

# Project Description

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*Open Labs Share* is a peer-to-peer educational platform that connects experts with learners through hands-on, practical learning experiences. Here's what it offers:

- **Expert-Created Content:** Subject-matter experts design step-by-step laboratory exercises focused on real-world applications
- **Practical Learning:** Students complete these labs to develop skills they can immediately apply in professional settings
- **Community Feedback:** A peer review system where learners evaluate and provide feedback on each other's completed assignments
- **Knowledge Sharing Ecosystem:** A collaborative environment where practical knowledge is actively exchanged among community members

Essentially, it's like combining the practical approach of a university lab with the collaborative feedback of platforms like GitHub or Stack Overflow.

## Competitive Advantages

- **Practical Focus:** Emphasis on real-world application sets it apart from theory-heavy platforms
- **Peer Review System:** Creates engagement and community while reducing expert workload
- **Expert Monetization:** Attractive proposition for subject-matter experts to share knowledge profitably

## Project Analysis

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### Key features:

- Publishing lab materials (Markdown document with assets)
- Submitting finished work in PDF format.
- Ability to leave feedback on somebody's work

### Publishing lab materials

Lab materials are represented in web page as rendered Markdown documents with exact practice topic. When upload a new lab, user should send main Markdown document with all required assets (image files) names exactly as they are referred in document.

Each lab should be a list of steps required to do / create / build something. All labs should be practically oriented. Consequently, each lab should have afterward hands-on exercises (theoretical questions, practical tasks).

### Submits of homework

Each student must be able to do a homework (set of exercises) after the laboratory. In order to have feedback, student may submit a finished work in **PDF** format to a platform. Each submission is connected to the exact laboratory and its set of exercises.

### Submit evaluating

The author of the laboratory or people that have finished the laboratory should be able to check new homeworks from other people.

#### User story on submit evaluation

**As a** laboratory author or student who completed a lab

**I want to** review and provide feedback on submitted homework

**So that** I can help other learners improve their practical skills and contribute to the learning community

#### Acceptance Criteria:

1. GIVEN I'm on the control panel, WHEN I click "Review Submissions", THEN I see labs I'm eligible to review with submission counts (I see the cards of labs I have already submitted and number of available homeworks under each title.)
2. GIVEN I select a specific lab, WHEN I view available submissions as cards, THEN I see homework cards with student name, submission date, and title
3. GIVEN I click "Review Submission" button placed on submission card, WHEN the review interface opens, THEN I see the PDF rendered clearly with a feedback form alongside (on the right)
4. GIVEN I'm writing feedback, WHEN I submit my review, THEN the student receives notification and I see confirmation
5. GIVEN there are no submissions available, WHEN I access the review section, THEN I see a helpful message explaining the situation

## Features prioritization

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### MVP must have features

Users should be able to:

- Create personal account
- Publish labs
- Read labs
- Submit homework for labs
- Review and leave feedback for lab submits

### Extra features

- Lab categorization
- Lab search by title, categories
- Lab reedback (simple feedback with comment and scores)
- Submit review with form (standartized feedback form)