elinext

Company Profile

Internet of Things

Elinext Company Overview

Since 1997

In custom software development

7

Development centers in Europe and Asia

700+

In-house employees 85% are software engineers

300+

Clients worldwide

Focus on specific domains:

- Web & Mobile Apps
- UI/UX Design
- CRM & Customer Engagement

- ERP & Asset Management
- IoT & Infrastructure Management
- Cloud Computing & SaaS Development

- Blockchain
- DevOps

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Technologies

Backend

Java

Python

Node.js

.NET/C#

C/C++

Solidity

PHP

Frontend

React.js

Javascript

Angular

Typescript

Vue.js

Mobile

Kotlin

Swift

Flutter

React Native

Cloud

AWS

Azure

GCP

Digital Ocean

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Quality Certified

Ensured by Elinext Management System:

Certified Quality Management

Certified Information Security Management

Google Cloud Certified

AWS Certified

MS Azure Certified

Proven by dedicated external audits:

- Code Review
- Static Analysis
- Dynamic analysis
- QA and unit-tests
- Continuous Integration
- Rules and processes

Continuous competence development:

- Best-practice and knowledge sharing in onboarding process.
- Professional trainings, including external courses.
- Developer conferences and international hackathons

We develop IoT solutions strictly in line with product/process quality and security standards, including:

ETSI EN 303 645

ISO 27001
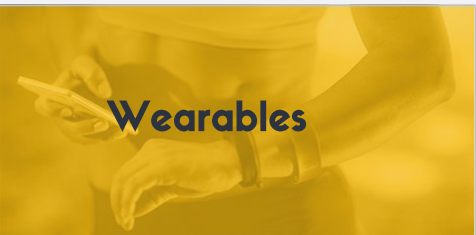

IEEE 802.15.4

IEEE 802.11

GDPR

CCPA

ISO 26262

IEC 61508

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IoT Solutions for the Consumer Segment

Smart Homes

✚ Smart lightning	✚ Temperature control	✚ Smart home appliances
✚ Doorbell cameras and motion detectors	✚ Smart meters and connected thermostats	✚ Integration with voice-activated assistants

Connected Cars

✚ Remote diagnostics and predictive maintenance	✚ Advanced Driver Assistance Systems (ADAS)	✚ In-vehicle infotainment systems
✚ Vehicle telematics	✚ Driver safety systems	

Wearables

✚ Fitness and activity tracking	✚ Sleep cycles tracking	✚ Real-time health alerts
✚ IoT sensors for health monitoring	✚ Fall detection and emergency assistance	

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IoT Solutions for the Enterprise Segment

Smart City

- Energy-efficient street lighting systems
- Public transport fleet management
- Smart bins and waste management solutions
- Connected security cameras
- Energy monitoring and distribution
- Smart water meters and sensors

Industry 4.0

- Smart machinery solutions
- IoT sensors for condition monitoring and remote diagnostics
- Overall Equipment Effectiveness solutions
- Digital twins
- Automated quality control systems

Supply Chain and Logistics

- Real-time vehicle tracking solutions
- RFID-based inventory tracking systems
- Temperature and humidity control solutions
- Warehouse automation and smart shelving solutions
- Real-time route optimization solutions

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IoT Solutions for the Enterprise Segment

IoT in Retail			
	+ Beacons and location-based solutions	+ Automated self-checkout systems	+ Contactless payment solutions
	+ Foot traffic monitoring solutions	+ Smart mirrors for virtual try-on	

IoT in Healthcare			
	+ Remote patient monitoring solutions	+ Smart hospital beds	+ IoT-enabled telemedicine platforms
	+ Connected drug-delivery systems	+ Connected medical devices (smart insulin pens, glucose monitors, etc.)	

