



devolute

FUTURE-PROOF DIGITAL PROJECTS

PORTFOLIO 2018

ABOUT

TECHNOLOGIES

SOLUTIONS

PLANS

PROJECTS

CONTACTS

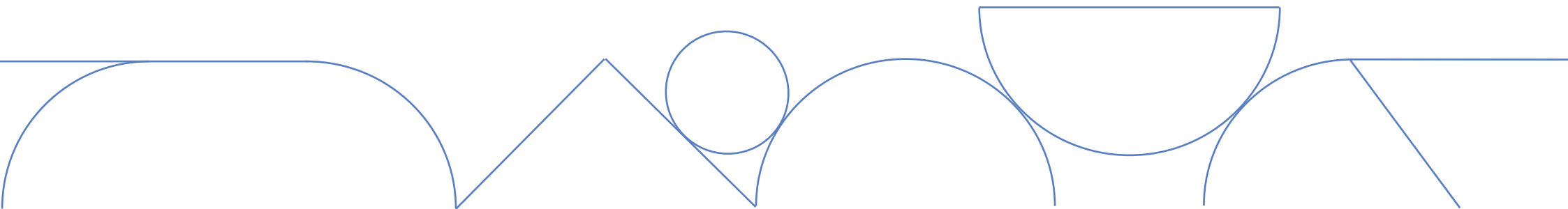
At devolute, we have grown into an excellent team while creating evolutive software, built for the long term.

The entrepreneurial mindset of our teams allows us helping our clients with much more than just code, whereas the several projects we onboard into, since over a decade, give us the necessary knowledge to provide our clients with quality services.

Our web development practices focus on **clean code structures**, **reliable testing**, and **precise comments**.

We know software development can be a very complex process on many levels. Decisions can sometimes be hard to revert. So we like to plan, even if we work with agile methods.

We rigorously follow our **workflow** and are highly committed to our **bi-weekly iterations**.



ABOUT : WORKFLOW



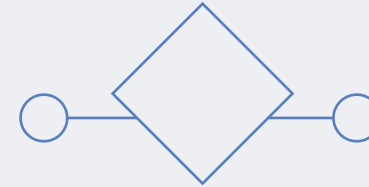
WORKSHOP

Let's define a clear vision of the final product and decide how to get there.



AGILE ITERATION

Watch your software grow and test it, iteration after iteration



PLAN & PROTOTYPE

Evaluate and prototype the different ways to meet your requirements.



DEVELOPEMENT

Everything will be build according to the plan, because we know our job.



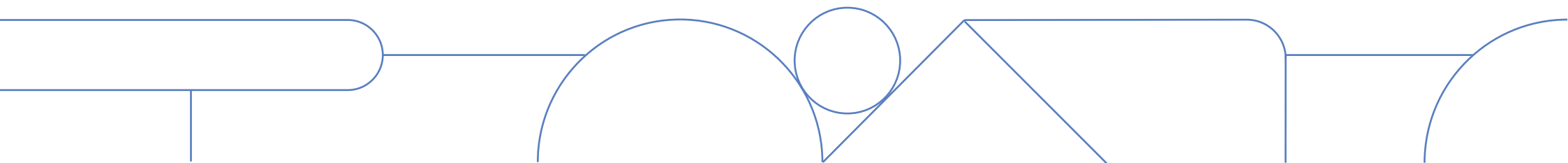
QUALITY ASSURANCE

Let experts assure that your software is being built on a healthy base.



MAINTENANCE

Long term care matters. We also take over that step and train you to do it.



TECHNOLOGIES : WE USE, KNOW AND RECOMMEND



RAILS



RUBY



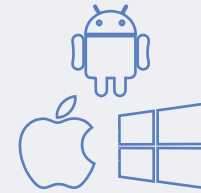
JAVASCRIPT



REACT



ANGULAR



MOBILE

We care for best practices when choosing technologies and tools. We ensure that your decisions in backend and frontend are made on a solid foundation. Together with you, we decide if an application should be developed in Microservices, as a Single Page application or as a standalone web application, depending on your roadmap and goals.

Our strategy is to use technologies that allow high quality and stability as well as speed of development at the same time.

SOLUTIONS : WHAT WE DO

UNIQUE WEB APPS

Customers and administrative accounts, database management, search engine, video encoding, payment... Pick the features you need and shape your application the way it has to be.

