

JavaOne
edition 2012

dock



world of web applications

Introducing Vaadin += GWT

Best of client and server development

Get inspired by our case studies

Web Application Scalability: Vaadin goes Movies

Through the lens: [Jonatan's photographs](#) show the beauty of ordinary places

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Federation
WebOrder Groep H.Essers
Devovx
Aktia Forms Generator – Aktia
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When passionate people meet, bright ideas are born
Get to know us!

A new channel for sharing information
Vaadin & S GROUP

Proving the scalability of Vaadin

From different working patterns to new insights
Vaadin & If P&C Insurance Company

Behind the screens
Check out what happens!

Through the lens
Jonatan's photographs show the beauty of ordinary places.

Vaadin use by country
Who is using Vaadin?

Editors Sami Ekblad, Tuuli Eltonen and Jari Salonen
Photographers Jonatan Kronqvist, Marc Englund and Jenni Virta
Art Director Manu Suominen

dock }>

This is a magazine for your inspiration. Here we introduce a few of our case studies along with insightful articles about the team behind Vaadin. Take a moment and enjoy.



When passionate people meet, bright ideas are born



What do we need for developing the best possible tools and services for web applications? A passionate group of guys with a mission of continuous improvement. “We are explorers of what is possible and our goal is to make the impossible easy. The team breathes technology and loves to share thoughts with one another and the community of like-minded developers around the world,” says Joonas Lehtinen, CEO and co-founder.

Vaadin was born with this idea in mind in July 2000 in Finland.

– At the time we were developing a large web-based solution for the health care sector and we noticed that all available tools and methods were too arduous to use in a project of this scale. So we founded Vaadin to offer the much needed technology and services for software development teams everywhere, says Lehtinen.

Over ten years have passed since the company was founded and the development has been fast. Today, over 80,000 developers from all around the world use the developer portal each month. The company has offices in Finland and the US. A new office is just about to open in Germany.

Together U and I

Vaadin’s team consists of over 50 developers who have a passion for bending the limits of what is possible to do in web. Technology, innovation and openness are essential at Vaadin.

The way of building a solid open foundation is reflected both in the product as well as in the company culture. According to Lehtinen, there is always space for one more talented professional on the team. Technology and innovation are valued over convention and status quo.

– Our mission is to make the building of the best possible web application user interfaces easier and easier. New ideas and continuous learning are welcomed and we encourage our staff to speak up and find solutions together. Developers can use 10% of their work time to innovate freely, participate in the community and build whatever they want outside their regular projects. It is all about expressing oneself and belonging to our community. The results are best seen in Vaadin Directory and in the Forum.

Great Expectations

Vaadin’s core technology is free and open source. Commercial products and services add value to software development projects that are using Vaadin Framework.

– Our expertise in web technology, java enterprise technologies, usability and design are created to complement the work of our customer’s team – either directly or by building products for developers, Lehtinen sums up.

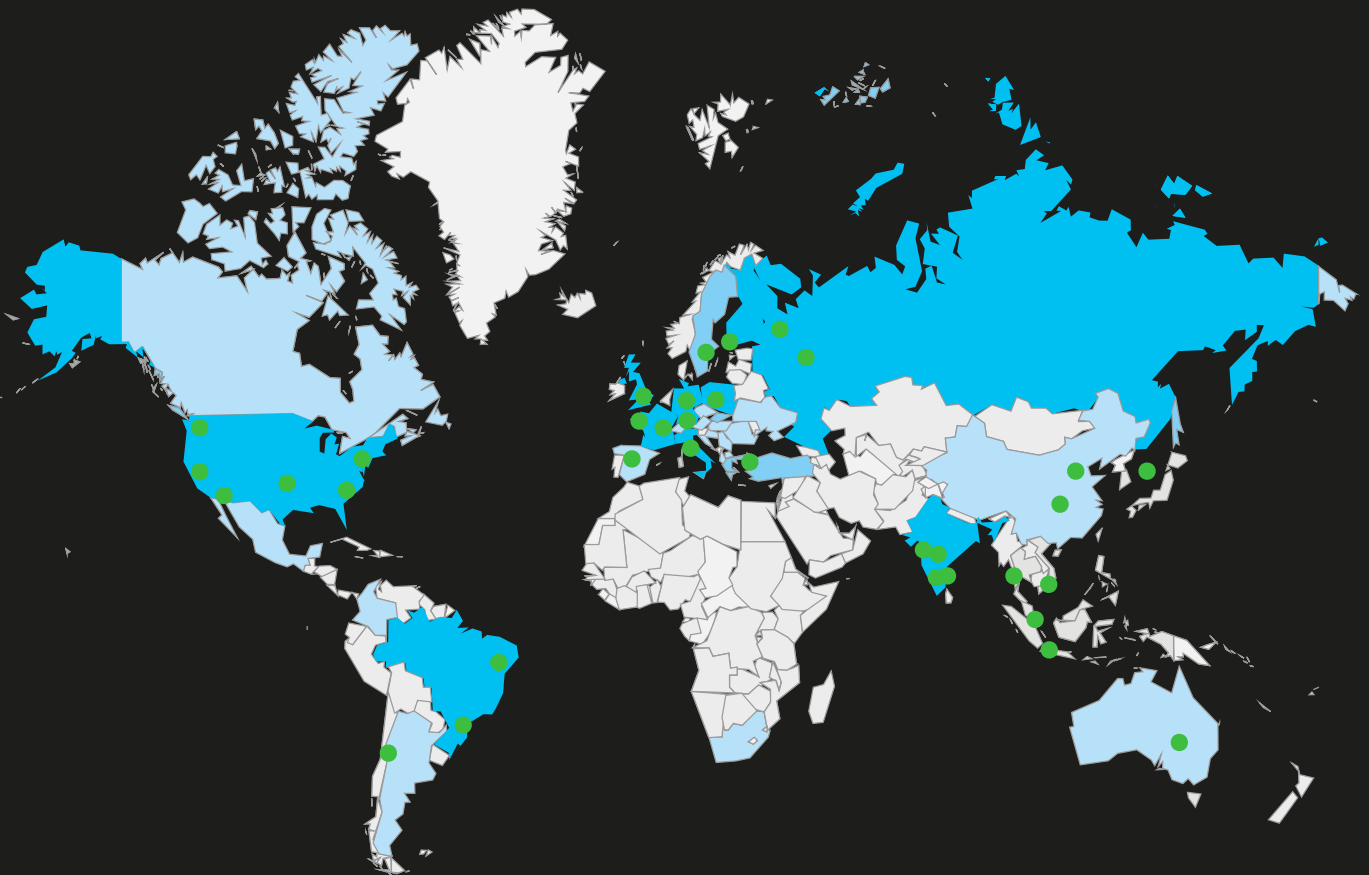
Vaadin is constantly evolving and the company’s focus is clear. So, what is the next step? Just wait and see. [▶](#)

Vaadin use by country

92k

Over 92,000 developers
from 6,500 cities use our
community portal monthly

1. United States
2. Germany
3. India
4. France
5. Italy
6. Russia
7. Finland
8. Poland
9. Belgium
10. United Kingdom





In Q4 2011, the use of Vaadin grew 98% from the previous year

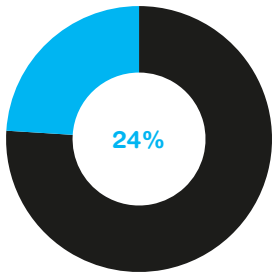
11
years

First Vaadin based enterprise system has been in production since year 2001

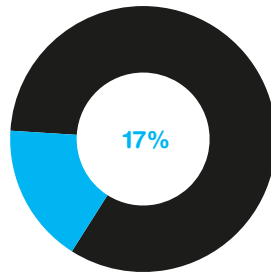


There are 281 add-on products available for Vaadin

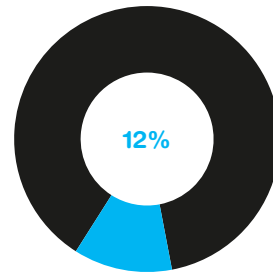
Industry



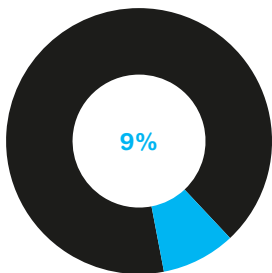
Business Services



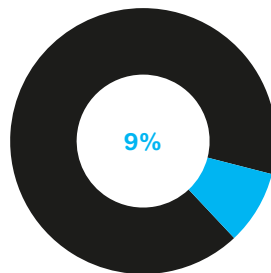
Technology



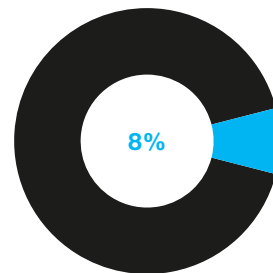
Financial and Insurance



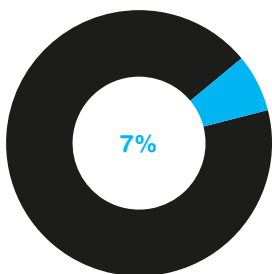
Education



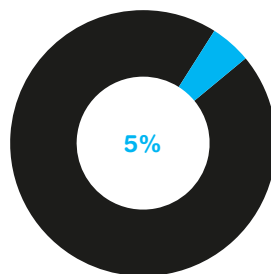
Healthcare



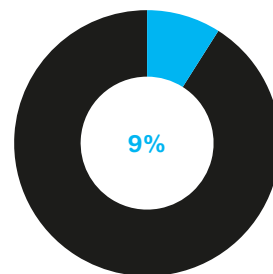
Telecommunication



Industrial Goods



Transport

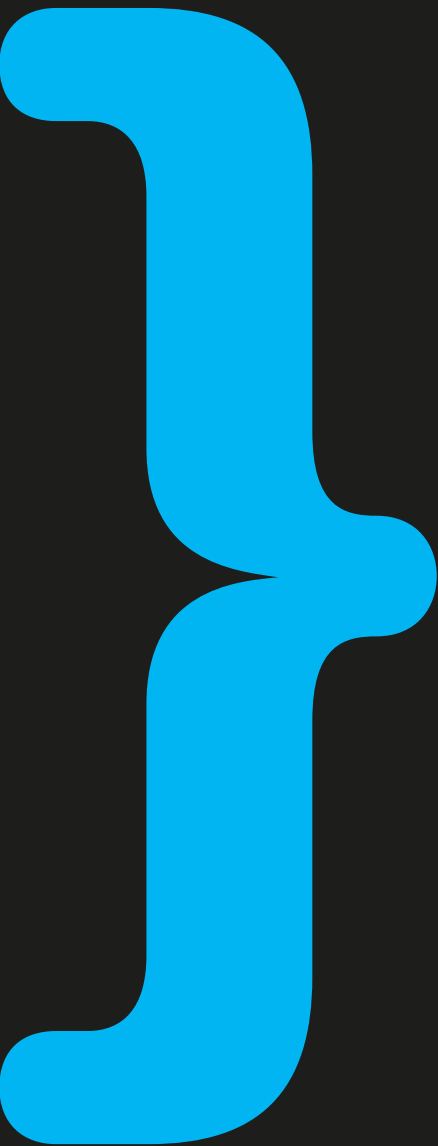


Other





The Mermaid



RUMS SAIC (USA) Aerospace

The Remote User Monitor Station (RUMS) is a web portal created to facilitate certain NASA air traffic research experiments by allowing researchers to interact with the Unmanned Aircraft Systems Research Platform (UASRP) in the Distributed Simulation Research Lab (DSRL) of the SimLabs group at NASA Ames Research Center.