IoT in Hospitality			
	+ Automated check-ins and contactless entry systems	+ Smart TVs and entertainment systems	+ Location-based services
	+ Automated room control solutions	+ Integration with voice assistants	

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Why Elinext

1

Advanced Analytics

Harness our analytics know-hows to turn data-driven insights into powerful outcomes — optimized customer experiences, enhanced product performance, streamlined operational efficiency, and new revenue opportunities

2

Cloud Expertise

Tap into our cloud expertise for fast data transfer to devices and apps or secure cloud storage with seamless on-demand access. Our custom applications process sensor data in real-time or on-demand, ensuring reliable data management.

3

3rd-party Integrations

Join forces with a skilled integration partner to streamline data flow between devices and cloud systems, enhance scalability, and future-proof your IoT ecosystem.

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Payment Kiosk For Global Parking Provider

A EU-based provider of parking payment solutions

Elinext engineers delivered a solution that works as a layer providing secure operating conditions between all external applications and the payment hardware.

[Learn More ->](#)

Features

- A layer that interacts with device like credit card terminal, coin selector, printer;
- A layer interacting with web services (payments, tickets, etc.);
- A layer to calculate the variety of parking tariffs;

Technologies

- JAVA
- JENKINS
- ANDROID SDK
- DEVOPS
- GIT

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Plant Care App Connected With A Garden Tech Gadget

The client approached Elinext to build a web and mobile solutions to enable plant lovers to control light intensity, ambient temperature, soil moisture, water level, and other parameters.

Learn More ->

Features

- 6,000+ plant database with detailed information
- Ability to manage connections to various sensors
- Live mode displaying a flower's current conditions
- A personal garden
- Localization into different languages

Technologies

- PHP
- OBJECTIVE-C
- COCOA TOUCH
- BACKBONE.JS
- JQUERY
- UIKIT
- HTML5
- CSS3
- AJAX
- OPENGL

CLIENT

A Paris-based IT products manufacturer company
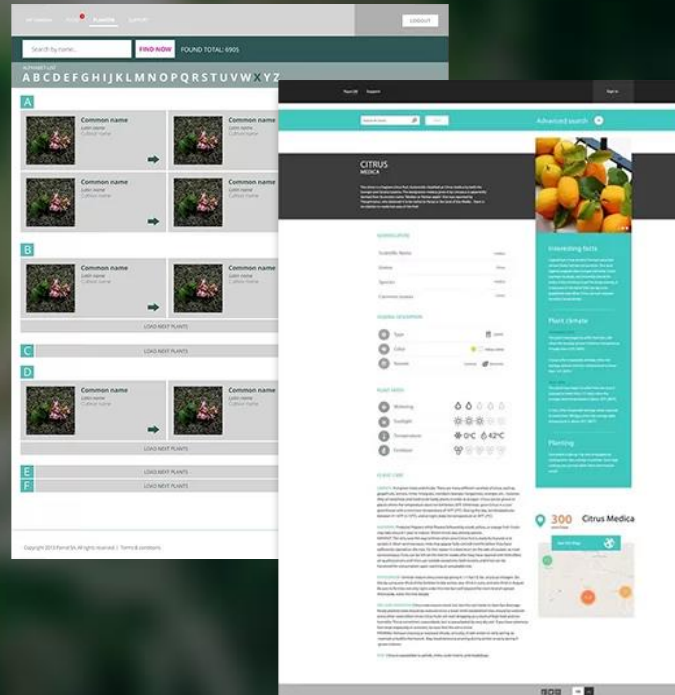
Wireless Camera Management App

A team of 9 Elinext engineers developed an iOS smart home app that enables users to control devices like cameras, doorbells, and lights from their smartphones. The app has been downloaded over 7 million times, with 1.4 million daily active users and a high satisfaction rating of 4.5 stars.

