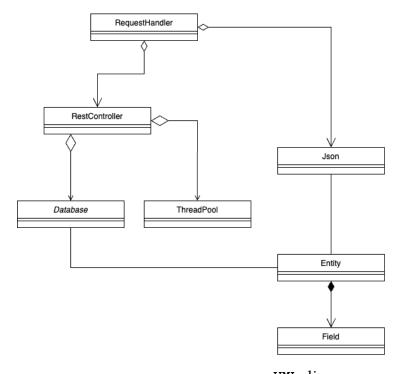
Bookstore

1 REST API

The **REST API** for this project is built in C++ using a custom-made HTTP server based on UNIX sockets. The server make heavy use of variadic templates and can be extended with minimal effort. Multithreading is employed to increase perfomance using a listener thread and a thread pool with a configurable number of threads. The listener, after accepting a new client forwards its socket to the thread pool by creating a task to be scheduled. The server uses the X DevApi of the MySQL connector for C++, built from sources and linked statically to the final executable. To manipulate JSON objects the application uses the lightweight RapidJSON header-only library. It recognizes the following endpoints:

- books/create insert a new book in the database
- stock/create insert a new stock in the database
- books/update update a book
- stock/update update a stock
- books/fetchAll list all books
- stock/fetchAll list all stocks
- books/delete delete a book
- stock/delete delete a stock
- book/fetchById fetch a book by its UUID
- stock/fetchById fetch a stock by its UUID



UML diagram