BUSINESS APPS

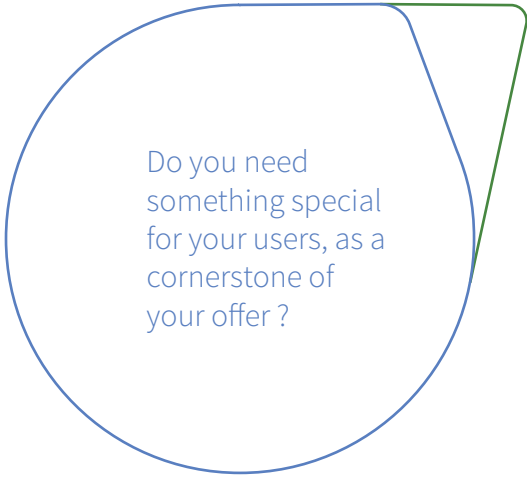
By being accessible from any Internet Navigator, you assure your internal software will be used without limitation from your employees. Get a software specifically tailored for your company.

MOBILE BACKEND

We often work with Mobile applications team: they use our expertise with backend (Database, Server, Performance) and combine it with their ability to develop beautiful apps on the main platforms, like iOS and Android.

CMS INSTALLATIONS

Content Management Systems allow you to manage a website without development skills. After a prototype customization to something reflecting your image, we give you all the keys to manage your website yourself.



Do you need something special for your users, as a cornerstone of your offer ?

SAAS BASED APPS

You can save weeks of development by delegating features of your service to external APIs. We help you choose the best APIs and quickly integrate them. We also develop APIs from existing applications.

eCOMMERCE

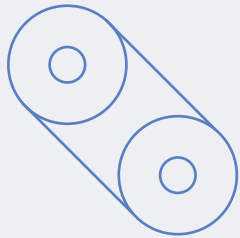
Sell your products on the web with an online-store that reflects your company. We set up powerful stores whose content is easily managed by you and your team.

SOCIAL MEDIA

We provide a battle proof toolchain for many social media platforms to create custom applications without pain and with concentration on the features they need.

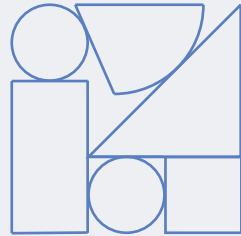


PLANS: FLEXIBLE INTEGRATIONS



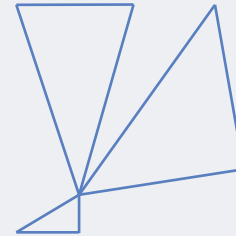
FULL-CARE PARTNER

We take care of everything. We help you translate your needs in technical requirements and develop, test and deploy. We also make sure that you get the best deals with external partners.



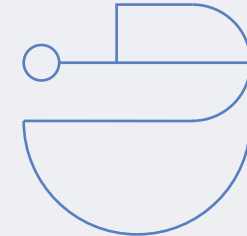
WORKFORCE

To reach a deadline or catch up with delay, our developers can jump in your project: they will become a strength for your team in no time, and are often valued for the additional knowledge they bring in.



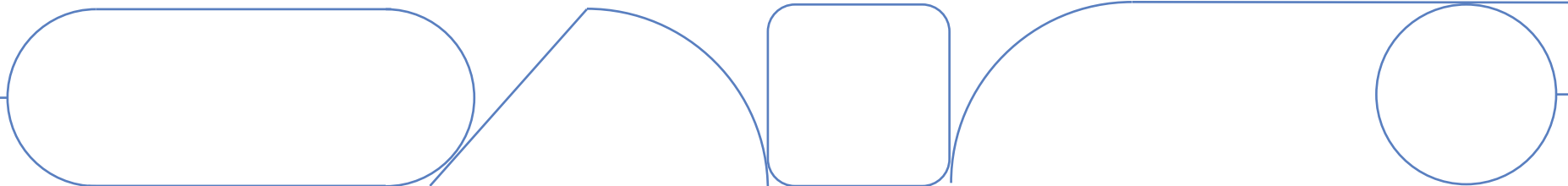
MENTORING

We help team members to improve their skills on technologies or practices. We work with them on the issues of your company, with emphasis on learning so they can work without us in the future.



