

## OpenDrop

OpenDrop is a synchronizer application of a local cabinet with a remote cabinet data base where the user information is stored.

The application consists of two elements

- The client
- The server

The client

- Inputs
  - working directory : Directory to be monitored
  - Username and Password
  - remote server information
  - scan interval (k)
- Functions
  - Scan working directory for changes with a given interval k
    - Valid types of changes:
      - New files added
      - Removed files
      - Files changed
  - Store current changes
    - How to store information?
      - Directly save objects of file disks
      - Connection to a data base

The client scenarios

- Basic case
  - User starts session
    - Loads information from remote cabinet
    - Download the remote content
  - Start monitoring working directory
    - if a change is detected synchronize remotely with the server

Notes:

Consider in which cases we could get a deadlock or how many processes do we need to handle the current monitoring synchronize actions with the client.

## The Server

- Has directory where there are the cabinets for each user
- Has a database with the following information about the users
  - username
  - password
  - user folders path
- Receives a request from user to update its cabinet

## Questions

What will the mechanism to receive request from client , and what types of requests?