Press Release

Berlin, January 2nd, 2019

First major project entirely implemented with Low-Code successfully completed

Fisheries management system for Federal Administration implemented with 99.2% code generation

The manufacturers of Low-Code platforms are known to strive for a "factor 10" in terms of the efficiency of software development. This usually applies to small and medium-sized projects. The recently implemented project for the German Federal Office for Agriculture and Food (BLE) proves that Low-Code technology is also ideal for large-scale projects: This is a software solution for fishery IT made up of more than 58 specialist modules, in which more than 99% of approximately 1.9 million lines of program code were generated automatically.

How well a Low-Code platform is suitable for professional applications largely depends on the proportion of code that can be generated automatically. In general, the goal is to have around 98% of a software solution to be developed automatically generated with Low-Code development environments and with only manually writing the remaining two percent, for example, for very specific algorithms, as low-threshold code. In the fisheries IT project, program code had to be written manually for only 15,000 lines, or 0.8% of all software developed for the customer.

With Low-Code platforms, the actual software is completely and continuously assembled by a click of a mouse with a cockpit-like program, purely interactively, and with drag-and-drop from pre-configured functionalities. For rare exceptions that cannot be implemented right away, small 'code snippets' are programmed in the language of the target system (in this case in Java), which can access the automatically generated object model and therefore remain quite simple and understandable. Low-Code not only means that very little code has to be written manually, but, if at all, then in a relatively simple, generally understandable way. The term was coined by Forrester Research in 2014, and Berlin-based Scopeland Technology GmbH has been working on the principle of "configuring instead of programming" since the 1990s.

Both for the client and for the contractor, the project results at hand are striking proof of the suitability of the Low-Code approach for the development of large, sophisticated software solutions. While previous code generator products could only generate a basic framework of the final software, Low-Code products with a generation rate of more than 95% represent a completely new quality and represent a fundamental paradigm shift in the development of custom-made software solutions.

Different from what was perhaps initially expected, the fishery IT project has shown that the Low-Code development methodology does not come at the expense of the stability, performance, security, and other quality features of a given piece of software, but instead

results in significantly fewer program errors and other technical problems. Low-Code developers are of course not immune to making mistakes, but they do benefit from the fact that the actual software is largely ready: With Low-Code technologies, nearly all program components used at runtime are ready-made, and configuration errors can usually be fixed and patched with a few clicks of the mouse, without having to test the entire program package again.

We would be happy to invite you to meet us in Berlin or arrange an appointment for you with the Federal Office for Agriculture and Food in Hamburg for on-site research into "99.2% code generation."

About the project:
https://www.computerwoche.de/a/low-code-fuer-ein-fischerei-management-system,3546273

About Scopeland Technology

The Berlin-based company Scopeland Technology is one of the pioneers of Low-Code technology and in Germany still one of the most important players in the rapidly growing Low-Code market. Scopeland Technology has already implemented more than 500 larger projects with its platform itself. Customers are mainly federal and state authorities, research institutes, health care institutions and large industrial companies. Scopeland Technology is currently expanding its partner network in order to broaden its business base. One of the objectives is to increasingly shift the project business to partner companies in order to be able to concentrate more on the actual product development.

Low-Code platforms enable the development of tailor-made IT solutions without or almost without programming. This revolutionary new approach enables efficiency increases by a factor of 10 compared to traditional manual software development. Accordingly, US analysts such as Gartner and IDC predict that Low-Code technology will completely replace large parts of previous software development. Low-Code is regarded as one of the key elements of digital transformation. If it happens as predicted, this will be the biggest paradigm shift in software development in a long time. Leading providers of Low-Code platforms from the USA are already estimated to be worth billions of US Dollars today, and hundreds of new manufacturers are currently entering the market. In the US, every fourth company already uses Low-Code products on a large scale, with only Germany lagging somewhat behind.

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