CONSULTING

With a meeting per week or month, we help you to put things in a perspective and to take the best decisions. A few hours of consulting can sometimes save several weeks of work.



PROJECTS

EDUCATION

B2C

SOCIAL MEDIA

ONLINE SHOP

INTRANET

BUSINESS

MOBILE

API BASED

WEB

AGILE

HOW WE BUILT A RICH LEARNING ENVIRONMENT FOR LUDINC'S PROFESSOR S

Creating a rich, interactive experience for students required us to both master the technologies involved and to manage a dispersed variety of teams. When LudInc invited us to develop their first interactive learning game, we instantly knew the best approaches to overcome the challenges. The game, named after the lead character Professor S, had to provide complex functionality for adults while being easy enough for fourth-graders to use. We decided the best approach was to leverage REST-/JSON APIs to provide a feature-rich experience for teachers, parents, and most importantly, the students.

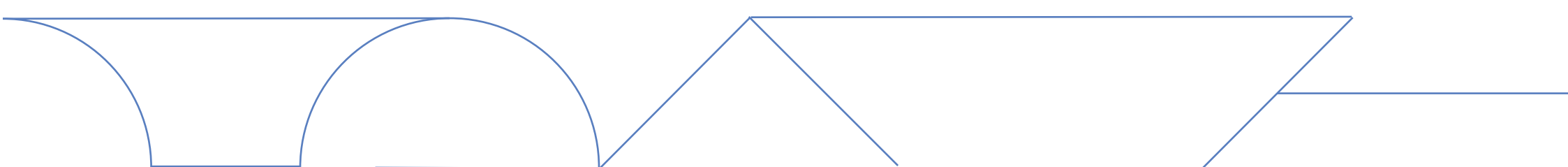
CHOOSING THE RIGHT TECHNOLOGIES

This distributed service-oriented architecture provided the robust framework to allow integration with the other technologies that we employed. This includes developing an intuitive yet highly functional frontend UI built with Angular.js and continuous unit testing with Jasmine. We deployed several Rails 4.x backends with PostgreSQL db and built a custom live messaging architecture using MongoDB. The innovative pub-sub library Faye gave users the power to upload, share and play images, sound and video messages across different users of the platform.

SUPPORTING ALL USERS

Managing these separate technologies also required us to manage and integrate different teams. We implemented an agile approach to Project Management based on Kanban to guide the 10-member team of designers, hardware engineers, product managers, and developers. At the same time, we were charged with providing extensive training for LudInc's in-house team which consisted of a variety of junior Ruby on Rails and Javascript developers. To help us complete our goal of both developing the project and coaching the teams involved, we worked closely with our partner UpStream.

After deploying the application, we realized that we provided a shared experience that was a joy for teachers and parents to administer and monitor while providing a great, creative environment where students could interactively learn and grow.



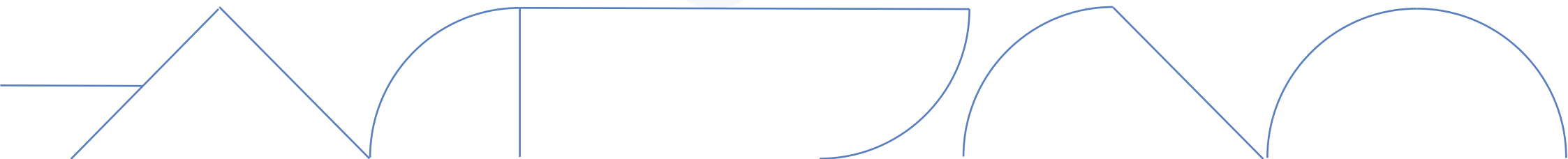
FULLFILING PUPILS NEEDS

For bildungscen e.v. we developed a custom platform that will allow around 500 schools to organize and communicate climate projects.

We covered all basic needs of project management, from organizing in different groups, assigning tasks and scheduling meetings. All of that in a very personal look and feel, to support connections between pupils across projects.

Pupils in each project can publish content to the public part of the websites, which provides an accessible overview of all the ongoing projects, and the people behind it.

BildungscenEV



BUILDING SHARES IN THE REAL WORLD

In a world of Facebook likes and internet shares, the power of sharing something physical takes on new meaning. When Blipcard wanted to create apps that enables users to send real-world printed postcards to friends and family, we immediately saw the potential impact. Imagine sitting on a beach, photographing a gorgeous sunset and using using the Blipcard app to send that image as a postcard to loved ones back home.

