# Welcome to HotRod!

HotRod is a lightweight code generator for MyBatis and Spring JDBC.

HotRod's main goal is to dramatically reduce the amount of time devoted to writing and debugging the persistence layer of a Java application. HotRod uses JDBC to retrieve the structure of an existing database and generate all DAO Java classes that expose simple Java methods to perform all interaction with the database.

All SQL code is supported—even native SQL and dynamic SQL. The developer doesn't see any JDBC code anymore. Nada, nil, zip!

All basic operations are made automatically available, including CRUD, FK navigation, and byExample queries. When complex, native, and/or dynamic SQL is needed the developer only needs to provide the SQL statements and HotRod takes it from there, automating all the rest.

HotRod is not an O/R mapper. Its goal is to dramatically cut down the development effort of the persistence layer without entering the realm of heavyweight frameworks, tools, or libraries. There are no inheritance, aggregation or composition, no active objects, no heavy objects, no entity EBJs, no obscure caching, no baroque layer of abstraction. All generated DAOs/VOs stay close to the tables, views, and SQL statements for easy understanding and debugging.

The MyBatis Generator produces all the DAOs, the mappers, and the main MyBatis configuration file. The Spring JDBC Generator produces all the Java interfaces and concrete classes needed to communicate with the database.  
  
Additionally, all generated DAOs support adding custom logic to them. Upon database changes they can be rapidly regenerated without losing the custom logic.

HotRod includes simplified MyBatis transactions, standard MyBatis transactions, and Spring declarative transactions.

HotRod is very flexible while generating the DAOs. Even though for simplicity it automates the names for the tables, views, sequences, and columns, all of them can be overridden at will by the developer using the configuration file. Likewise, HotRod provides default java types for all database columns; of course, they can also be overridden by the developer as needed.  
  
HotRod supports Oracle database, IBM DB2, SAP ASE (ex-Sybase), Microsoft SQL Server, PostgreSQL, MySQL, MariaDB, HyperSQL (HSQLDB), and H2 databases.