



Company Profile

Healthcare



Elinext Company Overview

Since 1997

In custom software development

7

Development centers in Europe and Asia

700+

In-house employees
85% are software engineers

<9%

Attrition rate

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

Quality Certified

Ensured by Elinext Management System:



Certified Quality Management



Certified Information Security Management



Google Cloud Certified



AWS 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

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;



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

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, 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

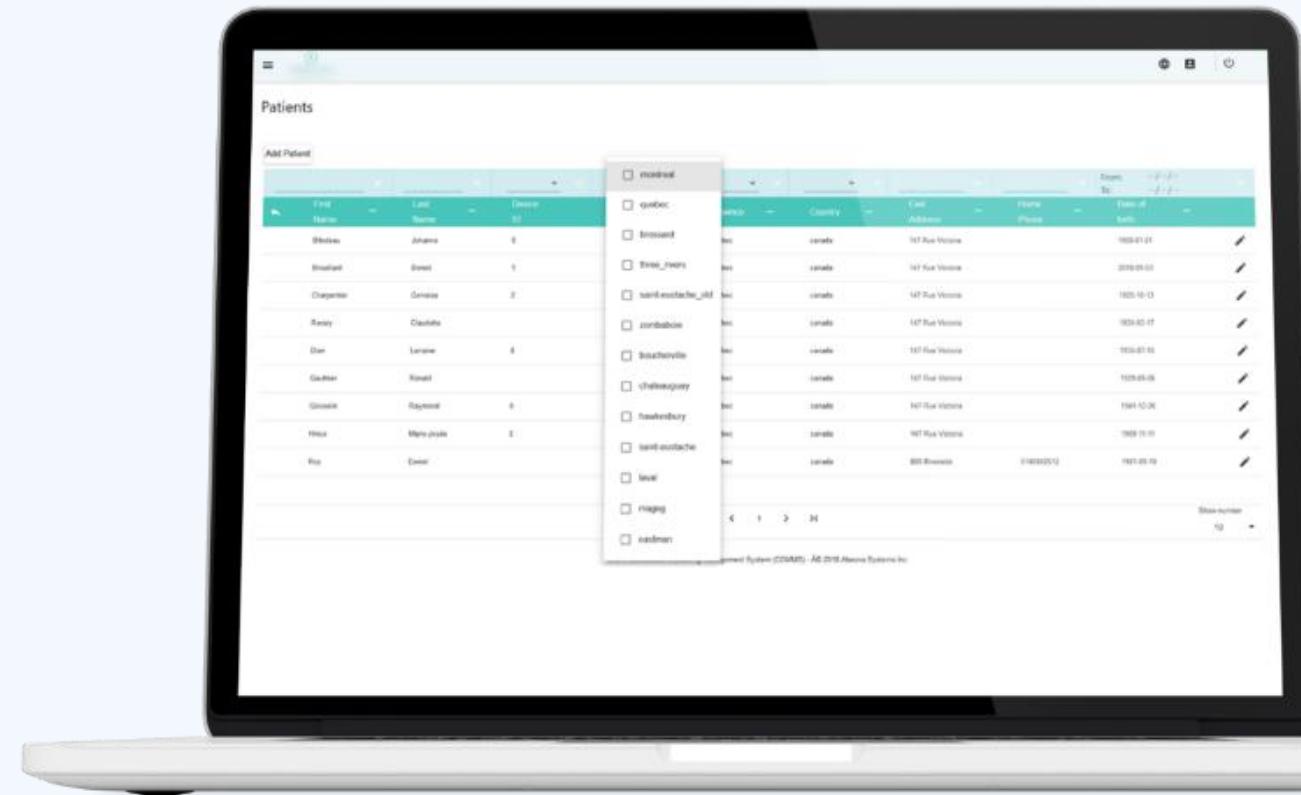
Medical Alert Service

Medical alert service integrated within a smartwatch that includes indoor/outdoor location, two-way voice communication and fall detection. Its mission is to help vulnerable people and their families by providing rapid responses and interventions to emergencies.

In case of a fall, sickness, elopement, wandering or any other incident, the service enables you to intervene promptly.

2 parts:

- 1 Smart watch with a two-way voice communication, geolocation, and a fall detector for everyday use.
- 2 Web app to register emergency cases and allocate a free ambulance crew to the address of emergency.



Technologies:

- Java
- Angular
- MySQL
- UX

Cardio Report Suit

Integrated Cardiology Information System for collecting data, signals and images for all invasive and non-invasive cardiology.

Scheduler – appointments with in/out patients, bed management, coordinate doctors' calendars;

Boarder – dashboard with global view. To get a patient from the registry to the operation room or pre/post operation clinical department (order a porter/litter, track the location and movement of a patient, and meanwhile prepare a room for him).

Procedure – CVIS for invasive and non-invasive procedures. Integration with HIS, RIS, PACS, registry software, and clinical trials database.

Tracking – follow-ups and registries.

Tracer – stock management and inventory.

eCR – web patient case review.

Analytics – overall clinic performance and operations.

Compliance – patient education and monitoring.



Technologies:

- .Net
- C#
- Java
- Angular
- UX

Video Recognition of Moving Objects

Proof-Of-Concept (POC) that demonstrates the ability to analyze a movement of a human body on the provided video set. The goal was to detect the signs of Parkinson disease. The future goals were the analysis of video feet to predict epilepsy seizures.

Main Challenge:

Recognize 5 markers on a body of moving person in a provided video file. These 5 markers correspond to two hands, two feet and a center of a chest.

Used Tools:

OpenPose library. OpenPose represents a system to jointly detect human body, hand and facial key points;

TensorFlow is an open source library for numerical computation and large-scale machine learning;

OpenCV (Open source computer vision) is a library of programming functions mainly aimed at real-time.