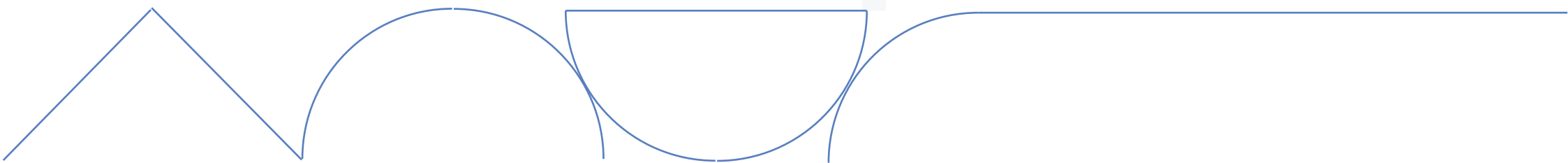
MORE FEATURES = MORE ENGAGEMENT

We decided to add even more functionality by enhancing the app with a powerful image editor. Users can combine multiple images into unique and custom photo collages. We also enabled more options by allowing users to add stickers for an even more fun and rewarding experience. We expanded functionality because we know that a more feature-rich application, results in a more enjoyment for the end-users.

FULLY INTEGRATED FROM FRONT TO BACK

While keeping the front end feature-rich, we integrated an easy-to-maintain backend that included robust analytics delivered from a custom, close-to real time statistics interface. The Blipcard Dashboard needed to collate all user data while simultaneously loading and delivering all the analytic widgets and charts. We intelligently aggregated the data in a MongoDB to power asynchronously loading widgets and charts developed with Angular.js and Chart.js.

Blipcard



CREATE AND SEND PHYSICAL LETTERS VIA THE INTERNET

Imagine being able to open a browser, create a letter, and have it automatically sent to different users via regular post. That is the vision behind Quabb's Mail-Optimizer which allows individuals and businesses to rapidly create and send physical letters to any number of end-users. The application allows fine control of the final letter including line-spacing, color/black and white printing, and typesetting. This final letter is then delivered via the post or as a digital format or both!

ALL THE FEATURES FOR LETTER WRITING

The application combines a complex PDF generator with a high-powered text-recognition system allowing the users to accurately create their letters. The bulk text recognition works efficiently by completing the tasks with a distributed system.

IMPROVED PERFORMANCE = IMPROVED EXPERIENCE

To give the best performance, our Ruby on Rails backend leveraged Resque Jobs to run all tasks in parallel. This combined with a distributed system increased performance by speeding up tasks that normally require a heavy load, like text recognition. A simple Twitter Bootstrap frontend and Javascript UI widgets made the application friendly, approachable, and easy-to-use.

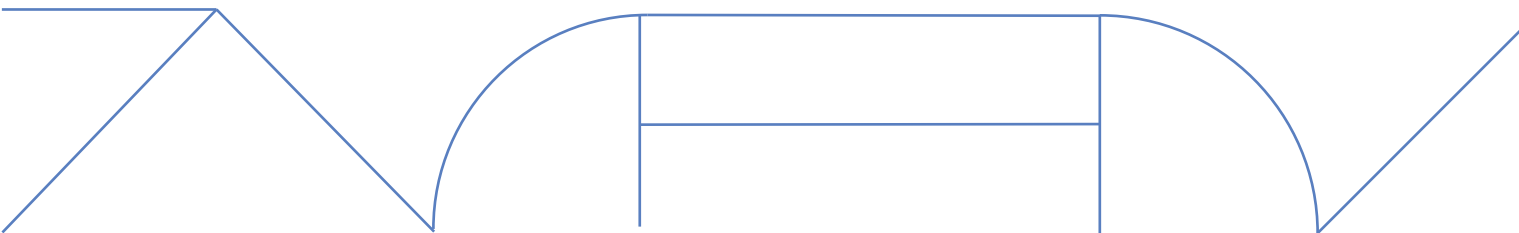
Quabb

FULL CONTROL OVER PLAYLISTS

With Bureau Export and Institut Francais we have developed and designed a music app based on deezer.com called Chic Schnack. Using the deezer API, Chic Schnack lets its users listen to musics and playlists related to French culture. The playlists can be shared in Facebook or added to the user library Admin users can add & edit links, texts and album cover pictures in the different pages of the app -- New Releases, Artists & Labels, Playlists -- and easily create new playlists.

