

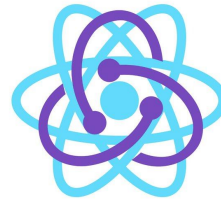
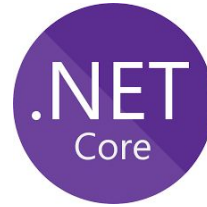
Weatherstation

NVS - MQTT

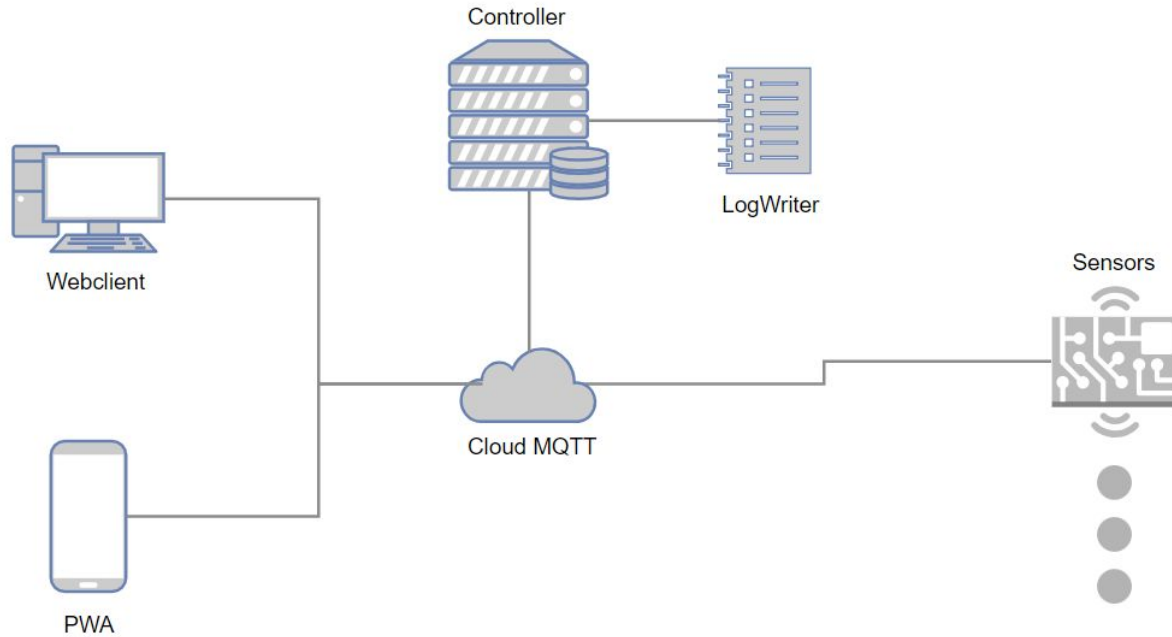
Garn, Gubesch, Herzog, Kaindl

Gliederung

- Controller
- Sensor
- WebClient
- Mobile Client

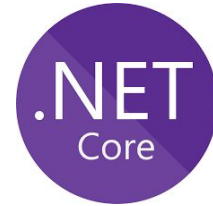


Systemarchitektur



Controller - LogWriter

- Speichert Sensordaten in Datenbank
- Reports für
 - Jahre
 - Monate



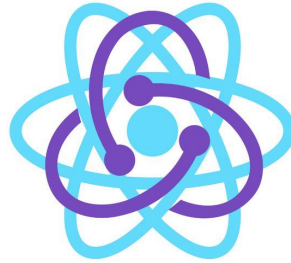
Sensor

- Simulator in Java
- Paho Java Client (Mqtt client library)
- Temperatur, Luftdruck, Luftreinheit, Luftverschmutzung, Luftfeuchtigkeit, Windrichtung, Windstärke, Niederschlagsmenge, Niederschlagsart



WebClient

- React.js
- Redux
- MQTT.js



- Highcharts
- MDBBootstrap



HEROKU

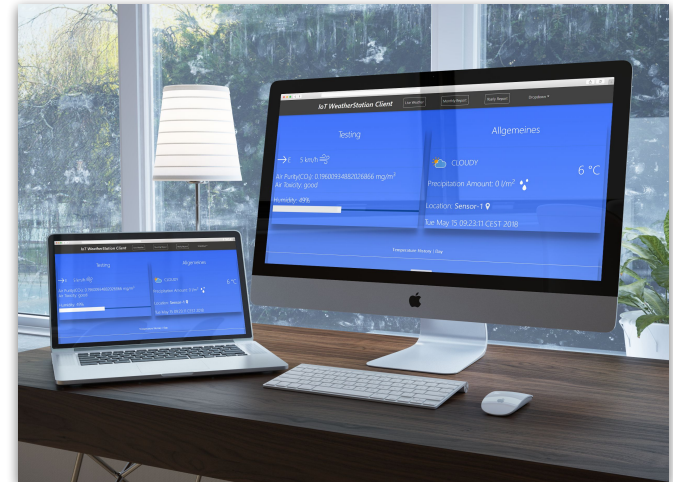
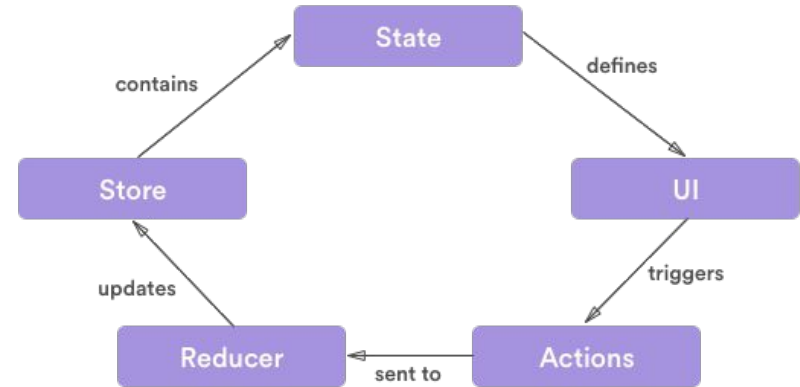


MDB

WebClient

Zum darstellen der Daten des Sensors im Webbrowser

- Homescreen - Live Daten + Tagesverlauf
- Monthly Report - Monatszusammenfassung
- Yearly Report - Jahreszusammenfassung



MobileClient

- Angular PWA
- Bootstrap CSS Framework
- MQTT.js
- Chart.js
- Firebase Hosting
- Lighthouse Testing



Firestore
Hosting



MobileClient

- Homescreen zeigt Livedaten
- Liste aller Sensoren
- Einstellungen