RUMS is a Vaadin application that allows authenticated users to monitor an experiment in real-time outside of the DSRL environment, and allows users to download research data from the UASRP server on-demand. The RUMS client features a live display showing the DSRL simulated air traffic in real-time. RUMS also enables user interaction with other components of the UASRP such as a SQL database. In addition, RUMS provides simulation status information as well as graphical representations of statistical measures regarding aircraft separation and traffic collision avoidance data.

From the RUMS user's perspective, using the Vaadin framework enables researchers to access the UASRP in the simplest possible way: with only a web browser, without special plug-ins, and without placing any other installation or usage dependency requirements on the user's end. From the application's architecture, development, and maintenance point of view Vaadin leverages our in-house Java expertise and allows us to take full advantage of the rich Java library APIs.

George Soler, Aerospace Software Architect, SAIC

 <https://vaadin.com/showcase/rums>

No Service

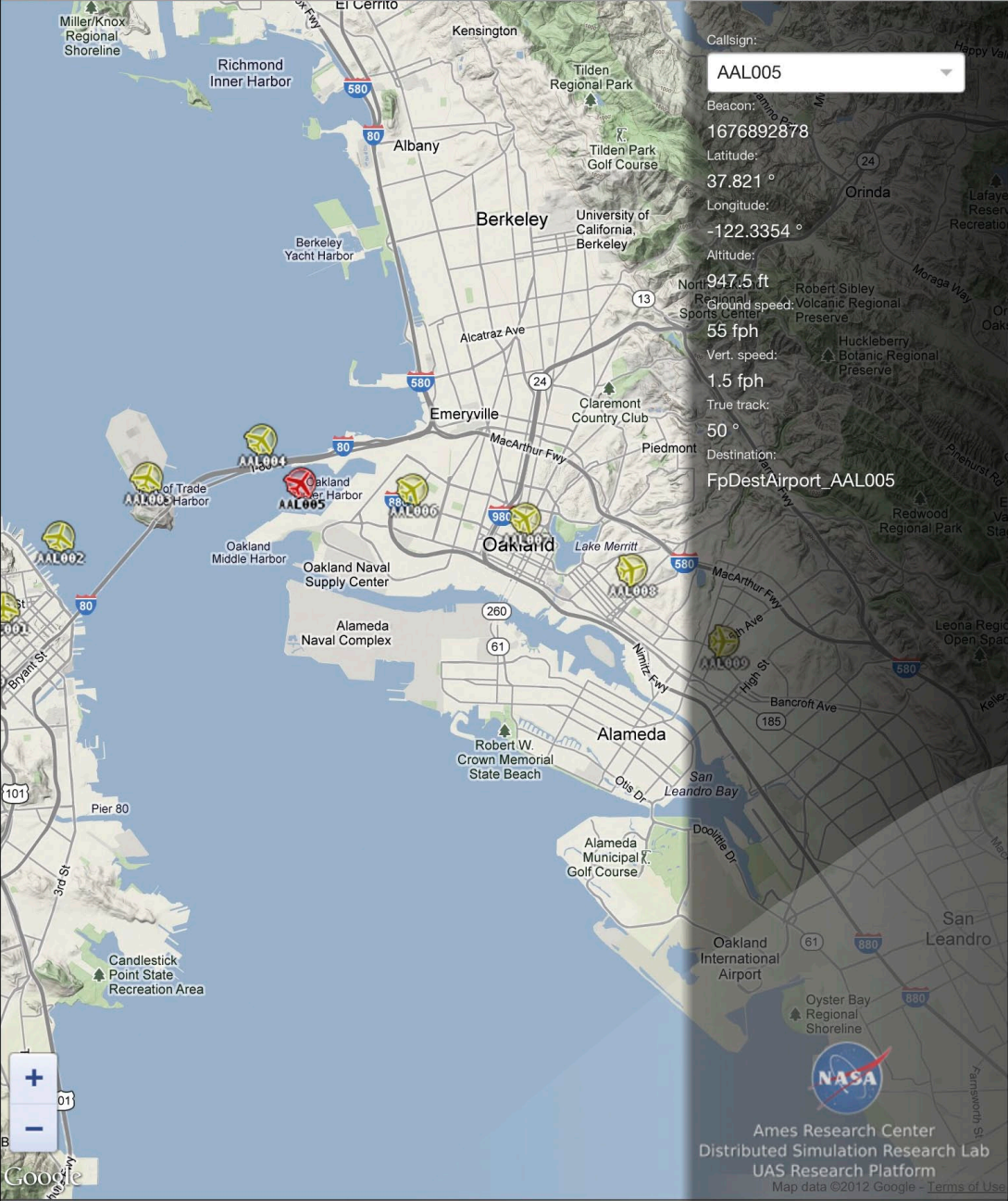
13.52

41%



UASRP

logout



Ames Research Center
Distributed Simulation Research Lab
UAS Research Platform
Map data ©2012 Google - Terms of Use

Status
 Traffic
 Separation
 TCAS
 Database



Space Applications Services (Belgium) Aerospace

Space Applications Services is a independent Belgian space technology company, founded in 1987, whose aim is to develop innovative systems, solutions and products for the aerospace markets as well as related industries.

The company designs and develops spacecraft control centres. It also operates International Space Station (ISS) payloads from control centres (User Support and Operations Centres – USOCs) in Belgium and the Netherlands. The USOCs are responsible for the control and operation of several scientific payloads on-board the ISS. As part of the ground control facilities for the future ISS experiment ACES (Atomic Clock Ensemble in Space), a web-based user interface has been developed to provide access for operators located in the control centre as well as for remote access for scientists and payload developers.

The screenshot displays the ACES G/S web interface. At the top, there is a browser window with the title 'ACES G/S' and a search bar. Below the browser window is a navigation menu with the following items: 'Aces', 'Administration', 'Configuration', 'Planning', 'Monitoring', 'Data Access', and 'Help'. The main content area is divided into two sections. On the left, there is a 'Categories' sidebar with a tree view. The 'L2B products' category is selected and highlighted. On the right, there is a main content area titled 'Found 312,397 products'. Below this title, there is a message: 'The catalog browser is not yet fully... the catalog, but other functions are...'. Below the message, there are three buttons: 'Select...', 'Sort by...', and 'Show...'. Below these buttons, there is a list of products, each with a checkbox, a title, and a 'More detail' link. The products listed are:

- L2B - Combined Orbit Fit and Predicted C
[More detail](#)
- L2B - Near Real-Time Orbit Determination
[More detail](#)
- L2B - Short Term Orbit Prediction (#5:51)
[More detail](#)
- L2B - Combined Orbit Fit and Predicted C
[More detail](#)
- L2B - Near Real-Time Orbit Determination
[More detail](#)
- L2B - Short Term Orbit Prediction (#5:51)
[More detail](#)
- L2B - Medium Term Orbit Prediction (#5:
[More detail](#)
- L2B - Combined Orbit Fit and Predicted C
[More detail](#)
- L2B - Short Term Orbit Prediction (#5:51)
[More detail](#)

The GUI supports all required functions ranging from planning, real-time monitoring & control, quicklook displays for science data and user administration to data dissemination.

A particularly demanding requirement to integrate the interface with legacy applications made the use of a server-side web development framework almost a necessity, thus making Vaadin a logical choice. The architecture of Vaadin allows for a seamless transition of user interface functionality between server and client depending on the usability and performance needs. This capability proved to be very powerful when designing this real-time monitoring application.

→ <https://vaadin.com/showcase/space-applications-services>

The screenshot shows a web application interface for "ACES MWL M&C WS v0.6.0-SNAPSHOT". The top navigation bar includes the title, a search icon, and the user status "Logged in as Test User" with a "Logout" link. Below the navigation bar, there is a "Product Catalog Browser" section. The main content area is divided into three columns. The left column displays a list of data items, each with a dropdown arrow and an "Add to cart" button. The middle column is a filter panel with a dark header "Inserted" and a list of time-based filters: "Any time" (selected), "Past hour", "Past 24 hours", "Past 2 days", "Past week", "Past month", "Past year", and "Custom...". Below this is a "Proprietary right" section with "Data validity status" options: "Not checked", "Invalid but released", "Valid", and "Invalid". It also includes "Expiration date after" and "Expiration date before" fields with date pickers, and "Ok" and "Clear" buttons. The right column is a vertical sidebar with several status indicators: a green box showing "16:08:17 UTC", a yellow box for "MWL FS Status", an orange box for "MWL GT Network", another orange box for "ELT Network", a red box for "OC Status", another red box for "Comm Status", and a light blue box at the bottom showing "0 Msgs".



Team: 1. Johannes Häyry 2. Jouni Koivuviita 3. Rolf Smeds 4. Hannu Salonen 5. Petter Holmström 6. Kim Leppänen



A new channel for sharing information

A desire to modernize the communication process between managers and personnel drove S Group, a Finnish network of companies in the retail and service trades, to do business with Vaadin. The new application “Dooris” is a composite application, which gathers information from other systems and shows it to users. Dooris was carried out as a multi-supplier project; Vaadin was responsible for the user interface.

Dooris brings communication processes at S Group to the next level. The whole project was carefully planned beforehand, but the actual execution was fast.

– Dooris is an application that is made to serve our staff via both computer and mobile phone. It eases the whole communication process. In the first phase the employees can browse work shift schedules, see if extra shifts are available and make requests, for instance. Dooris was piloted in a hypermarket, Prisma Kajaani, says Project Manager Anna-Kaisa Hakala from S Group.

Importance of users tests

– One of the aims of the solution was that it had to be so easy to use that there would be no need to train the users at all, says HR Manager Sirkkaliisa Kulmala from S Group.

project underwent some changes, which were found to work well in the second test, explains Project Manager Kim Leppänen from Vaadin.

Looking beyond the screen

– The variety of end-users is wide. There are people of different ages with different abilities to use technology. Because of this, Dooris had to be made so easy that the user could get a grasp of it right from the first sight. In planning solutions for these kinds of projects you learn to challenge your own thinking patterns, says Interface Designer Hannu Salonen from Vaadin. He continues:

– One challenge in the project’s mobile phone interface was that we don’t actually know what kind of phones people have. We had to do a kind of detective work, after which we defined the solution’s format and the

”We have high expectations for further developments of Dooris”

Smooth cooperation

Kulmala praises both the cooperation between the suppliers, meeting the project schedule, and the usability.

– We sought out to find a reliable supplier, who used technology that is both new and existing. We wanted to find a partner who takes us towards new possibilities and ways of working. Vaadin was an unfamiliar operator to us before this project; we chose Vaadin through a tendering process. The cooperation has proven to be very pleasant and we are looking forward to working with Vaadin in the future, too. [▶](#)

”Keeping promises is the most important thing.”

User tests played an active and central role in constructing a valuable solution. Based on the user experience the original plan found its final form.

– The first user test with five end-users was done based on a crude model. A second user test with four end-users was done later on using a prototype. After the first test the

minimal requirements.

According to Salonen, the best thing was to see how the solution is used in everyday situations. Then you can see the real issues which can undermine the usability.

– We have to take a look outside our screens. Then we understand in a completely different way how our decisions really come to life.

Cadeau.nl Sophie Retail and wholesale

To help our clients in choosing a gift we have created an online virtual assistant called Sophie. Sophie stands for "Sophisticated Present Engine".

Sophie is a self-learning system, which asks simple, clickable questions in order to learn about the person to give a gift to, and then presents the top 10 most suitable gifts. These products can then be bought in our online gift shop. The questions Sophie asks are: man/woman, age, some questions about personal preferences (e.g. choose between shopping or a book) and some about product preferences.

