



# Company Profile

Healthcare



# Elinext Company Overview

>26

Years in custom software development

7

Development centers in Europe and Asia

700+

85% are software engineers

300+

Clients worldwide

## Development Languages

Java, PHP, .Net, C#, C++, JavaScript, Python, iOS, Android, Cross-platform

## 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

# 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 medical solutions strictly in line with product/process quality and security standards, including:



ISO 13485



HIPAA



PIPEDA



PHIPA



IEC 62304



FDA 21 CFR Part 820



GDPR



DICOM



NCPDP



HL7



ONC

# Healthcare Clients



Multiple projects, one of which is a SaaS application with a streamlined, intuitive interface for doctor workflow management, electronic health records management, billing, and scheduling;

Ongoing cooperation for 8 years

Dedicated team of 8 developers and QA engineers;

Agile-based SDLC



Cardio report suit with PACS and hemodynamic solution for collecting data, signals and images for all invasive and non-invasive cardiology to form a post-operation treatment plan;

Ongoing cooperation for 4 years

Dedicated team of 9 developers;

Agile-based SDLC



Multiple projects related to feed pipelines management, aggregation and anonymization of PHI, risk measurement, clinical trials research and healthcare data analytics;

Ongoing cooperation for 4 years

Dedicated team of 22 developers and QA engineers;

Agile-based SDLC



Multiple projects, one of which is a clinical trials management software that allows life sciences companies to streamline the execution and commercialization of global clinical trials;

Ongoing cooperation for 12 years

Dedicated team of 50 developers and QA engineers;

Agile-based SDLC

# Healthcare Expertise

1. Development of EHR/EMR from scratch
2. Integration with ready EHR/EMR
3. Integration with PACS, RIS, HIS, CAD
4. Clinic document and workflow management systems
5. PHI anonymization software
6. Patient portals
7. Clinical trials management systems
8. Medical billing software
9. Reconciliation software

## Software For Cardiovascular Care Providers

A French company that supplies industry-specific software for cardiovascular care providers across the globe.

A dedicated application for cardiovascular care providers used to manage their stock, appointments, and electronic health records (EHR).

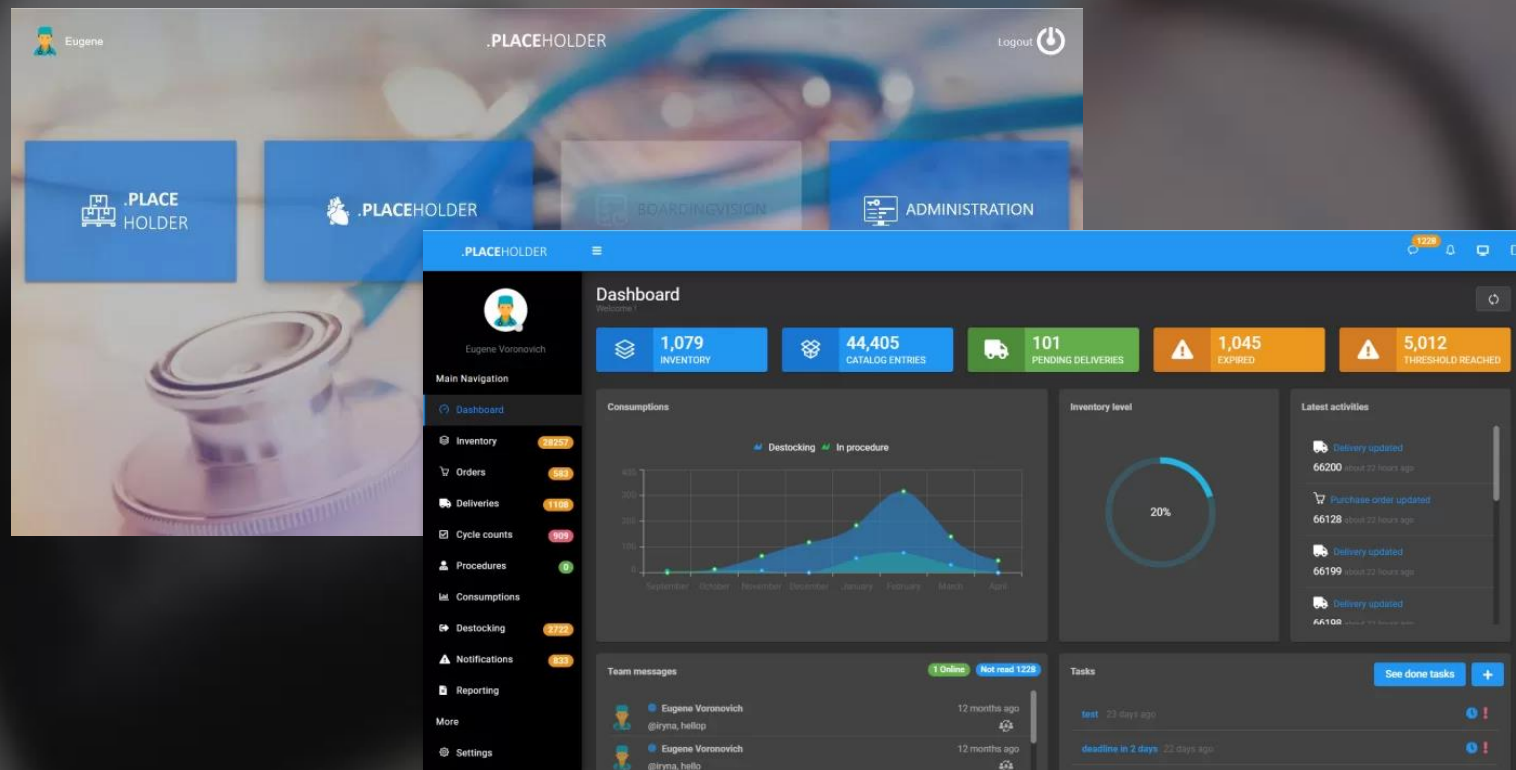
[Learn More ->](#)

### Features

- Stock control (dynamic catalog and statistics of items) filters by data like supplier, expiration date, and technical parameters
- RFID module for item scanning
- Order management system
- Appointment management

### Technologies

- .NET
- ANGULAR
- MONGODB
- MYSQL
- ORACLE
- DOCKER



## Document Management System For Clinical Trials

A USA company that used an outdated solution based on Domino platform and an old ExtJS version.

