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Industries: MedTech, Medicine, Veterinary
Region: Europe

PROJECT TYPE
The internet of Things

TECHNOLOGIES
Ruby, Rails, Postgres, Websockets, Capistrano, Git, Bluemix IoT, Eye, Nodered, Sidekiq, Redis, React, ES6, Webpack
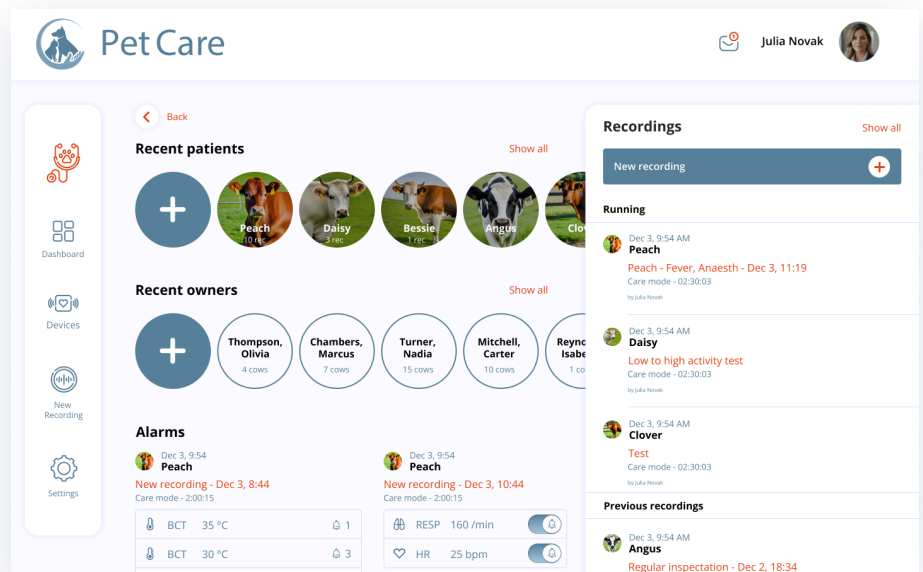
DURATION
3+ year

METHODOLOGY
Scrum

TEAM
Up to 18 team members

A platform for vital farm animals signs monitoring

The Client develops a technology incorporated in a matchbox-sized wearable device allowing precise measurement of medically relevant vital data of farm animals.
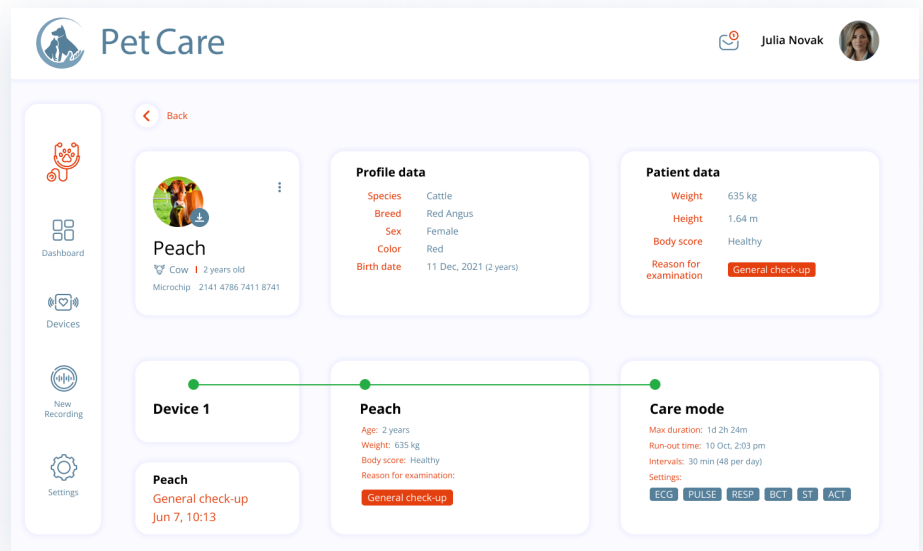

Project Special Features

✓ interactive charts and data analytics;

✓ flexible patient management;

✓ sharing functionality between account;

✓ notification center and alarms management;

✓ detailed tutorial functionality;

✓ extended users management (User and Account);

✓ base stations management;

✓ devices management;

✓ engineering (IoT data export);

✓ statistics overview;

✓ integration with an invoicing system;

✓ product management.