The technology behind Sophie is Collaborative Filtering. This is a proven algorithm used to generate recommendations. Amazon.com is known to be one of the first companies to introduce the use of this algorithm for making recommendations. Cadeau.nl reworked the input for this technology to give pre-sale advice to gift shoppers. Sophie is greatly appreciated by the cadeau.nl customers, who see her as a valuable help.



Gelegenheden

Inspiratie

Ca

VITRIINI

Vitriini > schitterende vitrines > vanaf € 19

Populaire cadeaus



Why Vaadin?

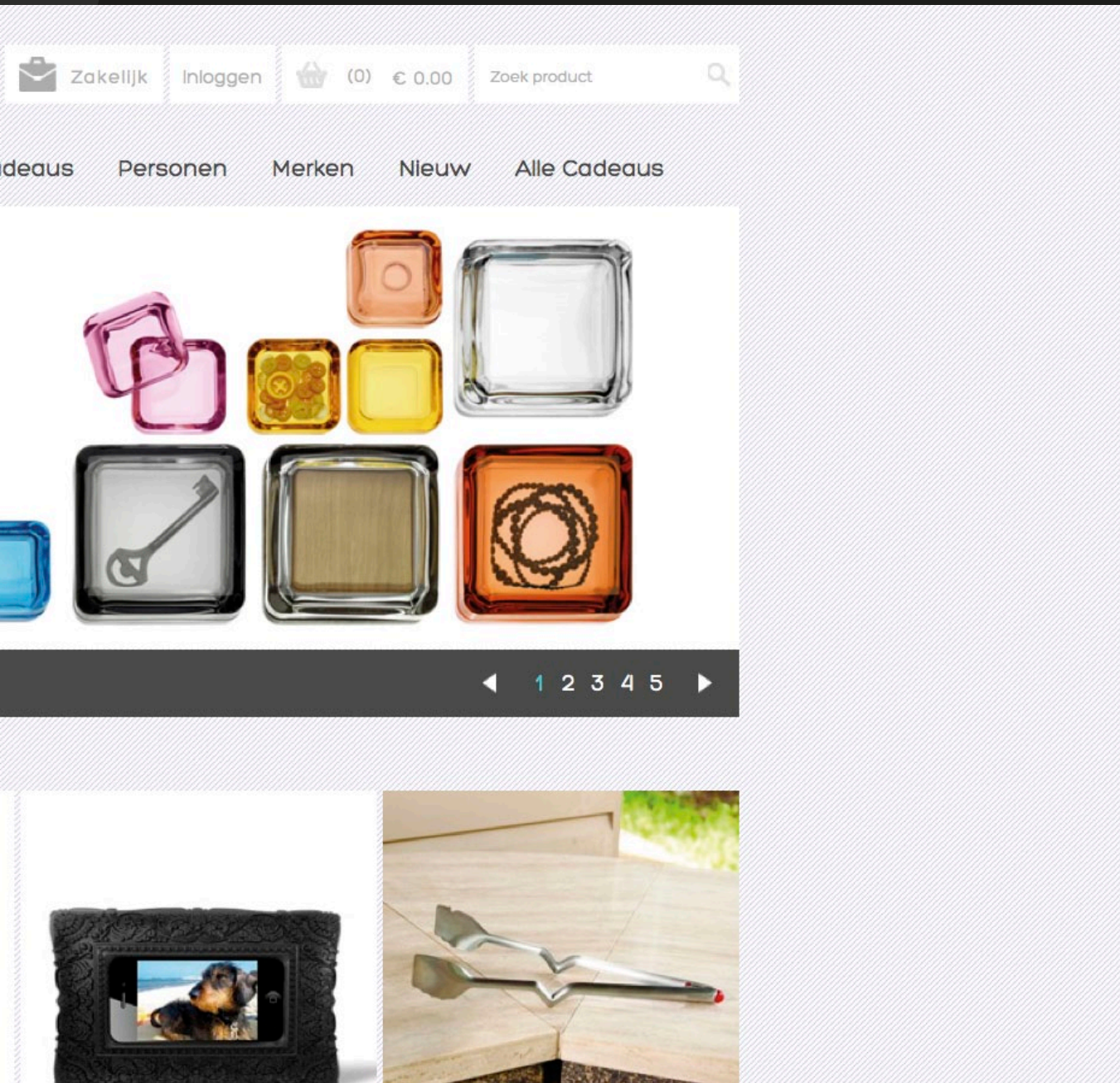
Earlier experience showed web development with HTML, JavaScript and CSS to be cumbersome (multiple languages, browser differences) and error prone (weakly typed JavaScript), and all in all just expensive. Some more advanced frameworks like GWT take the language burden away, but still leave the work of writing lots of boilerplate code to get the browser-server communication to work.

How hard can it be to communicate a button click from the browser to the server? Strangely enough, implementing this is still a lot of work even in the 21st century. But not with Vaadin: 5 lines of plain Java code and you are done.

As our recommendation engine backend is also written in Java, integration with the Vaadin frontend is just a matter of adding an import statement, which is no effort at all. The well-written user guide of course helps a lot; you could look at it as a crash course in Vaadin.

“Being able to write our frontend code in plain Java with Vaadin allows us to create complex user interfaces which are cheap to develop, rock solid, maintainable and extendable.” –Cadeau.nl CTO Rob van der Veer

→ <https://vaadin.com/showcase/cadeau-nl-gift-recommendation-engine>



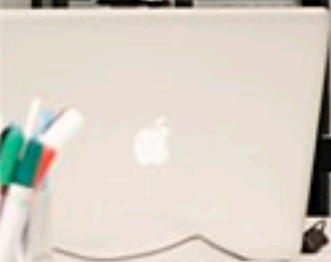
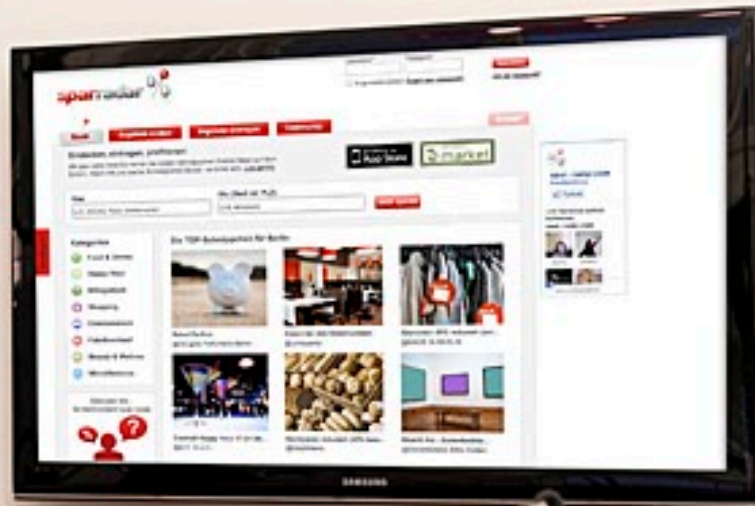


spar-radar / akibu GmbH (Germany) Retail and wholesale

spar-radar is a location-based service which is available as a website and as a mobile app. spar-radar shows all special offers and saving opportunities in the users' surrounding. Offers are available in 8 different categories: Lunch Special, Food & Drinks, Happy Hour, Entertainment, Beauty & Wellness, Factory Outlets, Shopping and Miscellaneous. Users can insert the offers themselves, they can search, rate, comment and save offers, follow other users, take part in competitions and share the offers they like on social networks. Vaadin was used for the implementation of the website. We used several add-ons, such as GoogleMapsWidget, JCAPTCHAField, Geolocation, GoogleAnalyticsTracker, AddThis.

“The whole project was implemented in Java, therefore we chose Vaadin. This allowed us to create complex websites in a familiar environment. The availability of a large variety of add ons helped us to enhance the website's functionality with little effort. The community is also is very active, responsible and helpful.”
–Anton Klotz, founder and CTO of akibu GmbH-akibu GmbH was founded 2010. We specialize in local and mobile commerce and spar-radar is our first project.

 <https://vaadin.com/showcase/spar-radar>



We dim the lights while you find your seat:

Proving the scalability of Vaadin

Now we would like to ask you to use your imagination. 238 countries, 6,624 theaters, 69,347 rooms, 20.7 million seats, 3 movies per night, up to 1.9 billion tickets per month, 2 tickets per sale transaction, 10% fill rate. We imagined this: a Vaadin-based web application that could sell all the world's movie tickets.

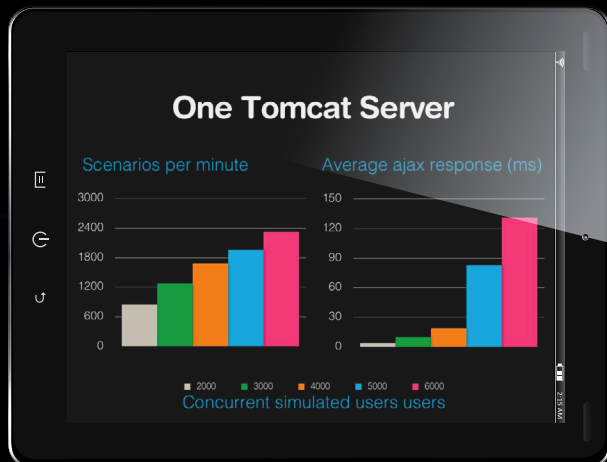


If you ask developers, they want to make good applications that become popular. We all do. For this reason, one of the most typical questions we are asked is “Can Vaadin applications scale to serve a large number of users and clients?”

– We already knew that Vaadin scaled well, but we wanted to test and prove it through an interesting example. We set our goal to be able to handle all the movie ticket sales in the world using a single Vaadin application, says Vaadin Expert Teemu Pöntelin.

Could a Vaadin application handle this number of business transactions? To put this into perspective, the actual real-world movie ticket sales in the US and Canada in 2009 were 1.4 billion admissions (Motion Picture Association of America), which would roughly translate into 2,600 tickets sold per minute.

– If everyone bought two tickets, this would translate into some 1,300 purchase scenarios per minute. In our test we doubled, tripled and quadrupled this amount.



Important data: We measured the number of sales transactions per second as well as the latency experienced by the user.

Mission possible

For the test set-up we chose the typical web application technology stack. The test connected Vaadin Framework with a MySQL database and Tomcat servers. For measuring we used one of the best open-source load-testing tools, Apache JMeter, which simulated thousands of simultaneous ticket buyers. These simulated users constantly bombarded the application.

– What we found out is that the typical bottleneck for application scalability is database access. This is why in our application, we tried to minimize the database usage by storing as much data in an in-memory cache as we could. This way we could concentrate on testing the scalability of Vaadin and web layer, Pöntelin says.

The test showed the scalability of Vaadin to be excellent.

