Component Diagram for Open Science Platform

User

Interacts with the system via Jupyter Notebook

Uses
[Jupyter Notebook UI]

Docker Containers
[Component]

Jupyter Server
[Python, Iroha v1 Library, IPFS Client, Apache Tika, Woosh]

User front-end and processing environment

Submits transactions to
[gRPC API]

Uploads and retrieves files from
[HTTPS API]

Blockchain
[Iroha v1 Hyperledger Iroha]

Distributed ledger for transaction management

Storage
[InterPlanetary File System]

Decentralized storage and file retrieval

Stores blockchain data in

Relational Database
[PostgreSQL]

Stores blockchain data for Iroha v1
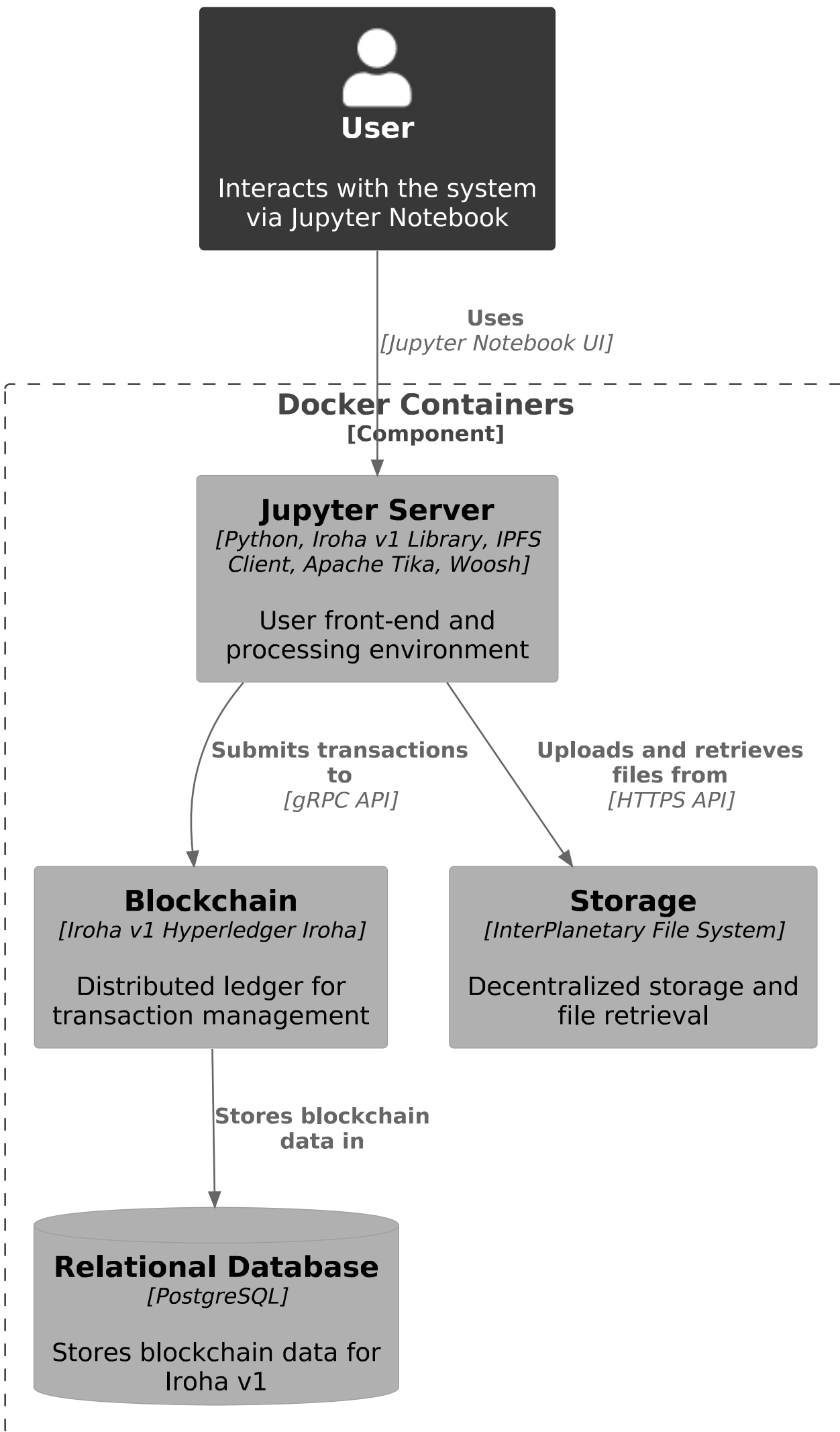
Legend
person
system
container
component
external person
external system
external container
external component