Features

- Device management for adding and removing cameras, doorbells, and lights
- Event-based actions
- Recordings management
- HomeKit integration and voice control via Siri

Technologies

- C
- OBJECTIVE-C
- COREDATA
- C/C++
- IOS
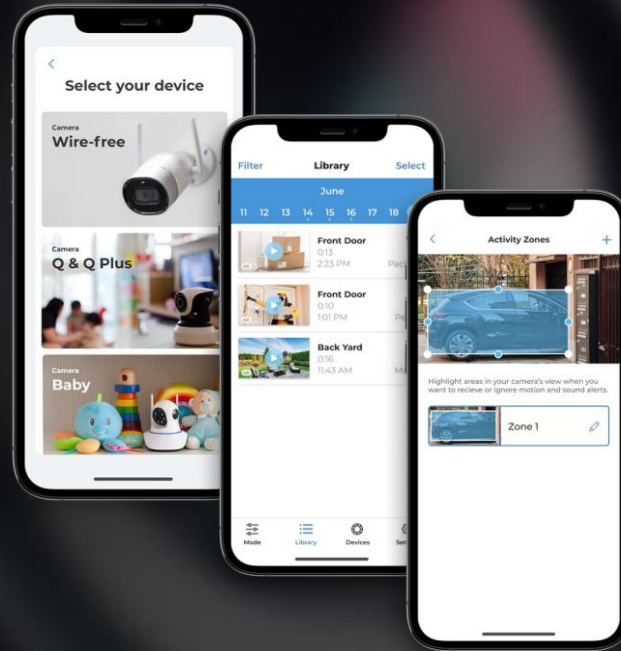
Mobile App for Drone Control

Elinext developed a mobile application for a French startup to control mini-drones, enabling users to manage flights, capture media, and use a VR mode for an immersive 3D experience.

Learn More ->

Features

- Drone flight control via on-screen joysticks or external gamepad
- Live video streaming with recording options
- Media management for photos and videos captured during the flight
- Firmware updates for drones and accessories

Technologies

- JAVA
- C++
- RETROFIT/ OKHTTP
- CORE DATA
- OBJECTIVE-C
- C/C++
- SQLITE
- NSURLSESSION
- GOOGLE VR SDK
- OPENGL ES 2.0
- GSON LIBRARIES

Operating System For An Automative Head Unit

The Elinext team was tasked with an ambitious project of creating car audio infrastructure from scratch. The scope of work included the development of a system environment, core system apps and redesign of third-party applications.

Learn More ->

Features

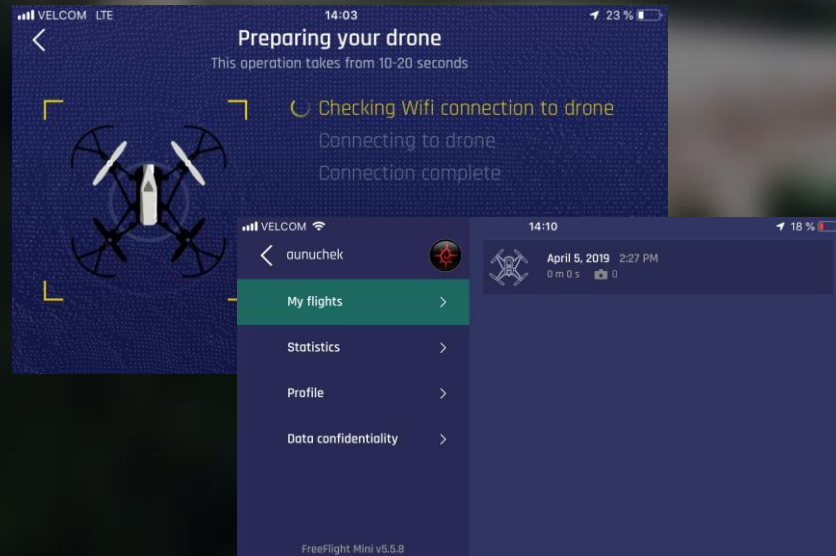- Adding voice recognition to the Asteroid Market app for music search
- Audio player control (start, stop, fast-forward, rewind)
- Monitoring traffic jams for a specific location on a map