– A single Amazon EC2 large server could handle 2,748 customers buying one or more tickets every minute. This translates to over 20,000 Ajax requests per minute by some 11,000 users concurrently logged into the application. Adding a second server did almost double these numbers. Thus, the goal of selling all the movie tickets in the world was reached using only two servers. In reality, of course, ticket sales do not happen evenly. Instead there are usage spikes. Nevertheless, even when we overloaded the servers the application was responsive. This is good news for application usability. }>

The End

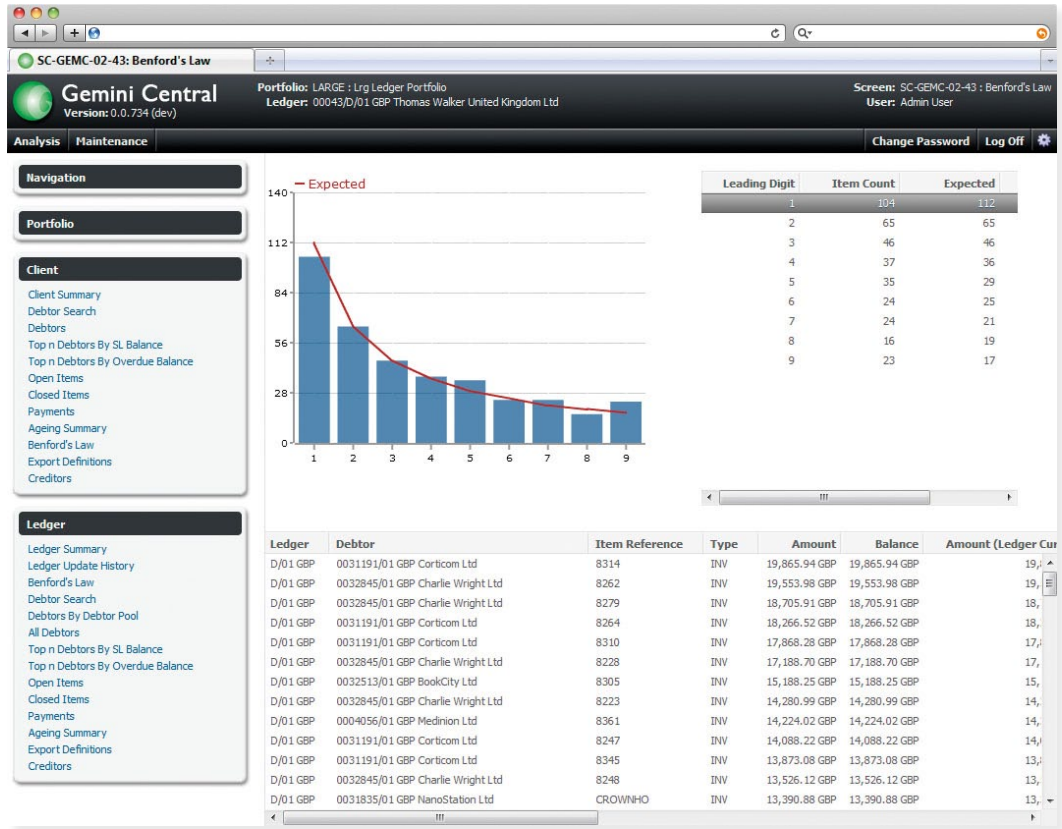
Produced & Released by Vaadin

Read more:



<https://vaadin.com/blog/-/blogs/vaadin-scalability-study-quicktickets>





Gemini HPD Software Ltd (UK) Financial and insurance

Gemini is a product for financial companies that allows them to extract data (invoices, payments, customer info) from their clients' accounting packages (e.g. Sage, MYOB and Quickbooks) on a regular basis and collate all of the data into a central database. There, the data can be viewed, analyzed, queried and so on – before the data is exported to back-office applications, such as our own Aquarius and I-Factor products. The GUI for the product used inside the finance company is being built with Vaadin.

HPD Software Ltd creates software solutions for the factoring and commercial lending market and has offices in London, Sydney and Chicago.

➔ <https://vaadin.com/showcase/gemini>

Introducing Vaadin 7

After years of work, the 7th version of the Vaadin Framework is available! “With Vaadin 7 we wanted to do something major – change the framework from inside instead of just adding on top of it. This means that we are able to offer many new features, while keeping Vaadin clean and easy to use – and simplifying development a lot. Furthermore, Vaadin now includes Google Web Toolkit (GWT) as a core component. With Vaadin 7 your choice of framework just became trivial”, says Vaadin CEO, Joonas Lehtinen.

The three goals of Vaadin 7

Vaadin 6 is a highly successful and widely-embraced framework, so the bar was already set quite high. The vision for improving the framework ensured that Vaadin retains the magical ‘wow’ effect of how easy our products are to use.

Vaadin 7 is based on three ideas: give developers more power and freedom of choice, simplify extending and plugging and clean up the old and enable the new.

Empowering developers

“At Vaadin, our mission is to make building great user interfaces easy. The developer is the king and the Vaadin’s team does its best to roll out the red carpet for him. We are continuing on this mission with Vaadin 7”, says Joonas.

“We want to optimize the development experience while empowering developers. The challenge is how to add more power while keeping things simple. With Vaadin 7, we better support the developers who choose to go through the abstraction layers. Another important theme in Vaadin 7 is embracing extensibility. The hundreds of available add-on components for Vaadin have become one of the key aspects of the product. With Vaadin 7, building a new component is even simpler than before”, he continues.

Should I upgrade to Vaadin 7?

The most common question among the Vaadin developers has lately been when one should upgrade their project to Vaadin 7. If your project is at an early stage, you should upgrade to Vaadin 7, because with it you can do so much more. If, on the other hand, your project is almost finished, you might want to stick with Vaadin 6 for now.

Each major product version is supported for 5 years after the initial release. This means that Vaadin 6 will be supported until 2014 and Vaadin 7 until 2017. While it is completely okay to continue developing with Vaadin 6, the temptation of Vaadin 7, with all its new bells and whistles, may be irresistible. We’d suggest trying it out first, then making the decision based on your own situation, needs and goals.

History of the Framework

There have been three big leaps in the development of Vaadin since the beginning of the project in 2001. The first came in 2002, when the current component model was created and the framework was open-sourced.

The second was in 2008, when we rewrote the client-side using GWT. A year later the product was rebranded as Vaadin and version 6 was released. It became highly popular, and new features and minor

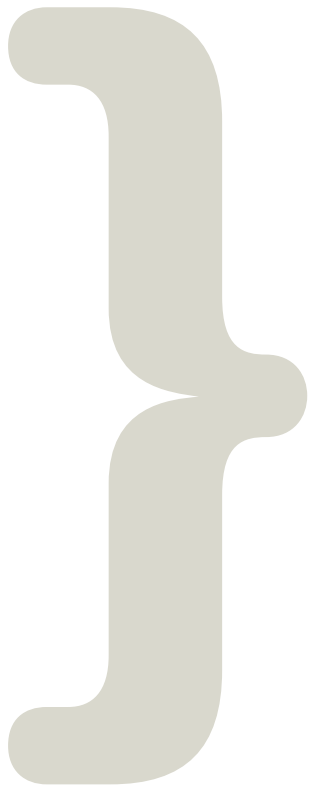
releases have constantly been released.

The third major leap starts now, with the release of Vaadin 7: the simple, clean, and most fully featured version of Vaadin to date. Give it a spin, and let us know what you think!

Top new features in Vaadin 7

- All of GWT is built-in
- Forms have been redesigned
- SASS-based themes
- Faster layouts
- High-level view management
- Supports writing add-ons in JavaScript
- Simplified widget development
- Any widget can be customized with extensions

Vaadin and GWT – Engagement becomes Marriage



Google Web Toolkit (GWT) is one of the core components of the freshly released Vaadin 7 framework, and Vaadin now offers support for GWT projects. What does this mean for GWT and Vaadin users?

Quite a few years have passed since Google started developing a technology with the core innovation of converting Java to JavaScript. GWT was born in 2006, and for Vaadin its compiler seemed like a perfect technology for building extensions. But GWT is a much wider product than just a compiler. Now in 2012 the whole GWT has been included as a built-in component of Vaadin 7.

“You could say that we were engaged with GWT and now we have taken the next step and gotten married”, says Joonas Lehtinen, CEO of Vaadin.

Get the support for GWT

Vaadin is on the steering committee for GWT with Google, Sencha, Red Hat, and others. “Together we’re working to ensure that GWT continues to develop rapidly and that we are able to serve its worldwide developer community well – part of this involves Vaadin offering commercial support to GWT users and projects.”

“We are now able to fix issues and add features directly to GWT, because we build and distribute releases by ourselves. With our support subscription, you can let us know about issues slowing down your project and we will commit to fixing them in the next release. In addition we offer a variety of support and professional services to help your GWT-based project.”

Check these out: → vaadin.com/gwt → vaadin.com/services

Bid Right Personalized Software Ltd (Ireland) ICT

Bid Right has been designed to meet the most demanding needs in return on investment optimization to save your time in SEM (Search Engine Marketing) campaign management. Bid Right opens up new perspectives on simplified management and real-time optimization of all of advertising SEM campaigns with all major search engines: Google Adwords, Yahoo Search Marketing and Microsoft AdCenter.

Bid Right is written in Java and modeled on MVC (Model-View-Controller) architecture. All data is stored in a PostgreSQL database. The user interface is built on top of the Vaadin framework, giving the user a unique browsing experience. Bid Right uses Hibernate to handle database access and manage relational data and transactions. Bid Right is able to communicate (Read/Write) with Google Adwords, Yahoo and AdCenter and to retrieve information from the main Affiliate/Tracking Platforms (e.g: Affiliate window, Commission Junction, Trade Doubler, Webgains, etc...). All statistics are displayed in a table that uses our customized lazy container to avoid pagination.

“When we started developing our application we decided to code it in Java, and frustrated by JSPs limitations we used the first version of GWT, having been seduced by the ability to code everything in plain Java. After several versions made with GWT it became obvious that we needed a server-side web application framework. So in 2008 we evaluated echo2 and IT-Mill (now Vaadin, which back then had just been released as open source), chose the latter for its components and architecture and never looked back. It is the perfect framework for our application, which manipulates huge amounts of data and which performs correctly only with server-side architecture. The community around Vaadin is extremely dynamic (forums, Trac) and the project is communicating very well on their roadmaps. Today, with more and more projects and companies using Vaadin, we are thrilled to have been part of this community since its inception.” –Anthony Callegaro, Director

➔ <https://vaadin.com/showcase/bid-right>



BID RIGHT.

Line chart showing data trends over time.

