nagarro

ÖSTERREICHISCHE
BUNDESFORSTE

Nurturing the community with digital avenues

Sector

Public

Company

Österreichische Bundesforste

Employees

1,000

Project Technology

PWA (Progressive
WebApplication
in Azure Cloud),
C#, ReactJS

**Project
Start**

Building a unified platform to streamline communication and administration among the hunters, hunting area specialists, and customers of the Austrian Federal Forests.

Client Profile

As the natural enterprise of Austria, the Austrian Federal Forests (ÖBf) look after every tenth square meter of the country. They care for, protect, and manage the natural resources of Austria - lakesforests, mountains – sustainability being the highest principle, meaning borrowing only as much from nature as can grow back and test environment.

The Austrian Federal Forests, as the largest provider of nature reserves, are responsible for 10 percent of the national territory, including 74 of the larger lakes and 15 percent of the forest area. The total area, according to operational forest surveying, approximately 850,000 hectares, of which forest area is approximately 510,000 hectares. They currently hold 12 forests and 2 national parks and an overall 15. The hunting area or the hunting grounds is approximately 840,000 per 1,000 ha.

**6 Month
Project
Duration**

Streamline planning and communication
for improved sustainability

The hunting clients of the Austrian Federal Forests play a very special role in Austria. They are jointly responsible for keeping the fine balance between forestry, hunting, and protecting nature.

The support and administration of the hunters, hunting area specialists, and customers of the Austrian Federal Forests was done on different communication channels. There was no single platform serving the demand of regular communication updates on for instance the important regulations or the latest news. To streamline and intensify regular communication, a state-of-the-art communication platform was required. But not only that, additional services like shooting plans to steer hunting activities or geo location services for orientation in the respective hunting area were needed as well.

The requirement was a progressive web application, the perfect tool to address various business needs as well as offer extended services once established within the community. The application would not replace the personal contact with the hunters, but only reduce administrational efforts and slim down the time consuming, repetitive, and area-specific processes. In addition, it would help nurture the community through digital channels. The application would provide detailed map material, shooting plans, and additional features that motivate hunters to fulfill the shooting plans and share the necessary reporting.
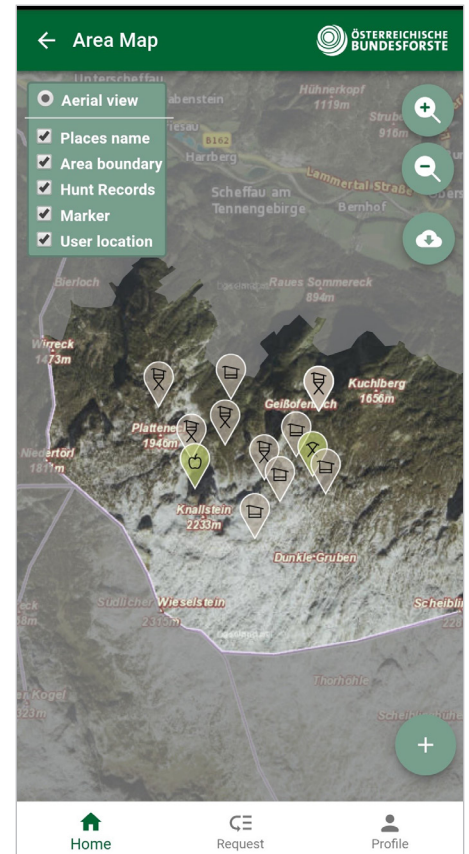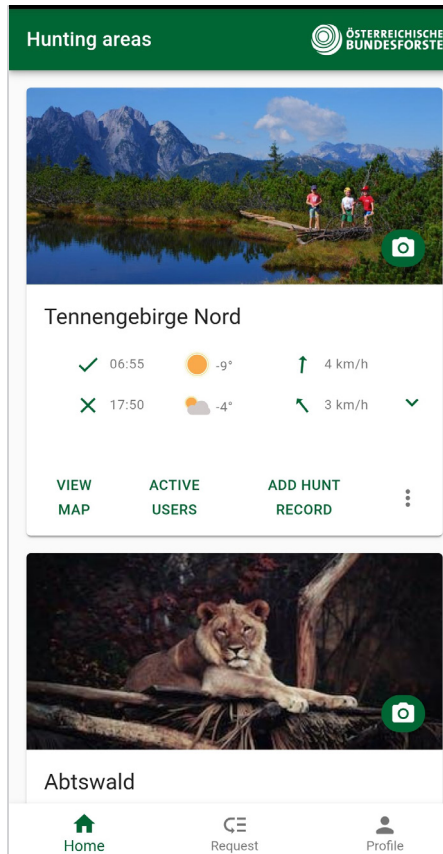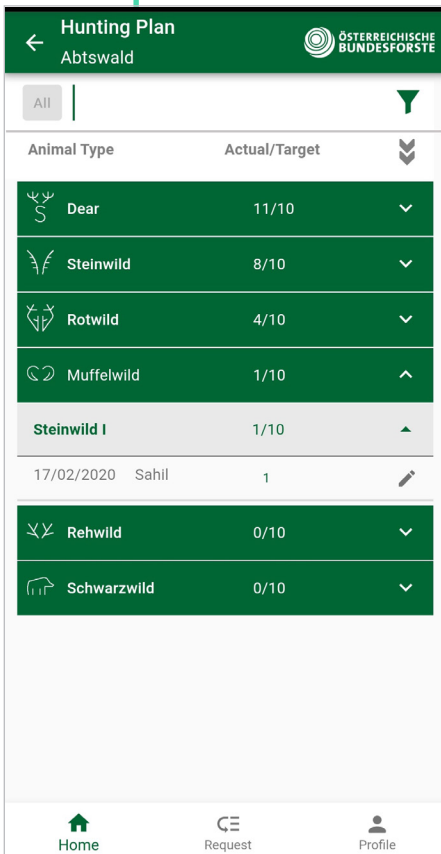
The solution