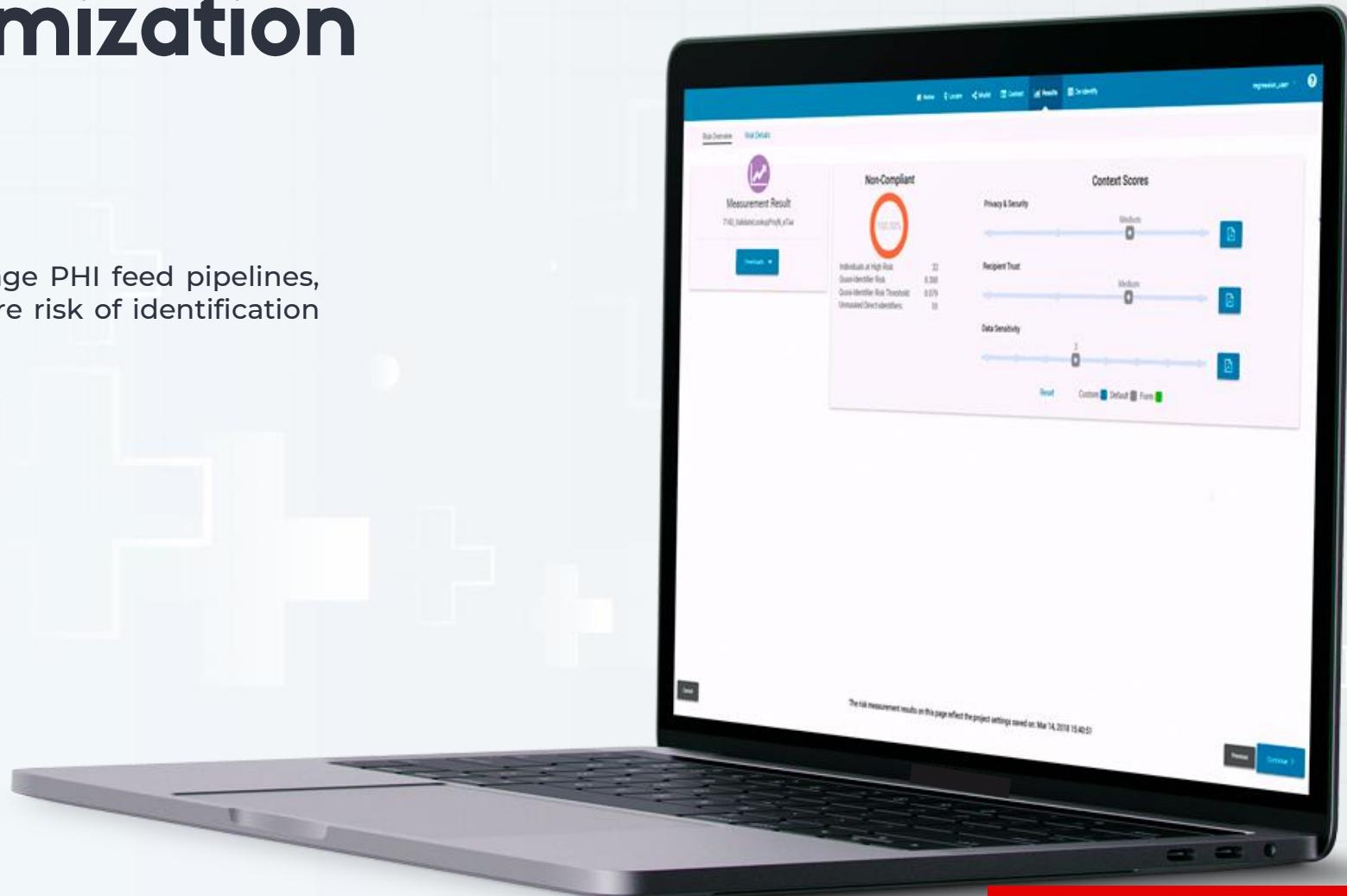


Data Anonymization Platform

SaaS solution to aggregate and manage PHI feed pipelines, anonymize sensitive data, and measure risk of identification afterwards.

Technologies:

- Java
- Angular
- MySQL



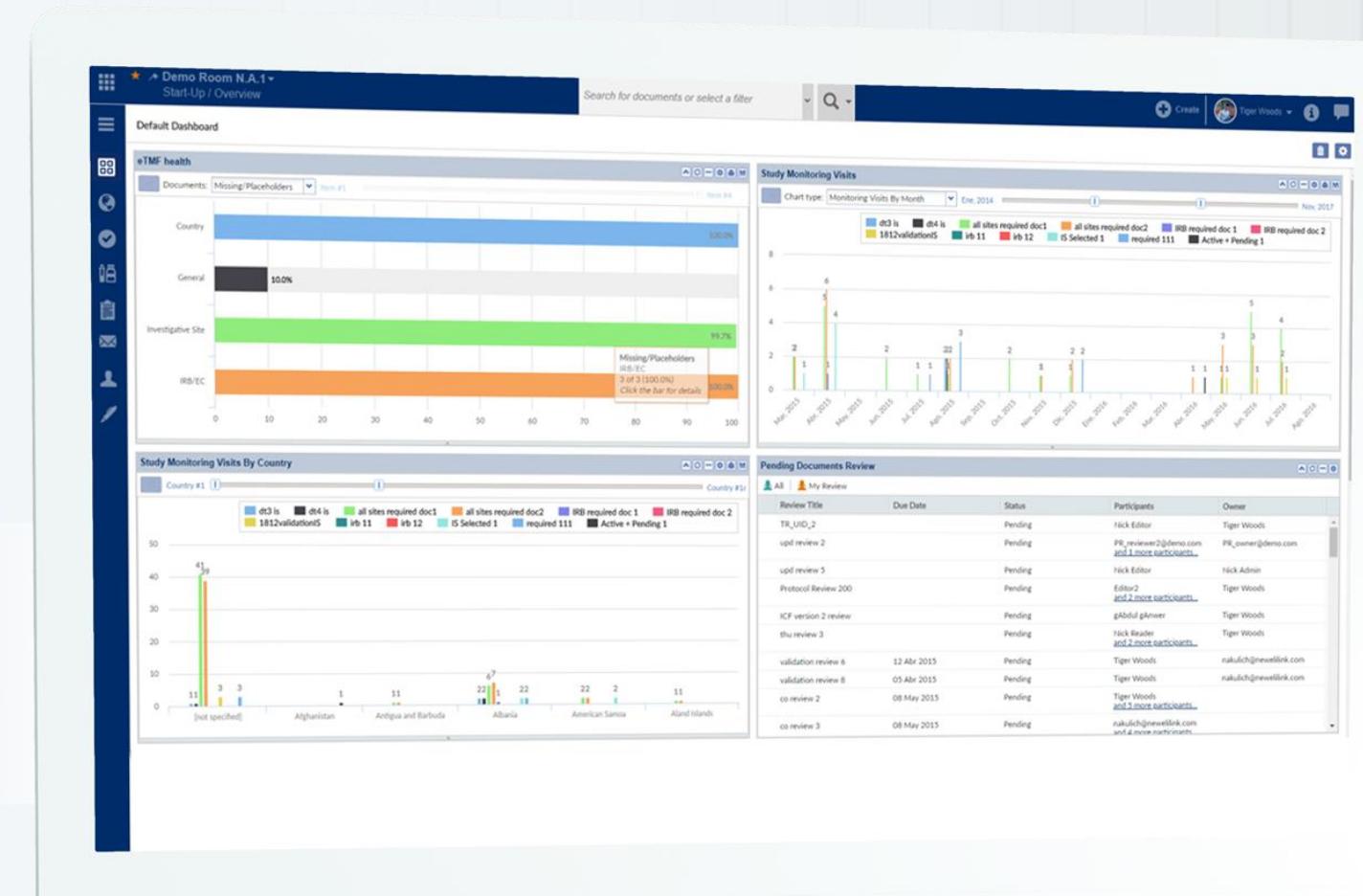
Case Study

Clinical Trials Management

Fully-functional SaaS platform for clinical trials management and collaboration with the configurable modular interface and securely host files in a 21 CFR Part 11 Compliant centralized virtual data room.

Technologies:

- .Net
- C#
- ExtJS
- AngularJS



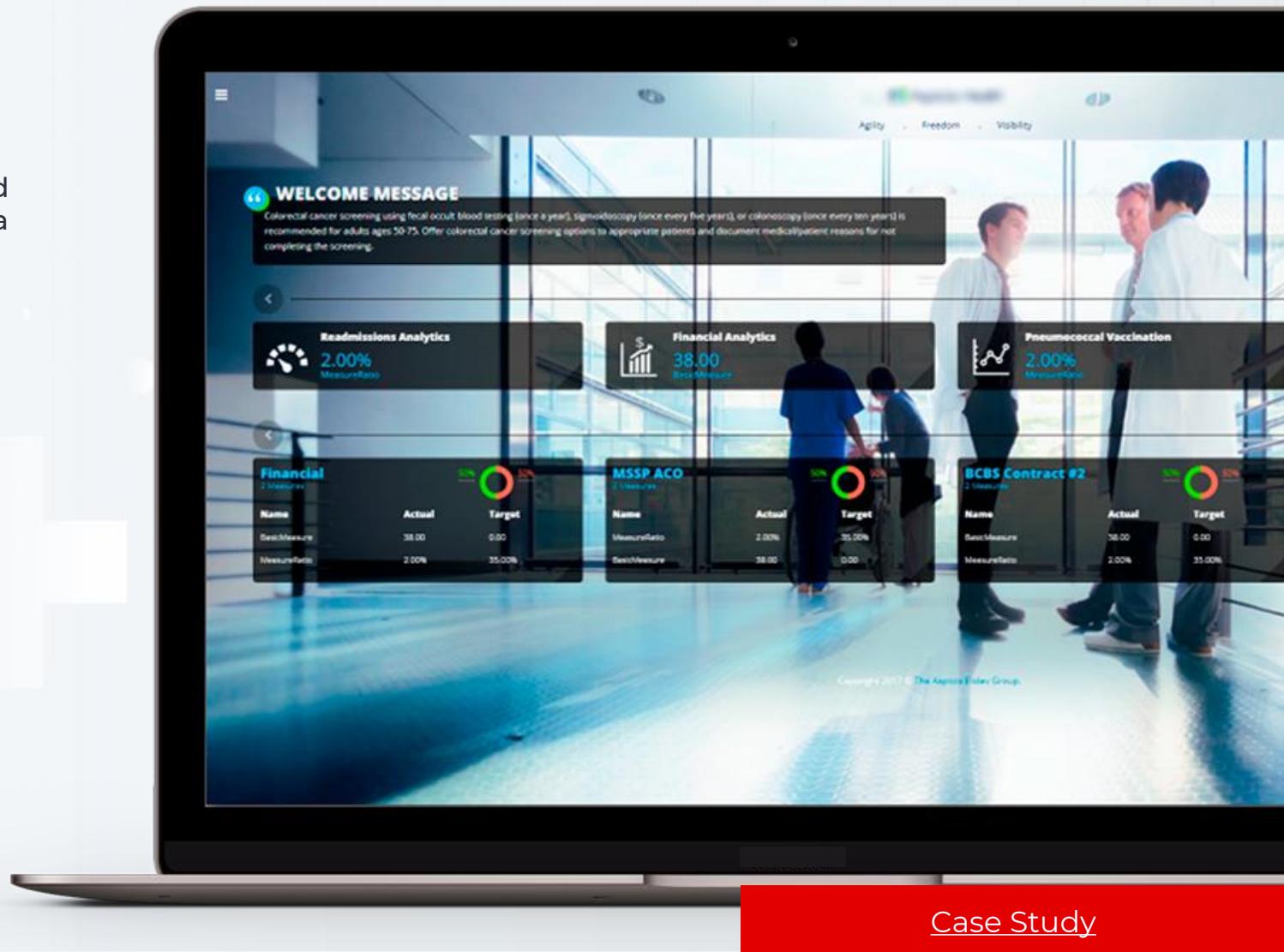
Case Study

Measure Builder

Health analytics tool to analyze patients' information and build quality measures. Made in compliance with Obama Care Act to reduce expenses for healthcare. Integrated with EMR to help providers manage performance-based contracts, rapidly improve quality reporting measures and enable proactive patient care.

Technologies:

- PHP
- AWS
- MySQL



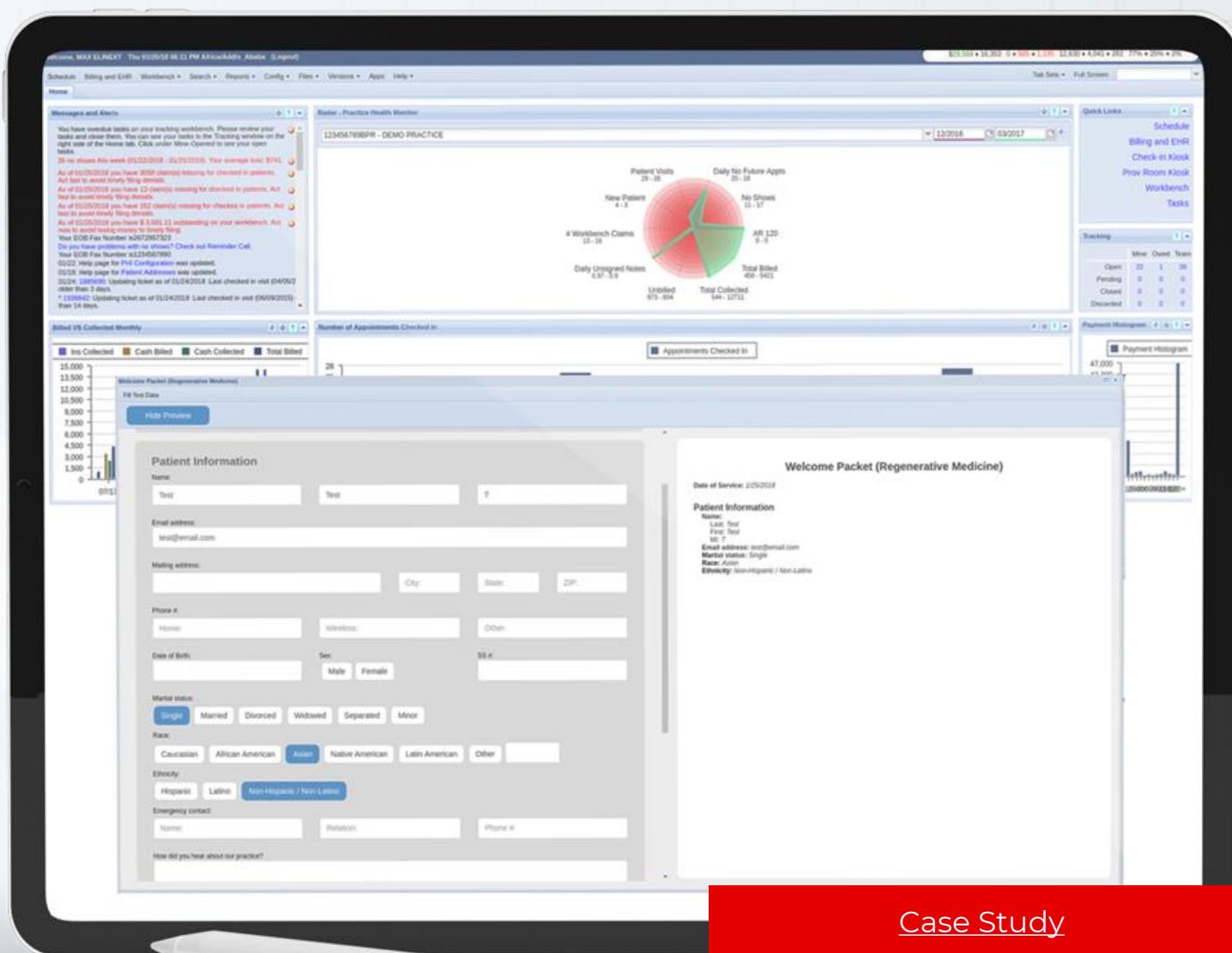
Case Study

Medical Practice & Billing Software

Web-based application for doctor workflow management, electronic health records management, billing, and scheduling, with a streamlined, intuitive interface. The software passed ONC certification.

Technologies:

- Java
- Angular
- MongoDB
- Oracle



Case Study

Patient Portal

The patient portal that interoperates with PACS and RIS and allows patients to register and track their radiology exams and medical reports.

1 Security (HIPAA, ISO 27001 and 62304 compliant)

2 Purely AWS-based;

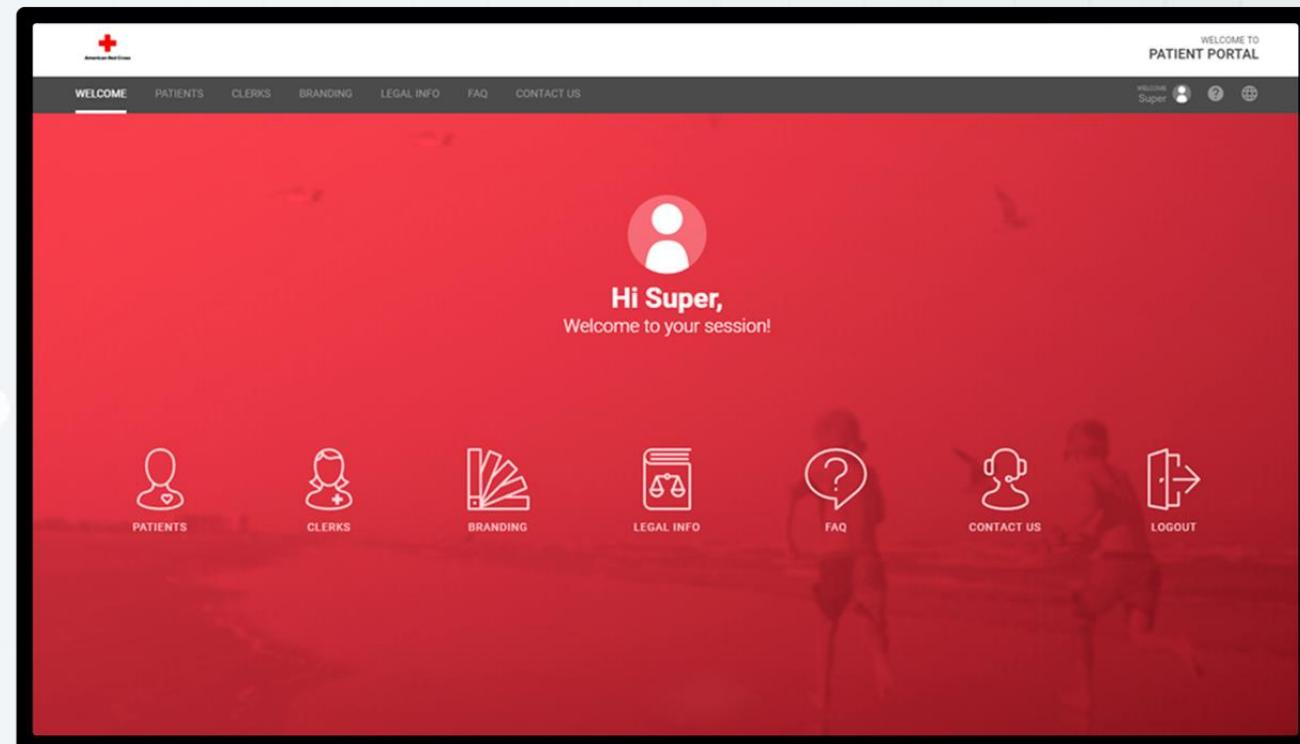
3 Passed external audit, security penetration and usability testing.

