

Laboratory Data Management System

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User Stories

The users of the Laboratory Data Management System will consist of the following roles:

- Researcher
- Principal Investigator(PI)
- Administrator

We have collected the following user stories¹:

1. As a laboratory researcher, since security is a primary concern, the credentials of the user should be verified before he accesses the system.
2. As a user, for ease of access, I would like to have:
 - **User Generic Tab:** Common data/protocols that can be viewed or modified by anyone.
 - **User Specific Tab:** The data here can be modified only by the owner.
3. All the content present in the system should be readable by all and can be searched with the following options:
 - Search by researcher/experimenter's name
 - Search by experiment name or experiment id
 - Search by keywords in the experiment

The above search criteria can be used for searching entire articles or only images.

4. As a researcher, I would like to have exclusive permission to modify the data added by me.
5. As a researcher, I would like to ensure that all the revisions/edits made by any researcher should have associated timestamps to maintain the integrity of the data.
6. As a Principal Investigator, I want the privilege to approve or disapprove the data collected, modifications made to the protocols² or notes added to the protocols by lab researchers.
7. As an administrator I want the permission to create or delete accounts of users in the system.

¹We have used the **INVEST** model to ensure that all the user stories are independent, negotiable, valuable, estimable, small and testable

²A protocol is a standard procedure prescribed to carry out an experiment.