Building a multi-layered progressive web application

Nagarro implemented a progressive web application (with online and offline functionality) with geo data integration that provides map material (hunting records as pins on the map, statistical reports) and important functions for planning and management of the hunting areas.
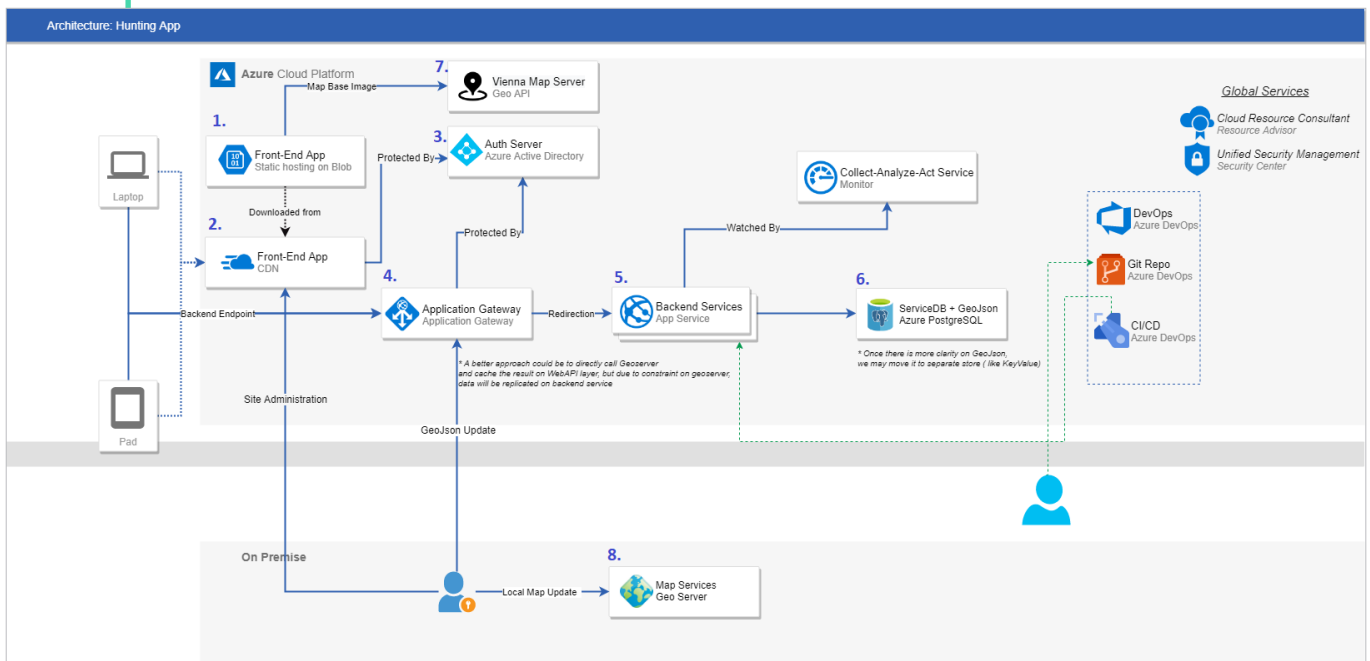
Key application functions & features

