

22. January 2009

gApp

Abstract

gApp serves to develop Client/Server applications by generative approaches and with the programming language Java. An application generated with gApp contains an extensive user interface and is similarly qualified to operate in the Inter- and Intranet. At that, the client of a generated application can act as fat-client or smart-client. An application is defined by the use of a modeling tool and the modeling language gApp ML. The model of the software created by this means serves as entry for the generation and is converted into an executable application immediately. JenerateIT is used as generation tool and currently, MagicDraw is supported as modeling tool.

Aim of gApp is to accelerate and to standardize development and maintenance of Java applications with the features mentioned above. In the following, we will have a closer look at single aspects of gApp.

Features of a generated application

Among other things, a generated application provides the following functionality:

- create/read/update/delete-functions for database charts, together with the user interface
- menus and tool bars
- display in charts, lists, trees, forms and tabs
- division of an application in different splitter panes for excerpts of various database charts
- entry forms with master-detail-connections
- auto-navigation about the relations between database charts
- support for transactions
- use of database constraints for the validation and formatting when entering and digitising data
- automatically available and fully operative search forms
- log in with user name and password

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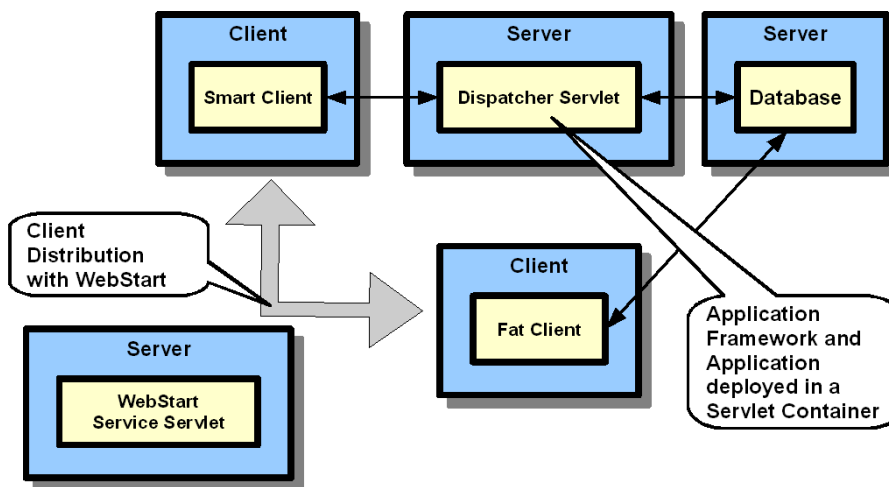
Tax numbers

Tax number.: 06426/44070
Turnover tax ID: DE252978357

Place of jurisdiction

District court
Freiburg im Breisgau
HRB 700862

Operation and allocation of a generated Client/Server application



A generated application can operate in a JEE application server as well as in a single servlet container. If the client is distributed as smart-client, the Client/Server communication occupies a small spectrum and HTTP and HTTPS are used as transmission protocols.

Which technologies are used in a generated application?

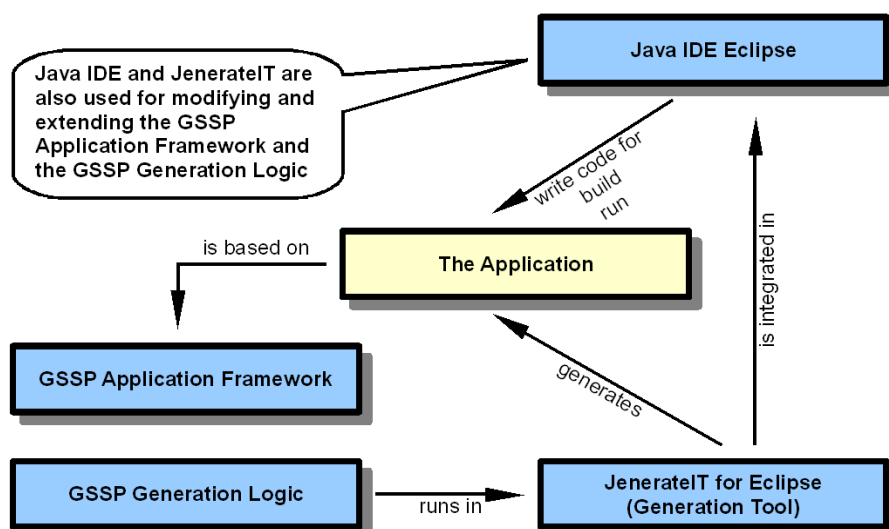
The model of an application is abstract. It can be converted into applications by generative approaches that use different technologies. In the end, all these applications provide the same functionality for the user. Currently, a generated application is based on Swing, JPA and servlet as key technologies. One and the same model could also be converted into a web application.

Flexibility in the process of development

In a generated application, parts of the user interface can be accommodated manually. This can be done with a GUI editor for example. A generated application can also be refined without using the generation tool. This means that not all the members of the development team must have the generation tool installed or be familiar with it.

The generation logic is adjustable and extensible. The possibilities for modeling can also be extended.

The application is central



In the development process using the generative approaches of gApp, the future application is the center of attention. In this, the generative development tools dovetail with the customary Java development environment. Currently, an integration in Eclipse is available.

Adjustments or amplifications of the generation logic are also developed with the same Java IDE.

Generate only what is necessary and useful

An application generated with gApp attaches to the gApp application framework and to established and standardized technologies. Due to the fact that the majority of general tasks of an application is available in frameworks and libraries, code redundancies are avoided and the generation logic remains clear.

If you wish to experience more...

...we would enjoy a personal meeting in your office to demonstrate the power spectrum of gApp. What's more, if you wish to generate applications or parts of an application of another type, our tool JenerateIT and gApp as a sample implementation of generation logic might be of interest to you.

About us

The Generative Software private limited company was founded January 18th 2007 by the certified mathematician Marcus Munzert and the qualified engineer Heinz Rohmer. The company is based in Freiburg (im Breisgau).

We offer services and tools to maximize effectivity and efficiency in software development. We focus our attention on methods of model-driven software development. In our consulting service, we consider technical, organizational, and economical as well as human factors.