We also built a custom JQuery-based slider. Placed at the center of the home page, it allows users to quickly select among a selection of playlist.

ChickSchnack



CREATING RICH INTERACTIVITY ON SOCIAL MEDIA

'So, you want an application that combines the largest social media platform with the largest independent music sharing site and open it up to hundreds or even thousands of users? No problem!'

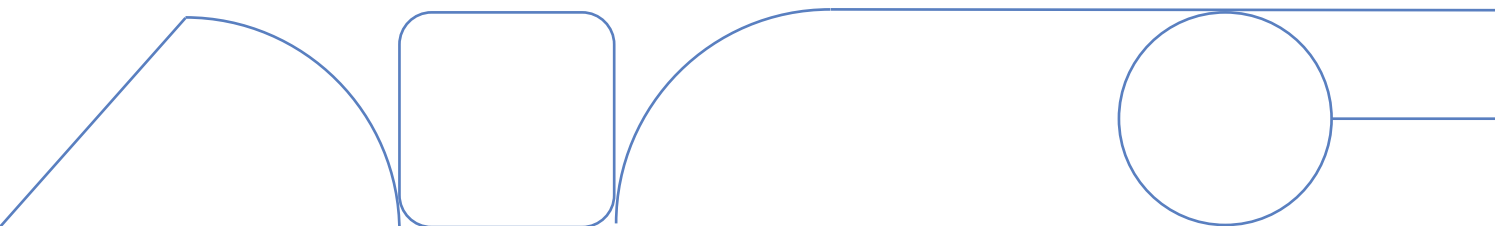
This was our initial thought when Asus and Intel wanted a social media application for the Asus DJ Challenge. The idea was straightforward: find Germany's most talented and ambitious DJs. The social media application would allow users to upload their music to Soundcloud where it could be rated by other users to determine a winner.

COMBINING A CUSTOM APPLICATION AND A THIRD-PARTY API

We used Ruby on Rails to keep the application's performance optimal. This also allowed us to easily handle the large file sizes that come with audio files. Lastly, we quickly learned the nuts and bolts to the Soundcloud API which allowed us to get the most out of the platform.

In the end, we provided a responsive application that met the rigorous requirements of Asus and Intel while providing a fun and enjoyable user experience for all.

Asus



CONNECTING FANS AND IDOLS

For Warner Brothers we created a Facebook App with a contest where the winner could get a meet and greet with one of the actors.

It involved a nice workflow for setting up the contest logic via CSV-Import and some nice UI behavior.

WarnerBrothers

A NEW APPROACH TO AN eCOMMERCE SOLUTION

In our answer to the old debate, 'does form follow function' we worked closely with the Berlin Agency BANK to create and implement a unique design for the Extratapete's eCommerce platform.

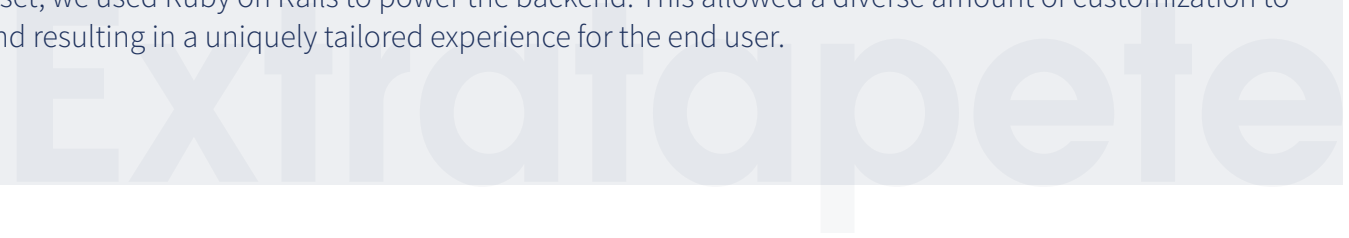
The design was based on the idea that the product should be the most important aspect of the platform. To achieve this, we coupled a custom full-screen image slider with the ability for users to view each product as the background of the page. A simple yet modern navigation system allowed users to easily view and compare multiple products.

eCOMMERCE WITH THE USER IN MIND

We realized users could greatly benefit from a site that could provide product suggestions based on the user's path while navigating the website. Plus, users could easily view different variations of the same product. Additional features for the site included localization in both English and German versions and the ability to accept payments via PayPal.

