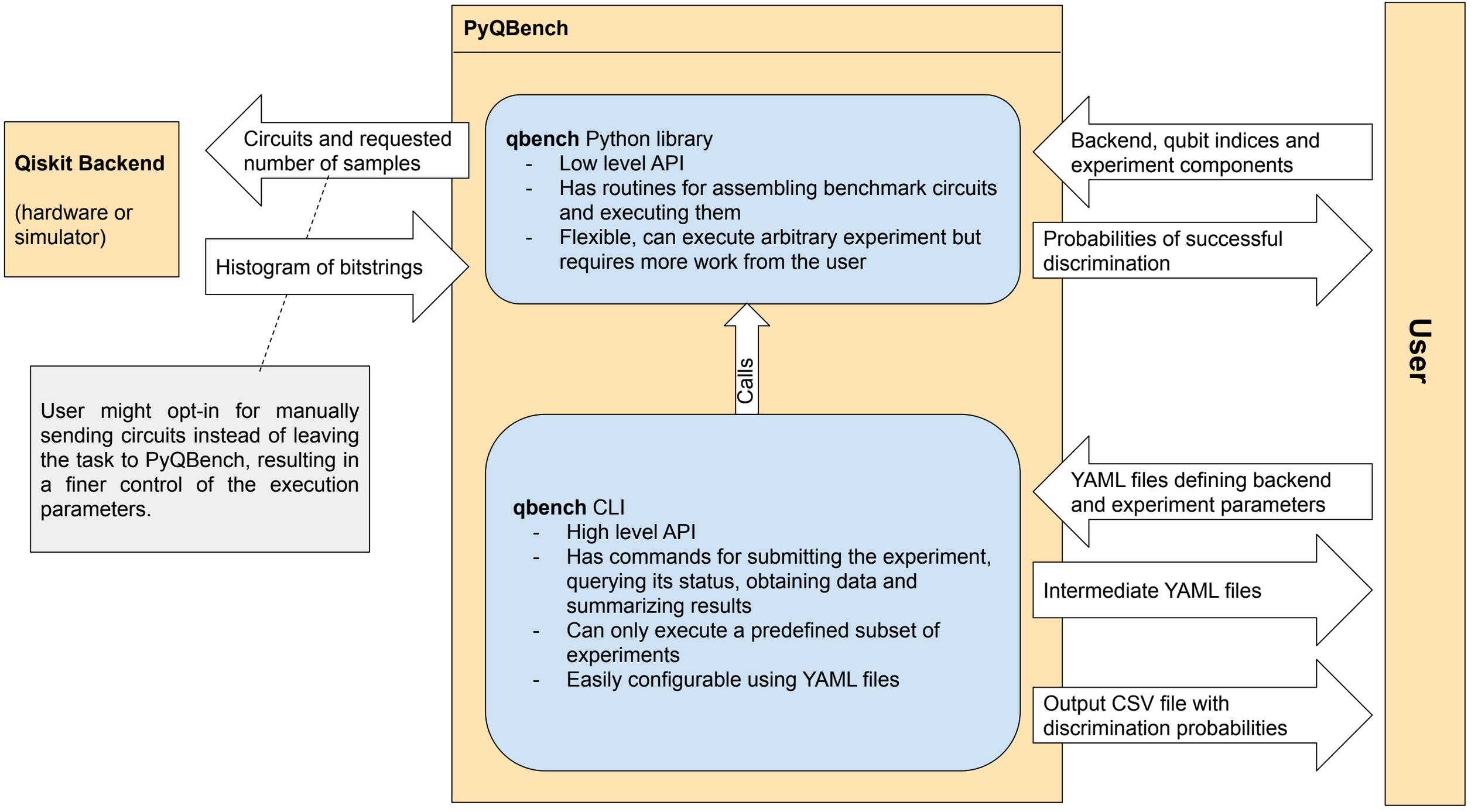
PyQBench
Qiskit Backend
(hardware or simulator)
Circuits and requested number of samples
Histogram of bitstrings
User might opt-in for manually sending circuits instead of leaving the task to PyQBench, resulting in a finer control of the execution parameters.
qbench Python library
- Low level API
- Has routines for assembling benchmark circuits and executing them
- Flexible, can execute arbitrary experiment but requires more work from the user
Calls
qbench CLI
- High level API
- Has commands for submitting the experiment, querying its status, obtaining data and summarizing results
- Can only execute a predefined subset of experiments
- Easily configurable using YAML files
Backend, qubit indices and experiment components
Probabilities of successful discrimination
YAML files defining backend and experiment parameters
Intermediate YAML files
Output CSV file with discrimination probabilities
User