

# Status of the NOVA portal

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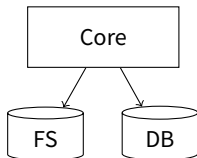
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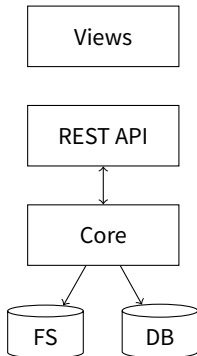
## From the proposal section 2.3

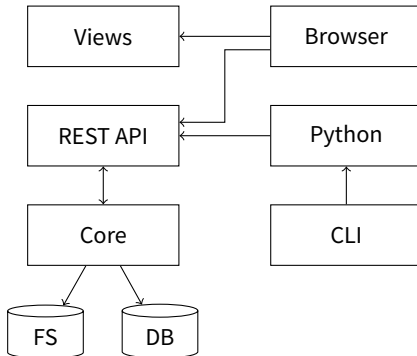
- Creating a data portal to find existing data sets and corresponding analyses
- Use interactive 3D previews from a visualization server built in WP 3
- Archiving of finished data sets
- Management of analysis systems
- Useful mapping of the full value chain<sup>1</sup>
- Definition of arbitrary metadata for different applications

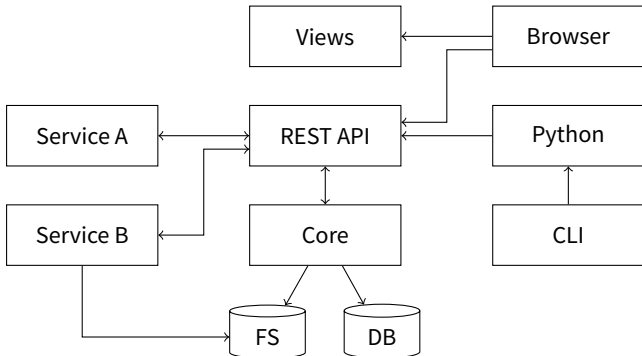
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<sup>1</sup>Proposal, sample characterization, scan, reconstruction, segmentation, analysis and publication









- Models datasets and stores metadata in a database
- Manages users, sessions, authentication and authorization
- If enabled manages file system access
- Kept minimal, domain-specific functionality is moved into services

## Purpose

- Exposes functionality of the core as a well-defined interface
- Authenticates through revokable user tokens
- RESTful models, i.e. proper use of HTTP verbs

## Examples

- GET `/api/datasets` lists datasets
- POST `/api/user/<name>/bookmarks` creates a new bookmark



## Purpose

- Is the main frontend to the site
- Uses speaking URLs, i.e. /user/<name> shows the user profile
- Uses VueJs and the REST API for dynamic aspects

## Purpose

- Provide additional functionality through different server instances
- Talk to the main core through the common REST API
- Act on behalf of the user through authorization token

## Examples

- Prepare data for WAVE
- Additional reconstruction methods

## Purpose

- Programmatic access to the portal
- Python module wraps calls to the REST API
- Command line tool uses Python module

## Examples

- Automatic insertion of new dataset after scan
- External import scripts that used to be integrated directly

## Requirements

- Creating a data portal to find existing data sets and corresponding analyses
- Use interactive 3D previews from a visualization server built in WP 3
- Archiving of finished data sets
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- Integrate both simple and complex previews of 3D data sets
- Remove the old categorization scheme and replace with flexible tags
- Break up the collection scheme
- Set up a test case to record the scanning process with Concert
- Release a limited demo version to the public