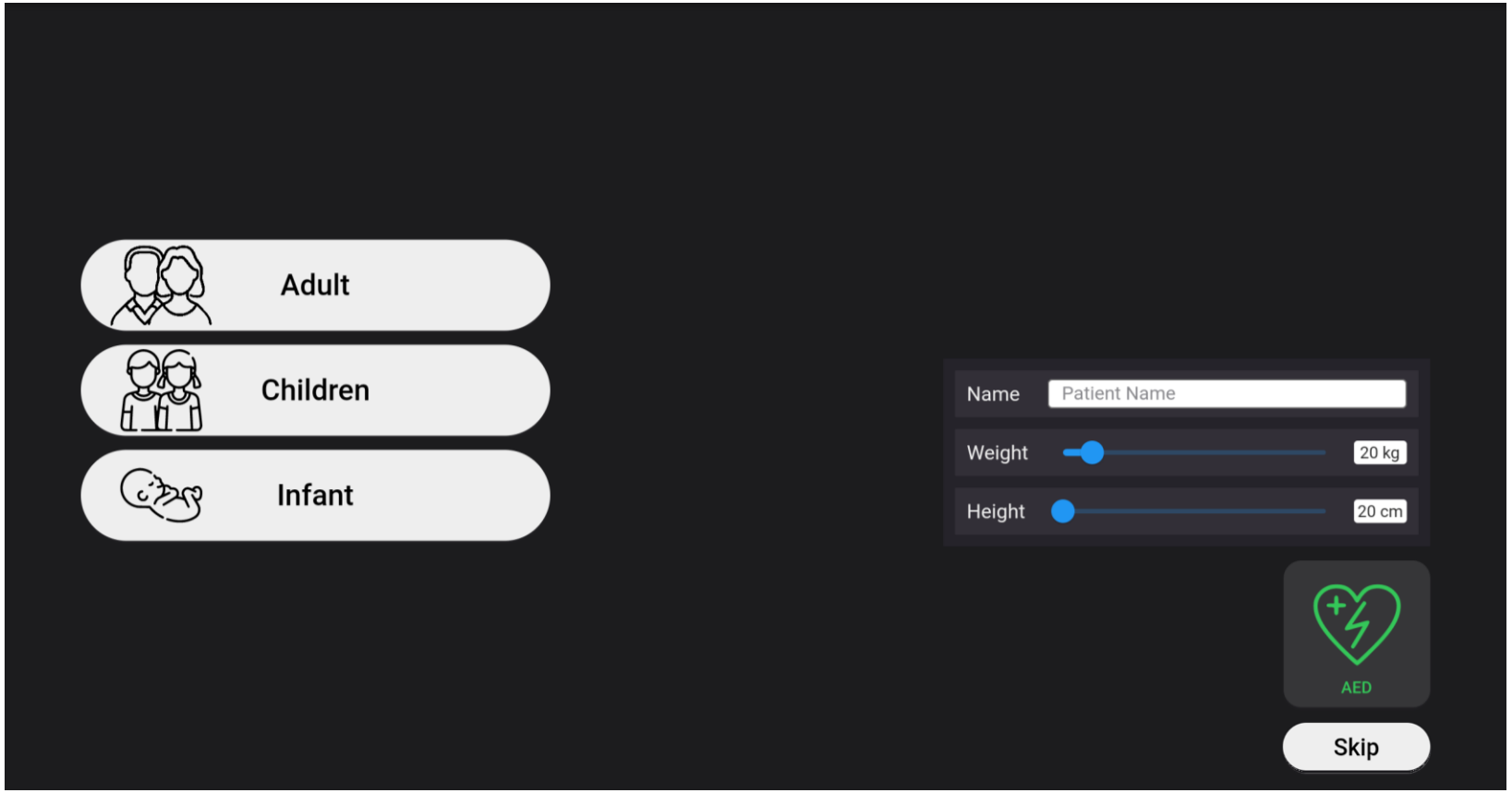


New Interface

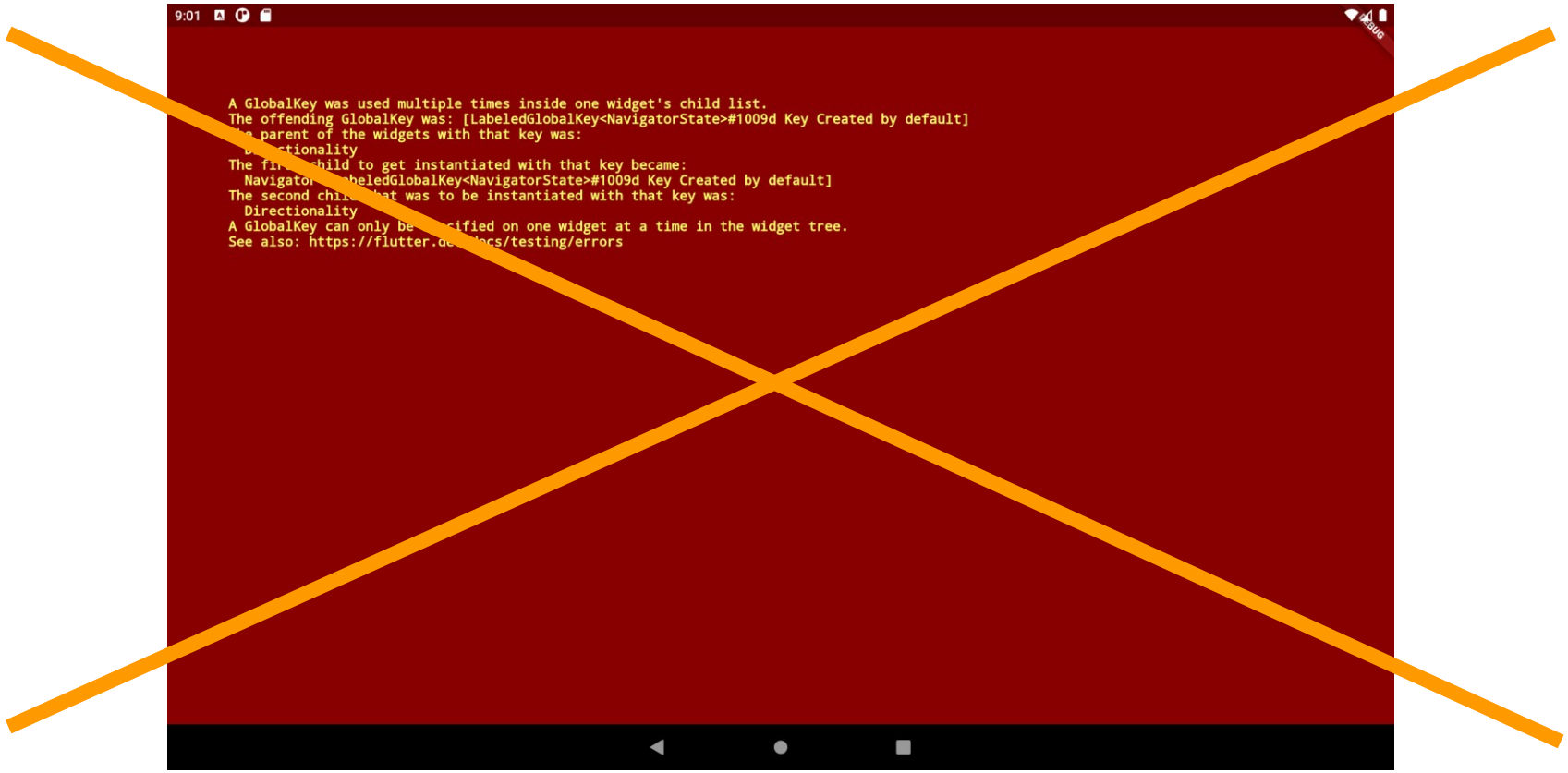


Consistency & Familiarity

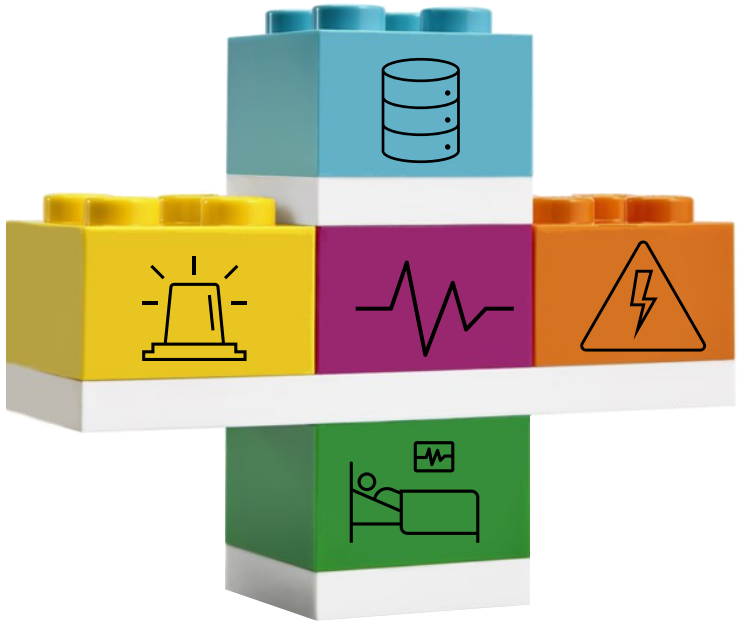
Reliability



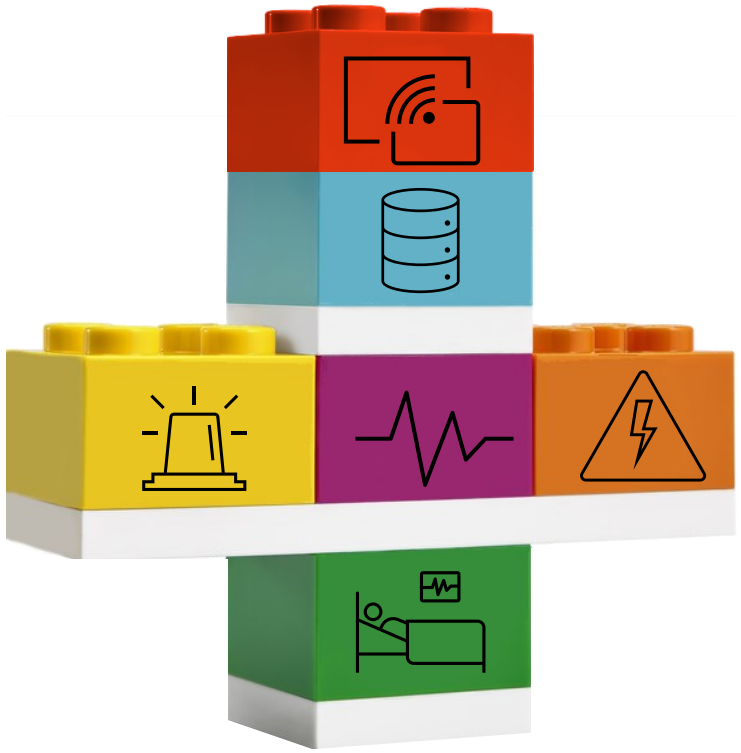
Reliability