CUSTOMIZING SPRECOMMERCE

To support a custom feature set, we used Ruby on Rails to power the backend. This allowed a diverse amount of customization to the SpreeCommerce front end resulting in a uniquely tailored experience for the end user.



FOCUSING ON THE DIGITAL NATIVES

For the online magazine DIE WELT we have created a election survey with a live updating chart of the election results. Visitors of the trade fair dmexco could vote a party before the official parliamentary elections in 2013. Visitors could also see the results live on their mobile devices.

DieWelt

SOCIAL SHARING FROM THE SCRATCH

We wanted to challenge ourselves to provide a social-sharing experience from scratch. So we decided to bootstrap the calendar-based planning application called Justplan. We used an iterative, lean process to develop the correct feature set that combined complex social network functionality with an easy-to-use interface. And of course, no application is complete without mobile application support.

THE CORRET STACK FROM THE FRONT TO BACK

By combining Ruby and Rails with an AngularJS frontend, we were able to match performance with functionality. We even added a backend API to support mobile users as well.

JustPlan

MIGRATING PEOPLE AND DATA TO A NEW CORPORATE WEBSITE

A successful corporate website redesign is much more delivering a bunch of new code. When Fraunhofer Fokus asked us to update their website, we started by analyzing their requirements. From there, we were certain which technologies would provide the best results. Fraunhofer Fokus needed a series of microsites in 11 Competence Centers with each area benefiting from their own layout and content. Events would be promoted as ‘teasers’ within each sub-domain. To create a united experience, all pages on the site could be translated into any language and accessible with the push of a button. It was important that easily-customizable contact forms be available on any page. And a unified yet filterable Search Engine would provide the most cohesive experience for the end-user.

NEW TECHNOLOGIES PROVIDING NEW FEATURES

We knew we could achieve these goals by leveraging Ruby on Rails and by providing a customize feature set to Infopark’s CMS Scrivito. With a combination of Rails Connector and a custom rails application we developed, importing data from the previous website was seamless. However, the real key to success relied on us helping their internal web team get up to speed with the underlying technologies.

PREPARING THE TEAM FOR THE ROAD AHEAD

The internal team was new to Ruby on Rails so we provided a ‘learning by doing’ model to get them comfortable and competent with the underlying technologies. This meant keeping the internal team as an active part in creating the features and enhancements while being available to answer any questions that came up during development. By spending several days pair-programming, we left the team confident in their ability to maintain and modify the platform in the future.

DEVELOPING AN AUTHOTING TOOL THAT PROVIDES FEEDBACK

Many WYSIWYG editors provide the same functionality. A place to type, some buttons for markup, and small amounts of feedback.

When developing Text Provider, we wanted to create a high-end text editor that included live quality feedback to help the user meet the correct syntax and semantic style requirements. This included the ability to provide identification and markers for modal verbs, clauses, anglicisms, and statistical data.

SIMPLE YET ROBUST

To meet these challenges, we developed a parser for natural language using the Python framework NLTK. The UI itself was all done in Javascript to provide the WYSIWYG editing functionality found in editors in TinyMCE and Mercury.

TextProvider

A TOOL FOR CREATING CONTENT FROM IDEA TO DISTRIBUTION

Moviepilot asked us to help streamline their content creation processes and workflow.

The goal was to empower writers and editors to rapidly draft, develop, and distribute new articles. To achieve this goal, we developed a custom editorial system.

