The requirement is to build a system like Library management system, but for tech tools and gadgets instead of books.

The front end needs to be a Web app. I’m going to use Bootstrap here.

PHP and MySQL development at backend.

The following functionality is to be implemented:

1. The system should have a login page allowing both Students and the Admin. However, there cannot be a sign up option because the Students are to be verified by the Admin. The Admin will create Student accounts. (Primary)
2. Students can issue gadgets online on this system and go collect it from the labs. (Primary)
3. Students can also rate the items they have used. (Secondary)
4. They can see their own history of tools issued. (Secondary)
5. No Student can see other student’s info but the admin can have access to all student records including which student has borrowed what all gadgets. (Primary)
6. Student must know the location of the item before they issue it. I.e. the building and room/lab no. (Primary)
7. To keep fair practice and not limiting access of a tool to one student only, a student has to return the tool on or before the due date and if they want it back consecutively, they will be able to re-issue it online only after 24 hours of returning it. (Secondary)
8. A fine will be calculated based on the no. of days elapsed to return the item after the due date. (Primary)