Symbol	Price	Volume	Market Cap	PE Ratio	Dividend Yield	52-Week High	52-Week Low	YTD Return	1-Year Return	3-Year Return
AMZN	175.00	1,200,000	1,800,000,000	15.00	0.00%	180.00	160.00	15.00%	20.00%	30.00%
GOOGL	2800.00	500,000	700,000,000	25.00	0.00%	2900.00	2700.00	10.00%	15.00%	25.00%
MSFT	310.00	800,000	300,000,000	30.00	0.00%	320.00	300.00	12.00%	18.00%	28.00%
APPL	130.00	1,500,000	250,000,000	20.00	0.00%	135.00	125.00	8.00%	12.00%	22.00%
FB	120.00	1,000,000	150,000,000	18.00	0.00%	125.00	115.00	10.00%	15.00%	25.00%
CRM	100.00	200,000	50,000,000	22.00	0.00%	105.00	95.00	15.00%	20.00%	30.00%
ADBE	450.00	100,000	100,000,000	35.00	0.00%	460.00	440.00	18.00%	25.00%	35.00%
ORCL	35.00	3,000,000	100,000,000	15.00	0.00%	36.00	34.00	10.00%	15.00%	25.00%
IBM	160.00	1,500,000	150,000,000	12.00	0.00%	165.00	155.00	8.00%	12.00%	20.00%
INTC	35.00	2,500,000	100,000,000	10.00	0.00%	36.00	34.00	12.00%	18.00%	28.00%
QCOM	110.00	1,000,000	50,000,000	18.00	0.00%	115.00	105.00	15.00%	20.00%	30.00%
TXN	150.00	500,000	20,000,000	25.00	0.00%	155.00	145.00	10.00%	15.00%	25.00%
ADI	180.00	300,000	10,000,000	20.00	0.00%	185.00	175.00	12.00%	18.00%	28.00%
ANET	220.00	200,000	5,000,000	25.00	0.00%	225.00	215.00	15.00%	20.00%	30.00%
KLAC	120.00	100,000	2,000,000	15.00	0.00%	125.00	115.00	10.00%	15.00%	25.00%
MPWR	100.00	50,000	1,000,000	18.00	0.00%	105.00	95.00	12.00%	18.00%	28.00%
MRVL	150.00	100,000	2,000,000	20.00	0.00%	155.00	145.00	15.00%	20.00%	30.00%
SWIN	180.00	50,000	1,000,000	22.00	0.00%	185.00	175.00	18.00%	25.00%	35.00%
SMCI	250.00	20,000	500,000	28.00	0.00%	255.00	245.00	20.00%	28.00%	38.00%
DELL	30.00	1,500,000	50,000,000	12.00	0.00%	31.00	29.00	10.00%	15.00%	25.00%
HPQ	35.00	2,000,000	60,000,000	10.00	0.00%	36.00	34.00	12.00%	18.00%	28.00%
WDC	40.00	1,500,000	40,000,000	15.00	0.00%	41.00	39.00	10.00%	15.00%	25.00%
STX	45.00	1,000,000	30,000,000	18.00	0.00%	46.00	44.00	12.00%	18.00%	28.00%
EXPE	120.00	500,000	10,000,000	20.00	0.00%	125.00	115.00	15.00%	20.00%	30.00%
DIS	110.00	1,500,000	150,000,000	15.00	0.00%	115.00	105.00	10.00%	15.00%	25.00%
WMT	160.00	1,000,000	100,000,000	12.00	0.00%	165.00	155.00	8.00%	12.00%	20.00%
CVX	140.00	500,000	100,000,000	10.00	0.00%	145.00	135.00	12.00%	18.00%	28.00%
XOM	100.00	1,000,000	100,000,000	12.00	0.00%	105.00	95.00	10.00%	15.00%	25.00%
BP	45.00	2,000,000	60,000,000	15.00	0.00%	46.00	44.00	12.00%	18.00%	28.00%
SLB	55.00	1,500,000	40,000,000	18.00	0.00%	56.00	54.00	15.00%	20.00%	30.00%
HAL	65.00	1,000,000	30,000,000	20.00	0.00%	66.00	64.00	18.00%	25.00%	35.00%
OC	75.00	500,000	10,000,000	22.00	0.00%	76.00	74.00	20.00%	28.00%	38.00%
NOV	85.00	400,000	8,000,000	25.00	0.00%	86.00	84.00	22.00%	30.00%	40.00%
FTI	95.00	300,000	6,000,000	28.00	0.00%	96.00	94.00	25.00%	35.00%	45.00%
MTI	105.00	200,000	4,000,000	30.00	0.00%	106.00	104.00	28.00%	38.00%	48.00%
AMZN	175.00	1,200,000	1,800,000,000	15.00	0.00%	180.00	160.00	15.00%	20.00%	30.00%
GOOGL	2800.00	500,000	700,000,000	25.00	0.00%	2900.00	2700.00	10.00%	15.00%	25.00%
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MPWR	100.00	50,000	1,000,000	18.00	0.00%	105.00	95.00	12.00%	18.00%	28.00%
MRVL	150.00	100,000	2,000,000	20.00	0.00%	155.00	145.00	15.00%	20.00%	30.00%
SWIN	180.00	50,000	1,000,000	22.00	0.00%	185.00	175.00	18.00%	25.00%	35.00%
SMCI	250.00	20,000	500,000	28.00	0.00%	255.00	245.00	20.00%	28.00%	38.00%
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EXPE	120.00	500,000	10,000,000	20.00	0.00%	125.00	115.00	15.00%	20.00%	30.00%
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WMT	160.00	1,000,000	100,000,000	12.00	0.00%	165.00	155.00	8.00%	12.00%	20.00%
CVX	140.00	500,000	100,000,000	10.00	0.00%	145.00	135.00	12.00%	18.00%	28.00%
XOM	100.00	1,000,000	100,000,000	12.00	0.00%	105.00	95.00	10.00%	15.00%	25.00%
BP	45.00	2,000,000	60,000,000	15.00	0.00%	46.00	44.00	12.00%	18.00%	28.00%
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HAL	65.00	1,000,000	30,000,000	20.00	0.00%	66.00	64.00	18.00%	25.00%	35.00%
OC	75.00	500,000	10,000,000	22.00	0.00%	76.00	74.00	20.00%	28.00%	38.00%
NOV	85.00	400,000	8,000,000	25.00	0.00%	86.00	84.00	22.00%	30.00%	40.00%
FTI	95.00	300,000	6,000,000	28.00	0.00%	96.00	94.00	25.00%	35.00%	45.00%
MTI	105.00	200,000	4,000,000	30.00	0.00%	106.00	104.00	28.00%	38.00%	48.00%



Winding-stairs





Activiti Explorer ICT

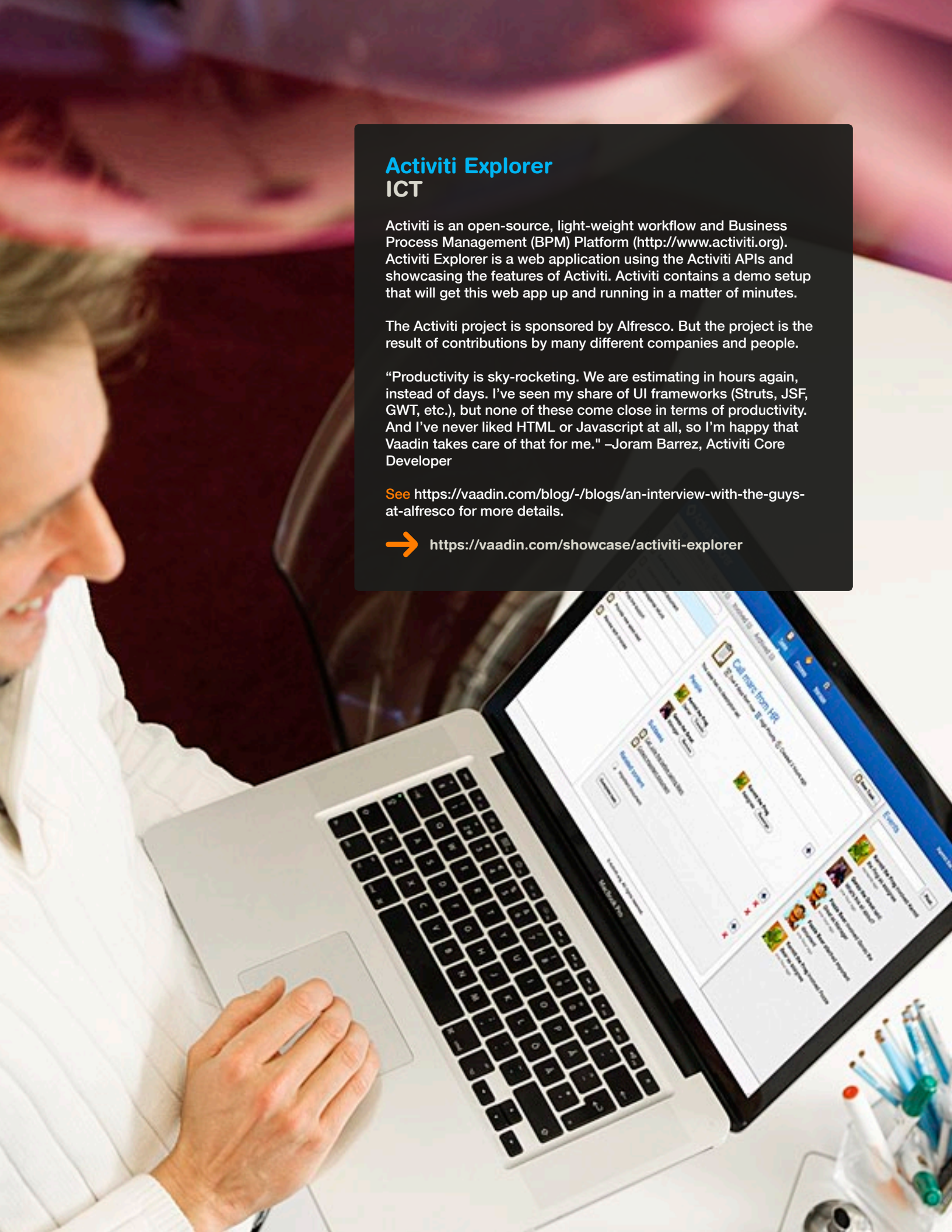
Activiti is an open-source, light-weight workflow and Business Process Management (BPM) Platform (<http://www.activiti.org>). Activiti Explorer is a web application using the Activiti APIs and showcasing the features of Activiti. Activiti contains a demo setup that will get this web app up and running in a matter of minutes.

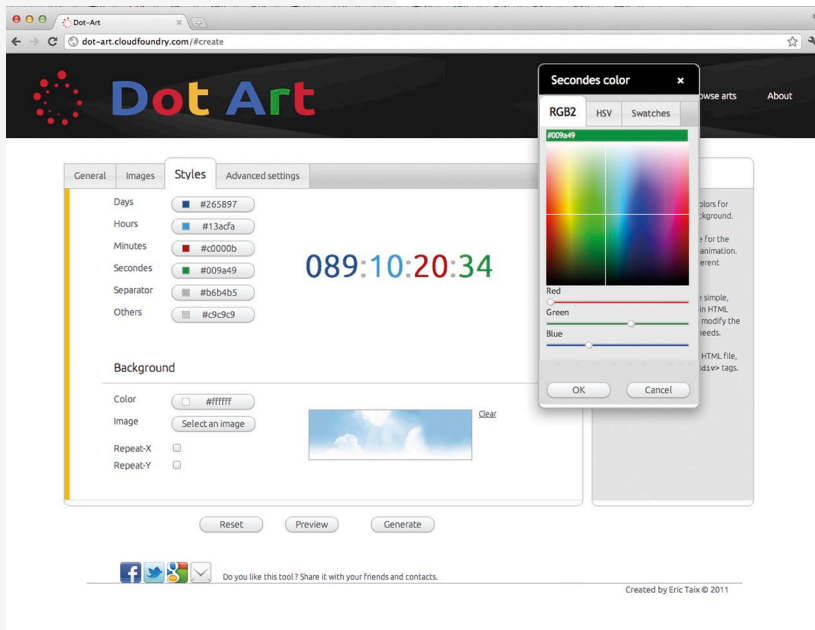
The Activiti project is sponsored by Alfresco. But the project is the result of contributions by many different companies and people.

"Productivity is sky-rocketing. We are estimating in hours again, instead of days. I've seen my share of UI frameworks (Struts, JSF, GWT, etc.), but none of these come close in terms of productivity. And I've never liked HTML or Javascript at all, so I'm happy that Vaadin takes care of that for me." –Joram Barrez, Activiti Core Developer

See <https://vaadin.com/blog/-/blogs/an-interview-with-the-guys-at-alfresco> for more details.

