

Success Stories

1. Custom SaaS solution for Metering company

We collaborated with one of the leading companies in South Africa that provides metering and billing services for commercial property owners and property renters. The task we engaged with was a true challenge since adopting innovative software solutions for IoT-based Utility Metering devices requires a high level of accuracy and strong expertise in this area.

The Brief

Our task was to develop a complex automated solution that would be an actionable alternative to clunky legacy applications widely used across the metering industry at that time. The solution we offered to the Customer was one-of-a-kind and it still remains unique for this business sector in terms of its features and capability.

This complex IT product is an actionable mixture of CRM, ERP, and a client-facing portal solutions linked with the vast capacities of IoT-driven devices utilized for remote smart metering nationwide.

What we did

System features:

- A unified software ecosystem geared for tackling the full scope of metering processes that combines the functionality of the CRM and ERP systems along with a user-friendly client portal
- Smart IoT technology solution integrated across multiple utility metering devices for remote data collection
- Both manual and automated methods for gathering and measuring customer data via mobile apps or IoT devices.
- Availability to keep track of data collection from any type of property – domestic and commercial households, large-scale enterprises, nationwide networks of shopping malls and other premises
- Reliable cloud-based data storage and dynamic processing of expenses based on the current tariffs and other predefined parameters

- Fast yet accurate data sharing and visualization at all levels
 - from top management to technical support specialist to property owners and renters

Overall UI and architecture enablements:

- Improved app's usability based on .NET Core single page applications with Angular
- User-friendly interface empowered with UX design, including easy-to-navigate dashboards, graphical online editors, and visual reports
- Automated data entry and management flows
- Enhanced scalability of distributed software architecture comprising three major portals: management portal, data gathering portal, reporting portal
- Cloud-based serverless platform with multi-tenant architecture ready for BI and Big Data analytics

The results

The given software solution enabled the Customer to significantly improve business operational efficiencies in terms of time and effort needed to tackle routine data management tasks. When getting integrated, the data automation tools showcased much greater performance and accuracy when compared to previous human-aided initiatives. The solution allows to integrate CRM/ERP systems with cloud capabilities and sync them with a scalable number of IoT-led devices for flawless data collection, storage, and interoperability.

Technologies used

- ASP.NET Core
- SPA
- Azure
- Microservices
- Serverless
- Angular
- MongoDB

2. Real Estate marketplace for CONDO BLACK BOOK

Condo Black Book, a leading real estate services provider on the Miami and South Florida condo market reached out to ByteAnt to help reshape their existing website's overall appearance and

functionality with actionable UI/UX design and robust software solutions.

The Brief

Condo Black Book always prides itself on providing their customers with only the most accurate and locale-based information on available condos and nearby neighborhoods. The services provided come in handy especially for buyers out of this area as they give invaluable insights on the matter.

However, the website's design and usability at that moment left much to be desired due to poor information architecture, navigation and functional inconsistency.

Our task was to overhaul the way its website looked and add advantageous features that could drive more traffic and improve user experience.

What we did

In terms of the website's functionality optimization and redesign enablement, we succeeded in implementing the following features:

- Integration of a meaningful web solution that is synced to the RETS (Real Estate Transaction Standard) database for getting timely real estate data updates in the region.
- Great-looking responsive UI/UX design that significantly increases customer engagement and retention rates
- A powerful tech-enabled property data search engine, enabling users to apply various filters to fine-tune their browsing results.
- Introduction of the back office to facilitate effective property and customer data management along with built-in email and push notifications as for all the important database changes.
- Exhaustive information on every single listing paired with relevant up-to-date photos
- Smooth Google Maps integration.
- Client-facing options to save one's individual search preferences with the filters applied to get timely notified if some changes occur within the favorites list.
- A user-friendly personal cabinet allowing customers to flawlessly interact with their assigned real estate agents.

The results

We built a marketplace with a powerful online property search tool that empowers lots of people looking for Miami and South Florida condos. This, together with robust UX design helps drive more prospective buyers to the website. A user-centric feature-rich interface enabled customers to gain immediate access to the relevant time-sensitive information on every single condo available for sale or rent in the area.

"I'm truly glad I decided to work with ByteAnt .I keep telling all my partners that these folks did a really good job. Thanks a lot for your expertise and extra fast delivery of the website redesign solution we and our customers are now enjoying so much." **Andrew Cunningham, CEO at Condo Black Book**

Technologies used

- ASP.NET MVC
- Entity Framework
- MS SQL Server
- JavaScript
- C#
- CSS3

3. Multi-vendor marketplace for TOPSOFT

A well-known Swiss provider of software consulting services addressed ByteAnt to help build a multi-purpose website for catering to their B2B customers.