- Administration area for user management, plans, and hunting area data

- Customer area with map functions, statistical reports, hunting plans and reporting

- Weather data services, map pin system, and data on historical evolution of the hunting area API administration via Swagger for the connection to the SAP backend

- Azure Cloud features available and Geo Server integration

- Multi-layered permission concept for easy setup of customers and employees

- Multi-language support, currently in German and English
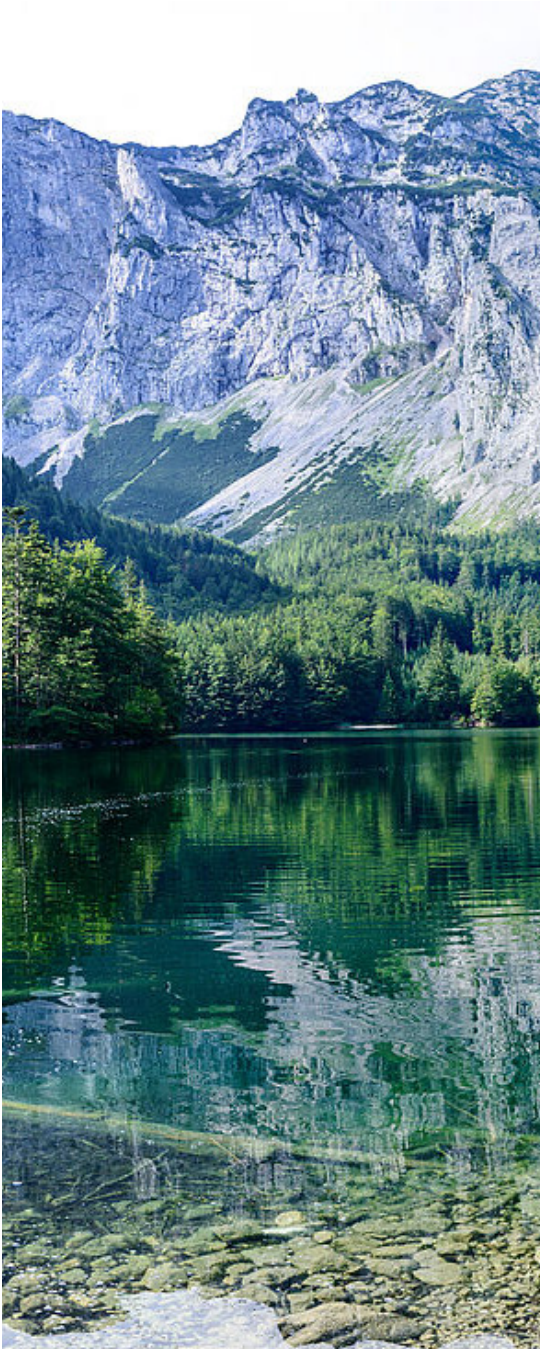
The architecture:

- Front-end app deployed as a static website on a storage account to save on CPU processing cost

- Cloud-based Azure Active Directory B2C used when single sign-on is required for multiple apps

- .Net Core Web API for all the CRUD operations to be performed by the front-end application and update SAP system

- Relational Database is exposed as a managed service on the Azure Cloud which is used to store data pertaining to the hunting areas and hunt records

Architecture: Hunting App

Client benefit

- State-of-the-art service for customers of the Austrian Federal Forests

- Close customer ties and new target audience through modern and social aspects

- Increased security for hunters to make transparent who is in the same hunting area

- Transparent view of the shooting-plans as well as the hunting as per ethical principles

- Streamlined communication for hunting records

- Historical report creation of hunting records using geo-data

- Add-on client service with detailed map material containing common map features

- Online and oine functionality as of given network coverage in the hunting areas

- Azure Cloud advantage during development and administration

Client Testimonial

"With Nagarro, we were able to create a modern solution in a very short time in an agile project approach, making it easier for us to work with our hunting community. The project has allowed us to bring new technologies into the company and we are now well positioned to meet future requirements."

Rudolf Vierthaler, Deputy Head of IT, ÖBf

About Nagarro

Nagarro helps clients transform, adapt, and build new ways into the future through an entrepreneurial, agile, and caring mindset. We excel at digital product engineering and deliver on our promise of thinking breakthroughs. Today, we are 8,000+ experts across 24 countries, forming a Nation of Nagarrians, ready to help our customers succeed. www.nagarro.com