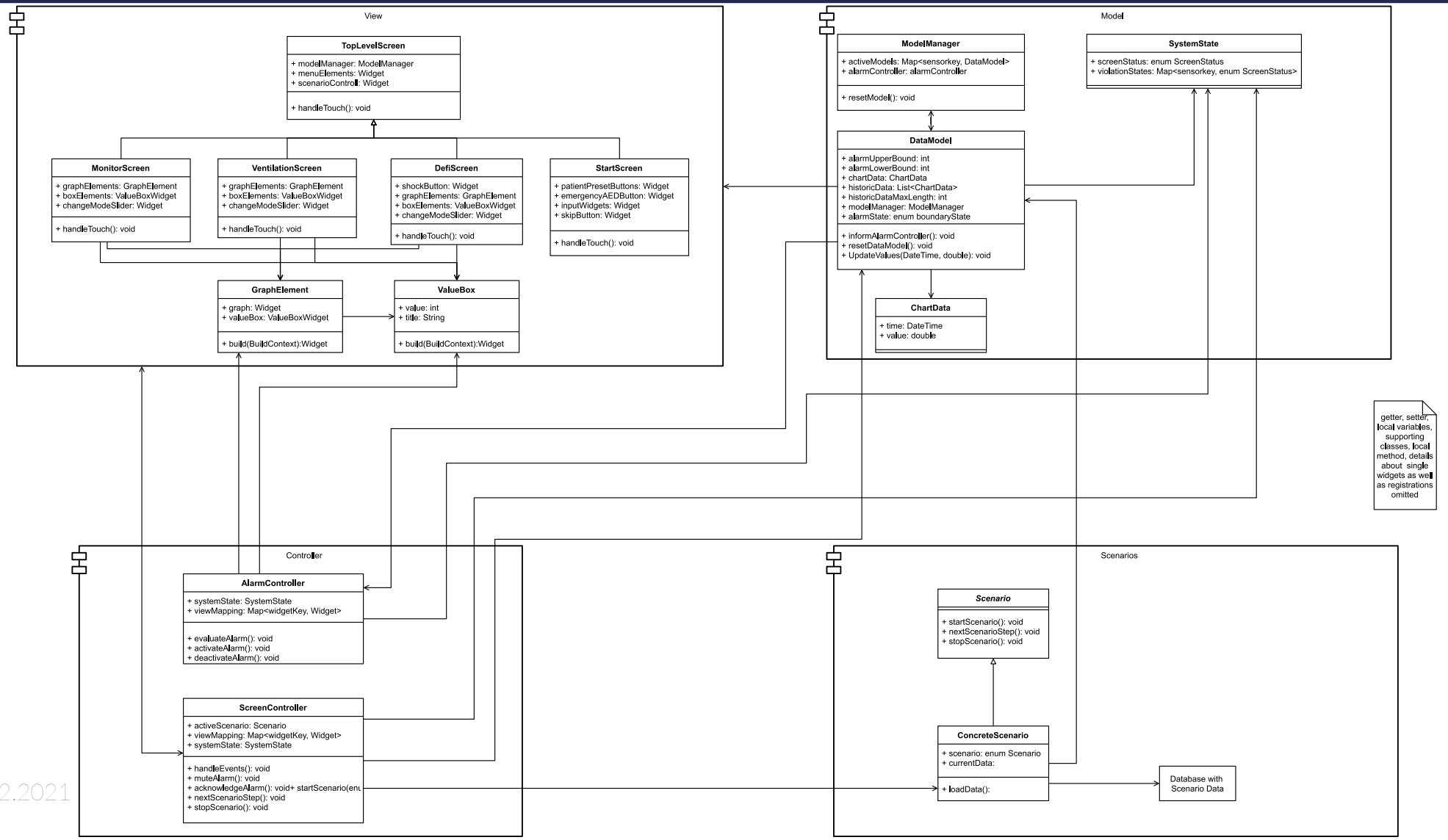
Modifiability



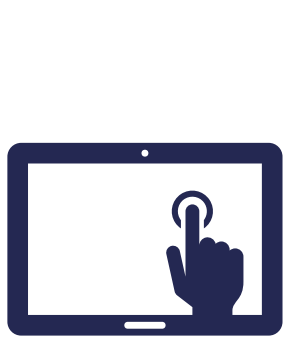
Extensibility



System Design



Purpose of the Components



View

Screens
- Handle user input
- Display data
- Play alarms

Model

- DataModel
  - Mocked SensorData
  - Boundaries for alarms
- SystemState

Controller

- AlarmController:
  - evaluate alarms
- ScreenController:
  - handle events

Scenarios

- Simulation data
- Start / stop scenarios

Application Demo

Next Stage: M3

Finish screens and widgets in design

Complete navigation and functions

Develop alarm management with sounds

Fill scenarios with data

Edit trailer, poster and set up website

Deliver a final and functioning app

UKE
HAMBURG