# Use case

## Researcher

* View own information
* Assignment
  + View assigned experiment – if assigned
  + ~~View history of assignments~~
* Suggest experiment (Code Name, Details) – if not assigned

## Head of experiment (Researcher)

* Experiment
  + View experiment information
  + Conclude experiment
* Materials
  + Request material (Type, Quantity, Details)
* Equipment
  + Request equipment (Type, Details)
  + View list of reserved equipment
  + Free equipment
* Researchers
  + Request researcher (Specialty, Details)
  + View list of current researchers
  + Free researcher

## Inventory manager

* Materials
  + View list of stocked material (Type, Quantity)
  + View material requests
    - Approve
    - Deny (Details)
* Equipment
  + View list of stocked equipment (Type, Number)
  + View equipment requests
    - Approve (Equipment ID)
    - Deny (Details)
* ~~Stores (Interface)~~
  + ~~View catalog~~
    - ~~Materials / Equipment (Type, Quantity, Unit price)~~
  + ~~Order materials / equipment~~

## Director

* Experiments
  + View list of all, active, concluded experiments
    - View experiment information ~~/ history~~
* Experiment suggestions
  + View list of experiment suggestions
    - Approve (Lab ID) 🡪 Researcher becomes head of experiment
    - Deny (Details)
* Laboratories
  + View list of all, reserved, unreserved Labs
* Researchers
  + View list of all, assigned, free researchers
    - Add, modify, delete researcher
  + View researcher requests
    - Approve (Researcher ID)
    - Deny (Details)

# Relational

personnel (**personnel\_id**, full\_name, role, login, password)

researcher (#**researcher\_id**, full\_name, #experiment\_id)

field (**field\_designation**)

specialty (**#researcher\_id**, **#field\_designation**)

lab (**lab\_id**, location)

experiment (**experiment\_id**, #researcher\_id, state, code\_name, description, #lab\_id)

material\_type (**material\_designation**, stocked\_quantity)

equipment\_type (**equipment\_designation**)

equipment (**equipment\_id**, #equipment\_designation, #experiment\_id)

request (**request\_id**, state, type, #experiment\_id, #field\_designation, #material\_designation, #equipment\_designation, quantity, details)