

# Design Topics

This page includes a list of topics to be discussed with the team to find good solutions. Feel free to add/remove from it.

- Design/Implement preferred queues for projects like TERRA
  - Can leverage of <https://opensource.ncsa.illinois.edu/bitbucket/projects/CATS/repos/scripts/browse/extractor-filter>
  - Currently running on ncsa.file.digest, ncsa.image.preview and ncsa.image.metadata
  - Currently running on production
  - Configured using filters.json (might need to be extended)
- Registration page post to LDAP or redirect to LDAP form?
- Google Maps/Street View
  - Users provide their own Google API Keys (need to figure out details)
  - how do we review the pull request? We have a API key for internal testing
  - Currently temporarily replacing key in extractor for student routes
  - Trying to see what we can do without API key
- Box integration
  - Box Skills (beta)
    - Register Skill (DES Galaxy Recognizer)
    - Sends a JSON body to clusterman
      - fileid (unique identifier), read token (download file), write token (upload metadata to box)
    - bdbbox.ndslabs.org runs clusterman/rabbitmq/mongo/extractors
      - clusterman creates a variation of the Clowder extraction message
      - extractor is a branch of pycowder that reads/writes to box and calls Mattias ML code
- Propagation of Fence credentials to Clowder
  - If an extractor creates derived file/dataset they cannot access them
  - Depends on Clowder 2.0 and Silhouette implementation
  - Working on propagating User API Keys to extractors
  - Need to figure out how to match fence users to clowder users and keys
- User authentication for getting API access token
  - Should getting a token require anything besides API key?
  - [Sandeep Puthanveetil Satheesan](#) looking at how other services do it
- Adoption of Datasets/Spaces in the API to leverage extraction by space
- Full docker stack deployment / writing new extractors/converters
  - Ben has in NDS workbench ([Benjamin Galewsky](#) where is this code?, can you paste the link here)
- Defining parameters for extractors in extractor-info.json
  - so that clients can provide interface/support for which parameters can be set
  - required/available
- Using binder repoToDocker as alternative to docker files for creating extractors
- Tool Catalog user experience
  - Discuss internally ways to improve UX
  - Can we do an informal user study? Provide tasks and see where users get lost