The main purpose of the system is to simplify the tasks associated with clinical trial documents management. We completely refactored the app to use a modern Origami platform with the latest ExtJS version.

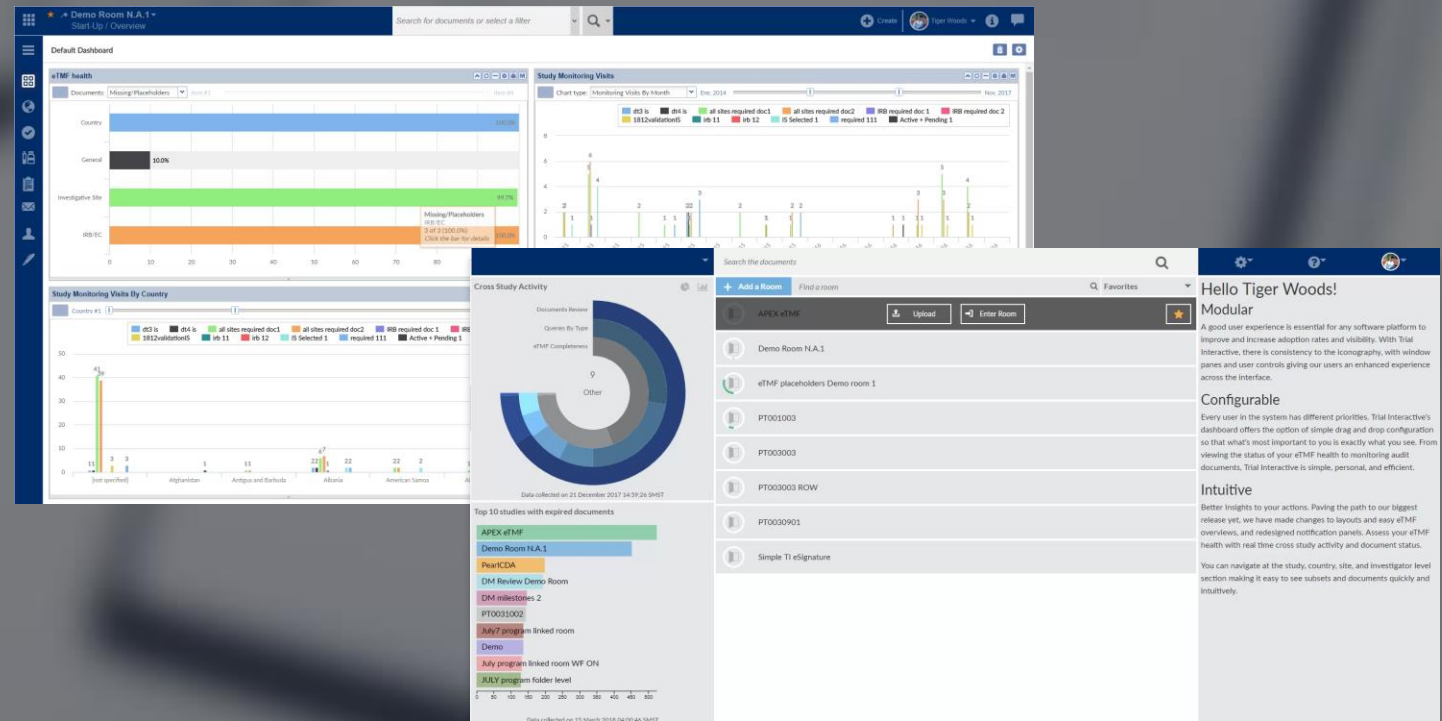
[Learn More ->](#)

### Features

- Users & groups management
- Documents, reports and workflow management
- Charts, graphs, and diagrams creation
- Automatic recognition of a document type
- Integration with a totally new CMS system

### Technologies

- NODEJS
- SAAS
- ANGULAR 7
- FRONT-END
- DEVOPS
- GRAPHQL



## Healthcare Data Anonymization Platform

The solution is a fully functional website and a remote UNIX-server. It enables healthcare organizations to quickly and easily apply a risk-based responsible de-identification methodology. It ensures individual privacy and legal compliance while process management and automatization.

[Learn More ->](#)

### Features

- Project management system
- Visualization when controlling data processing
- UNIX processes management using GUI
- Detailed reports to customer and Data partners
- Data export to PDF or Excel formats
- A safe black-box tool for sensitive data

### Technologies

- JAVA
- SPRING
- MYSQL
- JUNIT
- HIBERNATE
- APACHE

The screenshot displays two main sections of the application interface:

**Risk Details:** This section shows a 'Measurement Result' for '7143\_ValidatedLookupProjN7aa'. A 'Non-Compliant' status is indicated with a '100.00%' gauge. Below this, a table lists risk metrics:

Individuals at High Risk	32
Quasi-Identifier Risk	0.300
Quasi-Identifier Risk Threshold	0.079
Unmasked Direct-Identifiers	10

Context Scores are also shown for 'Privacy & Security' (Medium), 'Recipient Trust' (Medium), and 'Data Sensitivity' (3). A 'Download' button is available for the measurement result.