The Brief

The challenge was to create an actionable business platform able to perform various functions and provide exhaustive and accessible information through great UI.

The number of core functions required was supposed to include the following:

- Smooth search options for end-users to easily find multi-vendor software products
- Safe and transparent accounts for software vendors
- Quick references search of useful data within the largest Swiss market overview of software solutions and providers

- Timely update and navigation features for blog, events and jobs sections

What we did

We leveraged a set of advantageous cost-effective software tools and solutions to optimize the way the business website should perform to meet the ever-growing needs of both vendors and customers:

- Umbraco as a highly flexible, scalable and secure Content Management System was utilized to transfer all the data and collect it within one place
- Lucene came in handy due to its great search engine capabilities empowered with dynamic filters
- Customer-centered redesign to retain and engage existing customers while attracting loads of new prospects
- Introduction of new features like events, a blog, user cabinets and others to enhance customer experience

The results

We managed to do a great job while improving an overall website appearance and arming it with a powerful search engine. It became possible through introducing the next improvements:

- Unification of siloed website into a single platform
- Re-railing the website on the fast and efficient search engine
- Innovative UI/UX design that combines both a novel look with recognizable corporate colors of various vendors presented on the business website

Technologies used

- ASP.NET MVC
- Umbraco
- MS Azure
- C#
- Facebook API
- Lucene
- Angular

4. Automotive IoT and Multitenant SaaS solution for [MECHANIC ADVISOR](#)

Mechanic Advisor is an effective service provider for both car shops and their customers. It combines a robust automated marketing platform coupled with a mobile app, and connected telematics devices. As of that time, they required a complete overhaul of its operational efficiencies, which was only possible via introducing new web and app development solutions.

The Brief

To establish actionable and meaningful interaction between car shop owners and their clients, the company needed a single web-based platform with CRM/ERP built-in systems paired with a user-friendly mobile app. So, we had to come up with a complex solution that could enable stable communication, accurate diagnostics and data tracking alongside strong connectivity between IoT-backed telematics devices.

What we did

- ERP/CRM integration for better customer data storage, tracking, and analytics
- Client-facing mobile app that allows users to view maintenance schedules, identify car issues and show real-time vehicle information and recommendations directly on a smartphone.

The results

An easy-to-set-up telematics system, which connects car drivers, their mechanics, and vehicles via a simple, yet elegant Connection Key OBD-II device. The connection key aligned with a car's computer analyzes car performance, provides a real-time diagnostic report of car's health, sends timely notifications both to a car owner and mechanic and informs about upcoming regular checks. With it, drivers know about critical and non-critical issues as they happen and can contact the nearby mechanic via the mobile app.

Technologies used

- ASP.NET MVC
- ASP.NET Web API
- React.js
- Elasticsearch

- MongoDB
- SignalR
- Entity Framework
- MS SQL Server
- Serverless Functions
- JavaScript
- ASP.NET Core

- NUnit
- Unity
- PayPal integration
- Google APIs
- HTML5/CSS3
- NoSQL
- MS Azure
- iOS
- Objective C
- iPhone app
- Android app

- Java
- Unit testing
- SEO
- CDN
- Mandrill
- telematics hardware integration
- Bluetooth low energy
- GPS
- distributed application

5. IoT solution for Sport gyms

Sports gym owners together with sports enthusiasts are striving to keep track of their everyday physical activities and achievements. This is where our IoT-based solution has come into play providing customers with a reliable application that helps them manage, store and analyze all the sporting data on the go.

The Brief

To create a custom solution for a start-up that would target both corporate and individual users and would track their fitness

training activities indoor and outdoor from any possible sensors. This would allow collection and analysis of all the data for an individual within a single system. It would also give an ability to sell the product to both sports clubs and individual users.

What we did

- A desktop application was developed using WPF with a slick design, animation and gamification of indoor sports training activities.
- A web app was developed as a custom solution for sports club owners, instructors, athletes and end-users of the system.
- Mobile apps for Android and iOS were developed to work with the sensors through Bluetooth.
- An API and a data storage was developed to gather the data online from multiple users.
- Two types of sensors: power sensors inside bikes to measure power in watts based on speed etc., heart rate sensors to measure human's heart rate (pulse).

The results

We succeeded in leveraging both IoT and Big Data benefits to let our customers enjoy a highly effective and reliable app solution for managing their sports-related data.

- The data from the HR and power sensors is collected by WPF application and is passed through Web API to website's server. All the sessions are stored in database on website's server and each user can watch his own sessions data (HR, power etc.) on the website and via the mobile application. Admins can watch sessions data of different users.
- The developed software product gathered all the data in a raw binary format. The data was analyzed asynchronously by additional background custom processes that generated data for end-users, instructors and admins of the system in the form of graphs, maps and data tables.