Technologies

- C++(NDK)
- C/C++
- MOBILE
- ANDROID SDK

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A EU-based company specializing in voice recognition and signal processing for vehicles and drones

09:41

ASTEROID Widget

Display the map
Enable traffic map

Zoom level
Select a zoom level for the map

Refresh rate
Map update frequency

Save

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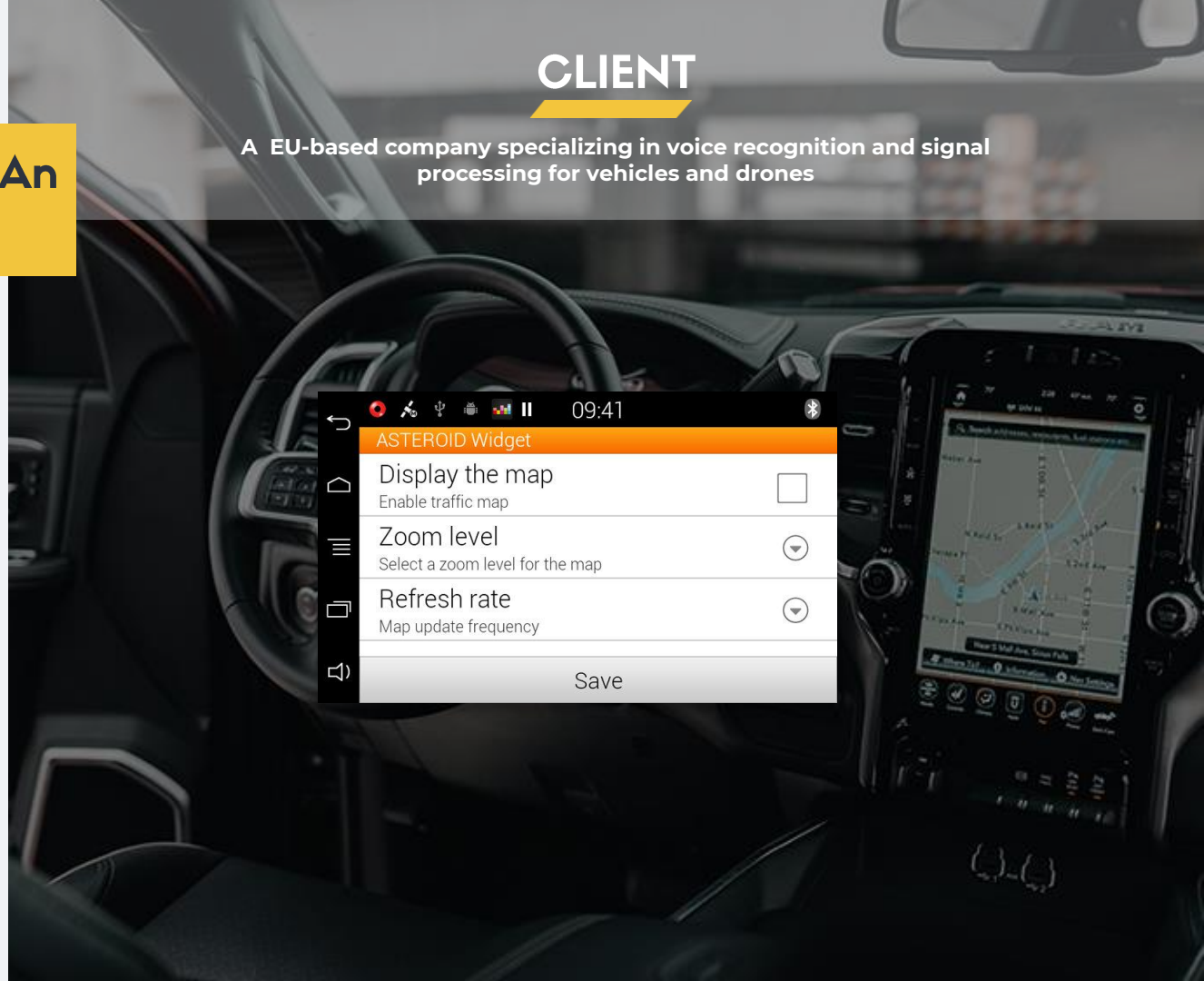
Real-Time Data Insights Of Machines Performance

The project is a robust platform that obtains vital operational data directly from a factory machine and offers actionable insights to improve the Overall Equipment Effectiveness.