**Feed processing:** This section displays a table of feed processing logs. The table has columns for Feed ID, File Name, Received, Process time, Last operation, and Operations. Below the table, a summary table provides performance metrics for various operations:

Operation	Average	Total
COMPRESSOR	1s	35s
FieldEncryptor	2s	1m 12s
RawFieldEncryptor	1s	47s
FieldMasker	1s	24s
FieldCompressor	1s	37s
UNKNOWN	1s	5m 12s
MONITOR	1s	1m 19s
Mover_Log	1s	3m 16s
MONITOR	1s	1m 20s
FieldEncryptor	1s	36m 49s
FieldCompressor	1s	6m 32s
DeIdentLauncher	1s	1m 20s
RemoteFieldMover	1s	5s
FieldContentModifier	1s	5s



## Medical Practice and Billing Software

The project is a web-based application for doctor workflow management, electronic health records management, billing, and scheduling, with a streamlined, intuitive interface.

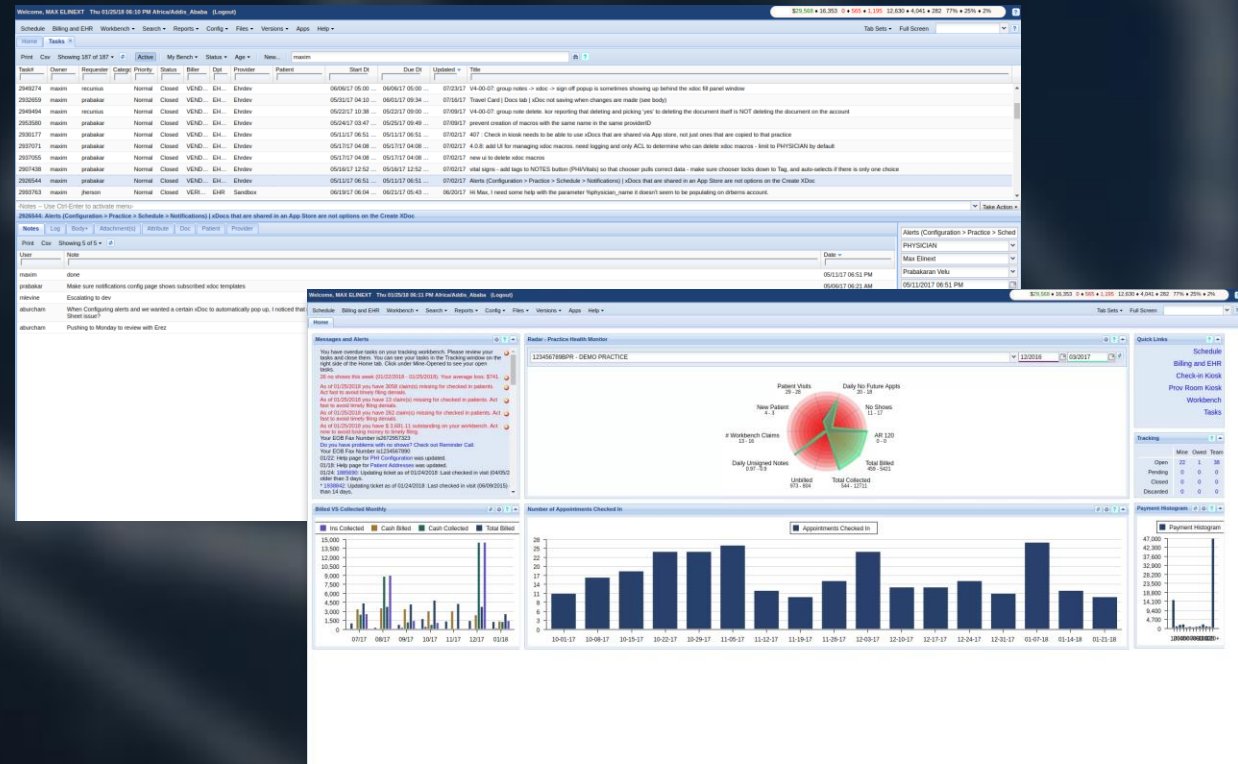
[Learn More ->](#)

### Features

- Personal medical cards
- Application forms
- Patient profiles, schedules and document management
- Medicals purchase within the app
- Invoice management and medical billing
- Custom documents and application forms building

### Technologies

- JAVA
- GWT/GXT
- ANGULAR 2+
- MONGODB
- ANGULARJS
- ORACLE



An American company developing healthcare platforms.

## Pneumonia Diagnosis Tool

A tool for the client's platform to analyze lung X-ray images and identify signs of pneumonia using machine learning (ML), an artificial intelligence (AI) technique.

