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Distributed university library system with online access

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Summary

The goal of presented work is to realize distributed university library system with online access point. The nodes of distributed system are the individual autonomous single database systems of university libraries contained information about available issues (like books, journals, newspapers etc.). The users of the system after registration can use variety of services like search by multiple parameters (title, author, type of media, publisher and keywords), loan and get books out or check for loaned issues. There is an opportunity to get detail information for library content. The application is intuitive and easy to use with minimal requirements to its clients – they have to use some of the most widespread browsers supported *JavaScript* and *CSS* (the application is tested with Internet Explorer, Firefox and Opera). The presented three-tier application is based entirely on java technologies - JSP and java beans for client side; RMI for communication between web client and remote server and JDBC for connection to database and consequently the system is platform independent and applicable to many different possible relational database systems. Three-tier architecture allow any of the tiers to be upgraded changed or replaced independently as result of users requirements.