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The Art of Software Development

Online music education platform

Key Information

Industry:
Education

Project duration:
7 years (Ongoing)

Team Size:
6 specialists

Technologies:
- PHP, React Native, AWS, MySql, Javascript, Vue, Node

Services:
- Software architecture and design
- UX/UI design
- Software development
- Mobile app development
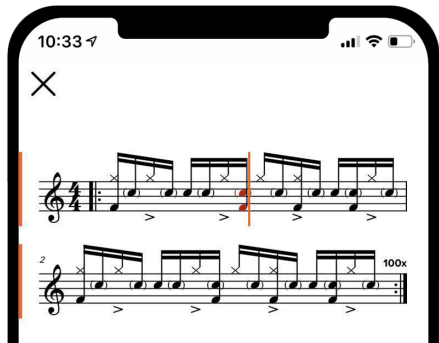- DevOps
- Consulting services

Highlights

- The platform specializes in **online music education**, facilitating song playing through a blend of teacher guidance, structured lessons, and user-friendly technology within student-focused communities.

- Our team encountered a **significant challenge** involving the synchronization of data from the legacy WordPress websites to the new **Laravel** framework.

- Our challenge included enhancing performance, reducing server load, and **optimizing costs**. Additionally, we had to manage increased traffic effectively to maintain seamless operations.

- Our team consolidated all company products into one platform and migrated the in-house e-commerce system to Shopify for the website and RevenueCat for the mobile apps.

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Product Overview

The product is engaged in **online music education.** It makes it easier to play the songs by combining teachers, organized lessons, and practical technology with student-centered communities.
They make a step-by-step curriculum. They provide a framework for students, blending technology with tradition to give them an affordable and supportive home base to reach their **musical goals**.
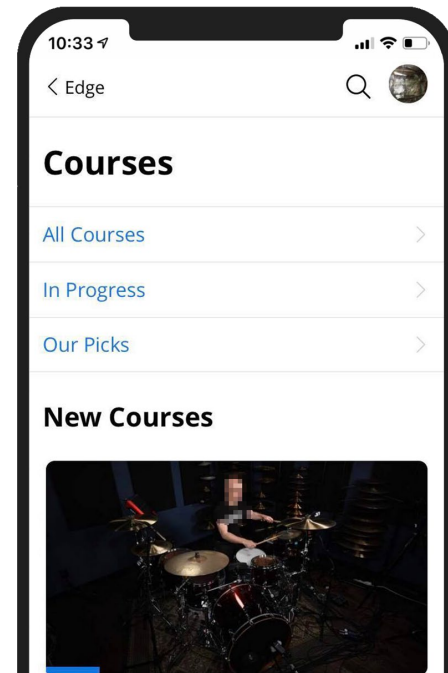
Requirements

The client was looking for a reliable software development partner to help with the migration of some old WordPress websites to a new system.

After the migration, the client also requested the implementation of several new functionalities for its existing platforms such as a tracking system for requests, a content management system with user restrictions, an e-commerce system, a chat system, and more.

The client also requested the implementation of websites for three new products, as well as the development of mobile apps for all its products for iOS and Android.
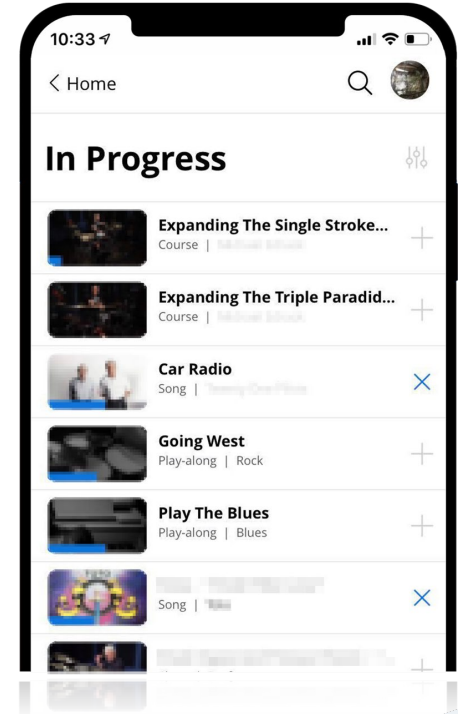
Challenges

One of the challenges our team faced was related to syncing all data from the old WordPress websites into a new **Laravel** structure, demanding meticulous data migration and system integration.

