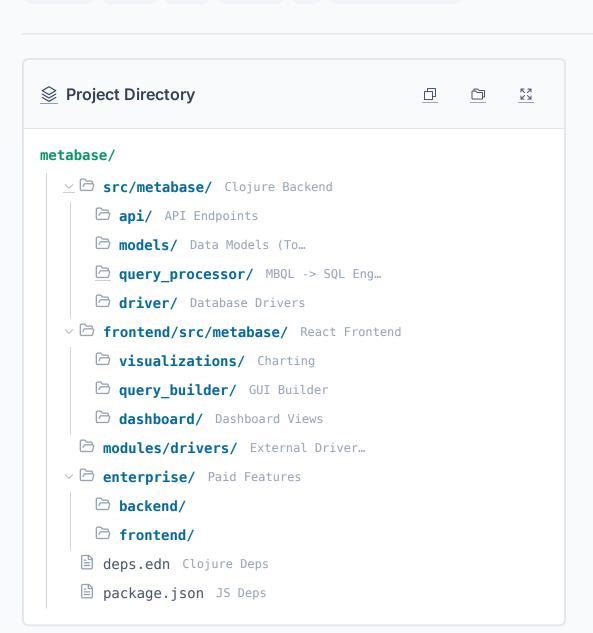
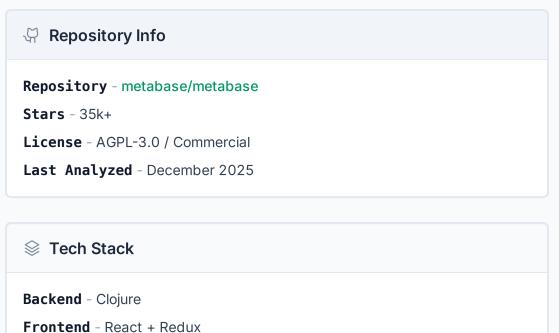


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Updated 2025-12-30

#metabase #clojure #react #analytics #bi #business-intelligence





## Architecture Notes

**ORM** - Toucan (Custom)

Database - H2 (Default) / Postgres / MySQL

Build Tool - Shadow-cljs / Webpack

Metabase is a single-process application. The Clojure backend serves the React frontend and handles all database queries. The core innovation is the 'Query Processor', which takes a JSON-based query description (MBQL) and translates it into SQL for dozens of different databases.

## □ Key Directories

src/metabase/query\_processor/ - The most complex part of the backend. It handles the middleware pipeline that compiles abstract MBQL queries into executable SQL.

**frontend/src/metabase/visualizations/** - Contains the logic for rendering data as charts, tables, and maps. Metabase has a highly polished visualization system.

**modules/drivers/** - Metabase supports a plugin system for adding new database drivers. Each driver implements a standard Clojure protocol (interface).

## Why This Structure?

Metabase is the most popular Clojure application in existence. It proves that a Lisp dialect can be used to build a user-friendly, mainstream product. Its architecture is optimized for query generation and data visualization.