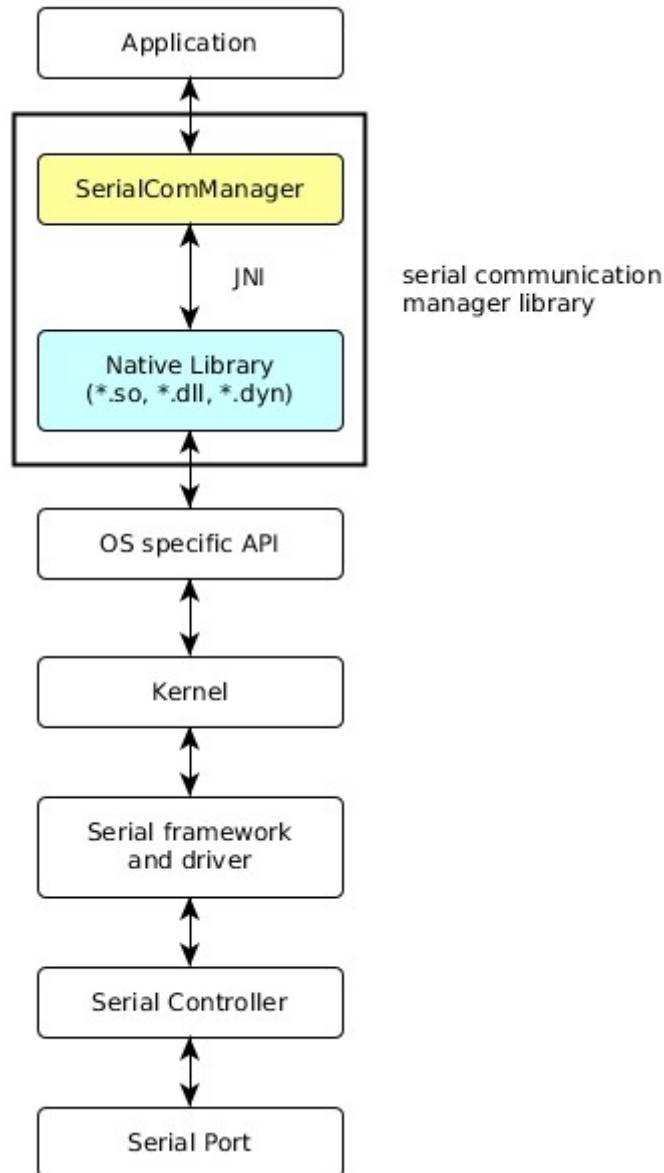## 1. Function flow (modular view)

The serial com manager library implements operating system independent methods and classes in Java language, highlighted with yellow color.
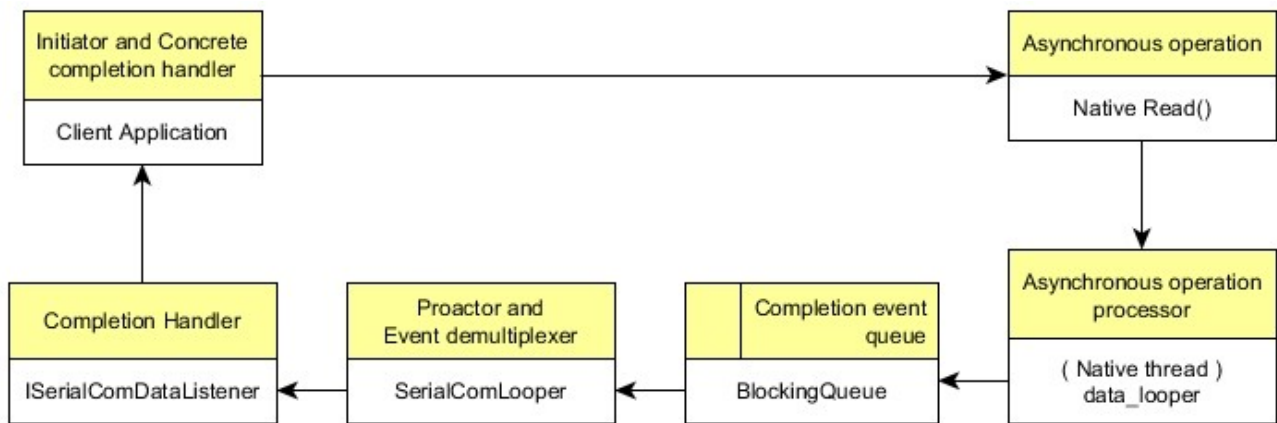
It implements operating system specific API calls and event handling through native library in C language as highlighted in blue color.

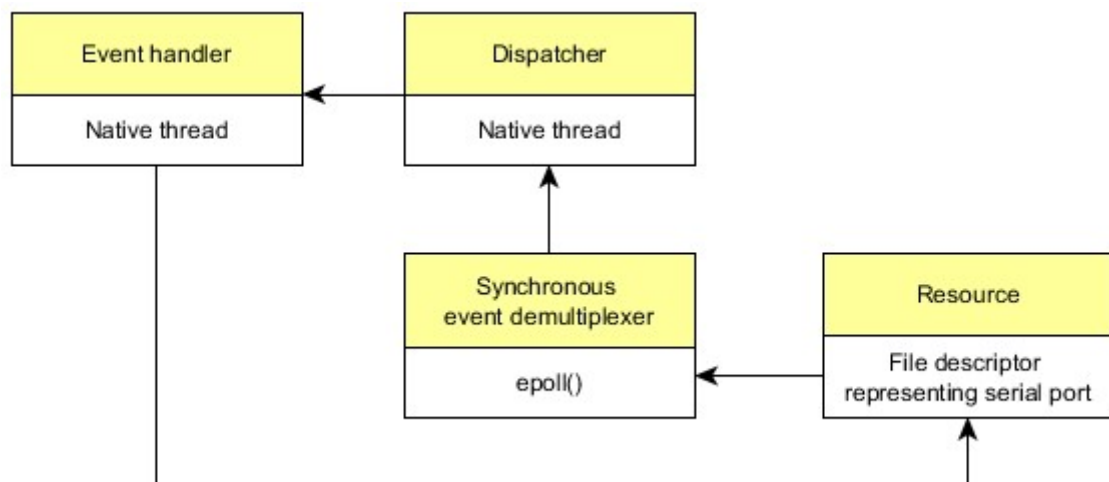## 2. Base architecture with design pattern

At the heart of library lies a hybrid approach utilizing both proactor and reactor design pattern to wait for an event to happen or availability of data at port, notifying registered handlers and passing data to upper layers and finally delivering it to end application.

The proactor is responsible for showing interest in availablity if data, for an event to occur, invoking appropriate handlers passing data and event to application.

The reactor on the other hand wait for an event to occur or data to be available and demultiplexes it to proactor.

Proactor

Reactor