Learn More ->

Features

- Collecting data from edge devices
- Analyzing raw machine data
- Role-based access control and data access control
- Interactive machine data visualization
- Real-time data update support based on SignalR

Technologies

- C/C++
- ANGULAR
- .NET
- ASP.NET
- S3
- PYTHON
- SIGNALR
- MYSQL
- DYNAMODB
- DEVOPS

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A US-based manufacturing company

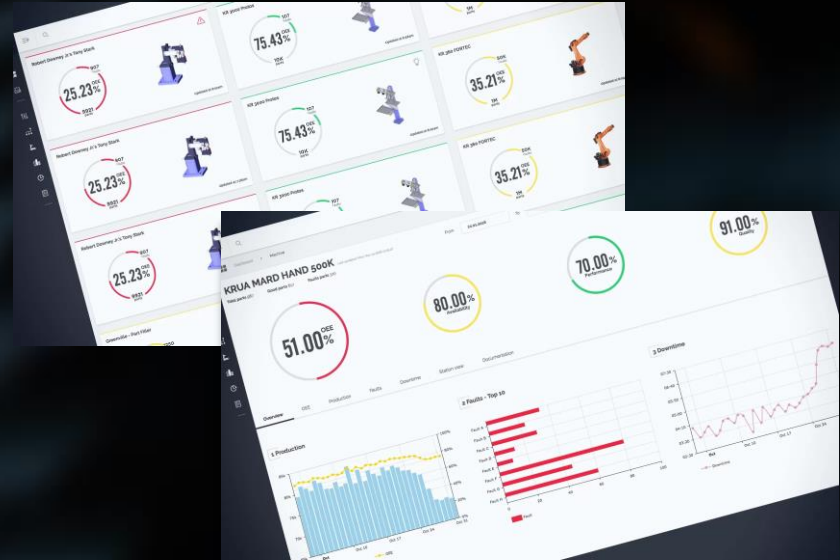# Microservice Software for Collecting and Analyzing Data

A healthtech startup that developed the world's first odor perception platform reached out to Elinext to help develop new microservices and provide support for their existing infrastructure.

Learn More ->

Features

- Notification service for notifications management and tracking
- Fleet management service for device management
- OLAF Hub service for managing experiments and collecting data
- Annotation service for data labeling
- Commercial and Domestic Entities Service

Technologies

- GRPC
- NEST.JS
- KAFKA
- REDIS
- KEYCLOAKEST
- THINGSBOARD
- LINUX
- MACOS
- AWS
- REACT

Payment Processing Solution for Restaurants

Elinext developed a tablet-based payment system, featuring an app for an Android tablet and a web admin panel. The solution overcomes hardware challenges and enables visitors to order food in a convenient and secure manner.
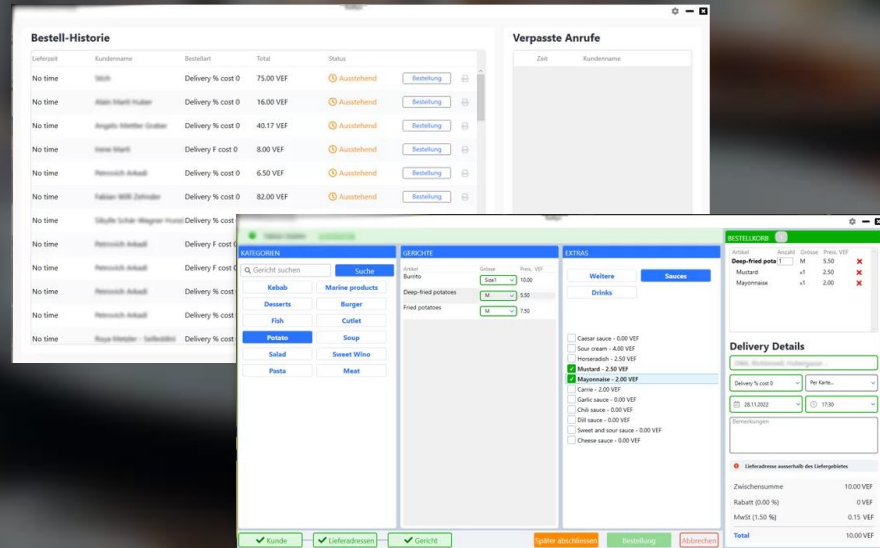
Learn More ->

