

Laboratory Management System

Team members:

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Idea: This desktop application will solve all laboratory management issues, such as assigning different experiments to each group of students, updating laboratory elements, groups, and experiments, receiving and evaluating reports, and making comments, instructor information, final results, instrument purchasing, and maintenance costs.

Motivation: Lab courses.

Basic features:

Information: *(Each sort of user will have an account and will be able to see the information that pertains to them.)*

Student – Name, Reg. no., Group no., contact, attendance, result.

Instructor – Name, designation, contact, experience, expertise, salary.

Teacher – Name, designation, Contact, Academic credentials, salary.

Group Formation: Teachers will assign students to each group.

Update: Laboratory elements, groups of students, number of experiment available.

Assignment: Assigning available experiment to each group and set their instructor.

Set date and time: Teachers will set the time and date of next experiment.

Report: Receive from student, review the reports, evaluate and add remarks.

Result: Print the final result at the end of the semester.

Cost: Calculate the total expense to purchase different elements, maintenance cost.

Experiment: It deals all operations related to experiment such as required elements, their amount, set up.

Real time record: It will track the apparatus given to each group are kept safely in lab after daily lab sessions. *(Students in each group will sign before taking the apparatus, and their names will be deleted after they return it. Otherwise, a fine will be assessed against their group number.)*

Controlled Experiments: Experiments that students are not permitted to do entirely without the assistance of the instructor.