

Taverna: A workflow environment

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Requirements

Architecture

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- ▶ Consume any open service.
- ▶ Quickly find new services.
- ▶ Multi-tiered architecture to allow plug-in creation.
- ▶ Fault Tolerance - exit gracefully on service failures.
- ▶ Store provenance of data with data.

Taverna Architecture

- ▶ Data Model
- ▶ Plug-in Service interface - For creating and managing request in different protocols.

Data Model

- ▶ Application Data Flow Layer - Creates workflow for
- ▶ Execution Flow Layer - Hides data details from user, such as iterating through lists.
- ▶ Process Invocation Layer - formats requests and invokes concrete services.

Architecture Components

- ▶ Service Discovery/Registry
- ▶ Workflow Creation
- ▶ Request Creation and Management