Features

- Android tablet app: menu management, food catalog, shopping cart, split billing, credit card payments, feedback options
- Web admin panel: cafe network management, menu and prices management, multilingual support, and statistics

Technologies

- JAVA
- .NET
- ASP.NET MVC CORE
- PAYMENT SDK
- ANDROID SDK
- JQUERY
- ENTITY FRAMEWORK CORE

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Applications Suite For A Hands-Free Device

The project is an iOS and Android mobile app that enables users to communicate with a hands-free car kit using Bluetooth connection of their phones.
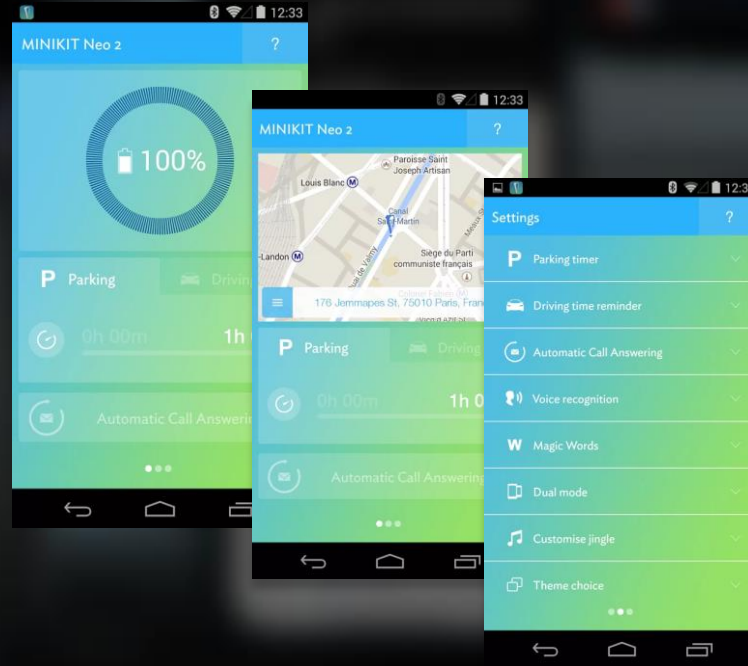
Learn More ->

Features

- Showing the car's location on the map and sharing coordinates with other users
- Driving time reminder
- Parking timer
- Voice recognition
- Auto-reply SMS.
- The possibility to connect 2 phones to Minikit Neo

Technologies

- JAVA
- OBJECTIVE-C
- IPHONE SDK
- ANDROID SDK

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A provider of telecom solutions for the automotive industry

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LiDAR Management Solution

A Swedish company specializing in installing and maintaining light detection and ranging devices

