

JDBC is an interface for standard usage of relational databases in the Java language. It usually forces the programmer to repeatedly write similar sequences of commands and doesn't provide means for comfortable work. The result is that solving of persistency related problems consumes a significant portion of the development time. The Hibernate library encapsulates majority of the difficulties involved. It does enable the programmer to save and load objects to/from a database transparently. To get the necessary information the library uses predefined metadata. This thesis focuses on comparison of database application development using JDBC and Hibernate from many points of view. First, there is a description of main problems of working with JDBC, emerging in nontrivial applications. Chapters, consisting of examples of a JDBC and Hibernate library usage follow. Thesis then defines viewpoints for comparison of both systems and provides the comprehensive comparison based on them. In the end there is a review of obtained results and recommendations for effective work based on them.