➔ <https://vaadin.com/showcase/activiti-explorer>



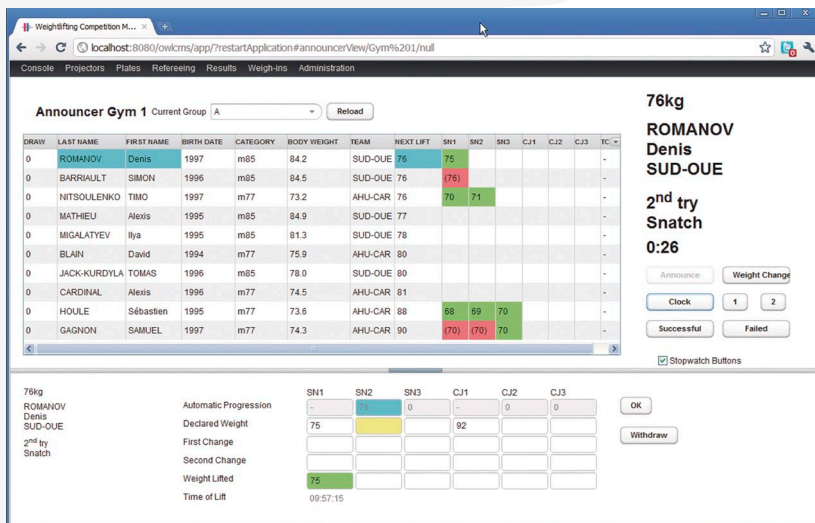


Dot-Art / Eric Taix (France)

ICT

Dot-Art is a free service for creating an HTML5 countdown. It allows you to set the end date of the countdown, define your own colors, styles and background, add your own images before and after the countdown and much more. Neither HTML5 nor JavaScript knowledge is required to use it.

➔ <https://vaadin.com/showcase/dot-art>



OlympicWeightliftingCMS / Québec Weightlifting Federation (Canada)

Sports

OlympicWeightliftingCMS is a multi-user application for managing an Olympic Weightlifting competition according to International Weightlifting Federation rules. It includes automatic calculation of lifting order, display of results and attempt information, and production of competition documents, timing and refereeing.

➔ <https://vaadin.com/showcase/owlcms>

From different working patterns to new insights

The Nordic insurance company If Insurance wanted to take a leap into a customer-centered approach in its IT solution, and at the same time develop it in a more agile way. If worked in close cooperation with Vaadin and its experts to create a modular system to suit the work environment of insurance salespeople. The user-friendly solution naturally models the dialogue between the insurance sales agent and the customer.

The main goals for the new system were ease of use, customer orientation, and intuitiveness. The technical solution was created to complement real sales situations in a way that considers customers' needs first rather than just the features of products.

”This project brought up a great deal of new things and ways of doing”

– Vaadin’s main role in the project was to offer a technical perspective to the process. The project began with a technical evaluation. The new IT solution was developed based

on actual business processes that were studied beforehand. Before starting actual development, a pilot was conducted on one product line, explains If’s Head of Strategy Unit P&T Private Minna Lehtonen.

Thinking, learning, doing

The project proceeded with the principles of agile development. This meant that the focus could be changed according to the client’s needs throughout the process. At the same time, it allowed users to become familiar with the new system as it was built.

– Building a project in small

system has meant development of new modules, which can later be used in other applications as well, Lehtonen sums up.

Emphasizing reliability and commitment

– The cooperation with Vaadin has run smoothly. The team consists of enthusiastic and innovative people who have a true passion for finding the right solutions. We managed to unite both our team and Vaadin’s in carrying out the process to achieve a common goal, says Lehtonen.

– Cooperation – both with the client and within our own team – is the keyword in constructing a



”We need spontaneity, innovativeness and true passion to solve problems”

increments saves both time and effort. The goals are met more easily when we are able to discuss the solution with the customer during the development process, says Vaadin Expert and Project Manager Marcus Hellberg. He continues:

– The challenge in this project has been combining new and old technologies behind a coherent and easy-to-use interface. The focus has been on creating an intuitive system built up from reusable modules.

– The new system allows sales personnel to work more efficiently with customers. From the IT-department’s point of view, the

successful solution. There has to be a clear understanding inside the team of the fact that we are all building the same system. And this understanding should, of course, relate closely to the client’s perception and experience, Hellberg says.

– For me, the best part of the project is managing the big picture, because it allows you to bring together the right people in various phases of the work. Great insights will come up all the time. Vaadin is like a toolbox, you also need people that really know how to use the tools in order to build something great. ▶



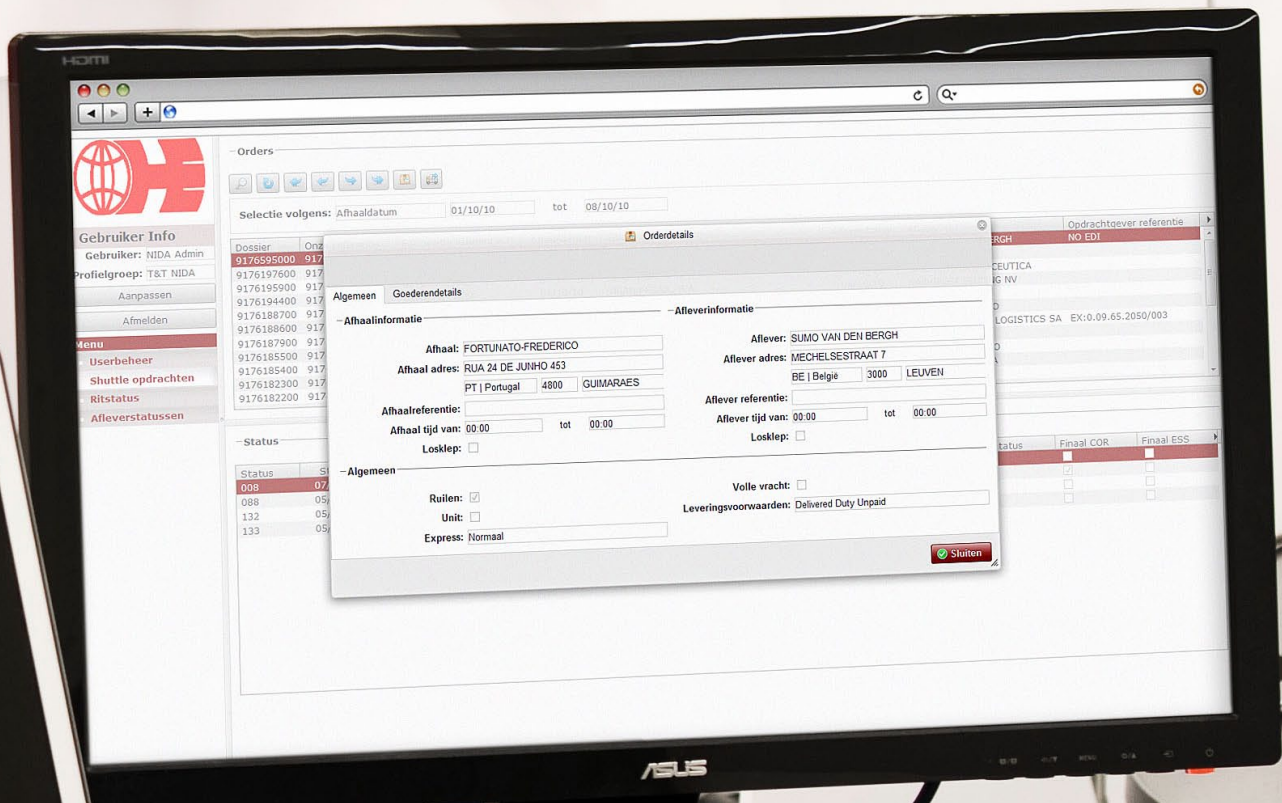
Team: 1. Marcus Hellberg 2. Nico Hällfast 3. Risto Yrjänä 4. Mikael Grankvist 5. Anna Koskinen 6. Mikko Nurmi 7. Johannes Tuikkala



WebOrder Groep H.Essers (Belgium) Logistics

Group H.Essers is a large Belgian transportation and logistics company. It offers customers personalized and integrated transport and logistic solutions throughout Europe. The great strength of the company can be found in its flexibility, the use of its own means and the development of advanced systems and concepts. The web application created with Vaadin is a web order application that is used by Essers' customers to place orders and follow the status of these orders.

→ <https://vaadin.com/showcase/weborder>



Gebruiker Info

Gebruiker: NIDA Admin
Profielgroep: T&T NIDA
Aanpassen
Afmelden
Menu
Userbeheer
Shuttle opdrachten
Ritstatus
Aflieverstatussen

Orders

Selectie volgens: Afhaaldatum 01/10/10 tot 08/10/10

Dossier	Orz
9176895600	917
9176197600	917
9176195900	917
9176194400	917
9176188700	917
9176188600	917
9176187900	917
9176185500	917
9176185400	917
9176182300	917
9176182200	917

-Status

Status	S
008	07
088	05
132	05
133	05

Orderdetails

Algemeen Goederendetails

- Afhaal informatie

Afhaal: FORTUNATO-FREDERICO
 Afhaal adres: RUA 24 DE JUNHO 453
 PT | Portugal 4800 GUMARAES
 Afhaalreferentie:
 Afhaal tijd van: 00:00 tot 00:00
 Losklep:

- Aflever informatie

Allever: SUMO VAN DEN BERGH
 Allever adres: MECHELESTRAAT 7
 BE | België 3000 LEUVEN
 Allever referentie:
 Allever tijd van: 00:00 tot 00:00
 Losklep:

- Algemeen

Ruilen:
 Unit:
 Express: Normaal

Volle vracht:
 Leveringsvoorwaarden: Delivered Duty Unpaid

Sluiten



Devoxx (Belgium) Events and Conferences

Devoxx, the largest Java conference in Europe, uses a Vaadin application for displaying the conference schedule on their website. The application uses the Vaadin Calendar add-on and a REST API to access the Devoxx schedule. In addition to just presenting the schedule in a convenient format, users can sign in to store their own schedules.

→ <https://vaadin.com/showcase/devoxx>

The screenshot displays the Devoxx website interface. At the top, the logo for Devoxx is shown with the text "The Java community conference" and the dates "November 15th till 19th 2010 - Metropolis Antwerp, Belgium". The navigation menu includes "Home", "Javaholics", "Schedule", "Partners", "News", and "Practical". Below the navigation, there is a search bar and a "Sign into MySchedule" button. The main content area shows a calendar view for "Conference day 1" (Wednesday, 15:10 - 16:10). The schedule is as follows:

Time	Event
8:00	Registration, breakfast and exhibition
9:30	Welcome and Intro (Stephan Janssen)
10:00	Java SE: The Road Ahead (Mark Reinhold)
10:50	The State of the Web (Dion Almaer, Ben Galbraith)
11:40	Coffee Break and Exhibition

The sidebar on the right highlights a session in "Room 6" titled "Vaadin - Rich Web Applications in Java without Plug-ins or JavaScript" by Joonas Lehtinen. A brief bio of Joonas Lehtinen is provided, along with a "I'm attending" button and a "Hide Event Details" link.

Aktia Forms Generator Aktia (Finland) Financial and insurance

The Finnish financial group Aktia's new claims and other forms have been completely rewritten with Vaadin by Endero. The servlets use standard JavaEE technologies from both open-source and commercial products underneath the Vaadin user interface.

According to Endero's Timo Hartikainen, the development has been highly effective due to the tight integration of the server-side UI logic to the business logic. The application itself relies heavily on annotations to create a highly dynamic forms application. Vaadin's security features have allowed the developers to concentrate on the essential business logic. On top of this, testing has also been cut down due to the wide array of web browsers supported by Vaadin.

Aktia's IT Director Juha Volotinen states that their goal with Vaadin was to create a flexible platform on which they can develop forms and calculators that support their customers. Vaadin also supported their goal of excellent usability and good looks.