4 Zero downtime;

5 4 user roles: deployer (super-admin to manage all clinics); admin (to manage data within the clinic); clerk (doctor); user (patient).

Technologies:

- Java
- Angular
- AWS



Case Study

Medical Reminders

Service that allows track and update entire family medical history with notifications about upcoming inoculations, checkups, appointments or prescriptions.

Technologies:

- Node.js
- Ember.js
- Bootstrap
- PostgreSQL

Vaccine information for Jennifer

Vaccination history

Shot	Disease	Due date	Received
DTaP-IPV-Hib	Diphtheria-Tetanus-Pertussis - Inactivated Polio - Haemophilus influenza	November 1960	
Hep B	Hepatitis B	November 1960	
Men C	Meningitis C	November 1960	
Pneu C-7	Pneumococcal Conjugate Vaccine	November 1960	
DTaP-IPV-Hib	Diphtheria-Tetanus-Pertussis - Inactivated Polio - Haemophilus influenza	January 1961	
Hep B	Hepatitis B	January 1961	

Upcoming vaccinations

Shot	Disease	Due date	Received
Td	Diphtheria-Tetanus	September 2015	
Td	Diphtheria-Tetanus	September 2025	
Flu	Influenza	September 2025	
Td	Diphtheria-Tetanus	September 2035	
Td	Diphtheria-Tetanus	September 2045	
Td	Diphtheria-Tetanus	September 2055	

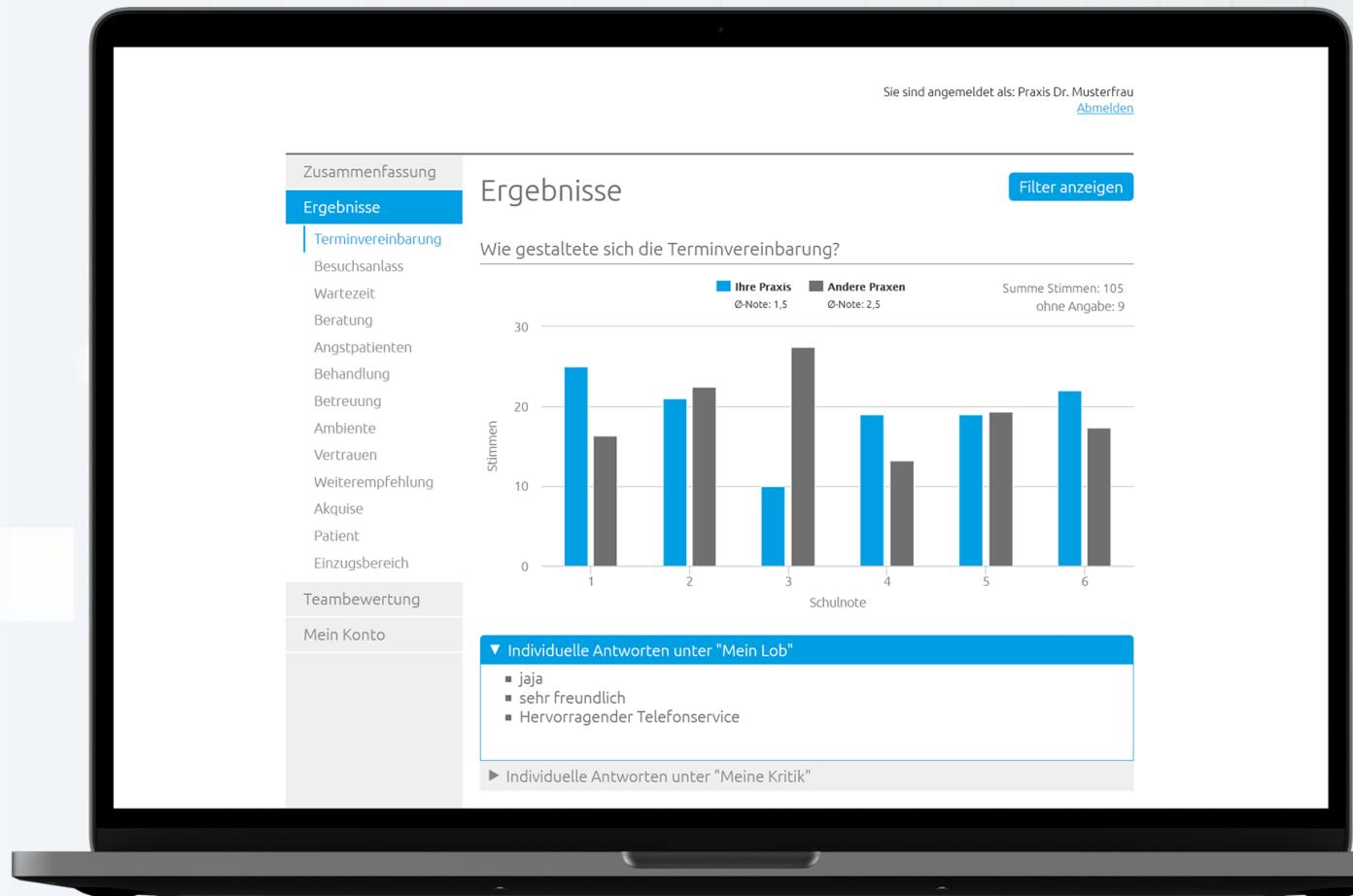
+ Add vaccination

Patient Satisfaction Questionnaire

Patient satisfaction survey tool that serves as an early-warning system and provides healthcare provider with valuable recommendations for action. Negative development trends in the individual practice areas can be identified early.