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Business challenge

The Client aims to help veterinarians and farmers easily get an overview of an animal's ECG, respiratory, pulse, and other supporting data for diagnoses. They developed a wearable device for this purpose. The greatest value of the device is that it replaces various medical devices, which sometimes need to be connected to farm animals, even with surgical involvement. Unlike these devices, The device is small, binds to a farm animals on a special bandage, and doesn't prevent it from everyday activities. The Client addressed SumatoSoft to help with building a web-based IoT platform for data visualization and analytics.

Our solution

Together with the Client's experts, we are developing an Internet of Things platform for the vital-data gathering, visualization, analytics, diagnosis and calculation. These data are recorded in a raw format from the sensors and are sent over to the web as Mqtt-Messages.

We have implemented a web-based application which currently has the following functionality:

Admin panel

✓ companies accounts management (clinics or farms);

✓ users and roles management within a company;

✓ statistics overview about users, recordings and devices;

✓ products management. Products are to be issued to company accounts;

✓ invoices management and external invoicing systemintegration;

✓ base stations and devices management;
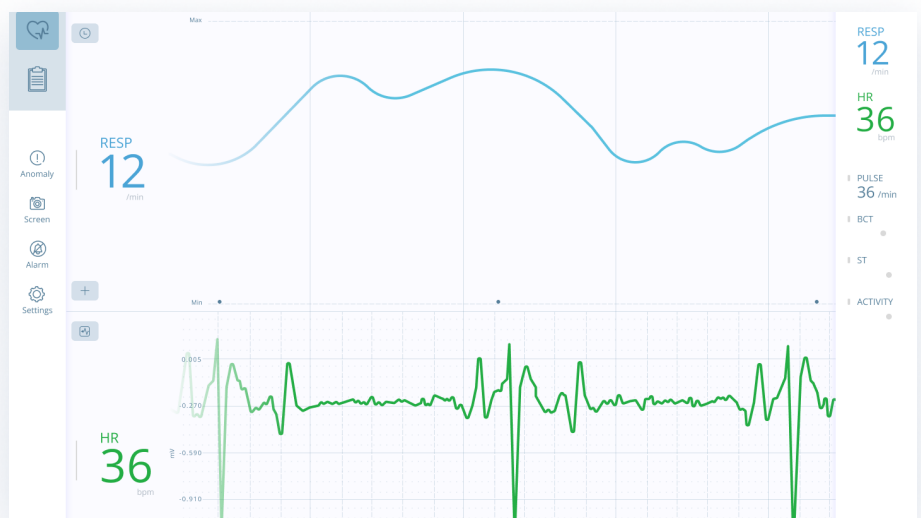
✓ raw data filtering and export;

✓ notifications system.

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Users area

Companies owners have such distinctive features as:

✓ acount settings management;

✓ new users management.

Owner and users can do the following things in the application:

✓ to login/register an account;

✓ to view learning tutorial;

✓ to manage profile;

✓ to create, view and manage patients;

✓ to start recordings on patients;

✓ to view recordings and vital data on charts;

✓ to add notes, snapshots, markers on charts;

✓ to share patients, recordings, notes with other users;

✓ to view notifications and timeline events.

What's happening with the project right now?

The Client has already launched the product to the market and sells devices to clinics. The project is highly appraised by the medtech community. The Client was selected among the TOP25 business plans in the venture competition 2016, then became a winner in «Swiss Startup Technology Team 2017» event.

The Client keeps getting new investors as the platform grows and the project shows its true potential and proves its value.

The project is growing, new features are being added to the platform all the time. Sumatosoft keeps working on the next project stages, provides maintenance and support.

The Client has plans to extend its product with a mobile presence and introduce iOS and Android applications. SumatoSoft is helping with the mobile apps development as well.