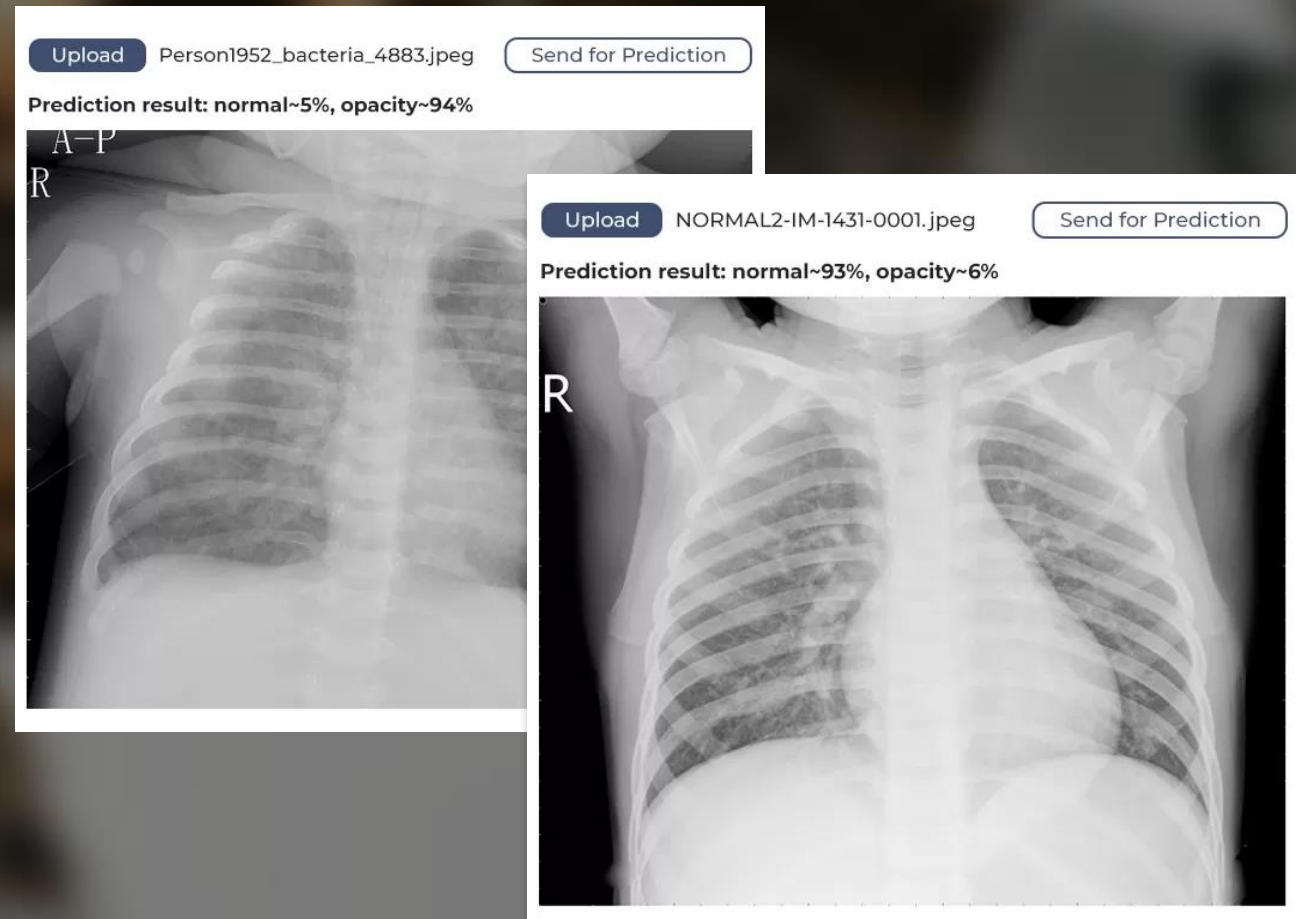
[Learn More ->](#)

### Features

- Image download (mobile/web)
- Image analysis
- Identification of percentage of lungs affected

### Technologies

- .NET
- ANGULAR
- MONGODB
- MYSQL
- ORACLE
- DOCKER



## Patient Portal For Healthcare Company

The client is a healthcare company that provides enterprises in Canada, Australia, and other countries with software for medical and administrative procedures.

Elinext was addressed with the task to design the product-patient portal for hospitals. It should have been a cross-platform software with an exceptional usability level for the hospital's administration, doctors, and patients.

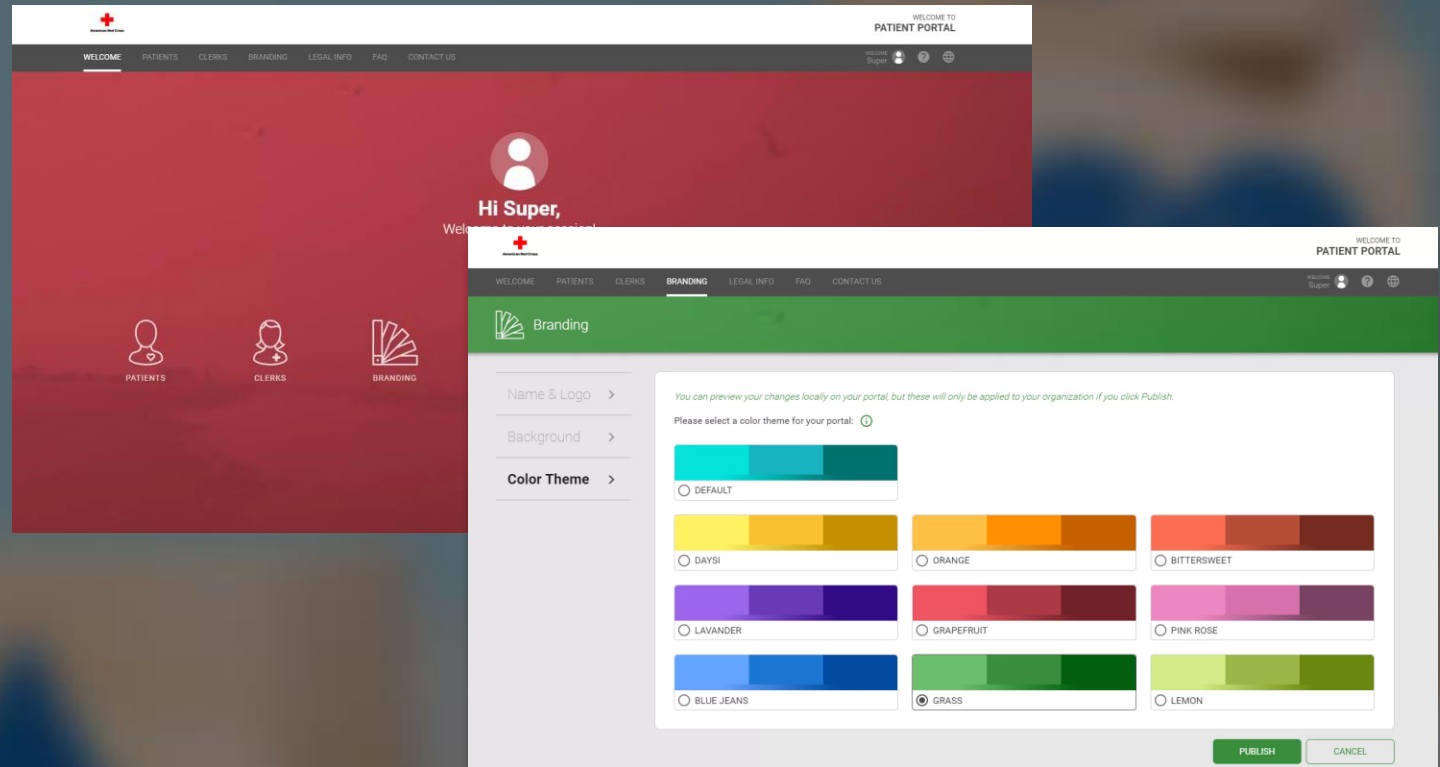
[Learn More ->](#)

### Features

- Access to patients' medical exams
- Built-in cloud storage and image viewer
- 4 types of admin functions

### Technologies

- NODEJS
- SAAS
- ANGULAR 7
- AWS
- FRONT-END
- DEVOPS
- GRAPHQL



## Measure Management And Administration System

A Healthcare company from the USA. Elinext team took over the project that had been previously developed by other vendors that used outdated technologies and UIs.