Technologies:

- Ruby on Rails
- Redis
- PostgreSQL

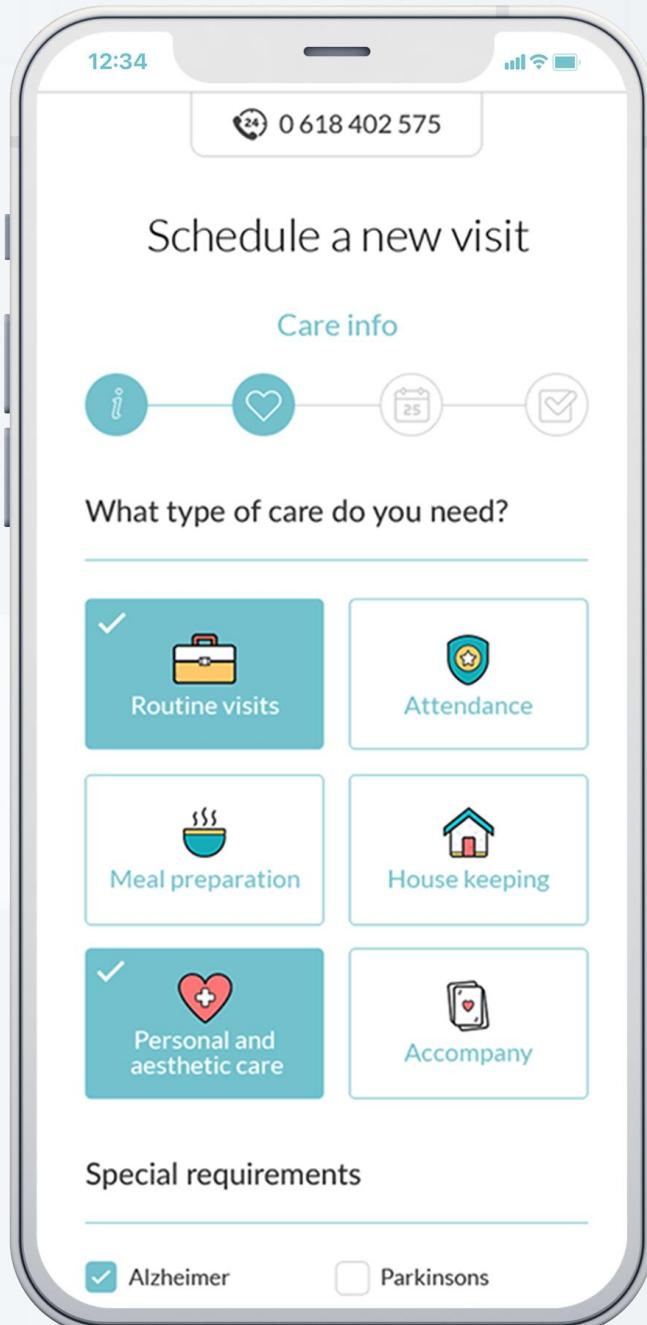


Home Care Service App

Custom caregiving app based on peer-to-peer business model allowing to receive in-home care and significantly reduce their expenses for hiring a care giving individuals instead of addressing an agency.

Technologies:

- PHP
- Android SDK
- MySQL
- JS
- Java
- Objective-C



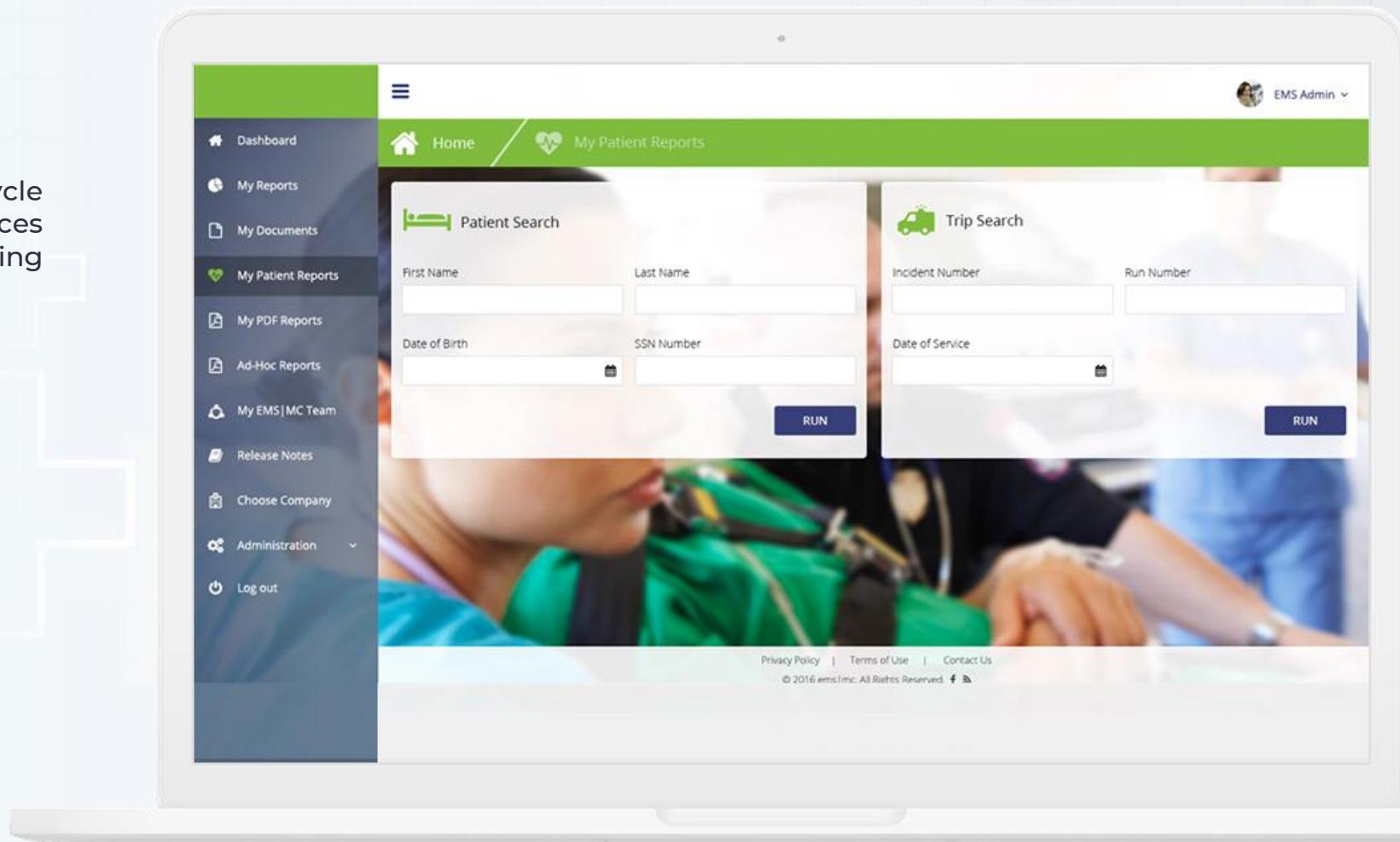
Case Study

Patient Portal

Patient Portal, a part of a revenue cycle management system for Emergency Services that enables quick and secure way of paying for EMS bills.

