

Linking Java environment and Tarantool DBMS

Sibedge helped Mail.ru Group to adapt Tarantool DBMS to the needs of big business.

About Client

Mail.ru Group is a Russian technology company. According to Forbes, it ranks 97th in the list of one hundred most innovative companies in the world. Among its assets are social networks Odnoklassniki and Vkontakte, food delivery service Delivery Club, advertisement service Yula, car sharing YouDrive and many others.

Challenge

In 2008, Mail.ru Group developed its own database management system, Tarantool, which is now an ongoing project. This tool differs from other DBMS as it uses open source code and is defined by faster performance. However, for Tarantool to become popular in big business, it lacked the ability to connect to databases in Java. Tarantool developers were only faintly familiar with this programming language. They needed an expert with a high level of expertise, which was not easy to find. One of the partners recommended contacting Sibedge, emphasizing that its employees were experts in Java. This is how the cooperation between the two companies began.



Industry

Information technology

Location

Russia

Key points

- Provided Mail.ru with expertise in Java development.
- Made the solution more efficient and convenient.
- Made Tarantool compatible with legacy systems.

Team

Project Manager — 1
Back-end developer — 1
Analyst — 1

Duration

8 months

Technologies

Java

\ Approach

Communication with client was based on the following principles:



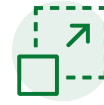
Quick Start



Transparency
of process



One-Hour
Response



Scalability



High level of trust

For the Tarantool DBMS to connect to Java databases, one had to make it compatible with the platform-independent industry standard Java DataBase Connectivity (JDBC).

It was decided to implement all this in the format of a library or, more simply, a "connector," which should become a link between Java applications and the Tarantool system.

The connector was being developed by a Sibedge Java developer for six months. In addition to working on compatibility with the JDBC standard, they also helped developers from Mail.ru Group to make Tarantool more efficient and convenient by giving useful software tips and compiling bug reports.

\ Result

Client focus was important to the customer. And thanks to the library-connector with JDBC support, the Tarantool platform has become available to big companies which actively use enterprise Java solutions.

This DBMS is already used by giants such as Beeline, MasterCard, Badoo, Avito and Gazpromneft — and now many others will be able to join them.

Tarantool connects to even the most outdated legacy systems and caches 100% of data in RAM, which significantly increases the speed of information processing. Adapting DBMS to Java environment only increases the attractiveness and market competitiveness of the platform.

\ Feedback



Kirill Yukhin

Tarantool Project
Manager

“ Our clients have always said that if you want to continue working with us, you need Java support. Big business loves Java. We needed to create a connector—a link between Tarantool and Java, and our team did not include any experts in Java development. Someone recommended Sibedge to us and said that their developers were good at it. They turned out to be real pros in their field—not only did they fulfill our tasks, but they also made valuable suggestions for improving Tarantool, making our product better.

Everything turned out so well that I can't remember a single negative moment in our cooperation. We highly appreciated our mutual trust, well-built communication and the level of partnership. We have a few more ideas that we would like to implement in the future, so we will return to Sibedge in the future.

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contacts@sibedge.com

United States

10362 Leola Ct # 1
Cupertino, CA 95014

Australia

1/237 Stirling Hwy,
Claremont, 6010

Russia

Tomsk
75 Pushkina Street

Moscow
10 Bolshaja Tulsckaja
Street