A health analytics tool to build quality measures. It helps ACO administrators manage performance-based contracts, rapidly improve quality reporting measures and enable proactive patient care. The solution allows simply drag and drop objects into query builder, analyzes data and visualizes it providing a multifaceted view of hospital operations.

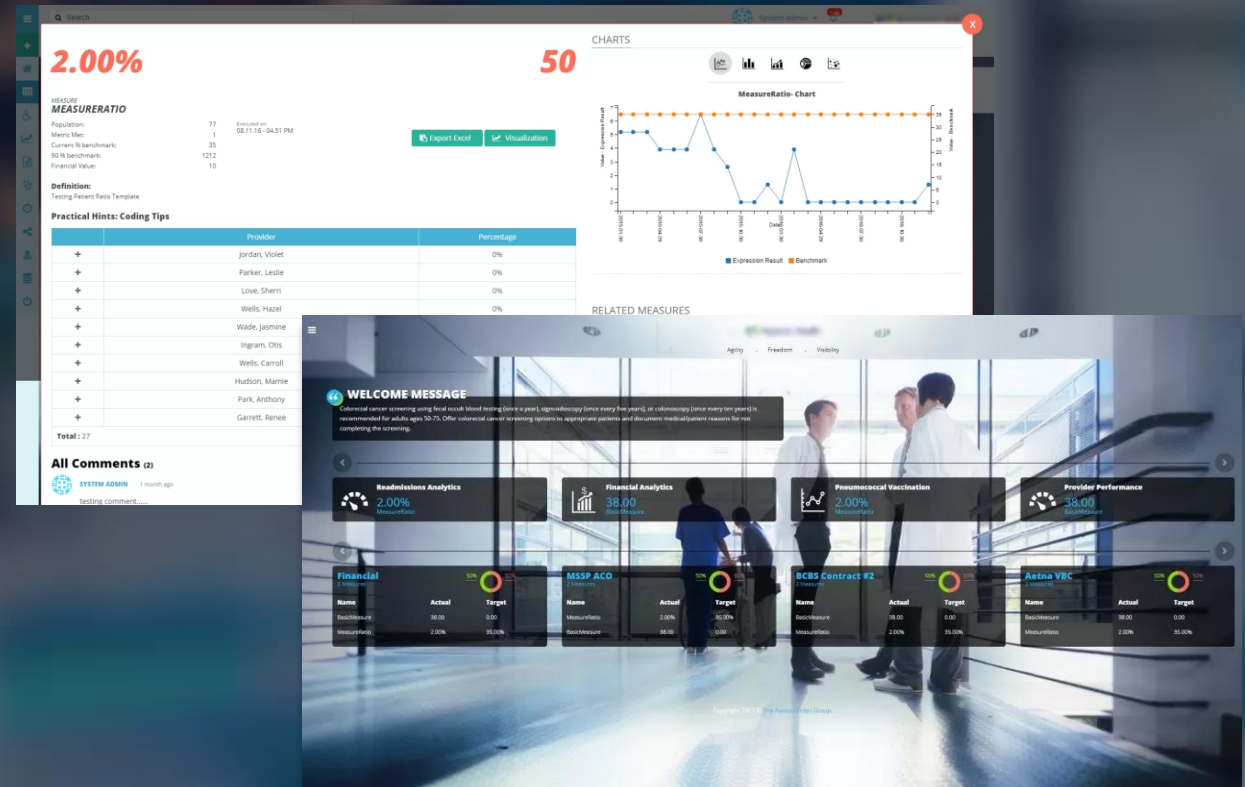
[Learn More ->](#)

### Features

- Querying patient data
- Activities monitoring
- UI for creating dynamic, interactive data visualizations
- Modular multi-tier architecture for easy integration of new processes
- The combination of role-based and data access control

### Technologies

- AWS
- DEVOPS
- PHP
- MYSQL



## Vaccine Schedules App

A startup founder from Canada commissioned Elinext to build a web application for tracking medical appointments and getting reminders.

A website to help people manage their interactions with the healthcare system and get reminded of upcoming appointments.