Technologies used

- ASP.NET MVC
- ASP.NET Web API
- JavaScript
- MS SQL Server

- ASP.NET Web Forms
 - HTML5/CSS3
 - WPF
 - MVVM
 - Youtube API
 - Google Maps
 - Facebook API
-
- Objective C
 - WCF
 - iPhone / iPad app
 - Android app
 - ANT+
 - Bluetooth
 - BLE
 - WiFi
 - PSD to HTML
 - heart rate and power hardware sensors integration
 - PayPal integration
-
- Entity Framework
 - webcam
 - video streaming
 - TCP/IP server/client
 - threading
 - VLC player integration
 - Windows Media player integration
 - Strava.com integration
 - Umbraco

6. Flow Management Marketplace

We always keep tabs on the most urgent business needs and expectations of our customers to timely address the coming issues with a decent software solution. This time around, we revealed that there was a strong need for robust flow data management software that could help front-office professionals like project managers tackle their routine tasks on the go.

The Brief

Our task was to provide managerial staff with an effective yet easy-to-use solution for workflow optimization. We analyzed our customers feedback and some other sources to highlight the main features the solution should have to comply with all the requirements.

What we did

To make our flow management platform both usable and competitive, a number of development steps were taken allowing the system the following:

- Easily create and share customer-generated formulas and other assets
- Be a marketplace for professionals, that is to buy or import various formulas to be further reused in other projects' flows
- Smooth project completion with step-by-step fulfillment of required tasks
- Keeping track of every single task progress
- Improved management of complex projects due to task delegation, e.g. fast assigning of certain tasks to team members with respective skills
- Outsourcing tasks to third-party specialists and vendors

The results

The workflow management system we created enables professionals to create and share their data assets in the blink of an eye. As of now, users find it great to use the next features:

- Create unique schemes to be easily shared between team members and outside experts
- Rich access to a website's library where templates and ready-made formulas can be purchased or simply used free of charge
- Solid task orchestration for every single project
- Real-time Task monitoring and sequencing
- On-the-go task progress tracking
- A secure and transparent marketplace that lets vendors offer their services

Technologies used

- .NET Core
- React.js
- MS Azure

- MS SQL
- neo4j

7. CRM solution for Real Estate agencies

We always stay up to par with the level of expertise required to fully satisfy our customers' business goals. On gaining some invaluable insights from seasoned real estate professionals, we realized a lack of actionable CRM solutions geared for accomplishing specific needs of the industry.

The Brief

The solution was set to execute a wide scope of functions, including safe storage of enterprise data on a public cloud, software customization, data workflow optimization and many other important features that could significantly improve the overall business performance.

What we did

As a daily routine of every real estate manager entails a great number of repetitive activities, we decided to automate their work process with the following improvements:

- Set up of meaningful customer-oriented flows
- Streamline a website performance with effective CMS system
- Enhance execution logic throughout all business processes
- Fast and reliable reporting options
- Enable quick debugging to fine-tune the overall functioning.

The results

For now, real estate managers and agents can enjoy the benefits of our actionable CRM solution that fully resonates with their everyday business needs and helps improve customer experience.

- Cloud-based SaaS platform for seamless customer data storage, transfer, and import/export options
- Great data management tools for optimizing interaction with leads and customers
- Intuitive interface for on-the-fly notifications, reporting and task assignment

- Timely update and synchronization of real estate data between agents, partner portals and websites, and MLS/RETS property feeds.

Technologies used

- ASP.NET MVC
- ASP.NET Web API
- Azure
- C#
- MS SQL Server
- Entity Framework
- SignalR
- RETS
- DotNetNuke

8. SaaS compliance program for [COMPLY26](#)

Comply26 is a well-known SaaS provider offering its clients a reliable cloud-based compliance management system that ensures small, mid-sized and large-scale industrial and commercial households meet all the local and state stormwater requirements. The system enables users to replace all paper work with automated inspection reporting tools.

The Brief

With legacy code being one of the most obvious issues at that time, poor old school design left much to be desired as well. With all this said, the company needed a helping hand with its system's complete overhaul.

So, ByteAnt took the lead in project management and development of new features. It was agreed that the system would undergo responsive UI redesign along with automated reporting and proprietary features improvement.

