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Efficient lightweight constructions for sophisticated web applications

▌ the future belongs to Rich Internet Applications (RIA) – they are increasingly replacing the classical desktop application. And it is no wonder, as this latest generation of web applications offers a totally new kind of interactivity. Furthermore, RIAs spare your budget thanks to their operating system independence and the fact that they can be used without installation. According to the market research organization Forrester Research, RIA technology will be deployed in around 60% of all software development projects in the coming years.

The disadvantage of most of today's RIA frameworks is that they were developed for the optimization of web sites. They rapidly reach their limits, therefore, with complex business applications. Canoo Engineering's Canoo RIA Suite with its modular design provides a remedy. The heart of the RIA suite is ULC (UltraLightClient), a much proven and stable component for the development of RIAs – optimized for the performance requirements of business applications. Thanks to the 100% java-based homogeneous programming model, ULC reduces the complexity of RIA development projects to a minimum. RIAs developed with ULC score highly due to their low development and maintenance costs, and are more than a match for classical desktop applications in user-friendliness, functionality, attractiveness, robustness and performance.

«We switched to ULC in the middle of a large software project, as we were not able to implement all the requirements with the technology we were using at the time. ULC then enabled us to at least double our productivity, in turn allowing the project to be completed on time.»

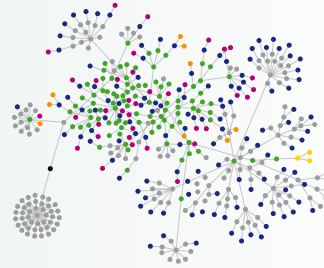Greg Hutchinson, Principal Developer, Farm Credit Canada

ULC at a glance:
- Up to 50% reductions in development costs
- Puts business functionality on to the web without quality losses
- Lower operational costs thanks to server side maintenance and standardized technology
- Maximum security thanks to standard conformity
- Straightforward and rapid development due to uniform Java basis
- Robust and scalable architecture
- No longer time-consuming client-side deployment
- Enables highly interactive and user friendly interfaces
- No browser adaptation required
- Optimal user productivity due to rapid response times
- Lower project risk thanks to well engineered, tried and tested technology
- Impressive prototypes in minimal time
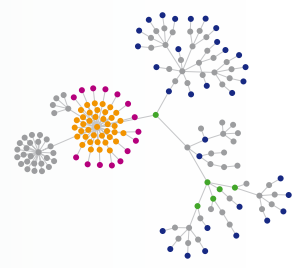
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Up to 50% cost savings

ULC enables savings in time and costs of up to 50% in software projects. The reason for this is that while other RIA frameworks utilize various different technologies, ULC is based exclusively on Java, thus greatly reducing complexity. Developers are furthermore able to work efficiently with a single programming language, minimizing the need for manual adaptation and configuration. The purely server-side architectural concept also results in considerable time savings, further reducing the programming effort. This is reflected in lower maintenance costs, as applications can be rapidly updated and enhanced.
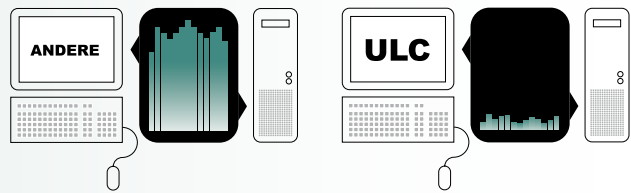
Using traditional technologies

Using UltraLightClient

Rapid response times and high scalability

ULC is optimized for the performance requirements of business applications. Even sophisticated user interfaces respond rapidly, without the need for laborious optimizations in the application. This is made possible since only those datasets currently required by the user are transferred - even in the case of complex computations. This significantly reduces traffic, and applications developed using ULC run smoothly and with high performance - even with large user numbers and low-speed processors.

Software entropy: ULC significantly reduces complexity

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Higher user productivity

Applications developed using ULC open new horizons of interactivity. Effective user interfaces for web application are available for the first time even to power users. Comprehensive display options for even the most complex information, combined with intuitive and smooth usability, measurably increase end-user productivity. Applications behave like locally installed programs, ensuring a high degree of user acceptance. Maximum data security, meanwhile, is provided by a protected Java plugin in which the applications are executed.

ULC-applications result in minimal traffic

About Canoo Engineering AG

Contact us

Canoo offers you every conceivable service related to ULC development:

- Consulting and analysis
- Implementation concept and project planning
- Implementation and user training
- Development and maintenance

Further information
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