Within six weeks, the Elinext team delivered a robust interface to enable end users to manage the LiDAR systems installed on their premises / equipment. The interface consists of two modules: the Configurator and the Wizard.
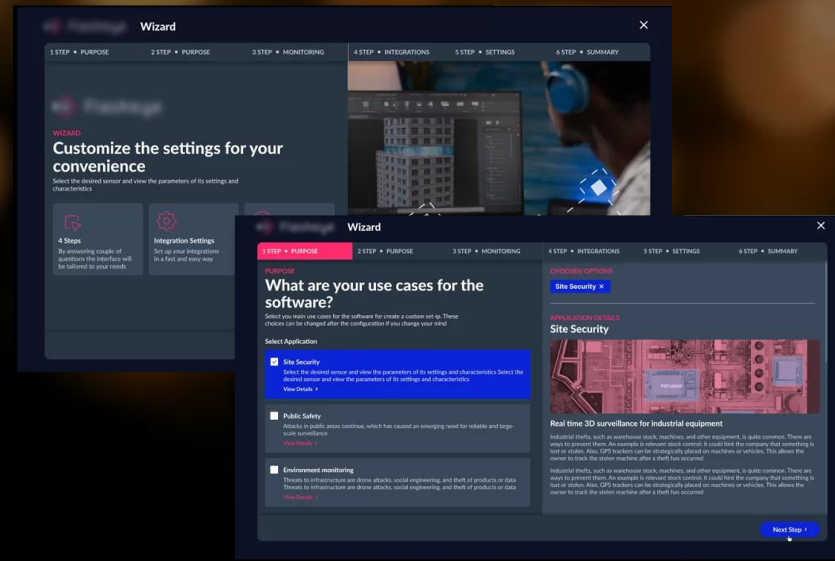
Learn More ->

Features

- Integrating the Wizard with the user's system (a CCTV circuit, a data server, etc.)
- Calibrating sensors in the Configurator
- Organizing sensors into groups for easy monitoring
- Custom localization with specific fonts and text files

Technologies

- JAVA
- ANGULAR

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Navigation App For An Automotive Head Unit

The project is an all-in-one dashboard widget application that displays traffic around the current location or time and has a direct access to the main features of the ASTEROID Smart and Tablet.
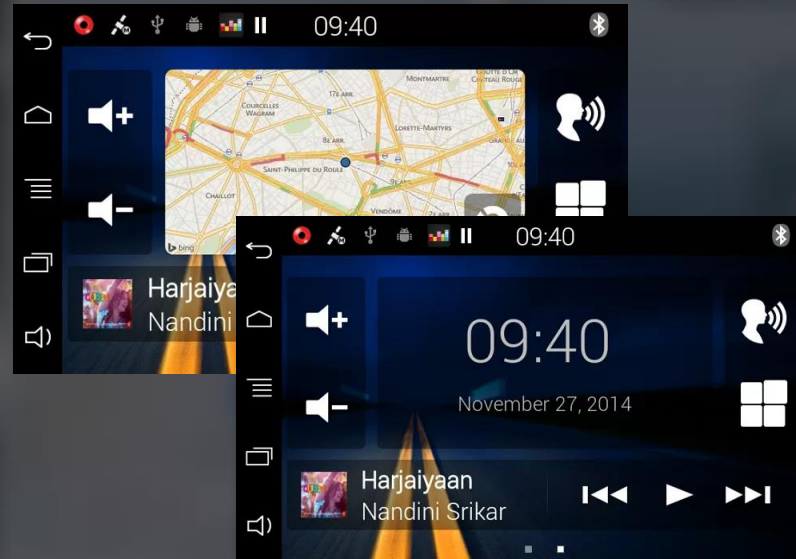
Learn More ->

Features

- Displaying traffic data using Bing traffic service
- Current date and time
- Basic controls for music playback
- Shortcuts to Voice Recognition system and Applications menu
- Day/Night mode
- Localization into 21 languages

Technologies

- JAVA
- OBJECTIVE-C
- IPHONE SDK
- ANDROID SDK

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Personalized Lighting Control System

Elinext developed a personalized lighting control system, utilizing CSRMesh network technology to deliver a cost-effective and flexible IoT solution. The system adapts lighting preferences based on user behavior and can be expanded to include new functions.
Learn More ->

