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HVAC Solution - SeltronHome® powered by Nomnio IoT platform

Business Case – Seltron d.o.o., Maribor

Living progress.

Nomnio d.o.o., Slovenia, EU

Challenges

- Users access their heating systems via mobile and desktop applications.
- Maintenance experts to access to the authorised customers systems remotely to diagnose and troubleshoot or even repair settings remotely.
- Manufacturers to gain analytical data for R&D and production optimisation.

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Solution proposal

- Communication module, which connect to the heating regulation subsystem with additional features (internet provided).
- Connect applications for monitoring, managing, dianose and troubleshot remotely.
- Security threat protection

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First phase

- Communication module
- End-user application

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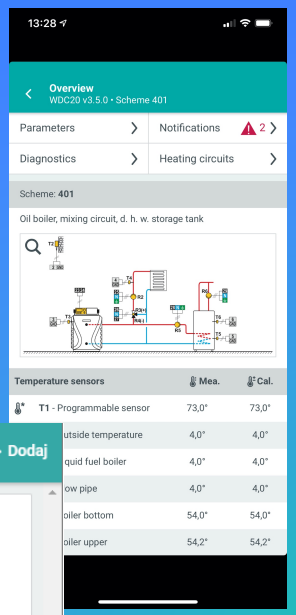
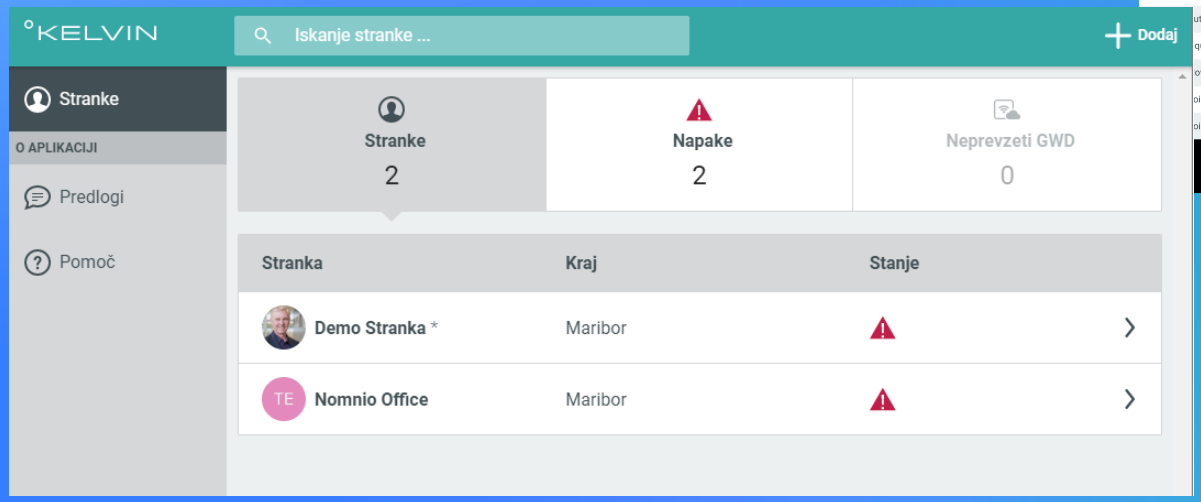
Second phase

- Application for maintenance experts – outsourced partner companies – for the authorised remote access with diagnostic and troubleshooting purpose.
- Data gathering for optimisation of R&D and production.





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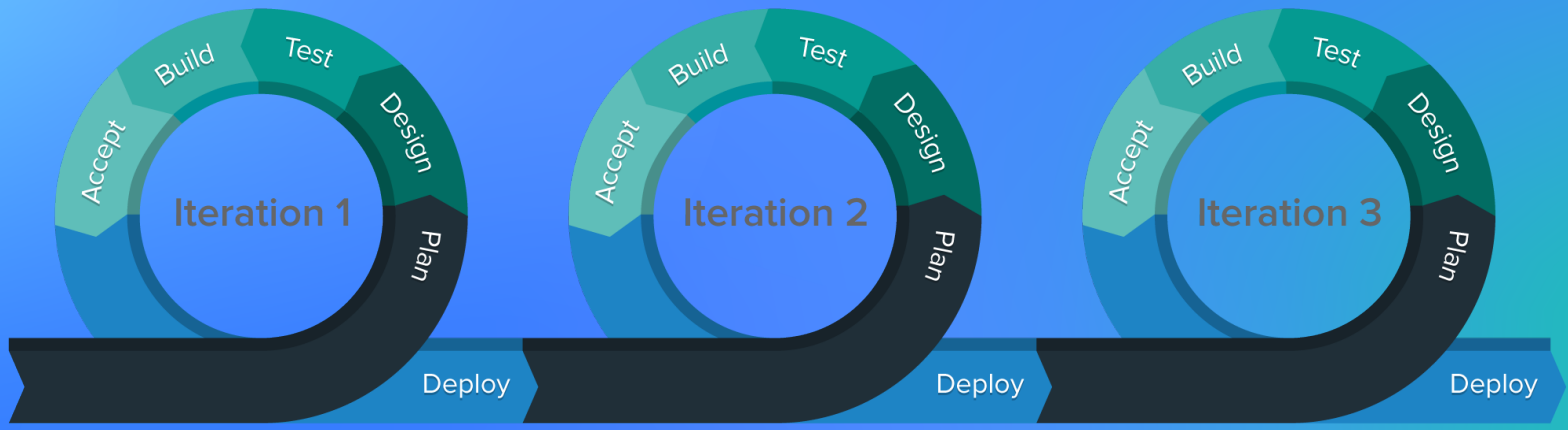
Third phase

- Optimisation and improvements.



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About Nomnio d.o.o.

- Slogan: Living progress.
- NOMNIO grow from 3 member into 15 and still growing.
- Our core business is based in IoT (IIoT) development,
  - We also reach: BIO informatics, Computer vision…
  - And involved in projects like smart sport equipment (SKI) , smart cities (Water management…), smart industry equipment (metering, grinding, quality management…), smart public transport (buses…)
- Microsoft partner.

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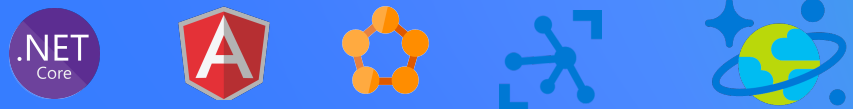
Our main technology used

- MQTT, WEBSOCKET & COAP for devices-cloud communication , COAP also for device-device communication, WEBSOCKET for mobile devices and cloud communication.
- Backend is developed with .NET CORE (architecture with microservices), which are running on Azure Service Fabric Cluster.
- Frontend (applications, hybrid applications) are developed with IONIC (Java Script - Angular).
- Azure IoT HUB insures MQTT communication with devices and monitoring over our devices.
- We also use Cosmos DB, Azure Table storage, Key vault, Notification hub…



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Recap

- Our platform covers from 60% - 80% of work already done!
- What is left to work on – your specifics.

- High security supported by Azure built-in controls.

- Scalability and predictive expenses.
- Pay as you grow model.

- Last but not list: positive team!

Living Progress.

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