What we did

We succeeded in enhancing the software functionality by efficiently restructure the initial code and introducing some other advancements, namely:

- Solid Refactoring of the legacy code
- Smooth migration to ASP.NET Core

- Fast payment gateway integration
- Streamlining of proprietary forms and reports
- Weather Alert feature integration with a respective API for timely triggered weather event notification via email

The results

After all, the system enjoys robust operational performance, great-looking UI design and a number of user-friendly features providing users and their partners with substantial competitive opportunities. So, for now, users can benefit from:

- Customizable inspection reporting forms, allowing users to add images and photos to text reports
- Easy sharing the access to a project hub with partners
- Responsive mobile-friendly forms to deal with a project on the go
- Automated notifications and reminders via preferable channels
- Intuitive interface design that stimulates customer onboarding

Technologies used

- ASP.NET MVC
- ASP.NET Web API
- MS Azure
- Entity Framework
- MS SQL Server
- jQuery
- Knockout.js

9. Social networking website for [STOREBOARD](#)

Storeboard is a popular social networking platform that opens a gateway to multiple business opportunities for small and mid-size companies all over the globe.

The Brief

As a social media website, Storeboard is a perfect place for all types of eCommerce initiatives like selling products online and interacting with customers, to say nothing of nonprofits' activities. However, the site suffered from a host of issues, including:

- Inefficient legacy code
- Poor UI design
- Unstructured siloed data sets

What we did

To reshape the website's overall functionality and appearance, ByteAnt experts significantly reshaped its look and enhanced usability via

- Complete web redesign of the platform
- MVC integration to optimize operational performance
- Ads module embedment

The results

The social networking platform now has feature-rich functionality coupled with great-looking intuitive UI design. Users feel free to:

- Create personal accounts
- Showcase their products, contact info, photos, links and suchlike on a profile page
- Stay in the loop with daily news, weather forecast, local events, etc.
- Gain personalized insights on shopping trends and customer buying preferences

Technologies used

- ASP.NET Web API
- Angular.js
- C#
- MS SQL Server
- ASP.NET MVC

10. E-commerce solution for a family of food brands

A unified group of well-known food brands decided to improve its operational performance with a solid and cost-efficient order management software solution.

The Brief

An eCommerce project embracing a number of brands within a single site was looking for a robust tech-enabled system to keep track of customer orders across various channels and process them in place.

Multiple brands of food united by a single business required an eCommerce solution to track and process orders in a single place. The solution to be capable of gathering information from multiple public facing web shops about a customer food preferences, able to analyse it and suggest similar products.

What we did

To fulfill the task and boost the system's operational efficiency, our experts made the following improvements:

- AspDotNetStorefront, a world's best engine for eCommerce stores was utilized to help create multiple shops online.
- Custom web apps with respective APIs were developed to enable smooth customer data collecting from various sources like Amazon and smaller web stores.
- A special data analytics algorithm was introduced to gather and measure customer order history and come up with personalized recommendations on similar products and the like.

The results

The solution developed by ByteAnt helped an umbrella company expand its digital footprint on the eCommerce market by providing fast customer-centered purchase opportunities to online shoppers all over the globe. It enjoys great usability empowered with fast page loading, intuitive interface and a personal touch in every detail. Enhanced order and shopping cart features have resulted in significant user experience improvement and added much to the overall brand value.

Technologies used

- AspDotNetStorefront
- ASP.NET
- .NET
- ASP.NET Web API
- ASP.NET Web Forms
- HTML
- ASP.NET MVC

- JavaScript
- CSS
- Amazon API

11. Identity Card

Identity Card is a cutting-edge tech-enabled solution embedded in a wireless credit card-sized gadget .

The Brief

The client reached us seeking for ByteAnt's proven expertise in ensuring strong personal data security, improving system interoperability and compatibility with various platforms, and optimizing UI design.

What we did

To safeguard customer data privacy and provide easy password management, our experts succeeded in doing the following enhancements:

- A specialized plugin was developed to connect via Bluetooth and store all user personal data in KeePass, an open-source password manager.
- Smooth integration of a one-of-a-kind Internet Explorer extension with KeePass via a dedicated HTTPS protocol as well as with single-page websites.
- Development of related plugins geared for Chrome, Firefox, and Safari browsers with similar functionality.
- Platform-specific responsive redesign for Windows, Mac, iOS, Android apps and wizard setup screens.

The results

The solution implemented for this project has greatly streamlined the entire performance and improved customer data storage and security. All this enables users to feel safe and sound while keeping their passwords and other confidential data away from being dependant on any cloud-based storage or other online services. On top of this, our intuitive user-friendly plugin compatible with the most popular browsers and integrated with KeePass password manager, improves user experience and attracts new audiences.

Technologies used

- .NET
- JavaScript
- C#
- CSS
- Bluetooth Classic Pairing
- HTML
- Win Forms