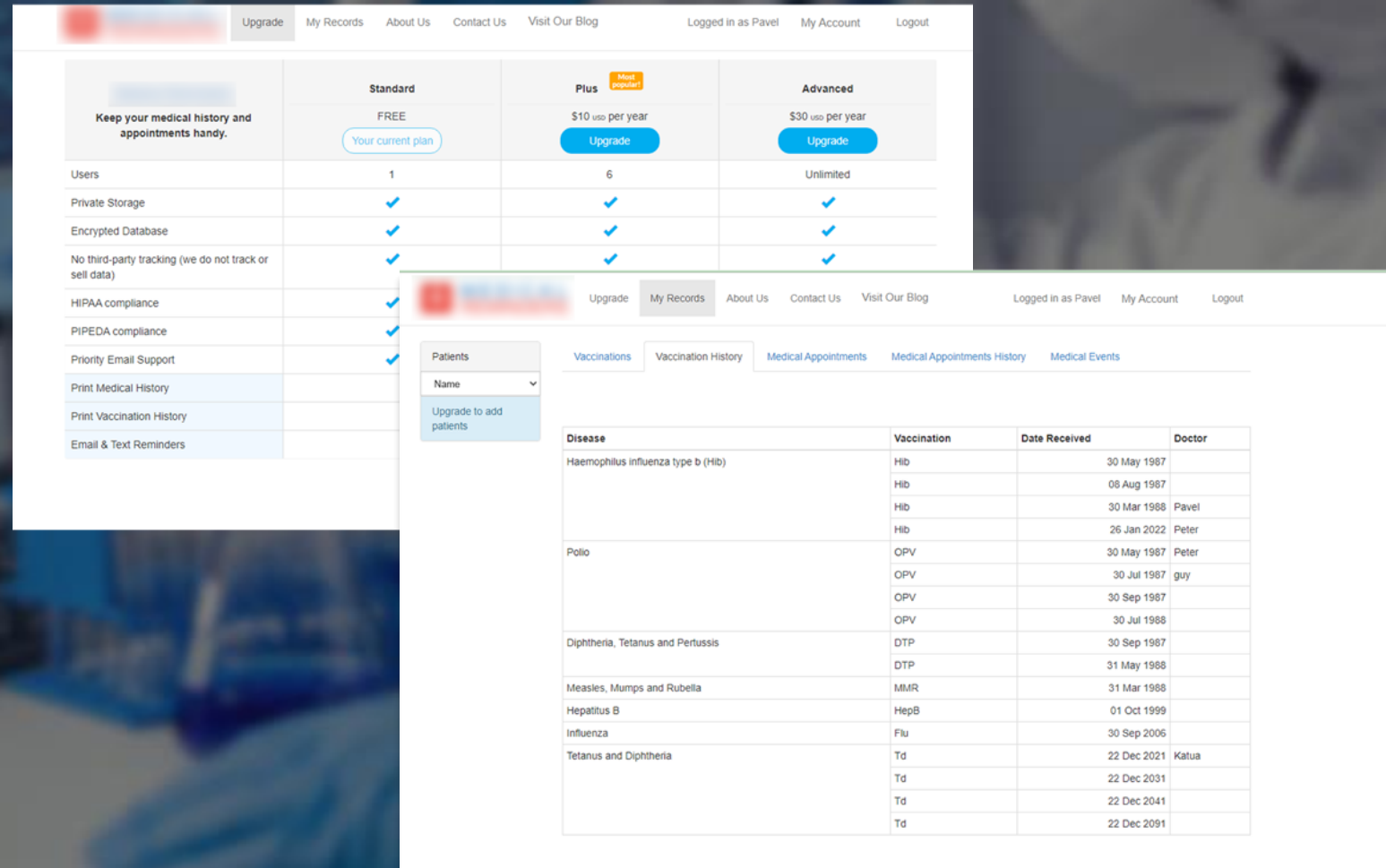
[Learn More ->](#)

### Features

- Personal profile creation
- Medical appointments management and tracking
- Vaccines administration (notifications, history)
- Printing vaccination lists

### Technologies

- JAVA
- REDUX
- EMBER.JS
- REACT.JS
- POSTGRESQL
- TYPESCRIPT



The screenshot displays two parts of the application interface. The top part is a pricing table with four columns: 'Standard' (FREE, 'Your current plan'), 'Plus' (\$10 USD per year, 'Most Popular!', 'Upgrade'), and 'Advanced' (\$30 USD per year, 'Upgrade'). The table lists features like Users, Private Storage, Encrypted Database, HIPAA compliance, etc., with checkmarks indicating availability in each plan.

The bottom part shows a 'Patients' dropdown menu with 'Upgrade to add patients' and a 'Vaccinations' table. The table has columns for Disease, Vaccination, Date Received, and Doctor.

Disease	Vaccination	Date Received	Doctor
Haemophilus influenza type b (Hib)	Hib	30 May 1987	
	Hib	08 Aug 1987	
	Hib	30 Mar 1988	Pavel
	Hib	26 Jan 2022	Peter
Polio	OPV	30 May 1987	Peter
	OPV	30 Jul 1987	guy
	OPV	30 Sep 1987	
	OPV	30 Jul 1988	
Diphtheria, Tetanus and Pertussis	DTP	30 Sep 1987	
	DTP	31 May 1988	
Measles, Mumps and Rubella	MMR	31 Mar 1988	
Hepatitis B	HepB	01 Oct 1999	
Influenza	Flu	30 Sep 2006	
Tetanus and Diphtheria	Td	22 Dec 2021	Katua
	Td	22 Dec 2031	
	Td	22 Dec 2041	
	Td	22 Dec 2091	

# Senior Caregiving Platform

A custom caregiving app based on a peer-to-peer business model allowing them to receive in-home care and significantly reduce their expenses for hiring caregiving individuals instead of addressing an agency. The solution was successfully introduced to investors and gained over €500k of funding for its further implementation and support.

[Learn More ->](#)