Another challenge was optimizing performance to enhance user experience while reducing server load and operational costs. Moreover, our team had the task of enhancing traffic handling to maintain seamless operations amidst increasing user interactions.

Additionally, integrating the new platform to consolidate all company products into one unified interface presented its complexities, as each platform had its particularities.

Our team of mobile app developers also faced a few **challenges** while developing the mobile app for Android and iOS, including:

- The client was looking for an app implemented in **React Native** language, a language that does not support some of the requirements out of the box (streaming mp3, custom video player, off-line functionality for authenticated users)

- Drawing the essence of a web-based system, rich in functionality and presenting the data on the screen of a phone and tablet

- **Communication with third-party systems** for content and user management.
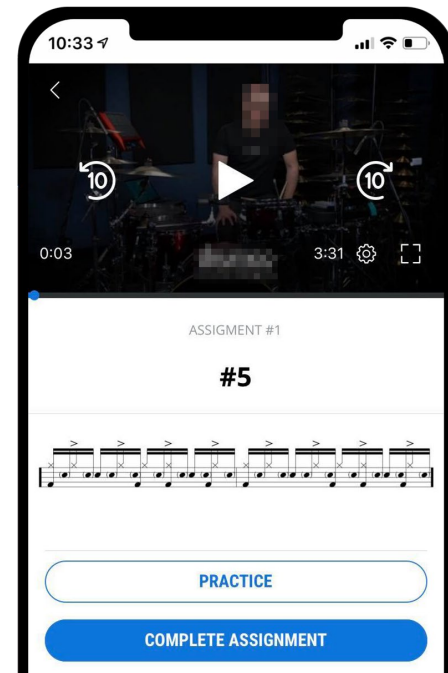
Provided solutions

Our team successfully migrated the old WordPress sites to Laravel. They also implemented new websites for the client's new products.

Over the years a large number of new functionalities have been implemented using the PHP language, as follows:

- Tracking system for requests
- Content Management system with user restrictions
- User progress tracking
- E-commerce system: PayPal/Stripe, discounts, access codes claiming
- Chat system and Forums
- Custom Notifications system for website and mobile app

- Accounting system
- XP - Bonification system
- Referral system using Saasquatch platform
- Redis cache
- Elasticsearch
- User playlists
- Integrated external systems such as Intercom (chat & notifications system), Maropost, Vimeo, Soundslice, and Helpscout
- Integrated Tracking systems such as Impact and Google Analytics 4

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Provided solutions

Our team developed the app on Android and iOS using React Native language. We incorporated all the features and functionality into the app as asked by the customer:

- Integrate third-party systems like the customer's Content Management and User Management for user content management

- Integrate external third-party systems like Intercom and Soundslice

- Implement a cache system to improve the performance of end users. The system speeds up app access, reduces latency perceived by the users, network traffic, and server load, and improves response time to the users

Our team built the new platform to consolidate all the company's products into one platform. The in-house e-commerce system of the website has been migrated to Shopify, and to RevenueCat for the mobile apps.

Features and components of an educational platform:

- Adaptive/customised learning paths that adapt to individual student performance and goals

- Monitoring progress throughout the learning journey

- Incorporation of gamification elements to enhance engagement

- Cohort-based learning experiences

- Interactive exercises and practice materials designed to facilitate skill development

- Live sessions and workshops enabling direct interaction with experts for real-time feedback

- Community features: discussion forums and expert chat

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Let's get in touch

ArtSoft Consult is a trusted partner in the IT industry, providing tailored solutions to address your unique business challenges.

With our proven expertise our team delivers innovative solutions and development services.

Drawing from years of experience and industry insights, we deeply understand this industry and we look forward to working with your business.

For more details on our services and team, please **contact us**.

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