Features

- Badge-based lighting control based on low-energy BLE technology
- CSRMesh network for communication
- A gateway based on based on Raspberry Pi model B
- Data collection
- Over-the-air updates

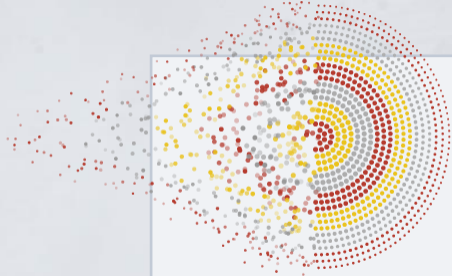## Technologies

- JAVA
- C++
- C/C++
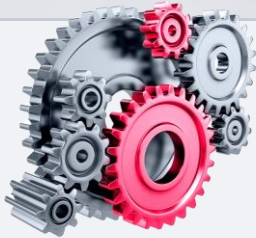- ANDROID THINGS
- BLE
- CSRMESH

Solutions We Deliver

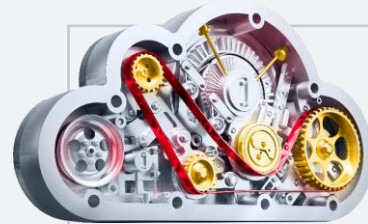**Data Management & Big Data**

Business Intelligence / Analytics

Artificial Intelligence, Machine Learning, Robotic Process Automation

Quality Assurance

Internet of Things

Cloud-Solutions

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Cooperation Models

Fixed Cost

- To freeze project costs having a very detailed scope of work and schedule

- To avoid investing too much time in budget control and project tracking

- To develop an MVP or a small-scale product under $50,000 USD

- To have a high level of predictability

Time and Materials

- To be agile and adapt quickly your product to the market demand and internal needs

- To control the project costs and progress but it is difficult to define upfront scope, schedule and scope outlines

- To decrease costs by saving money calculated by the IT vendor for possible project risks

Dedicated Team

- To extend your team's capacity

- To add specific knowledge or skills to your team

- To speed up your development process quickly

- To rely on the vendor's dev team as if it was sitting in our office

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Quality Delivered by the Team
(Agile Model)

Discovery and Design phase

- Team setup
- Plan and prepare
- Refine requirements (Functional and Non-Functional)

- Design
- Architecture
- Infrastructure
- Product backlog

Development – 1 sprint (1-2 weeks) – recurring till the final delivery

- Sprint backlog and planning
- Feature(s)
- "Ready for Release"

- Sprint backlog and planning
- Feature(s)
- "Ready for Release"

Initial Analysis of requirements, planning, UI/UX Design (1-4 sprints):

- Proof features and their priority by value and complexity

- Design a truly flexible and future-proof solution

- Plan an effective communication model

- Ensure further possibility to develop several services/ features in parallel
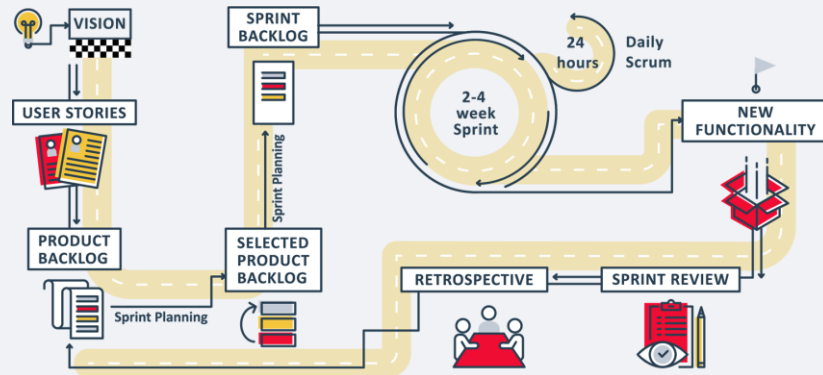
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Let's set up a powerful collaboration!

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