Technologies:

- PHP
- Yii2
- MySQL



Body Tan Scan

A mobile app that makes a picture of the skin and detects the level of a person's sunburn using Explicit Image Detection technology.

Technologies:

- Objective-C
- MVC-pattern
- Core Data



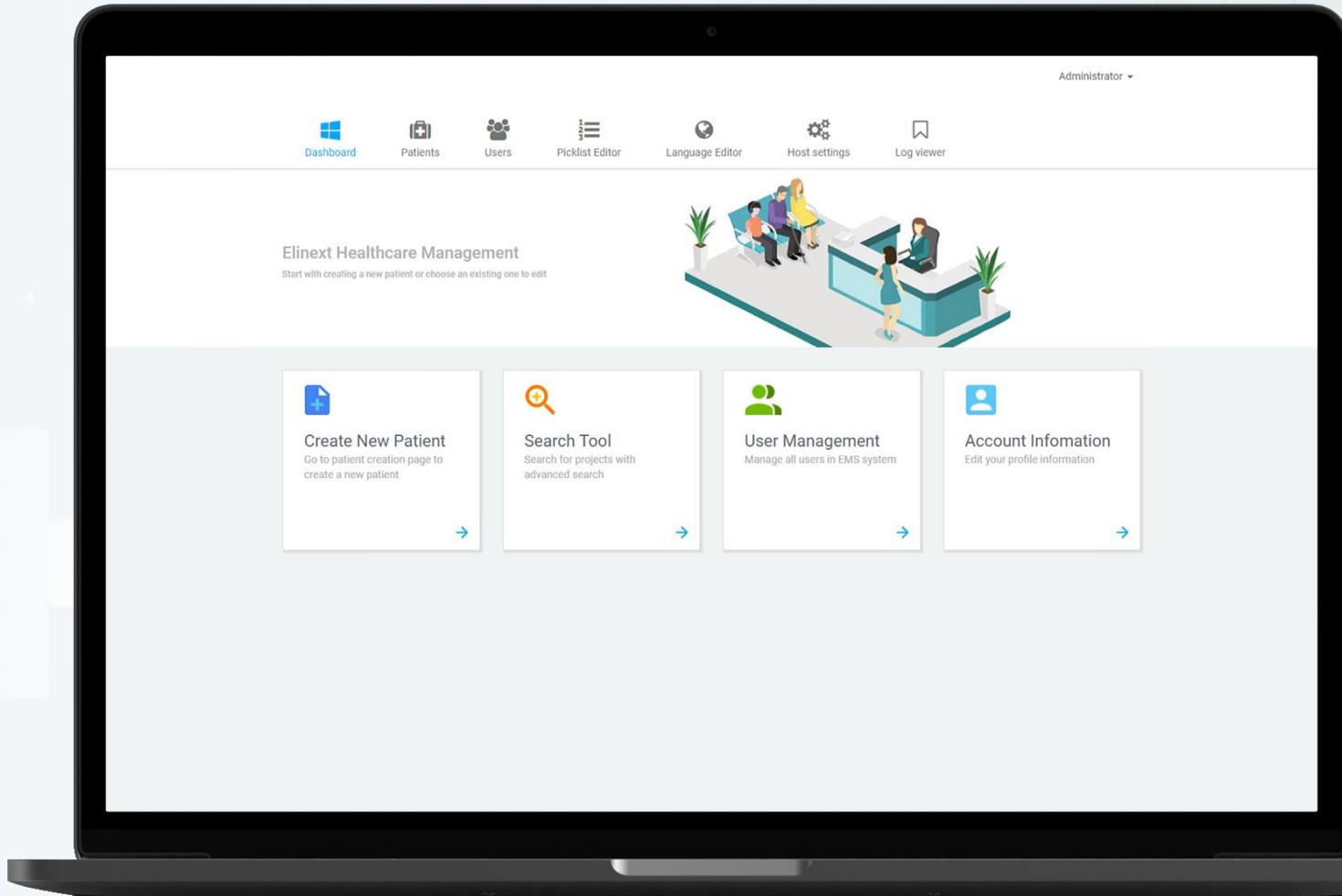
Case Study

Patient Healthcare Information Management Tool

The patient data management system that allows store and patient's personal and health data, track diagnosis and treatment, view attached documents or images.

Technologies:

- .NET MVC
- MS Web API 2
- AngularJS
- SQL
- Net

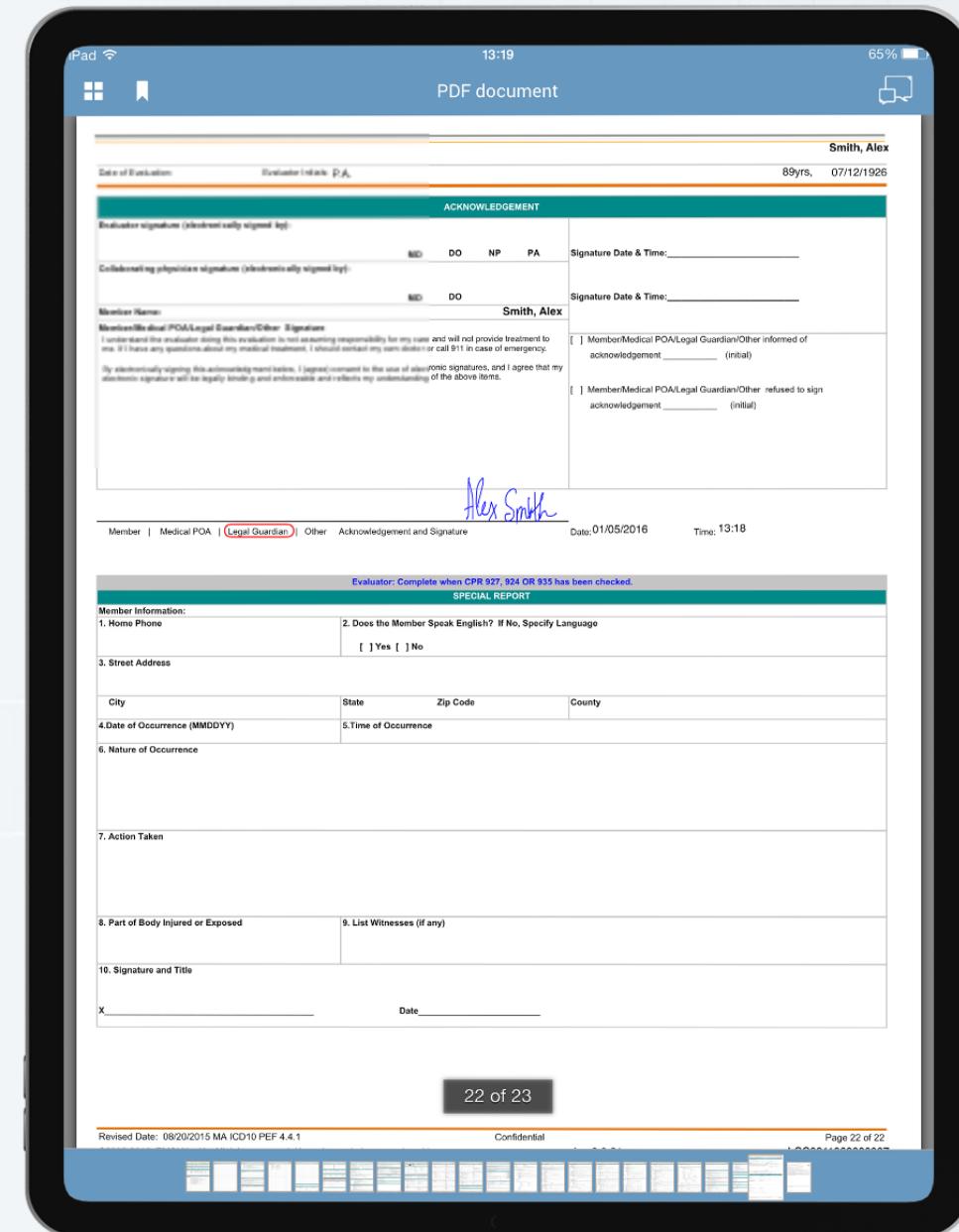


Advanced Patient Health Questionnaire App

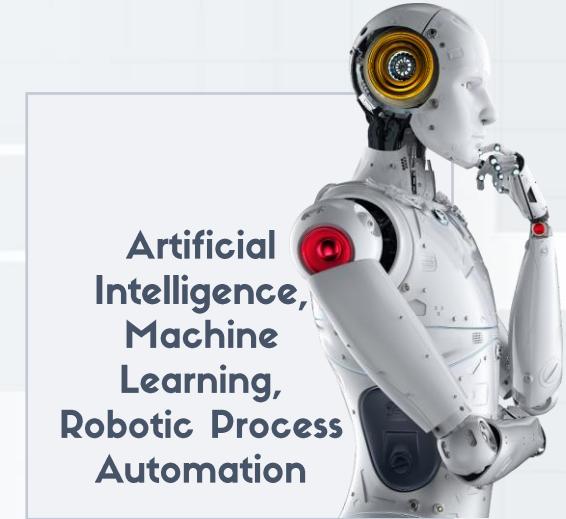
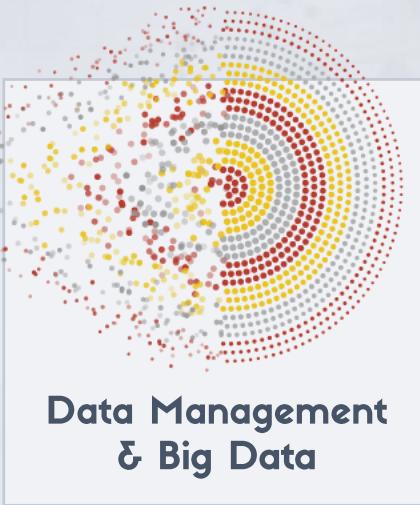
The application allows our medical providers to gather complete health information and provide a comprehensive report of all conditions, existing or previously unidentified. The patient data is gathered and processed for prospective risk evaluation. On the basis on the evaluation healthcare insurance companies are able to offer appropriate life insurance packages.

Technologies:

- BlackRaccoon
- Objective-C
- Crittercism
- Core Foundation
- CoreGraphics
- Reacability
- SMWebRequest
- MessageUI
- EventKIT



Solutions We Deliver



Cooperation Models

Time and Materials

- Allows to control of the project development process
- Customer is charged according to the resources utilized and the time spent while working on the project
- The model is used where scope, specification and implementation plans cannot be fully defined in advance
- Partnership can last from 3 months to several years

Fixed Cost

- The model requires well-developed technical requirements in form of specification documents
- This model is most of the time suitable for small scale projects (from one to three months)
- The projects are typically neither changed nor extended during implementation



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

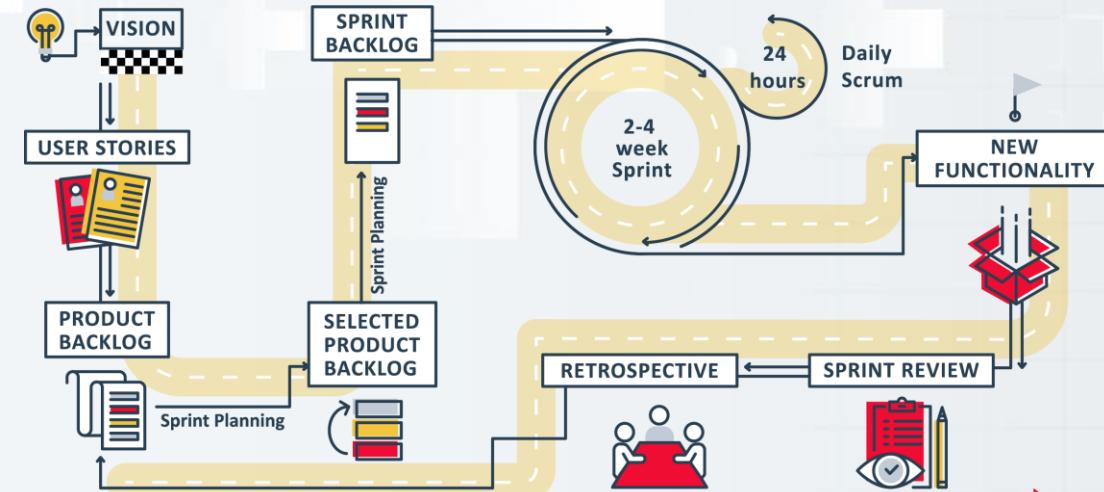
Development – 1 sprint (1-2 weeks) – recurring till the final delivery

- 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 fruitful collaboration!

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