## Features

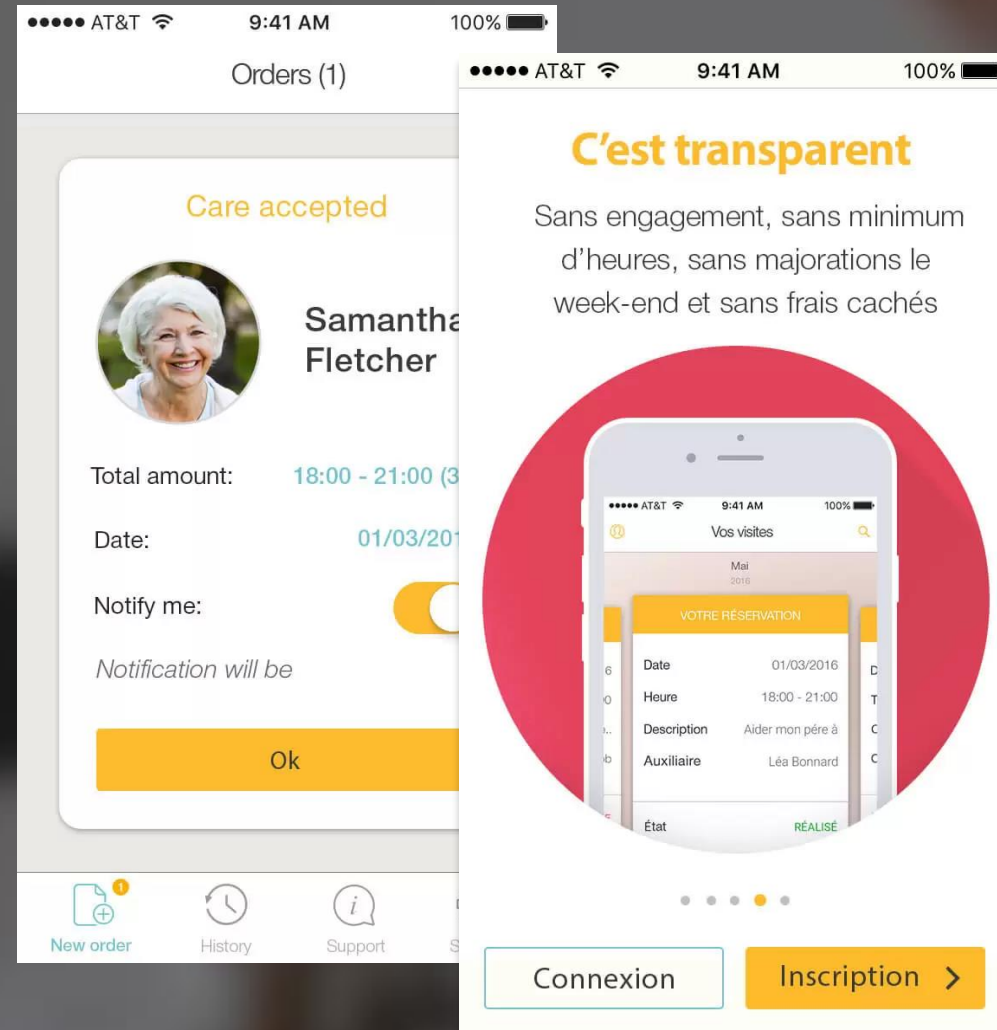
- Caregiver and senior profile sections that represent personal information and preferences
- Request and order section within which a senior can make a request
- Geolocation and payment sections
- Administrator section

## Technologies

- JAVA
- PHP
- OBJECTIVE-C
- MOBILE
- ANDROID SDK
- MYSQL

# CLIENT

A French startup



## Two iPad apps: Day Nurseries & Care Homes

Applications which can provide information about all day nurseries, nursery schools, care homes, hospitals, and associations in the United Kingdom.

[Learn More ->](#)