Aktia offers a broad range of solutions in banking, asset management, insurance and real estate agencies. Aktia operates mainly in coastal areas, in the Helsinki region, and in inland growth areas. Aktia's roots date back to 1825, when Finland's first, still existing deposit bank saw the light of day.

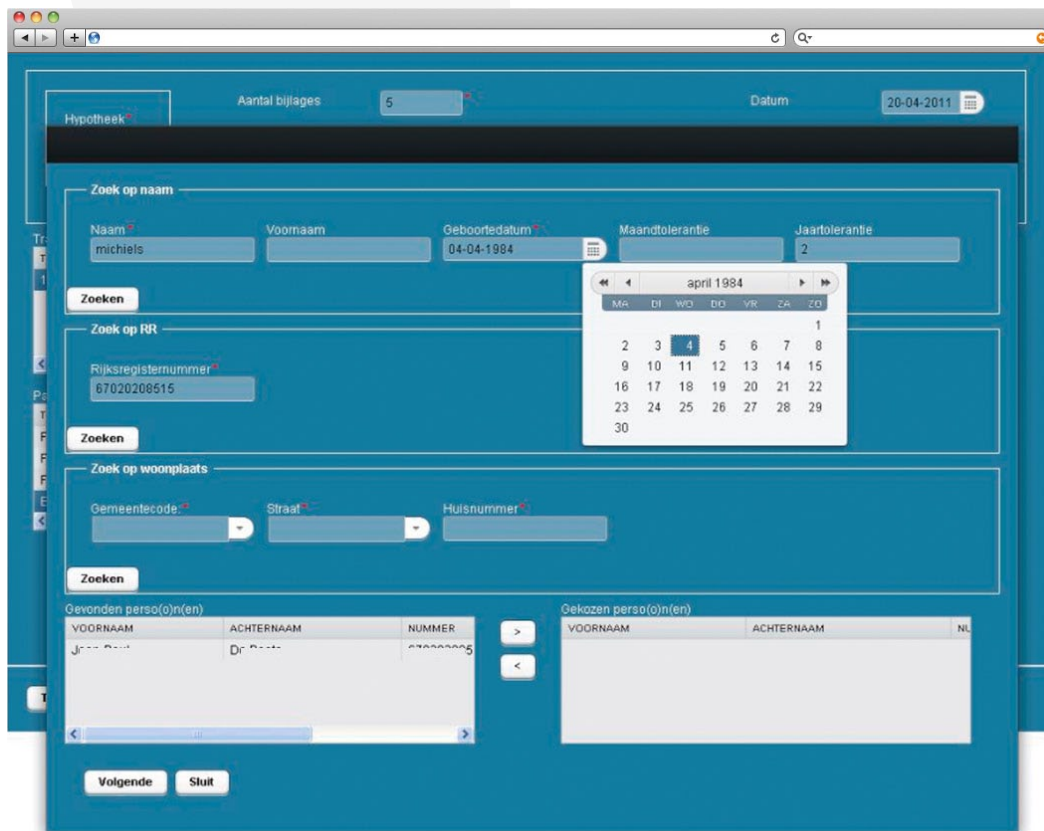
➔ <https://vaadin.com/showcase/aktia-forms-generator>



Down the Plane







PACE Faros N.V. (Belgium) ICT

The goal of the PACE project is to build a user interface for notaries so they can work on a variety of types of dossiers. The project is being executed for the Belgian “Dienst Administratieve Vereenvoudiging”, or Service for Administrative Simplification.

Notaries’ dossiers are complex in the sense that they require the integration of data from several authentic sources, such as the person’s registry, the cadastre and others. The integration of these sources is handled by a backend service integration layer. The user interface for the viewing and editing of these data is done using Vaadin components.

The choice of Vaadin was made due to the event-driven nature of the user interface requirements, where different use cases are implemented depending on simple choices the user makes in the user interface.

The PACE application is an example of a service-oriented integration, for which Vaadin components are ideally suited as a user interface.

➔ <https://vaadin.com/showcase/pace>

Attendium - guest lists made digital

Attendium (Sweden)

Events and Conferences

Attendium is a service designed to automate guest list management at venues and events. It allows you to collect names from many sources – e.g. Facebook, e-mail inboxes and website forms – into one guest list for your event. You can even add new names to your guest list via SMS at any time during the event.

With Apple's Ipad, Iphone or Ipod Touch, Attendium allows you to search for and check in your guests much faster than with your old paper lists. Instead of just focusing on how to get attendees to an event, with Attendium you can get the best tools for the treatment of your guests once they have signed up. As a result, Attendium completely revolutionizes the way in which event managers and promoters manage their guest lists.

Attendium uses Vaadin for its web-based control panel to manage users, events and guest lists. "Vaadin is solid, well thought-out and trustworthy, and the end result is very good." –Piotr Blasiak, CEO

Attendium is a startup focusing on digital guest list management, backed by KTH Innovation at the royal institute of technology in Stockholm, Sweden.

➔ <https://vaadin.com/showcase/attendium>

The screenshot displays the Attendium web application interface. At the top, the Attendium logo is on the left, and navigation links for 'Events', 'Venues', 'Users', and 'Log out' are on the right. The main content area is divided into a sidebar on the left and a main panel on the right. The sidebar shows a list of events: 'Johns wedding' and 'Club night friday', with 'Club night friday' selected. Below the sidebar is an 'Add event +' button. The main panel shows the details for 'Club night friday', with tabs for 'Details', 'Guest lists', 'Guests', 'Statistics', and 'Permissions'. The 'Guests' tab is active, displaying a table of guest information. The table has columns for 'Name (showing first 50)', 'Check-ins', 'Tickets', 'Free tickets', and 'Guest list'. The row for 'Alexander Decker' is highlighted in green. Below the table are buttons for 'Delete selected', 'Export', 'Add guest +', and 'Import guests from excel +'.

Name (showing first 50)	Check-ins	Tickets	Free tickets	Guest list
Adam Lund	1	1	0	vip
Adelina Johansson	1	1	0	vip
Albin Maelum	1	1	0	vip
Alex Wiberg	1	1	0	vip
Alexander Buchard	0	1	0	vip
Alexander Buckard	1	1	0	vip
Alexander Cramberg	0	1	0	vip
Alexander Decker	0	1	0	vip
Alexander Hellström	0	1	0	vip
Alexander Landolsi +1	2	2	0	vip
Alexander Skytte	0	1	0	vip
Alexander Akesson	0	1	0	vip
Alexandra Ahlgren	0	1	0	vip
Alexandra Hedenqvist	0	1	0	vip
Alexandra Lindqvist	1	1	0	vip
Alexandra Lundström	0	1	0	vip

Behind the screens

Peter Lehto and Matti Tahvonen both work for Vaadin. Lehto coordinates projects and works directly with the clients. Tahvonen develops products for Vaadin's commercial offering. What unites them? A passion for work, many cups of coffee and a love for sports.

It's 9 a.m. and Project Manager and Vaadin Expert Peter Lehto arrives at work. The day starts with a big cup of coffee.

– I would describe my work as versatile. As a project manager I am in charge of the project and for making sure the outcome meets the client's needs. I am a social person and enjoy working with different people but I also want to be active in the actual development process.

When a project is about to start, the right team is gathered based on what is needed and who is best at doing it. In his previous project for Finland's Slot Machine Association Peter worked as a scrum master.

– I made sure that the process was followed and any impediments were removed. Scrum is an agile development method consisting of a few week long sprints. This was an exceptional project, because we got the chance to have an influence on the process model, e.g. how things should be defined before they end up on the developer's desk and what kind of testing methods should be developed.

– In this work it is important to see the whole picture, not just your own little part in it. You get to think, plan and develop. Every project offers new challenges that you can learn from and use in projects to come.

Thinking big

It's 9.30 a.m. and Senior Expert Matti Tahvonen is reading his emails. He works in the R&D team and creates tools that benefit developers all over the world.

– My work is mostly about thinking and problem solving; how should we solve a problem, is this a reasonable solution or whether we should find a totally new way of looking at it. I develop new products or fix bugs in the older ones. To discover new product ideas or to see where the current ones are failing I often read the Vaadin Forum and talk to fellows like Peter about issues in their projects.

– The best thing is when you succeed in making things work in a way that nobody else has even thought of yet. In product

development you have to be creative so you don't always try to solve problems in a similar way. You have to think outside the box.

Fixing bugs and boats

According to Matti everyone needs at least three things outside of work that bring them pleasure – it may be family, friends, different hobbies, studying or something else. So where do you find these guys when the clock ticks past five?

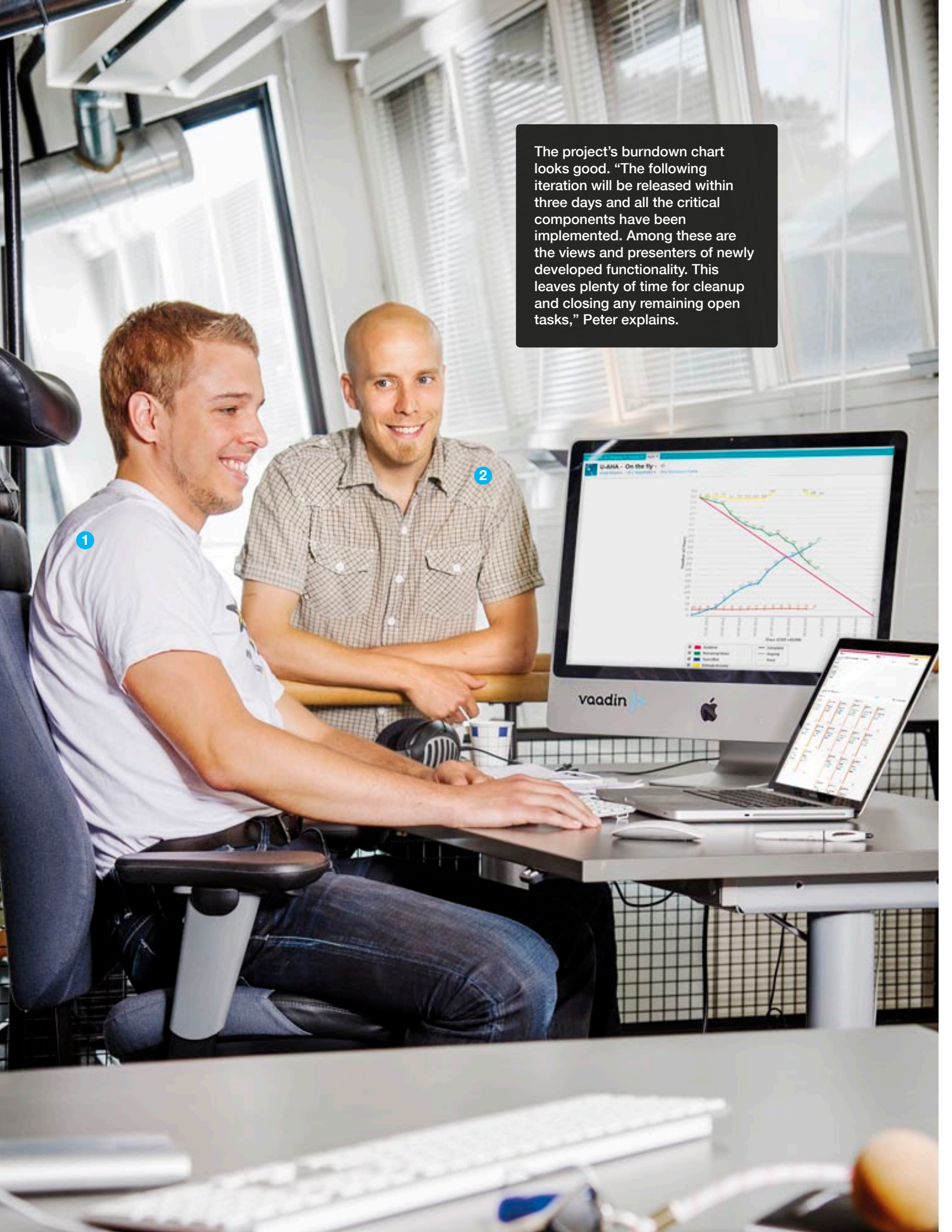
In his spare time, Peter breaks a sweat at Les Mills classes or goes jogging or cycling. Among Matti's favorite places are the forest and the sea.

