1 Report

Students should present a reports explaining the developed system. The report should contain clearly the following information:

- Graphical representation of the architecture and components of the system. Students should expand the figure presented in this report stating what functionality are present on each processes/components/modules.
- The way thread management is perform should be described. For each process student should list all thread, describe their functionality and explaining how they are created.
- The interaction protocols between the components (KVS-library, KVS-LocalServer and KVS-AuthServer) and their internal modules should be represented using **Sequence Diagrams**.
- The internal data structures
- How the various components are implemented with respect to functions, threads and data structures.
- How remote communication is performed
- What data is exchanged between components
- How synchronization is implemented.

In the final section of the report students should clearly describe in a form what functionalities were implemented (form to be provided).

2 Report structures

- Introduction
- Architecture
- Implementation
  - Code structures
  - Modules
  - Data-structures
    - callbacks on KVS-lib
    - callbacks on KVS-localserver
- Communication
  - Sockets Descriptions
  - Sequence diagrams for all the functions in the KVS-lib
  - Network protocol
- Parallelism
  - Thread management
  - Synchronization
- Programming decisions (can be scattered in the document):

- What are the sizes/limits of group names, secrets, keys and data
- How the delete group is implemented
- How groups in multiple KVS-localservers are implemented.
- How is managed the non delivery guarantees of the datagram sockets
- Other important decisions….

3 Project functionalities

Students should fill a form with the presentation of the various implemented functionalities. For each section students should define the percent of completion and a small description of the faults. This form also define the evaluation criteria for the project.

Based on this evaluation criteria students should define a self- assessment grade (auto-avaliação).