## **System Context Diagram for Open Science Platform** Researcher A researcher who enrolls and interacts with the platform to upload and manage research artifacts. Registers and interacts with **Open Science Platform** A decentralized platform that integrates blockchain, IPFS, and smart contracts to manage and share research artifacts. **Uses for user and Stores and retrieves Extracts metadata Indexes and searches** Trusted code from uploaded files project data storage execution research artifacts research artifacts **Core Services Extended Services** [system] [system] **Distributed File** Blockchain **Smart Contract Search System Metadata Extraction System** A decentralized ledger that Enforces business rules and A search engine used to

A decentralized file storage

system used to store

research artifacts and

metadata.

ensures the integrity and

traceability of user data,

projects, and research

artifacts.

automates transactions on

the blockchain, providing

verifiable and immutable

execution.

## Legend

index and search for

research artifacts by

keywords.

A service that extracts and

structures metadata from

uploaded research artifacts.

person system external person external system