– I enjoy orienteering, jogging, hiking, fishing and hunting. I also like to get my hands dirty fixing my boat. Sometimes my hobbies get mixed up with my work when I develop software for orienteering competitions. This is one of the best ways to discover new ideas. But the funniest feeling is to use a system developed by someone else and then realize "I made this button", Matti concludes. }>

1 private static String[] fields = { "Peter", "Lehto", "Vaadin" "Project Manager, Vaadin Expert" };

2 private static String[] fields = { "Matti", "Tahvonen", "Vaadin" "Senior Vaadin Expert" };

The project's burndown chart looks good. "The following iteration will be released within three days and all the critical components have been implemented. Among these are the views and presenters of newly developed functionality. This leaves plenty of time for cleanup and closing any remaining open tasks," Peter explains.





Environment: Production IBU

Screen referen

[main menu](#)

[manual](#)

OSC ENQUIRY - possible product option combinations

locations

collection type	Collection			de
country code	NL	name	NETHERLANDS	co
province	GELDERLAND			pr
location	DUIVEN			loc
postcode	6921 EZ			po
depot code		name		de

services

product type	Non-Document	options
--------------	--------------	---------

dates

start date	2010-09-30	time	13	32	
delivery date		time	00	00	

consignment details

weight	0	kg		
volume	0	m3		di

MacBoo

OSC Enquiry System (TNT) Logistics

OSC (Operational Service Capabilities) Enquiry provides a single source for obtaining operational 'door-to-door' service capabilities for all international and domestic products sold to TNT Express Customers to fulfill their shipping requirements.

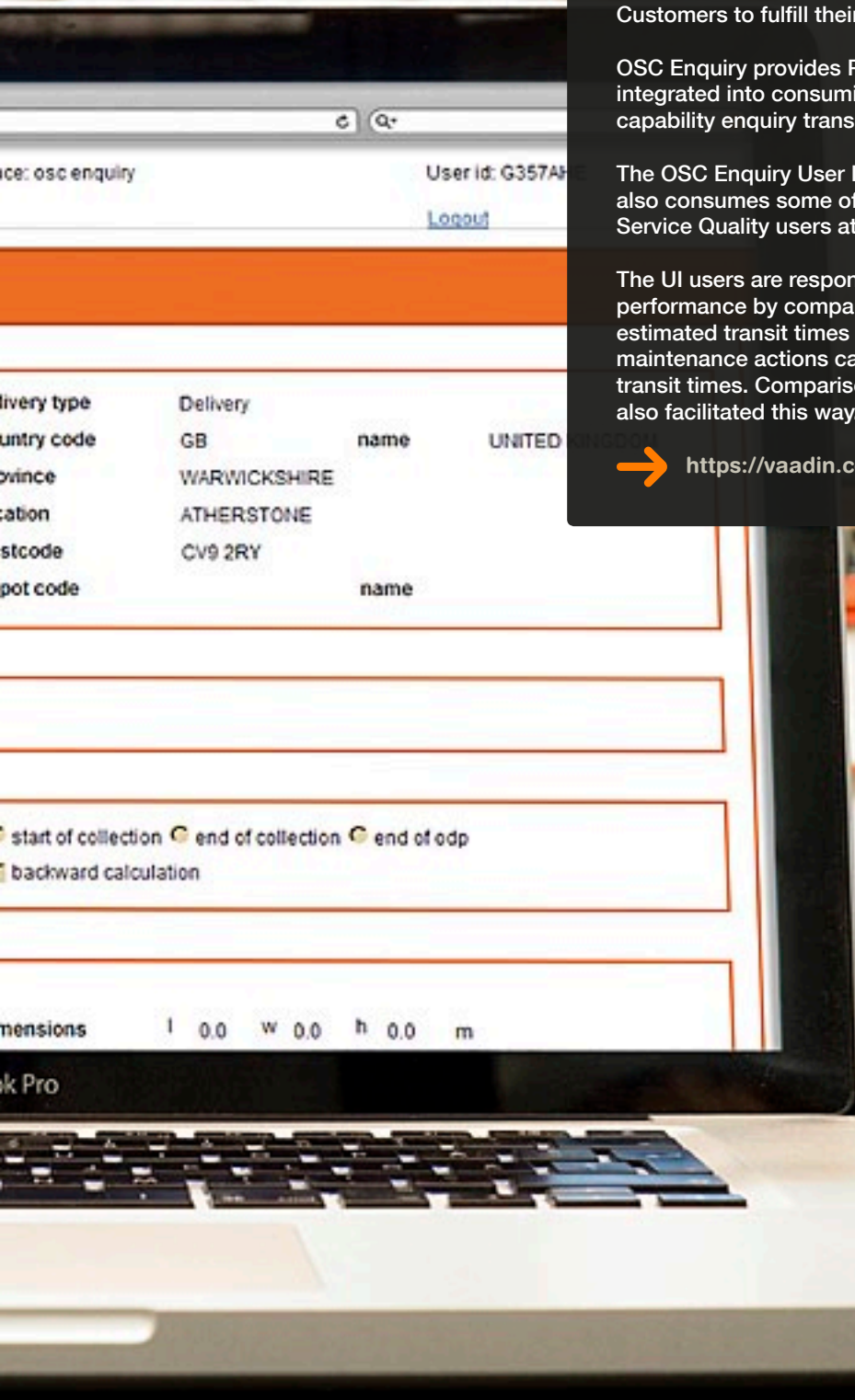
OSC Enquiry provides POJO software services that can be integrated into consuming applications to support their service capability enquiry transactions.

The OSC Enquiry User Interface developed in Vaadin technology also consumes some of the OSC Enquiry Services required by the Service Quality users at TNT Express (150 or so).

The UI users are responsible for measuring operational service performance by comparing actual achieved service against estimated transit times quoted to customers. Corrective maintenance actions can then be taken to improve the published transit times. Comparison of our transit times to our competitors' is also facilitated this way.



<https://vaadin.com/showcase/osc-enquiry-system-tnt>



Tallink Silja Line Maritime

Company description

Tallink is an Estonian shipping company that is currently a leading provider of high-quality mini-cruise and passenger transport services in the Baltic Sea region as well as a leading provider of ro-ro cargo services on selected routes.

The company's vision is to be the market pioneer in Europe by offering excellence in leisure and business travel and sea transportation services. AS Tallink Grupp has been numerously awarded by many organizations for achievements in the fields of corporate social responsibility, business activities and an innovative approach. The company places high value on the good work of the whole team, which has resulted in positive feedback from the public and organizations.

Application description

Our project is a payment system which allows Call Center workers to pay for a reservation if the client, for some reason, cannot pay for it him or herself. In addition, this system allows giving additional information to the client, for example detailed information about the reservation (hotel service, additional room service, etc.)

Vaadin

We have a lot of experience in the development of applications using HTML, JavaScript and CSS. This experience allows us to understand that Vaadin could solve most of our "time killer" problems, which are often caused by browser differences and weakly typed JavaScript.

Other "candidates" seem to avoid these problems but still cannot write code using only one programming language.

Most of our service engine backend applications are written in Java and integration with the frontend is done using Vaadin Framework. That was one of the easiest parts.

The biggest plus of Vaadin is that it allows the developer to write a simple, readable code without thinking about cross-browser.

Ability to write code without "workaround" for different platforms is a very good thing, something all developers dream of.

 <https://vaadin.com/showcase/tallink-silja-line>

Reservation No *

Contact person
Initial date 27.04.2011 at 11:13
Status OF

[close reservation details](#)

Reservation payments

Reservation total amount **2 587.00 EUR**

Reservation is fully paid. No payment is required.
Please see transaction details below.

Reservation details [close reservation details](#)

TAL-HEL (STAR) Tue 05.10.2011 07:30 - Tue 05.10.2011 09:30

Cabins / Deck tickets

DSC

Firstname	Lastname	Club Account	Birthdate	Gender	Age category
Firstname1	Lastname1	15000000	mm.dd.yyyy	M	ADULT
Firstname2	Lastname2	15000001	mm.dd.yyyy	F	ADULT
Firstname3	Lastname3	15000002	mm.dd.yyyy	M	ADULT

Vehicles

CAR

TAL-HEL (STAR) Tue 05.10.2011 07:30 - Tue 05.10.2011 09:30

Cabins / Deck tickets

DSC

Firstname	Lastname	Club Account	Birthdate	Gender	Age category
Firstname1	Lastname1	15000000	mm.dd.yyyy	M	ADULT
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Firstname3	Lastname3	15000002	mm.dd.yyyy	M	ADULT

Vehicles

CAR

Payment schedules

id	Form of transaction	Date of transaction	Transaction amount	Transaction status
14621507	CC ON WEB	27.04.2011 13:15	2587.00 EUR	OK



dock }>

Jonatan Kronqvist has worked for Vaadin for five years and is a part of the core development team. His work in the field of commercial products includes everything from generating ideas to executing them. Even though his working language is Java, in his spare time he speaks the language of aesthetics through his photographs.

```
private static String[] fields = { "Jonatan", "Kronqvist", "Vaadin", "Senior Vaadin Expert" };
```

Photography has always been close to Jonatan's heart and one could say it runs in the family. Since the birth of his daughter he has had less time for his hobbies, but every now and then the camera still leads the man. When the right moment comes, he takes slings camera over his shoulder and goes for a walk. The subjects will find the photographer.

For Jonatan, photos are an aesthetic whole in which everything is in harmony.

– Good subjects for photos are simple things, details and parts of the whole. I think of the balance and the contrast of light and shadow. I'd like to make the spectator's gaze rest in my photos – make him or her feel peaceful and comfortable.

Familiar places, interesting objects

Those are Jonatan's favourite subjects for photography. He likes to mess things up a bit by photographing familiar locations from new perspectives or viewpoints. Elements which

have been seen many times before may look like something completely different in photographs.

– I'm fascinated by the possibility of seeing in things what they can become, rather than what they actually are. It is great to see how a pen and paper, a camera and an ordinary place or a snippet of code can transform into something new.

New paths of thinking

Part of creativity is seeing new connections and an ability to outline ideas that can grow and develop. Jonatan's thoughts follow similar patterns in both his work and photographs.

– The process is similar; I concentrate on a particular part and then start to refine it.

His work is technology-centered, but it demands creative thinking. Creativity, on the other hand, is a necessity in his hobby, which also calls for the knowledge of technique. When work and hobby complement each other, the circle closes. }>

➔ Visit www.oxygenite.org



Who is using Vaadin?

Thousands of companies all over the world are creating compelling and user-friendly web applications using Vaadin. Try googling "who is using vaadin" and see what they have achieved.

Have you created an awesome application using Vaadin? Contact us to get it listed here.

 vaadin.com/who-is-using-vaadin



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