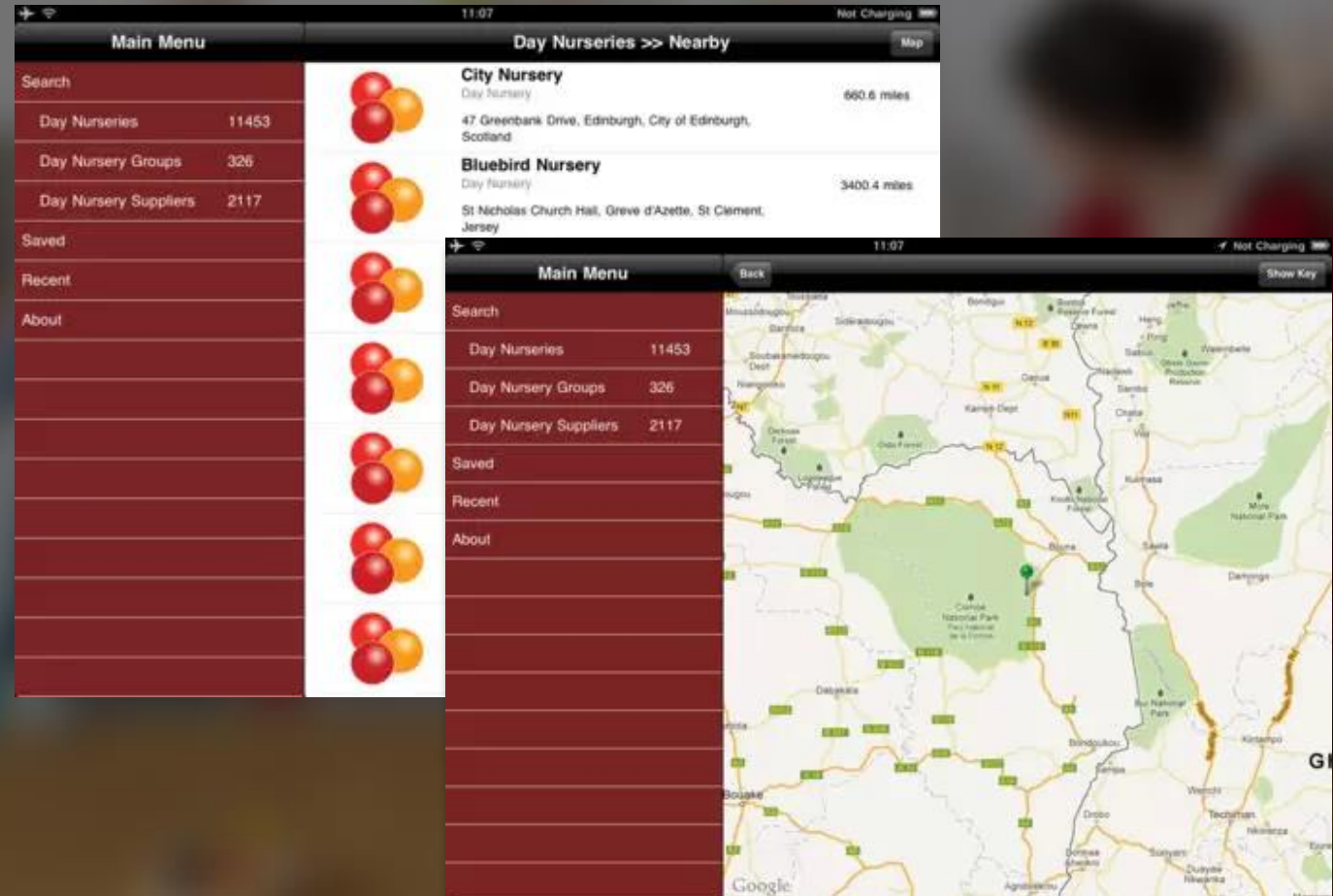
### Features

Synchronization with the server to get up-to-date information

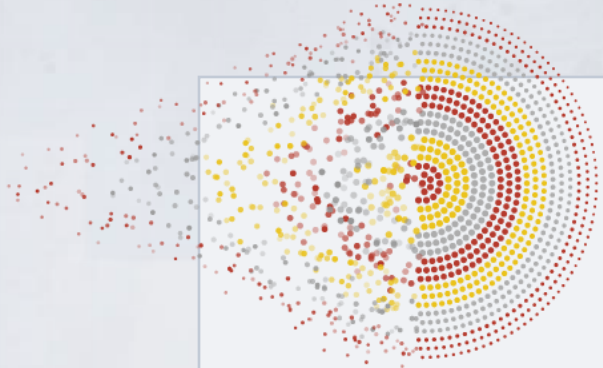
- Saving entries to the internal memory
- Displaying locations of day nurseries and nursery schools on the map
- Displaying last opened entries
- Loading of request results asynchronously when the user modifies the filter

### Technologies

- C/OBJECTC
- C/C++
- FRONT-END
- UI KIT



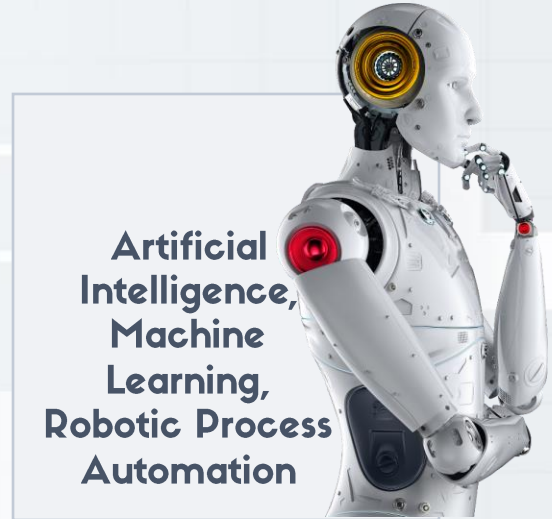
# Solutions We Deliver



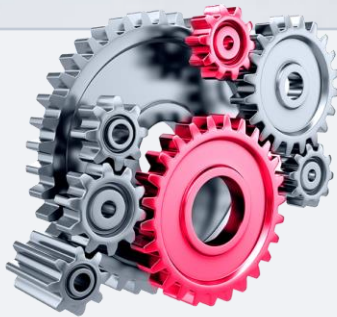
**Data Management  
& Big Data**



**Business Intelligence  
/ Analytics**



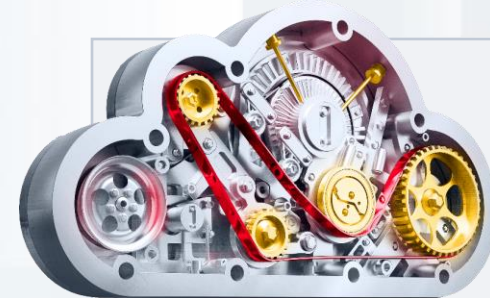
**Artificial  
Intelligence,  
Machine  
Learning,  
Robotic Process  
Automation**



**Quality Assurance**



**Internet of Things**



**Cloud-Solutions**



# 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



# Quality Delivered by the Team (Agile Model)

## Discovery and Design phase

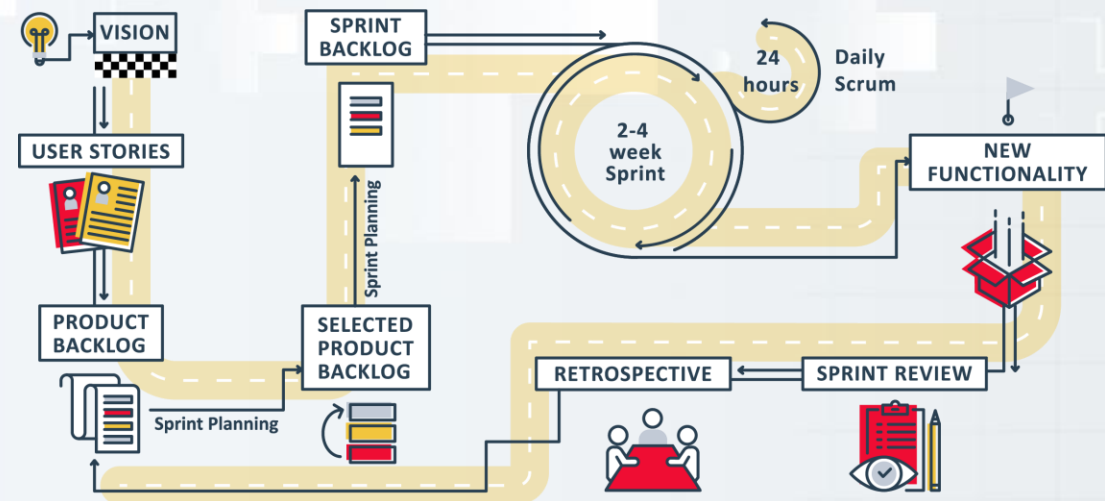
- Team setup
  - Plan and prepare
  - Refine requirements (Functional and Non-Functional)
- Design
  - Architecture
  - Infrastructure
  - Product backlog

## 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





# Let's set up a powerful collaboration!



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