PROCESS AUTOMATION AND FEATURES FOR THE WRITER

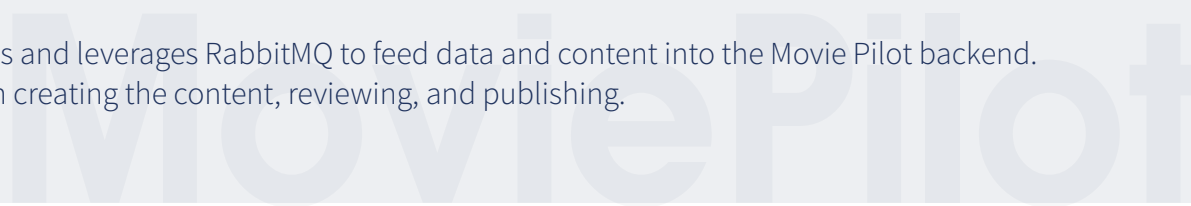
The new editorial system displays the entire article workflow starting with ideas for articles and tracking article research and editorial review. All written content was creating in a customized markdown editor that continuously auto-saves edits while providing a live preview of the content as it will appear on the web.

Lastly, the tool would manage publishing the article to the world. But of course, simply publishing an article is not enough... You must tell the world about it!

So we included the ability to generate social media posts to highlight new content and to drive traffic to the site using the Facebook API.

THE 'WRITE' TECHNOLOGIES

The tool itself is built using Ruby on Rails and leverages RabbitMQ to feed data and content into the Movie Pilot backend. This provides a seamless transition from creating the content, reviewing, and publishing.



SOLAR PANEL SHIPPING IN DEVELOPING COUNTRIES

The solar energy supplier One Degree Solar had the desire to build an industry leading sales and support network using mobile phones, while building customer databases and two-way contact with end-users even in areas without a full coverage of internet. We built a CRM to accomplish their purposes.

OneDegreeSolar

VOICE AND SMS SUPPORT

We developed a helpline with interactive voice response with Tropo and Ruby, a powerful yet simple API that adds Voice and SMS support to the programming languages you already know.

FAT

CREATING A REAL TIME CALENDAR

Kweekweek wanted their mobile application to social calendars by discovering and suggesting local events in real time. This included a range of social activities including music festivals, concert, art exhibitions, comedy shows, and dating events. The application would allow both attendees and hosts to provide information on an event and to automatically update their social calendar.

HOW WE RAPIDLY DEPLOYED THE MOBILE APPLICATION

With the right technologies, even complex mobile applications can be rapidly developed and deployed. For Kweekweek, we went cross platform by creating native applications based on PhoneGap and Backbone.js to keep the application light weight and easy to maintain.

KweekWeek

COMBINING TECHNOLOGY AND POLITICS

When a company like Google is involved, you want to get the application correct. So we knew the content management system we created for the Google initiated association Internet & Gesellschaft Co:llaboratry had to be high-performing under load. Their Co:Lab Netz-Radar was an ambitious project to provide a guide for citizens to understand the sometimes confusing world of net politics.

USING MULTIPLE APIS

To achieve our goal, the CMS had to be able to interact with a variety of APIs including Google Sheets, Google Calendar, and Disqus. The resulting application would be cloud-hosted and ultimately open-source for others to build upon. A high-performance cache layer was added to make sure the application provides the desired results.



ANIMATED TAG CLOUD WITH A CLUSTER STRUCTURE

Together with New Dialogues and the Charite Berlin we developed an interactive animated tag cloud for visualization of terms and relations and used a Javascript implementation with a special algorithm for a flexible dynamic positioning of tags in a cluster structure that other tag clouds usually don't provide.

Charité

ROCK SOLID PROTOTYPING

Doonited was bootstrapped by us and the first project we created with our rock solid prototyping tool kit.

The cool design of Doonited's artist made this work fun. The application runs on Heroku and uses various modern techniques.

Doonited

SUPPORTING THE CTO AND THE TEAM

We were mainly responsible for the code architecture and in permanent technical knowledge exchange with the CTO and the development team for the existing software of the Digitale Seiten platform. Additionally, we supported the team with front-end development.

DigitaleSeiten

OFF THE SOFA, TO THE CITY

Twotickets is a python based platform,where we supported the existing team and helped with creating a rather difficult search with Apache Solr.

TwoTickets

MADE IT WORTH

Friendticker asked us to create a very lightweight service oriented architecture as a prototype for scaling purposes. We made our choices and it is really lightweight.

FriendTicker

SUPPORT ON THE BACKEND

We supported Helpster and Pointoo creating the applications for their backend processes.

Helpster+Pointoo

REVOLUTION IN ONLINE DATING

MeAndYou gave us the chance to help them with their both technologically and functionally, innovative rails stack. We also helped them to get their app running in legacy browsers.

MeAndYou

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